DEPARTMENT OF THE NAVY
COMMANDER
NAVY REGION HAWAII
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JBPHH, HAWAII 96860-5101

5090
Ser N4/064
March 15, 2023

[redacted]
Hawaii State Department of Health
Solid and Hazardous Waste Branch
Underground Storage Tank Section
2827 Waimano Home Road #100
Pearl City, Hawaii 96872

Dear [redacted]

SUBJECT: MARCH 2023 QUARTERLY RELEASE RESPONSE REPORT,
RED HILL BULK FUEL STORAGE FACILITY,
DOH FACILITY ID NO. 9-102271, DOH RELEASE ID NOS. 140010 AND 210012
DOH HEER RELEASE INCIDENT CASE NOS. 20210507-0852 AND 20211120-2330

The Navy is submitting a Quarterly Release Response Report to provide information on release response actions related to the January 2014, May 2021, and November 2021 releases from Red Hill Bulk Fuel Storage Facility in accordance with State of Hawai'i Department of Health (DOH) Technical Guidance Manual. As required by Hawai'i Administrative Rules (HAR) Section 11-280.1-65.2, Release Response Reporting, this report presents release response actions taken pursuant to HAR Section 11-280.1 during the reporting period of November 5, 2022 to February 3, 2023, as well as a plan for future release response actions.

The Enclosure 1 Quarterly Release Response Report will be available for download from the JBPHH Red Hill Bulk Fuel Storage Facility environmental data management system (EDMS) at https://synectics.net. EDMS users will receive a system generated email notification.

If there are any questions regarding this matter, or if more information is needed, please contact [redacted] (b) (6) (b) (6) (b) (6)

Sincerely,

[redacted]

Captain, CEC, U.S. Navy
Deputy Regional Engineer
By direction of the
Commander

5090
Ser N4/064
March 15, 2023

Enclosure: 1. Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility, DOH Facility ID No. 9 102271, DOH Release ID Nos. 140010 and 210012, DOH HEER Release Incident Case Nos. 20210507 0852 and 20211120 2330 of March 22, 2023

Hard Copy to:
(b) (6), NAVSUP FLC Pearl Harbor

EDMS Notification to:
(b) (6), U.S. EPA Region 9, Red Hill Coordinator

Electronic Copy to:
(b) (6), DLA Energy Pacific

Naval Facilities Engineering Systems Command Hawaii

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

DOH Facility ID No. 9-102271
DOH UST Release ID Nos. 140010, 210012
DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330

March 22, 2023

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Naval Facilities Engineering Systems Command Hawaii

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

DOH Facility ID No. 9-102271
DOH UST Release ID Nos. 140010, 210012
DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330

March 22, 2023

Prepared for NAVFAC Hawaii by

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Executive Summary

This Quarterly Release Response Report (RRR) was prepared for Naval Facilities Engineering Systems Command, Hawaii by AECOM Technical Services, Inc. for the Red Hill Bulk Fuel Storage Facility in accordance with the State of Hawai‘i Department of Health (DOH) Technical Guidance Manual (DOH 2021c). As required by Hawai‘i Administrative Rules Section 11-280.1-65.2, Release Response Reporting, this report presents release response actions taken pursuant to Hawai‘i Administrative Rules Section 11-280.1 during this reporting period (November 5, 2022 to February 3, 2023) and a plan for future release response actions to be taken.

This report combines release response reporting for three releases of fuel from the Red Hill Bulk Fuel Storage Facility:

- **January 2014 Release:** On January 23, 2014, the Navy reported to DOH a release of an estimated 27,000 gallons of JP-8 from one of the Facility's underground fuel storage tanks (Tank 5). The release occurred when placing the tank back in service following a 3-year tank inspection and refurbishment process completed in December 2013.
- **May 2021 Release:** On May 6, 2021, a Jet Propellant 5 pipeline near Red Hill Tanks 18 and 20 was damaged during a fuel transfer procedure, fuel was released to the tunnel floor, and attempts were made to recover the fuel. It was later determined that fuel that was not recovered was pumped from a fire suppression retention system into a fire suppression recovery drain line. The fuel remained contained in the drain line until it was damaged on November 20, 2021.
- **November 2021 Release:** On November 20, 2021, fuel was released from the fire suppression recovery drain line, traveled on the concrete tunnel floor toward Adit 3, and collected in a groundwater sump near Adit 3 (Adit 3 Sump). A portion of the fuel was recovered from the sump; the remainder of the fuel entered the soil (or volcanic bedrock) near United States Department of the Navy Well 2254-01 (Red Hill Shaft), from which some of the fuel entered the Joint Base Pearl Harbor-Hickam (JBPHH) Water Distribution System. Red Hill Shaft ceased pumping and was isolated from the JBPHH Water Distribution System on November 28, 2021. Initial site characterization of the release areas has been completed; additional characterization, monitoring, and remediation efforts continue.

Site characterization, removal, and remedial efforts conducted during this reporting period include:

- Continued soil vapor monitoring in the tank farm and Adit 3 and Pearl Harbor Tunnels
- Continued monitoring well free product gauging, groundwater monitoring well headspace, and purge water natural chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network
- Continued operation of the granular activated carbon (GAC) pump and treat system at Red Hill Shaft

- Adit 3 and Pearl Harbor Tunnel site characterization activities
- Installation of additional delineation wells in the vicinity of Red Hill Shaft
- Collection, Holding, and Transfer (CHT) Tank site characterization planning activities
- Remediation pilot test planning activities

Results from this reporting period indicated the following:

- Soil vapor impacts associated with the January 2014, May 2021, and November 2021 Releases are decreasing over time, consistent with natural attenuation of light nonaqueous-phase liquid (LNAPL) in the environment.
- Groundwater concentrations for all contaminants appear to be declining or stable over time. Several indicators suggest that groundwater impacts are undergoing natural attenuation, including biodegradation.

In addition to the site characterization activities described in this report, the Navy has conducted fuel recovery efforts since December 2021. These efforts include the use of absorbent materials, skimmers, direct recovery from piping, and soil excavation.

Planned Future Actions

Planned future actions include:

- Continued soil vapor monitoring at sampling locations within the tank farm and Adit 3 and Pearl Harbor Tunnels near Red Hill Shaft
- Groundwater sampling from the Red Hill monitoring well network, including monitoring wells at the Oily Waste Disposal Facility
- Installation of new delineation and sentinel wells
- Continued operation of the GAC pump and treat system at Red Hill Shaft
- Continued site characterization activities (Adit 3 and Pearl Harbor Tunnels and the Adit 3 CHT Tank)
- Conducting a remediation pilot test in Adit 3
- Additional removal or remedial actions, as appropriate

The Navy is continuing to expand the groundwater monitoring well network as part of plume delineation efforts and to monitor groundwater quality between Red Hill and offsite water supply wells at new sentinel well locations.

Current and future conditions of the JBPHH Water Distribution System and related activities are regulated by the DOH Safe Drinking Water Branch. Therefore, activities and sampling of the drinking water system are not addressed in this Quarterly RRR.

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Acronyms and Abbreviations

%	percent
%D	percent difference
%R	percent recovery
°C	degree Celsius
µg/L	micrograms per liter
µg/m^3	micrograms per cubic meter
1MN	1-methylnaphthalene
2MN	2-methylnaphthalene
AOC	Administrative Order on Consent
AS	air sparging
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
BWS	Board of Water Supply, City and County of Honolulu
$CaCO_3$	calcium carbonate
CAS	Chemical Abstracts Service
CCV	continuing calibration verification
CF&T	contaminant fate and transport
CHT	collection, holding, and transfer
COPC	chemical of potential concern
CSM	conceptual site model
DLA	Defense Logistics Agency
DoD	Department of Defense
DOH	Department of Health, State of Hawai‘i
DQI	data quality indicator
EAL	Environmental Action Level
EB	equipment blank
EDMS	Environmental Data Management System
Energy	Energy Laboratories, Inc.
EPA	Environmental Protection Agency, United States
Facility	Red Hill Bulk Fuel Storage Facility
FB	field blank
FID	flame ionization detector
ft	foot/feet
GAC	granular activated carbon
GPR	ground-penetrating radar
GW	groundwater
GWPP	Groundwater Protection Plan
H_2SO_4	sulfuric acid
H_3PO_4	phosphoric acid
HCl	hydrochloric acid
HDPE	high-density polyethylene

HEER	Hazard Evaluation and Emergency Response
HNO_3	nitric acid
ICV	initial calibration verification
ID	identification
JBPHH	Joint Base Pearl Harbor-Hickam
JP	Jet Fuel Propellant
L	liter
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LNAPL	light nonaqueous-phase liquid
LOD	limit of detection
LOQ	limit of quantitation
MEK	methyl ethyl ketone
mg/kg	milligrams per kilogram
mL	milliliter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
N	naphthalene
N/A	not applicable
$NaHSO_4$	sodium hydrogen sulfate
NAVFAC	Naval Facilities Engineering Systems Command
Navy	Department of the Navy, United States
ND	not detected
no.	number
NOI	notice of interest
NSZD	natural source-zone depletion
oz.	ounce
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
ppbv	parts per billion by volume
ppmv	parts per million by volume
PVC	polyvinyl chloride
QC	quality control
RI	remedial investigation
ROV	remotely operated vehicle
RPD	relative percent difference
RRF	relative response factor
RRR	release response report
SGC	silica gel cleanup
SIM	selected ion monitoring
SOP	standard operating procedure

SVE	soil vapor extraction
SVMP	soil vapor monitoring point
SVOC	semivolatile organic compound
TGM	Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan
THM	trihalomethane
TMB	trimethylbenzene
TOC	total organic carbon
TPH	total petroleum hydrocarbons
TPH-d	total petroleum hydrocarbons – diesel range organics
TPH-g	total petroleum hydrocarbons – gasoline range organics
TPH-o	total petroleum hydrocarbons – residual range organics (i.e., TPH-oil)
U.S.	United States
UST	underground storage tank
VOA	volatile organic analysis
VOC	volatile organic compound
WP	work plan

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1.0 Introduction and Purpose

On January 23, 2014, the Navy reported to the State of Hawai‘i Department of Health (DOH) a release of an estimated 27,000 gallons of Jet Fuel Propellant (JP)-8 from one of the Red Hill Bulk Fuel Storage Facility's ("Facility") underground fuel storage tanks (Tank 5) (the "January 2014 Release"). The release occurred when placing the tank back in service following a 3-year inspection and refurbishment process completed in December 2013.

On May 6, 2021, a JP-5 pipeline near Red Hill Tanks 18 and 20 was damaged during a fuel transfer procedure. Fuel was released to the lower access tunnel floor, and fuel was recovered shortly after the event (the "May 2021 Release"). It was later determined that fuel that was not recovered was pumped from the fire suppression retention system into the fire suppression recovery drain line. The fuel remained contained in the fire suppression recovery drain line until it was damaged on November 20, 2021.

On November 20, 2021, fuel in the fire suppression recovery drain line was released into the tunnel and traveled on the concrete tunnel floor toward Adit 3 and collected in a groundwater sump near Adit 3 (Adit 3 Sump) (the "November 2021 Release"). A portion of the fuel was recovered from the sump; the remainder of the fuel entered the soil (or volcanic bedrock) near United States (U.S.) Department of the Navy (Navy) Well 2254-01 (Red Hill Shaft), from which some of the fuel entered the Joint Base Pearl Harbor-Hickam (JBPHH) Water Distribution System or was pumped from the sump to a Holding Tank and Leach Tank outside Adit 3 where it was released to the subsurface. Red Hill Shaft ceased pumping on November 28, 2021 and was isolated from the JBPHH Water Distribution System. Response activities have been conducted at the site since the May 2021 Release and remain ongoing.

This Quarterly Release Response Report (RRR) presents a summary of the combined release response activities performed from November 5, 2022 to February 3, 2023 in response to the January 2014, May 2021, and November 2021 Releases at the Facility, located at JBPHH, O‘ahu, Hawai‘i. Specifically, as required by Hawai‘i Administrative Rules Section 11-280.1-65.2, this Quarterly RRR describes:

- All response actions (investigation, removal, and remediation activities) taken during the quarterly reporting period
- A plan for future release response actions to be taken

This report summarizes the following activities conducted during the reporting period:

- Continued soil vapor monitoring in the tank farm and Adit 3 and Pearl Harbor Tunnels
- Continued monitoring-well free product gauging, groundwater monitoring well headspace, and purge water natural chemistry parameters
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network

- Continued operation of the granular activated carbon (GAC) pump and treat system at Red Hill Shaft
- Adit 3 and Pearl Harbor Tunnel site characterization activities
- Installation of new delineation wells in the vicinity of Red Hill Shaft
- Collection, Holding, and Transfer Tank (CHT) site characterization investigation planning activities
- Remediation and treatability study pilot test planning activities

This report presents field observations and final analytical results available through the reporting period ending February 3, 2023, including:

- Results from soil vapor field measurements using photoionization detectors (PIDs)
- Results from a fixed-based laboratory for soil vapor Summa canister samples
- Results from monitoring well free product gauging and headspace measurements
- Laboratory results for groundwater samples

Field activities for investigations conducted at the Adit 3 and Pearl Harbor Tunnel area and at the Holding Tank and Leach Tank area are described in this report; however, results for soil and groundwater analytical data for these investigations will be provided in respective forthcoming investigation reports for those areas.

In addition to the activities described in this report, the Navy has conducted fuel recovery efforts since December 2021 and is continuing operation of the GAC pump and treat system at Red Hill Shaft, which began in January 2022. Fuel recovery efforts include the use of absorbent materials, skimmers, direct recovery from piping, and soil excavation. In addition, pumping of Red Hill Shaft continues to remove contaminants by creating a contaminant capture zone in the vicinity of the Red Hill Shaft, as described in the *Red Hill Shaft Recovery and Monitoring Plan* (IDWST 2022).

Current and future conditions of the JBPHH Water Distribution System and related activities are regulated by the DOH Safe Drinking Water Branch. Therefore, activities and sampling of the drinking water system are not addressed in this Quarterly RRR.

1.1 Statement of Purpose

Release response activities were performed to address the January 2014, May 2021, and November 2021 Releases. The DOH issued Notice of Interest (NOI) letters for the three events:

- January 2014 Release
  - Red Hill Tank Complex (Tank #5): Facility ID No. 9-102271 / DOH Release ID No. 140010, February 3, 2014
- May 2021 Release

  - DOH Hazard Evaluation and Emergency Response Release Incident Case Number (No.) 20210507-0852 on May 10, 2021 (DOH 2021a)
  - DOH Underground Storage Tank (UST) Release Identification No. 210012 (DOH 2021b)
- November 2021 Release
  - DOH Hazard Evaluation and Emergency Response Release Incident Case No. 20211120-2330 on November 24, 2021 (DOH 2021d)

1.2 Previous Reports

The following documents were previously submitted to DOH:

- Release confirmation information for Tank 5; January 23, 2014
- Tank 5 Initial Release Response Report; April 24, 2014
- Tank 5 Quarterly Release Response Reports; July 22, 2014 – October 3, 2022
- Response to Notice of Interest in a Release or Threatened Release of Hazardous Substance; May 21, 2021
- Confirmed Release Notification Form, Pipeline Breach in Tunnel; June 21, 2021
- Initial Abatement Measures and Site Assessment Report; July 12, 2021
- Initial Site Characterization Report, Pipeline Breach in Tunnel; August 19, 2021
- Initial Release Response Report, Pipeline Breach in Tunnel; September 17, 2021
- Red Hill Bulk Fuel Storage Facility Request for Information – Addendum; October 1, 2021
- Confirmed Release Notification for Fire Suppression Drain Line; December 3, 2021
- Response to Notice of Interest in a Release or Threatened Release of Hazardous Substance; December 3, 2021 and January 7, 2022
- Initial Abatement Measures and Site Assessment Report; December 11, 2021
- Quarterly Release Response Report, Pipeline Breach in Tunnel; December 30, 2021
- Initial Site Characterization Report, Fire Suppression Drain Line; January 7, 2022
- Free Product Removal Report; January 7, 2022
- Preliminary Site Characterization Plan; January 12, 2022
- Technical Memorandum, Analysis of Samples from Sump (11/24/2021), Adit 3 (11/24/2021), and Red Hill Shaft Water Gallery (12/2/2021); January 13, 2022
- Technical Memorandum, Holding Tank and Leach Tank Site Characterization; January 29, 2022, revised February 23, 2022
- Initial Release Response Report, Fire Suppression Drain Line; February 24, 2022

- Red Hill Bulk Fuel Storage Facility Lower Access Tunnel Pilot Geophysical Investigation – Hawaii; April 2022
- Quarterly Release Response Report, May 6 and November 20, 2021 Releases; April 6, 2022
- Quarterly Release Response Report, May 6 and November 20, 2021 Releases; July 7, 2022
- Precipitation Monitoring Memorandum for Sub-Slab Soil Vapor Monitoring Points, Adit 3; July 2022
- Site Characterization Plan Adit 3 LNAPL Step-Out Addendum November 2021 Release; July 2022
- Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel; August 5, 2022
- Quarterly Release Response Report, May 6 and November 20, 2021 Releases; October 3, 2022
- Site Characterization Plan Addendum – Collection, Hold, and Transfer Tank Overflow Site Characterization, November 2021 Release; November 2022
- Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility; December 21, 2022
- Technical Memorandum, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release; November 2022
- Draft Closure Report, Concrete Tank Removal; January 2023
- Draft Shallow Soil Vapor Extraction and Air Sparging Work Plan; January 9, 2023
- Draft Natural Source-Zone Depletion Work Plan; February 23, 2023
- Technical Memorandum: In-Progress Data Report, Adit 3 Site Characterization; February 23, 2023
- Draft Deep Soil Vapor Extraction Work Plan; February 27, 2023
- Recommendations for the Notice of Interest Groundwater Sampling and Analysis Program at the Red Hill Bulk Fuel Storage Facility; March 1, 2023

2.0 Background

January 2014 Release. During Tank 5 refilling operations in January 2014 following a routine 3-year tank inspection and refurbishment process, a release of approximately 27,000 gallons of JP-8 fuel was confirmed and reported to DOH on January 23, 2014 (Figure 1). During that month, a fuel hydrocarbon seep was observed on a tunnel wall below Tank 5, and soil vapor monitoring points (SVMPs) installed beneath Tank 5 exhibited a sharp increase in hydrocarbon vapor concentrations. Subsequent analyses indicated that the causes of the release were defective workmanship in welding by the tank refurbishment contractor, poor inspection, and ineffective

quality control (QC). The release resulted in the United States (U.S.) Environmental Protection Agency (EPA), DOH, the Navy, and Defense Logistics Agency (DLA) agreeing to the Red Hill Administrative Order on Consent (AOC) in September 2015 (EPA Region 9 and DOH 2015).

May 2021 Release. On May 6, 2021, Navy personnel responded to a reported release of fuel from a distribution pipeline inside the Facility in the vicinity of Tanks 17, 18, 19, and 20 (Figure 1). The Navy notified DOH of the release within 24 hours. The fuel containment system at Red Hill was used to monitor, detect, and collect the fuel from the pipeline breach.

The Navy provided preliminary findings of the ongoing investigation to DOH on October 1, 2021, indicating that JP-5 fuel was released during a fuel transfer and properly collected by the fuel containment system; there were no leaks from any fuel tanks. The Navy captured JP-5 fuel from the tunnel drain system, which was followed by a complete wash down of the area with fresh water on May 7, 2021 (DON 2021c). Some soil vapor monitoring vaults on the tunnel floor near the May 2021 Release were impacted by fuel, and the below-tank SVMPs exhibited elevated PID readings.

November 2021 Release. On November 20, 2021, a release of JP-5 fuel occurred in the Adit 3 Tunnel of the Facility (Figure 1). JP-5 fuel was released from an overhead 14-inch polyvinyl chloride (PVC) fire suppression recovery drain line at a location approximately 400 feet (ft) east of the water supply pumping station Navy Well 2254-01 (Red Hill Shaft) and approximately 200 ft east of the junction with the Pearl Harbor Tunnel. The location of the release point was in close proximity to the supply well's underlying water development tunnel that extends greater than 1,200 ft east-southeast of the pumping station at an elevation of approximately 0–20 ft above mean sea level (msl).

Released fuel flowed along the Adit 3 Tunnel floor westward past the junction with the Pearl Harbor Tunnel and Navy Well 2254-01. Fuel accumulated in a groundwater sump (Adit 3 Sump), approximately 750 ft west of the November 2021 Release point (Figure 2). JP-5 fuel was recovered from the Adit 3 Sump, connected piping, the fire suppression recovery drain line, and the Holding Tank/Leach Tank area including subsurface soil.

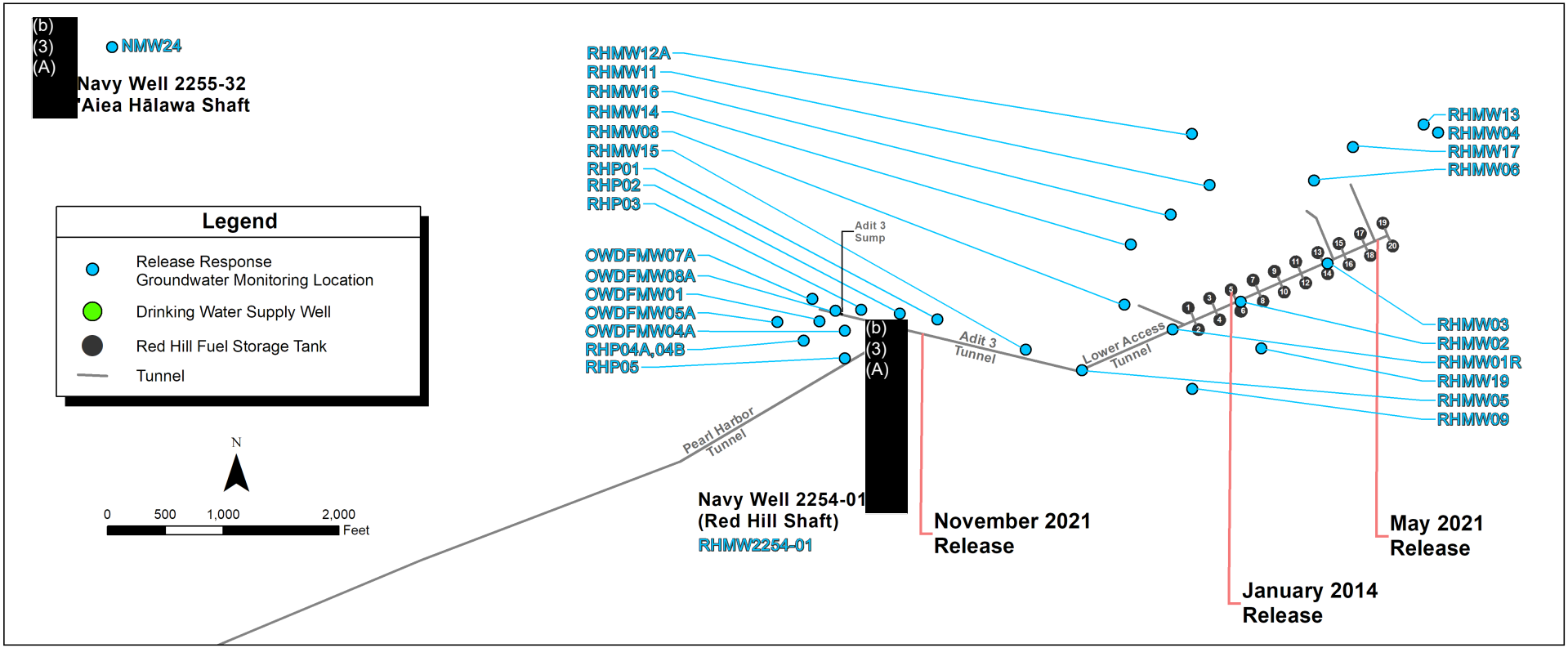

Figure 1: Locations of Releases and Groundwater Monitoring Wells

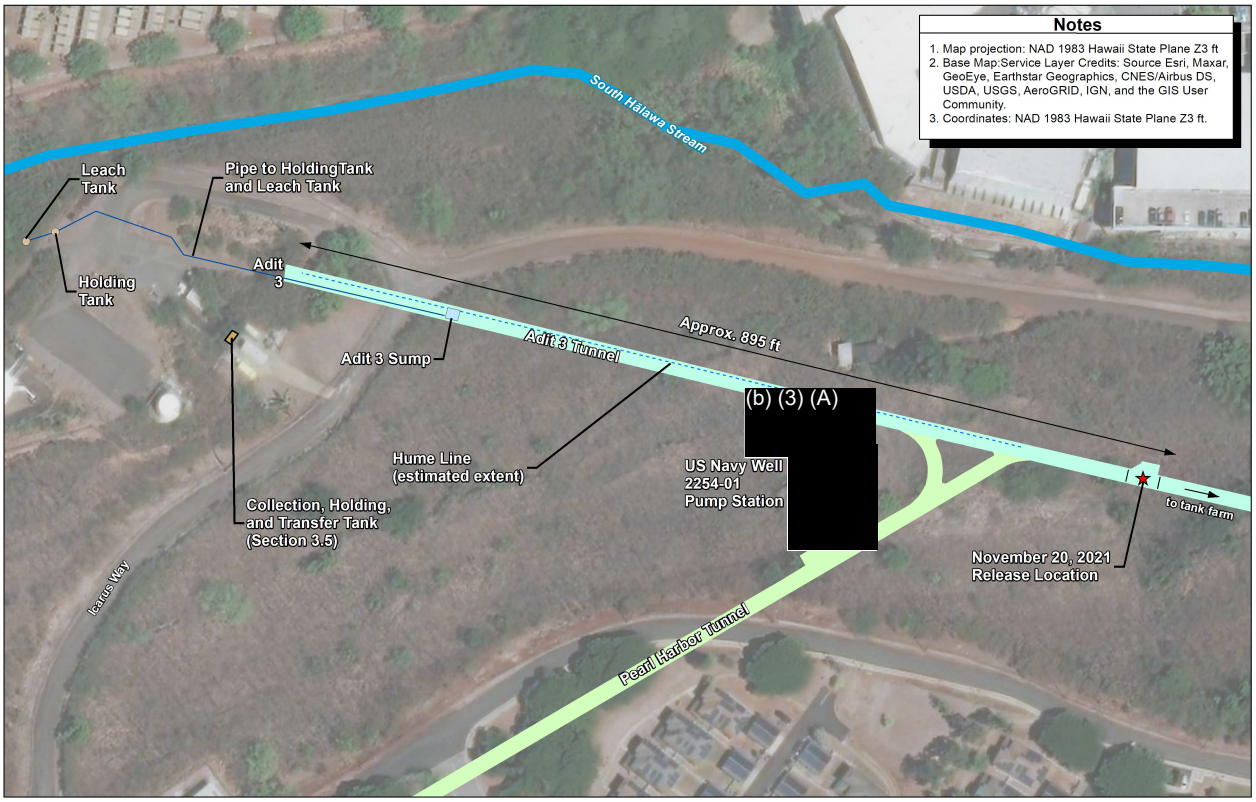

Figure 2: Adit 3 and Pearl Harbor Tunnel Layout Map

The November 2021 Release released fuel to the environment from the Adit 3 Sump, the Hume line located immediately below the tunnel floor, and the Adit 3 Sump drain leading to the Holding Tank and Leach Tank area. Fuel was observed in the water development tunnel of water supply Navy Well 2254-01 (Red Hill Shaft). Upon confirmation that a fuel-like odor was present in drinking water in homes served by Red Hill Shaft, Navy Well 2254-01 was shut off and isolated from the drinking water distribution system on November 28, 2021.

2.1 Site Description

The 144-acre underground fuel storage Facility is located in south-central O‘ahu approximately 2–3 miles east of Pearl Harbor, within the Red Hill ridge that divides South Hālawa Valley from Moanalua Valley on the southwest flank of O‘ahu’s Ko‘olau mountain range (Figure 3). The Facility’s twenty fuel storage tanks store and supply fuel for military operations in Hawai‘i and throughout the Pacific. The tank bottoms are situated approximately 100–130 ft above an underlying basal aquifer that is a major municipal and military drinking water source.

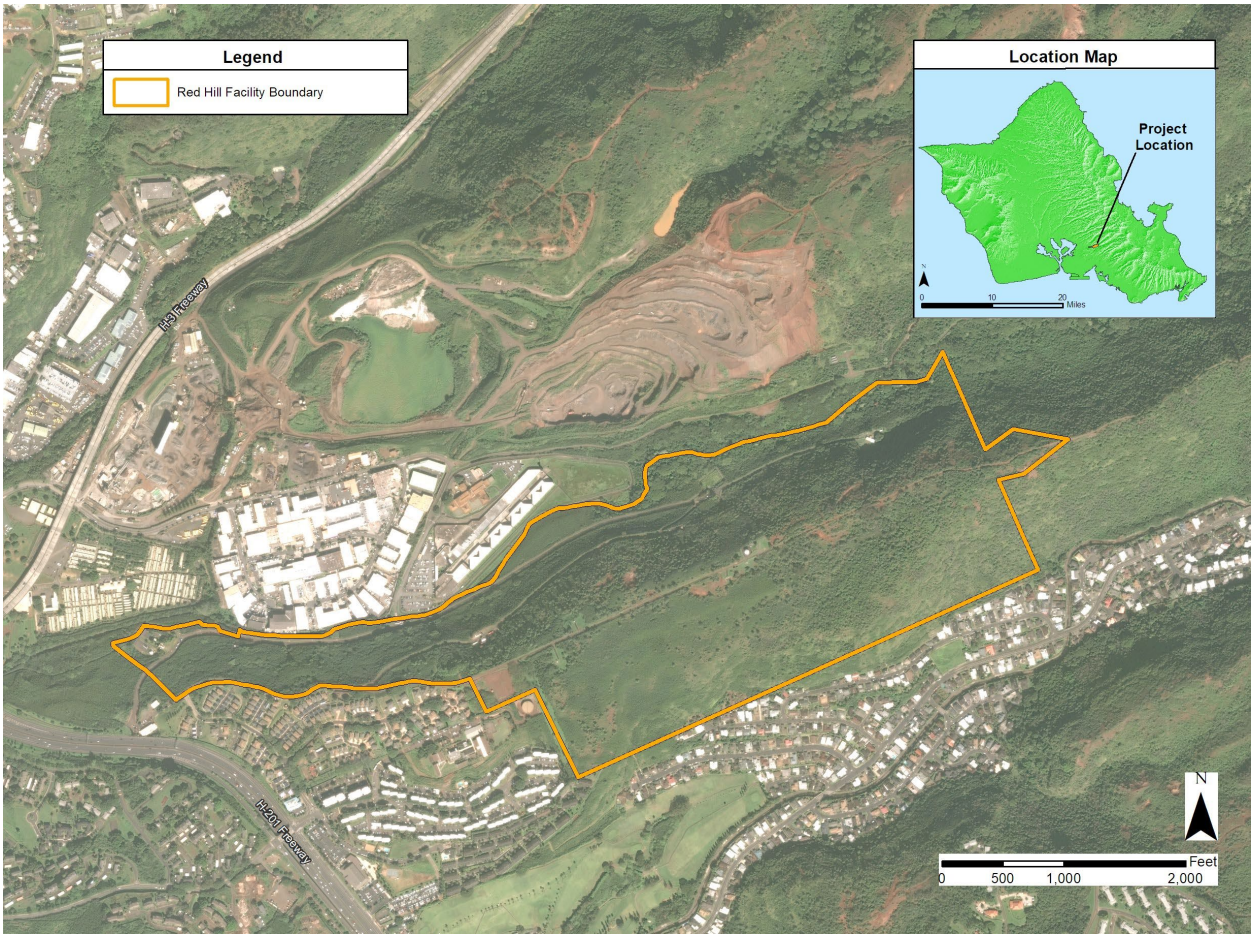

Figure 3: Site Location Map

2.1.1 Climate

Climatological conditions in the vicinity of the Facility consist of warm to moderate temperatures and low to moderate rainfall. The average annual precipitation is approximately 40 inches, which occurs mainly between November and April (Giambelluca, Nullet, and Schroeder 1986). Average temperatures range from the low 60s to high 80s (degrees Fahrenheit) (Juvik and Juvik 1998).

2.1.2 Soils and Geology

The Facility is located within the Koʻolau Volcanic series. The Koʻolau formation at Red Hill consists of basaltic lava flows that erupted from a fissure line approaching 30 miles in length and trending in a northwest rift zone (Wentworth and Macdonald 1953). Pāhoehoe and aʻā lava flows are present in the Koʻolau formation. The valleys on either side of the Red Hill ridge were formed as a result of fluvial erosion and are filled with sedimentary deposits (alluvium and colluvium), also known as valley fill, underlain by weathered basalt, also known as saprolite. Saprolite zones in Hawaiʻi are typically around 75 ft thick but can be 300 ft thick or greater beneath the valley floors or in areas of high precipitation (Hunt Jr. 1996; Macdonald, Abbott, and Peterson 1983) The results of a recently conducted seismic survey in North and South Hālawa Valleys, Red Hill, and

Moanalua Valley (DON 2018a) found that valley fill and saprolite extend much deeper in the valleys surrounding Red Hill, particularly in the center of the valleys and below the streambeds.

Soils in the vicinity of the Facility are mapped as Helemano-Wahiawā association consisting of well drained, moderately fine-textured and fine-textured soils (USDA SCS 1972). The surfaces of the basaltic flows have been weathered to form reddish-brown clayey silt, which is the basis for the local name "Red Hill." These soils typically range from nearly level to moderately sloping and occur in broad areas dissected by very steep gulches. They formed in material weathered from basalt to a depth of approximately 10 ft below ground surface (bgs). Along the slopes, the basaltic bedrock is covered with approximately 10–30 ft of Koʻolau residuum. These soils were derived from weathering of the underlying basalt bedrock or were deposited as alluvium/colluvium. The younger alluvium/colluvium deposits were derived from fractured basalts and tuff. Beneath the surficial soils, alternating layers of clay and basalts are encountered at depth. The northwestern slope of Red Hill is generally barren of soil and consists of outcropping basalt lava flows to the valley floor.

2.1.3 Surface Water

Surface water features in the general vicinity of the Facility include South Hālawa Stream (an ephemeral stream approximately 600–800 ft north of the tanks), North Hālawa Stream (approximately 4,000–4,500 ft northwest of the tanks), and Moanalua Stream (approximately 1,700–2,000 ft south of the tanks). Potential recharge (run-on and operational water use) from the Hālawa Quarry north of the Facility may also impact groundwater flow in this area. In Hālawa Valley, streamflow may contribute water to perched groundwater within alluvial material (valley fill) but is generally isolated from the underlying basal aquifer. Most precipitation percolates to the basal aquifer and does not maintain base flows in the streams (Izuka 1992). Groundwater that flows beneath the Facility does not intercept surface water inland of the ocean shoreline (DON 2007). Both South Hālawa Stream and Moanalua Stream (to the north and south of the Red Hill ridge, respectively) are located approximately 170 ft or more above the basal water table in the vicinity of the tanks. The bottoms of the Facility's fuel storage tanks are located at least 50 ft below the bottoms of these streams.

2.1.4 Groundwater

In the vicinity of Red Hill, the basal aquifer water table lies between 15 and 20 ft above msl; regionally, groundwater flows toward Pearl Harbor (mauka to makai) (Hunt Jr. 1996), although potential exists for variability in localized flow directions depending on geologic formations and other factors.

The Facility is located at the administrative boundary between the Waimalu Aquifer System of the Pearl Harbor Aquifer Sector and the Moanalua Aquifer System of the Honolulu Aquifer Sector. The underlying aquifer is classified as a basal, unconfined, flank-type aquifer and is currently used as a drinking water source.

The Facility is located upgradient of the Hawaii State Underground Injection Control Line, which separates potable groundwater from non-potable groundwater. The drinking water supply well closest to the tanks is Red Hill Shaft, located within the Facility's lower access tunnel, which is approximately 2,600 ft topographically downgradient of the nearest tank. Red Hill Shaft formerly provided potable water to the JBPHH Water Distribution System, which serves approximately 65,200 military customers; the potable water is now supplied by the Waiawa Shaft, located far to the west of the Facility. Naval Facilities engineering Systems Command (NAVFAC), Hawaii, Utilities Management Division operates the drinking water system. The nearest Honolulu Board of Water Supply (BWS) public drinking water supply well (BWS Hālawa Shaft Well 2354-01) is located hydraulically cross-gradient of the Facility approximately 4,400 ft northwest of the tanks, within the basal aquifer.

2.2 Historical Land Use

Prior to construction of the tank farm, the surface of Red Hill supported cane and pineapple agriculture. Navy archive images show that the Red Hill ground surface was exposed and modified during construction of the tank farm beginning in 1940. A 1952 aerial photograph shows unmaintained land on the Red Hill ridge and agriculture on the lower reaches of Red Hill north of the Moanalua Golf Course (DON 2019).

2.3 Current Land Use

The Facility is located on land zoned by the City and County of Honolulu as a mix of F-1 Federal and Military and P-1 Restricted Preservation districts. All major structures at the Facility are located underground. Populated areas closest to the Facility are ʻAiea to the west and Honolulu to the south and east. Honolulu is heavily urbanized and densely populated.

Preservation land is located east and northeast of the Facility boundary. To the southeast are residential single-family homes in Moanalua Valley; a high cliff face with a 100–200 ft elevation difference exists between the Facility and this residential area. Southwest of the tank farm area on the lower southwest flank of Red Hill are the public Red Hill Elementary School and residential apartments, and further west is U.S. Coast Guard Housing on F-1 Military land. North of the western segment of the Facility boundary in South Hālawa Valley is the State Animal Quarantine Station, private businesses in Hālawa Industrial Park, and the State-operated Hālawa Correctional Facility. To the north of the Correctional Facility at the lower reaches of an inter-valley ridge that forms the north wall of South Hālawa Valley is the open-pit Hālawa Quarry operated by the Hawaiian Cement Company.

As shown on Figure 3, the H-201 Moanalua Freeway transits approximately 350–700 ft beyond the Facility's southwest boundary and intersects with the H-1 and H-3 Freeways at the Hālawa Interchange, approximately 1,800 ft west of the Facility. The H-3 Freeway transits northeast from the interchange through North Hālawa Valley and on to Oʻahu's windward side.

2.4 Conceptual Site Model

2.4.1 Facility Construction and Operations

The Facility's 20 bulk fuel storage tanks were field-constructed of steel-lined concrete in the early 1940s. They were connected to a fuel pumping station at Pearl Harbor via a tunnel system. The Facility is operated by Naval Supply Systems Command Fleet Logistics Center Pearl Harbor (formerly Fleet and Industrial Supply Center). Each fuel tank has a total capacity of approximately 12.5 million gallons. The 14 bulk fuel storage tanks that currently contain fuel store either JP-5, North Atlantic Treaty Organization-grade F-24 jet fuel, or F-76 marine diesel fuel.

2.4.2 Subsurface Conditions

The Facility's bulk fuel storage tanks are surrounded by rock in the vadose (i.e., unsaturated) zone, which consists primarily of basalt flows in complex, alternating layers. These heterogeneous layers vary from extremely high to extremely low permeability, with a corresponding ability to transmit and hold light nonaqueous-phase liquid (LNAPL, also referred to as free product in this report), depending on the layer's rock type and micro-pore structure (i.e., high ability in high-permeability a‘ā and thin pāhoehoe flows and in a‘ā clinker zones; low ability in massive a‘ā and massive pāhoehoe flows). Geologic and water saturation characteristics in the rock surrounding the tanks could cause LNAPL to spread as it moves through the rock. As LNAPL moves through the larger pore spaces, some of it could be trapped in poorly connected fractures and blocked by nearby low-permeability regions or by surface tension and capillary forces of moisture, especially water held in the smaller pores. The potential presence of intact lava tubes might serve as preferential pathways and conduits for LNAPL migration.

Hawaiian volcanic rocks vary in porosity and permeability depending on the emplacement process, lava type, genesis, flow thickness, flow rate, extent, cooling rate, and weathering. Permeability is typically highest in the relatively thick, unweathered, rubbly a‘ā clinker zones and intensely fractured zones or lava tubes of pāhoehoe flows. Permeability is much lower in the interior portions of massive flows, weathered interflows, intrusive rocks (dikes and sills), ash beds, and weathered rocks (saprolite) and soil horizons, which can impede both vertical and horizontal flows across valleys. Generally, the bulk vertical permeability of the basalt is orders of magnitude lower than the bulk horizontal permeability. Horizontal permeability is generally higher in the direction that the lava flowed than in the transverse direction.

Groundwater flow and solute transport are controlled by both the hydraulic conditions (e.g., gradients) and the physical properties of the hydrogeologic units, including hydraulic conductivity, effective porosity, specific yield, specific storage, anisotropy, and dispersivity that vary significantly under highly heterogeneous conditions.

Fresh groundwater inflow originates as deep infiltration of precipitation and seepage from surface water features. According to the U.S. Geological Survey, estimates of recharge for O‘ahu for recent conditions (2010 land cover and 1978–2007 rainfall) differ from predevelopment recharge values by only a few percent (Izuka et al. 2018). Spatial distribution of recharge mimics the orographic

rainfall pattern; recharge is highest on windward slopes and mountain peaks below the top of the tradewind inversion.

Groundwater outflow includes withdrawals from wells and natural groundwater discharge to springs, streams, wetlands, and submarine seeps. Data collected by the U.S. Geological Survey for groundwater levels, saltwater/freshwater interface, spring flow, and stream base-flow indicate an overall reduction in aquifer storage for most areas where groundwater has been extracted; this has caused groundwater levels to decline (Izuka et al. 2018).

Regional groundwater levels decrease from areas of recharge (mauka) to areas of discharge (makai) (Hunt Jr. 1996). Locally, water level gradients are extremely low and are influenced by geologic conditions, as well as by variability in local pumping stresses from water development shafts and wells.

2.4.3 Exposure Model

Potentially contaminated media are tunnel air; unconsolidated materials, volcanic rock, and soil/rock vapor surrounding the tanks and tunnel; groundwater beneath the Facility, which has the potential to migrate off site; and offsite surface water where groundwater may discharge. Human receptors that may potentially contact onsite or offsite Facility-impacted media are Facility occupational workers, construction workers, visitors, and offsite residents. Among the potentially complete exposure pathways identified, the primary pathway of concern is exposure to impacted tap water via direct ingestion and dermal contact, and via inhalation while showering and bathing. Animals and vegetation may also be exposed to tap water as pets or from irrigation. Exposure by ecological receptors is considered incomplete or insignificant (DON 2019).

2.5 Previous Facility Investigations

Previous environmental investigations at the Facility, summarized in Table 1, are divided into two categories: those preceding the 2015 AOC, and those subsequent to its issuance.

Table 1: Summary of Previous Red Hill Environmental Investigations

Investigation Report	Summary
Pre-AOC Investigations	
Remedial Investigation Phase I and II, Red Hill Oily Waste Disposal Facility (DON 1996; 2000)	A two-phase RI was initiated in the early 1990s at the Red Hill Oily Waste Disposal Facility. No contaminants were detected in the basal aquifer beneath the site, and DOH issued a concurrence letter for a No Further Action determination in 2005 (DOH 2005).
Facility Site Characterization and Investigation (DON 1999, 2002)	A two-phase investigation initiated in 1998 evaluated the presence of petroleum constituents at the Facility. DOH requested the Navy to conduct quarterly groundwater monitoring, conduct a Tier 3 risk assessment, and develop a contingency plan.
Quarterly Groundwater Monitoring Reports (DON 2005 to present)	Sampling and analysis of Red Hill network groundwater monitoring wells were initiated in 2005 and incorporated into the Red Hill GWPP (DON 2008b; 2014b); results are reported to DOH.

Investigation Report	Summary
Technical Report (DON 2007)	An environmental investigation and risk assessment initiated in 2004 included installation of SVMPs in angle borings under the active fuel storage tanks, three additional groundwater monitoring wells in the lower access tunnel, a three-dimensional groundwater model, and a Tier 3 human health risk assessment.
Tank 17 Removal Action Report (DON 2008c)	A limited removal action and site characterization investigation was conducted in June 2008; the report's Environmental Hazard Analysis determined that the release posed no further significant environmental hazards.
Type 1 Letter Report (DON 2010)	A 2010 investigation re-evaluated the DON (2007) groundwater model assumptions and results, as well as the Tier 3 risk assessment results.
Monthly Soil Vapor Monitoring Reports (DON 2008a)	Soil vapor PID measurements are collected monthly under the Facility's fuel storage tanks with SVMPs in accordance with the Red Hill GWPP (DON 2008a; 2014b); results are reported to DOH.
AOC-Related Investigations (EPA Region 9 and DOH 2015)	
Tank 5 Initial and Quarterly Release Response Reports (DON 2014a to December 2022)	Documented the results of release response efforts for the Tank 5 January 2014 Release.
Seismic Profiling to Map Hydrostratigraphy in the Red Hill Area (DON 2018a)	Presented results and evaluation of nine seismic profiling transects conducted at Red Hill and in North and South Hālawa Valleys and Moanalua Valley to improve understanding of subsurface conditions that affect groundwater flow and CF&T.
Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility (DON 2018c)	Presented an interim environmental analysis of data and an initial analysis of potential environmental risks; interim results of the groundwater flow model; and an evaluation of hypothetical release scenarios.
Conceptual Site Model (DON 2018b; 2019)	Established a basis for evaluating contaminant transport pathways and potential for exposure of human receptors to potentially impacted drinking water.
Groundwater Flow Model Report (DON 2020a)	Refined the previous groundwater flow model to improve understanding of the direction and rate of groundwater flow within the aquifers around the Facility.
Investigation and Remediation of Releases Report (DON 2020b)	Documented the response to the January 2014 Tank 5 release and evaluated potential remedial alternatives for that release and any potential future release.
Evaluation of Chromatograms for Understanding TPH Detections in Monitoring Wells (DON 2020c)	Provided an evaluation of TPH detections in monitoring wells to determine whether those detections are indicative of potential fuel impacts from the Facility.

Investigation Report	Summary
Initial and Quarterly Release Response Reports, Pipeline Breach in Tunnel and Fire Suppression Drain Line (DON 2021a; 2021b; 2021d; 2022c; 2022d; 2022g; 2022i)	Documented the results of release response efforts for the May 6, 2021 Tunnel Pipeline Breach and the November 20, 2021 Fire Suppression Recovery Drain Line releases.
Phase 1 and *Phase 2 Technical Memoranda, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2022b; 2022k)	Presented preliminary results of a two-phase site characterization effort at the Holding Tank and Leach Tank area outside Adit 3.
Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility (DON 2022l)	Documented the combined results of release response efforts for the January 2014, May 2021, and November 2021 releases.
Technical Memorandum: In-Progress Data Report, Adit 3 Site Characterization (DON 2023e)	Presented interim results of the Adit 3 site characterization effort summarized in Section 3.3.

CF&T contaminant fate and transport
GWPP Groundwater Protection Plan
RI remedial investigation
SVMP soil vapor monitoring point
TPH total petroleum hydrocarbons

3.0 Summary of Investigation History

Investigation activities associated with the January 2014 Release began in 2014 and have continued under the AOC since it was signed in 2015.

Investigation activities in response to the May 2021 Release began on May 10, 2021 and included soil vapor, groundwater, and drinking water monitoring and free product gauging and headspace measurements. Following the November 2021 Release, site characterization and investigation efforts were expanded to include investigations of the Adit 3 and Pearl Harbor Tunnels, the Holding Tank and Leach Tank area and the CHT Tank area outside Adit 3, video inspection of the Red Hill Shaft water development tunnel, single-event groundwater sampling at two non-network monitoring wells on the Moanalua Valley side of Red Hill, and pilot and bench-scale tests currently being planned to evaluate potential technologies for remediating the November 2021 Release.

Results from previous investigations of the May 2021 and November 2021 Releases are provided in the published reports to DOH listed in Section 1.2. Groundwater and soil vapor monitoring requirements for the two releases are combined in a single plan (Appendix B.6) to assess and evaluate groundwater impacts and soil vapor concentrations in the subsurface from both releases and their potential migration pathways.

3.1 AOC Release Response Activities

Continuing release response activities for the January 2014 Release at Tank 5 under the Red Hill AOC include soil vapor and groundwater sampling analysis, evaluation, and reporting; installation of additional groundwater monitoring wells; geologic mapping; forensics analyses; and groundwater modeling.

3.2 NOI Soil Vapor Sampling, Free Product Gauging, and Water Sampling

Investigation activities in response to the May 2021 Release began on May 10, 2021 with a site assessment that included soil vapor PID field measurements and laboratory sample collection and analysis, free product gauging and headspace measurements in groundwater monitoring wells, and groundwater and drinking water sampling and analysis.

Soil vapor monitoring currently includes weekly collection of soil vapor PID readings from probes at Tank 2 through 18 and Tank 20 (Figure 4). Summa canister samples for laboratory analyses are collected at least monthly at probes SV15S, SV15D, SV17S, SV17D, SV18S, SV18D, SV20S, and SV20M.

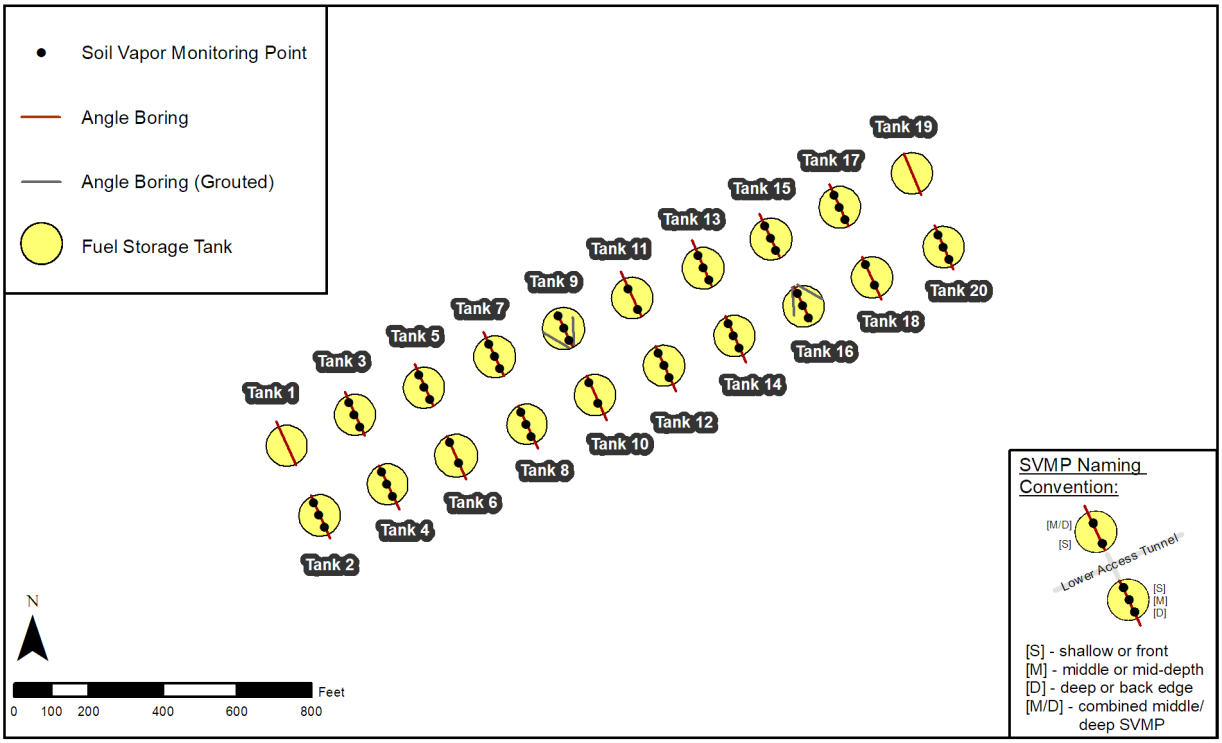

Figure 4: Soil Vapor Monitoring Network Underneath the Red Hill Fuel Storage Tanks

Free product gauging and headspace measurements were collected as part of the NOI sampling activities and also from the entire Red Hill monitoring network as part of the Red Hill groundwater long-term monitoring program. Free product has never been detected in any monitoring well outside of Red Hill Shaft.

Groundwater samples were initially collected from RHMW01R, RHMW02, and RHMW03 beginning in May 2021 (Figure 1). The collection of drinking water samples at the pre-chlorination spigot in conjunction with groundwater sampling began in June 2021. The groundwater sampling locations were increased to include RHMW05 and RHMW2254-01 in September 2021 following the detection of TPH-diesel range organics (TPH-d) and TPH-residual range organics (i.e., TPH-oil) (TPH-o) in the Red Hill Shaft pre-chlorination samples, including detections of TPH-o above the DOH Environmental Action Level (EAL) that occurred in August and September 2021.

Groundwater sampling locations were again expanded in December 2021 and January 2022 to include weekly sampling at RHMW04, RHMW06, RHMW08, RHMW09, RHMW12A, RHMW16, RHMW19, OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, OWDFMW08A, and multilevel wells RHMW11-05 (Zone 5), RHMW13-05 (Zone 5), RHMW14-03 (Zone 3), and RHMW15-05 (Zone 5), along with including sump water sampling from the Adit 3 Sump. Monitoring well RHMW17 was installed and added to the NOI groundwater sampling program in June 2022.

Delineation wells have been installed at locations shown on Figure 1 and Figure 5 to evaluate groundwater conditions in the vicinity of Red Hill Shaft. They are installed to provide water chemistry and water level data from the basal aquifer and allow for detection of any fuel product on the water table surface. Data collected during drilling are also evaluated to detect potential impacts to the vadose zone. With the exception of RHP04B (a deep well to monitor the saltwater–freshwater interface), the completed delineation wells are installed to depths of 141–160 ft bgs as 2-inch-diameter wells screened across the basal aquifer water table (approximately 10 ft of screen above and 20 ft of screen below). As of this reporting period, six delineation wells are complete (RHP01, RHP02, RHP03, RHP04A, RHP04B, and RHP05); deep well RHP04C is nearing completion; and coring and drilling have commenced at RHP06, RHP08, and in-tunnel well RHP07. Additional details (e.g., boring logs, well construction details) on the delineation well installation and water quality data are uploaded to the JBPHH Red Hill Environmental Data Management System (EDMS) and are reported in the Quarterly RRRs as they are acquired.

Installation of sentinel wells as part of the expansion of the Red Hill Monitoring Network commenced with the completion of well NMW24, located approximately 430 ft southeast of water supply well Navy ʻAiea Hālawa Shaft and 1.2 miles northwest of the western portion of the Facility (see Figure 1).

Drinking water sampling was initially conducted as part of the release response effort but was terminated in December 2021 when Red Hill Shaft was disconnected from the JBPHH water distribution system. Ongoing drinking water sampling and analyses are conducted under another program and are therefore not described in this Quarterly RRR.

Recommended modifications to the current NOI groundwater sampling and analysis program were presented to the Regulatory Agencies for consideration in a *Recommendations for the Notice of Interest Groundwater Sampling and Analysis Program at the Red Hill Bulk Fuel Storage Facility* memorandum on March 1, 2023 (DON 2023f).

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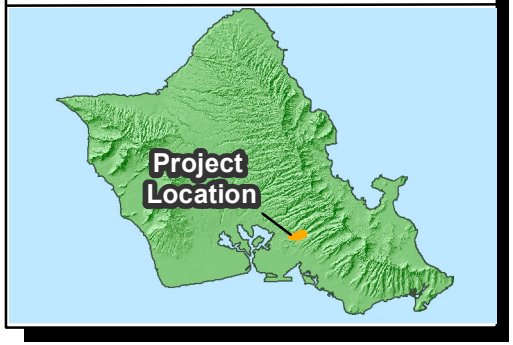
Location Map



Legend

- Completed Delineation Well
- In-Progress Delineation Well
- Red Hill Facility Boundary
- Stream

Notes

1. Map projection: NAD 1983 Hawaii State Plane Z3 ft
2. Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/ Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
3. Some locations are subject to field verification.

N

0 150 300 600 Feet

Figure 5
Delineation Wells
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O‘ahu, Hawai‘i

3.3 Site Characterization at Adit 3

Investigation and sampling activities in response to the November 2021 Release began on November 29, 2021. A *Preliminary Site Characterization Plan* (DON 2022a) described an in-tunnel characterization effort focused on developing remedial alternatives to mitigate impacts of the release. The plan identified the first actions to be taken to characterize the November 2021 Release to soil, rock, and soil vapor and included:

- In-Tunnel Characterization
  - Geophysical characterization of shallow and deep subsurface features (Section 3.3.1)
  - Near-surface intrusive trench soil and soil vapor sampling and installation of shallow, intermediate, and deep subsurface SVMPs (Section 3.3.2)
- External Characterization
  - Holding Tank and Leach Tank subsurface characterization (Section 3.4)

Initial shallow soil borings identified a perched water layer and JP-5 LNAPL in a shallow boring adjacent to the U.S. Navy Well 2254-01 Pump Station.

3.3.1 Geophysical Characterization

A geophysical characterization of subsurface features using two survey lines of electrical resistivity, induced polarization, and ground-penetrating radar (GPR) was conducted between January 28 and February 2, 2022 in sections of the Adit 3 and Pearl Harbor Tunnels to facilitate understanding of LNAPL downward migration and potentially identify pooled LNAPL in the vadose zone. A GPR survey consisting of 16 survey lines was also conducted in the Lower Access Tunnel in the vicinity of Tanks 17 through 20 (HGI 2022). The draft technical memorandum describing the results of this work was provided to the Regulatory Agencies in early April 2022, and the Navy provided a briefing to the Regulatory Agencies on April 19, 2022. The briefing summarized the geophysical survey results and the limitations associated with the tunnel design and infrastructure. Based on discussions with the Regulatory Agencies and comments received following this presentation, a second GPR survey was conducted focusing on the shallow subsurface within the Adit 3 tunnel (described below).

On November 9 and 10, 2022, an additional GPR survey of the Adit 3 tunnel shallow subsurface was conducted using shielded high-frequency signal (250, 500, and 1,000 MHz) to focus on the features located between the tunnel floor and 10 ft below the tunnel floor.

3.3.2 In-Tunnel Soil, Soil Vapor, and Perched Water Sampling

Sampling activities conducted in the Adit 3 and Pearl Harbor Tunnels as part of the preliminary site characterization effort include concrete cutouts in the tunnel floor and soil, soil vapor, and perched water sample collection and analysis.

Soil Sampling. Six shallow trenches were excavated through the Adit 3 and Pearl Harbor Tunnel floors during March–April 2022 to evaluate hotspots identified by subslab SVMP monitoring and to uncover the concrete Hume drain line. Both discrete and multi-increment soil samples were collected at the locations shown on Figure 6 and analyzed for TPH-gasoline range organics (TPH-g), TPH-d, and TPH-o; benzene, toluene, ethylbenzene, and xylenes (BTEX); and naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene (N, 1MN, and 2MN, respectively).

The Hume drain was encountered in the sixth trench excavated, and a riser pipe and cap were installed in the line for data gathering or potential future remedial actions. PID samples of organic vapor collected from the pipe indicated it had been impacted with hydrocarbons, likely from the November 2021 Release.

Soil Vapor Sampling. Two near-surface SVMPs and 52 subslab SVMPs were installed in the floor of the Adit 3 and Pearl Harbor Tunnels and sampled weekly through the week of June 20, 2022 and monthly thereafter using hand-held PIDs to collect real-time measurements. As part of the monthly sampling program, the collection of PID measurements is also required following any precipitation events resulting in greater than 1 inch of rainfall within a 24-hour period.

During July–September 2022, deep nested SVMPs were installed within the Adit 3 and Pearl Harbor Tunnels to depths of 68–72 ft below the tunnel floor at the following three locations, as shown on Figure 7:

- A3-010-DSVMP, located adjacent to the U.S. Navy Well 2254-01 Pump Station doorway in the Adit 3 Tunnel. Three nested SVMPs and temperature probes were installed at 40, 48.5, and 62 ft below the tunnel floor.
- 1S+075-DSVMP, installed where two spurs of the Pearl Harbor/Adit 3 wye converge in the Pearl Harbor Tunnel approximately 75 ft south of the Adit 3 and Pearl Harbor Tunnel merge. Four nested SVMPs and temperature probes were installed at 12.6, 29, 39, and 58 ft below the tunnel floor.
- A3-375-DSVMP, installed directly adjacent to the November 20, 2021 valve release of JP-5 approximately 375 ft east of the U.S. Navy Well 2254-01 Pump Station entrance way. Four nested SVMPs and temperature probes were installed at 12.5, 34.5, 47.5, and 63.5 ft below the tunnel floor.

Starting in December 2022, 6 months of monthly sampling of up to 20 subslab and deep SVMP locations began from selected SVMP probes to be analyzed at the contract laboratory. These samples are being analyzed for TPH-g by Method TO-3; BTEX and N, 1MN, and 2MN by Method TO-15; and oxygen, carbon dioxide, methane and helium by Method 3C. During the current reporting period, sampling was conducted on December 17, 18, and 19, 2022, and on January 17 and 18, 2023.

Perched Water and LNAPL Sampling. Shallow borings were installed in five of the trenches to conduct near-surface soil vapor monitoring (5–6 ft below tunnel floor) (Figure 6). Perched

water was encountered in three of the trench borings (A3+215-BH, A3+000-BH, and A3-150-BH), and fuel oil identified by laboratory analysis as JP-5 was observed in the trench boring (A3+000-BH) located adjacent to the U.S. Navy Well 2254-01 Pump Station.

Details and results of the Adit 3 soil, soil vapor, and perched water sampling to date were provided to the Regulatory Agencies in an *In-Progress Data Report, Adit 3 Site Characterization Technical Memorandum* (DON 2023e) on February 23, 2023 (see Section 3.3.3).

3.3.3 LNAPL Site Characterization at Adit 3

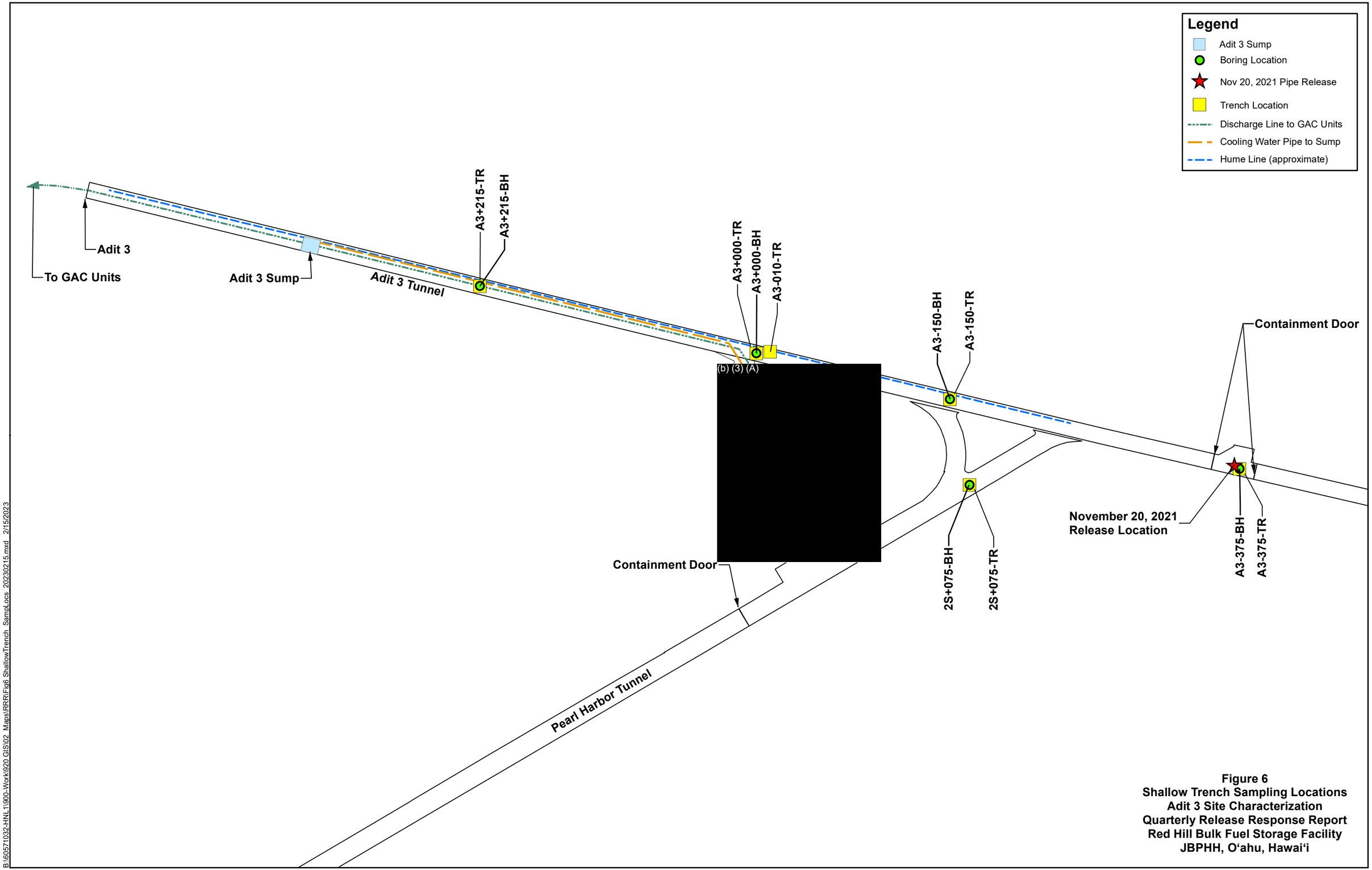
In response to the observation of LNAPL in the trench boring at A3+000 and in consultation with DOH, the Navy began implementing a *LNAPL Site Characterization Plan Addendum* (DON 2022f), which included installation of 25 shallow soil borings to a maximum depth of 6 ft below the tunnel floor along the Adit 3 and Pearl Harbor Tunnels and installation of temporary wells in seven of these borings. Shallow borehole and temporary well sampling locations for the LNAPL site characterization effort are included on Figure 7 and described below.

During March 11 and April 1, 2022, seven initial step-out borings were advanced: Soil from all seven borings was collected and analyzed at a fixed-base laboratory. Based on the amount of soil recovered:

- Four borings were analyzed for TPH-g/d/o, BTEX, N, 1MN, and 2MN
- The remaining three borings were analyzed for TPH-d/o, N, 1MN, and 2MN only due to limited soil recovery.

During June–August 2022, 18 soil borings were advanced to 6 ft below tunnel floor, soil cuttings were screened for organic vapor with a PID, and the soil interval with the maximum PID result was collected for "OIL-IN-SOIL" field tests and for laboratory analysis for TPH-d, N, 1MN, and 2MN.

The LNAPL site characterization effort identified petroleum-impacted groundwater in the perched zone located between 4 and 15 ft below the tunnel floor. As shown on Figure 7, shallow soil borings were installed, and during September 1–8, 2022, seven selected borings were developed into temporary groundwater monitoring wells (A3+375-TW, A3+325-TW, A3+210-TW, A3+050-TW, A3+015-TW, A3-010-TW, and A3-040-TW) for sampling to characterize the extent and magnitude of petroleum-impacted perched water in the area. The temporary wells were first sampled on September 12, 2022. Groundwater samples were analyzed for TPH-g, TPH-d, TPH-o; 1MN, 2MN, and N; and BTEX.



B:\60571032-HNL1\900-Work\920 GIS\02 Maps\RRR\Fig6 ShallowTrench SampLocs 20230215.mxd 2/15/2023

Figure 6
Shallow Trench Sampling Locations
Adit 3 Site Characterization
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O‘ahu, Hawai‘i

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Note

A3-050-BHOffset is a step-out boring because the first boring (A3-050-BH) was drilled in a solid matrix, originally thought to be concrete fill. A3-050-BHOffset was drilled next to it within 2 feet of the original. The Navy continues to monitor each boring for vapor weekly.

Legend

- Adit 3 Sump
- Nov 20, 2021 Pipe Release
- Discharge Line to GAC Units
- Cooling Water Pipe to Sump
- Hume Line

Adit 3 Wells

- Borehole
- Deep Nested SVMP
- Temporary Well

A3+375-TW
A3+325-TW
A3+225-BH
A3+210-TW
A3+200-BH
A3+150-BH
A3+087-BH
A3+050-TW
A3+015-TW
A3-010-DSVMP
A3-010-TW
A3-040-TW
A3-050-BHOffset
A3-050-BH
A3-090-BH
A3-100-BH
A3-110-BH
1S+025-BH
A3-150-BH
A3-200-BH
A3-240-BH
A3-250-BH
A3-300-BH

Adit 3
To GAC Units
Adit 3 Sump
Adit 3 Tunnel

(b) (3) (A)

PS+095-BH

Containment Door

Containment Door

1S+075-DSVMP
2S+025-BH
A3-350-BH
A3-375-DSVMP

November 20, 2021
Release Location

Pearl Harbor Tunnel

Figure 7
Adit 3 LNAPL Step-out Boring, Temporary Well, and Deep Nested SVMP Sampling Locations
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, Oʻahu, Hawaiʻi

\\aecomssd.com\DCS Isolated\605710320-HNL1900-Work920 GIS\02 Maps\RRR\Fig7 Adit 3 Boring, Temp Well, Deep SVMPs 2022-12-02.mxd 2022-12-07

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LNAPL site characterization activities conducted during the current reporting period are described in Sections 5.1.2, 5.2, and 5.3.5. The Navy provided the Regulatory Agencies an *In-Progress Data Report, Adit 3 Site Characterization Technical Memorandum* on February 23, 2023 (DON 2023e). The memorandum recommended preparation of a comprehensive Site Investigation Report in accordance with the DOH *Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan* (TGM) (DOH 2021c). Once completed, that report will serve as the basis for an Adit 3 Conceptual Site Model (CSM) and a site-specific Environmental Hazard Evaluation, and will provide data for assessment of remedial alternatives and, if necessary, remedial design.

3.4 Site Characterization at Holding Tank and Leach Tank Area

A multi-phase subsurface site characterization and removal action of contaminated soil at the Holding Tank and Leach Tank area outside Adit 3 (Figure 2) was initiated in January 2022. Phase 1 and 2 sampling locations are shown on Figure 8.

Under Phase 1, 21 subsurface soil borings were drilled and sampled in January 2022 using direct-push methodology. The investigation was unable to delineate the extent of contamination in the perched aquifer due to encountering shallow refusal, as documented in a *Technical Memorandum November 2021 Pipeline Release Red Hill Fuel Storage Facility, February 2022* (DON 2022b).

Following consultation with DOH and the U.S. Environmental Protection Agency (EPA), the Navy conducted Phase 2 field work during March 9–17, 2022 to obtain data to conduct further vertical delineation of the petroleum in subsurface soil and to obtain data to characterize petroleum impacts in the shallow perched water body located at approximately 30 ft bgs in the study area. Subsurface soil samples and organic vapor headspace readings were collected at eight soil borings from data gap locations, and groundwater grab samples were collected from three temporary monitoring wells within the perched groundwater zone. The chemical constituents evaluated were TPH-g, TPH-d, and TPH-o; BTEX; and N, 1MN, and 2MN.

The Phase 2 findings led to excavation and removal of both tanks and approximately 97 tons of soil in May 2022. Waste characterization soil samples were collected and analyzed for TPH-g, TPH-d, and TPH-o prior to the excavation event, and the excavated soil was properly disposed of at a permitted landfill.

Removal activities were subsequently completed with a second soil removal action in September–October 2022. The second excavation removed approximately 1,000 cubic yards (1,712 tons) of additional petroleum-contaminated subsurface soil. Soil samples were collected using multi-increment sampling methods. After sampling, all excavated soil was properly disposed of at a permitted landfill.

Details and results were presented to the Regulatory Agencies for comment in a *Draft Final Technical Memorandum, Phase 2 Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2022k) on December 7, 2022. Once the removal action confirmation sampling results have been evaluated, the Navy will develop site-specific risk-based action levels

following the DOH Hazard Evaluation and Emergency Response (HEER) Environmental Hazard Evaluation process and, if necessary, develop and implement an Environmental Hazard Management Plan in accordance with HEER guidelines.

In addition, a *Draft Closure Report, Concrete Tank Removal* was provided to the Regulatory Agencies for comment on February 24, 2023 (DON 2023a).

3.5 Site Characterization at the Collection, Holding, and Transfer Tank

Site characterization activities are being planned as part of a Phase 1 assessment to characterize the nature and lateral extent of petroleum hydrocarbon impacts in near-surface soil around a CHT Tank located outside Adit 3 (see Figure 2). Additional activities will include characterizing and quantifying the amount of LNAPL, petroleum-contaminated water, and petroleum-impacted sludge stored in four fractionation (frac) tanks of recovered material near Adit 1 to quantify the amount of petroleum recovered. Details and results of the investigation were presented to the Regulatory Agencies for comment in a *Site Characterization Plan Addendum – Collection, Hold, and Transfer Tank Overflow Site Characterization, November 2021 Release* on December 7, 2022 (DON 2022j).

3.6 Inspection of Water Development Tunnel

Inspections of the Red Hill Shaft water development tunnel were conducted using a submersible remotely operated vehicle (ROV) to better understand the extent of impact in the tunnel and to potentially identify areas of fluid infiltration. The cable-controlled ROV's cameras recorded downward, forward, and upward video of the first 515 ft of the tunnel, which investigators then reviewed and evaluated. An initial inspection conducted on January 13, 2022 was followed by a second June 14–15, 2022 inspection; the results are reported in a *Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel* technical memorandum (DON 2022h).

3.7 Single-Event Groundwater Sampling at DH-43 and BWS2253J1 Well

In a single sampling event in October 2022, the Navy collected split samples with BWS at monitoring wells DH-43 (State Well ID No. 3-2253-02), located adjacent to Red Hill in Moanalua Valley, and BWS2253J1 Well (State Well ID No. 3-2253-006), located beside an aboveground BWS water tank southwest of the Red Hill fuel storage tanks adjacent to the Facility boundary and RHMW09. The split sampling was conducted to obtain data to further evaluate potential impacts to groundwater southeast and south of the tank farm. The Navy's samples were analyzed for the NOI parameters identified in Section 5.3. Details and analytical results were reported in the December 21, 2022 Quarterly RRR (DON 2022l).

3.8 Remediation Pilot Test

The Navy is planning to conduct pilot and bench-scale tests to evaluate potential technologies for remediating fuel released to the environment by the November 2021 Release. The objectives are to assess the technologies' effectiveness in heterogenous lithologies, assess the constructability of the technologies, and identify design parameters prior to full-scale implementation.

South Hālawa Stream

HT-W35

LT-N35

LT-N40

HT-N15

OWDFMW06B

HT-N25

HT-N10

OWDFMW06A

LT-N25

HT-W10

Holding Tank

LT-W55

LT-W40

LT-W35

LT-W25

LT-W17.5

LT-N10

HT-E0

HT-E10

HT-E17.5

HT-S10

LT-W10

Leach Tank

LT-E10

LT-E0

LT-E15

HT-S17.5

HT-E25

LT-S25

LT-S17.5

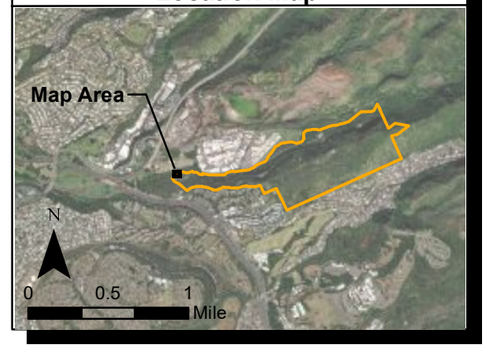
LT-S10

HT-S25

LT-S15

OWDFMW03A

Location Map



Legend

- OWDF Monitoring Well
- Phase 2 Temporary Well
- Phase 1 Boring
- Phase 2 Boring
- Tank
- Red Hill Facility Boundary
- Stream

Notes

1. Map projection: NAD 1983 Hawaii State Plane Z3 ft
2. Base Map Source: U.S. Geological Survey, 2011, USGS High Resolution Orthoimagery for Honolulu, Hawaii
3. Location Map Source:Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/ Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community.
4. Coordinates: NAD 1983 Hawaii State Plane Z3 ft

N

0 7.5 15 30 Feet

Figure 8
Holding Tank and Leach Tank
Sampling Location Map
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O‘ahu, Hawai‘i

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The proposed field pilot testing is anticipated to consist of short-duration soil vapor extraction (SVE) and air sparging (AS) pilot tests, a 6-month SVE pilot test, a 24-month natural source-zone depletion (NSZD) study, and a laboratory JP-5 weathering treatability study. Following the testing period, 18 months of SVE system operation is planned.

The Navy provided to the Regulatory Agencies for comment a *Draft Shallow SVE/AS Work Plan* (WP) on January 9, 2023 (DON 2023b); a *Draft NSZD WP* on February 23, 2023 (DON 2023d); and a *Draft Deep SVE WP* on February 27, 2023 (DON 2023c).

4.0 Site Investigation Objectives

Sampling activities in response to the three fuel releases include routine sampling and other investigation activities associated with soil vapor and groundwater monitoring and site characterization, as described below.

4.1 Soil Vapor

AOC and NOI Soil Vapor Sampling. The Navy installed SVMPs below each of the active Red Hill fuel storage tanks in the mid-2000s to collect data that provide additional layers of protection to screen for potential releases (DON 2007). These SVMPs are monitored monthly for total volatile organic compound (VOC) vapors as a release detection screening tool that operates in conjunction with other leak detection systems used at the Facility. More frequent monitoring of some or all of the below-tank SVMPs has been conducted since the May 2021 Release. Under the NOI, all below-tank SVMPs were monitored weekly during this reporting period. In addition, samples were collected from selected SVMPs with Summa canisters and analyzed at a fixed-base analytical laboratory to further characterize the specific VOCs associated with the May 2021 Release and to evaluate the extent of weathering that has occurred.

Adit 3 Soil Vapor Sampling. Routine monitoring of the SVMPs installed in the tunnel floor near Adit 3 and in the Pearl Harbor Tunnel has been conducted to further characterize the nature and extent of impacts from the November 2021 Release near Adit 3. Results have been used to identify initial hotspots and to lead additional subsurface soil, LNAPL, and groundwater studies to develop a complete CSM for the development of future feasibility studies and remedial designs.

4.2 Free-Product Gauging and Headspace Measurements

AOC Oil/Water Interface Measurements. The Navy continues to collect monthly oil/water interface measurements from monitoring wells located in the tunnel in response to the January 2014 Release. The objective of the measurements is to evaluate whether free product has reached groundwater at specific monitoring well locations.

NOI Free-Product Gauging and Headspace Measurements. Free product gauging and headspace measurements are conducted prior to the collection of groundwater samples. The objectives of the free product gauging and groundwater monitoring well headspace measurements are to evaluate whether free product has reached groundwater at specific monitoring well locations and to monitor for the presence of free product in Red Hill Shaft.

4.3 Groundwater

NOI Groundwater Sampling. The objective of groundwater sample collection and analysis from monitoring wells and Red Hill Shaft is to evaluate the nature and extent of impacts to the basal groundwater aquifer.

Delineation wells (Section 3.2) are being installed to evaluate: basal aquifer groundwater quality in the vicinity of Red Hill Shaft; the extent and magnitude of groundwater impact associated with the November 2021 Release; groundwater flow and the effect of pumping Red Hill Shaft on the local hydraulic gradient; and whether contamination is migrating from the site toward potential offsite receptors.

Adit 3 and Pearl Harbor Tunnels Groundwater Sampling. The objective of groundwater sample collection from perched aquifers located beneath the Adit 3 and Pearl Harbor Tunnels is to evaluate impacts to shallow groundwater above the basal aquifer that may have been impacted by the downward migration of fuel. These data help to further characterize the occurrence, nature, and extent of fuel impacts and the potential for perched groundwater to serve as a source that could further impact the subsurface beneath it.

4.4 Soil and Rock

The objectives of the discrete subsurface soil sampling conducted in the Adit 3 and Pearl Harbor Tunnel area and Holding Tank and Leach Tank area for laboratory analysis include:

- Compare the concentration of site-specific COPCs in each soil boring to site-specific and constituent-specific DOH Table 2-A Soil Action Levels, as presented in the *Preliminary Site Characterization Plan* (DON 2022a)
- Evaluate the potential for COPCs to have migrated below the bottom of the borehole and potentially into the underlying groundwater systems
- Use the results to support the development of an improved CSM that can be used for a feasibility study, remedial design, or for design of a removal action

4.5 Data Usability

The usability of data collected depends on its quality, which in turn depends on a variety of factors. Adhering to proper sample collection techniques, observing and documenting chain of custody procedures, and using Department of Defense (DoD)-accredited laboratories and approved analytical methods ensure that the quality of data generated meets site characterization objectives.

DOH's technical perspective and regulatory guidance on the characterization of petroleum-impacted soil and groundwater are described in Section 6 ("Soil, Soil Vapor and Groundwater Action Levels for TPH") of the DOH guidance document *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* (DOH 2017) as follows:

- Petroleum is a complex mixture that degrades into potentially toxic metabolites.

- Non-specific aliphatic and aromatic compounds and related degradation compounds compose the majority of the mass collectively referred to as TPH.
- Risk to human health and the environment posed by petroleum releases is evaluated in terms of both TPH and individual "indicator" compounds such as BTEX as well as N, 1MN, and 2MN and other targeted polynuclear aromatic hydrocarbons (PAHs). The latter compose only a small percentage of the total mass in fuels and in vapors but can pose a significant risk due to their higher toxicity and can be important for evaluating risk due to their higher toxicity.
- For risk evaluation, samples are evaluated for additives known or suspected to have been pre-blended into the fuel. Additives, including antioxidants, biocides, and fuel system ice inhibitors, are normally pre-blended into stored jet fuel.

Appendix A, Section 4.1.6 (LNAPL Plume Delineation) of the DOH (2017) guidance document identifies soil borings as part of the LNAPL characterization process, including the following delineation methods for soil:

- If the depth of the source of a release is known, then the approximate upper extent of that release can be inferred.
- Headspace measurements for volatile organics will typically show an increase in concentration within the LNAPL zones. Plotting these on a simple chart of depth against concentration will typically show the inferred bulk LNAPL zone (mobile or residual).
- Visual and olfactory observations are typically logged as well, giving another indication of the presence of LNAPL.
- Soil samples are often collected and analyzed chemically, which will give another set of clear LNAPL indications. In general, TPH analytical results (for the appropriate fuel carbon range) greater than 250 milligrams per kilogram (mg/kg) are indicative of residual LNAPL (because soil has a limited sorptive capacity).

Target petroleum-related analytes identified in the above guidance are listed in Table 2, and relevant DOH EALs are listed in Table 3.

Table 2: Target Analytes for Middle-Distillate Contaminated Media

Petroleum Product	Media	Recommended Target Analytes
Middle Distillates (e.g., diesel, kerosene, Stoddard solvents, heating fuels, jet fuels)	Soil	TPH, BTEX, N, 1MN, and 2MN
	Soil Vapor	TPH, BTEX, N, and methane
	Groundwater	TPH, BTEX, N, 1MN, and 2MN

Source: (DOH 2017, Volume 2, Table 6-1).

Table 3: DOH Environmental Action Levels

Analytical Method	Analyte	EALs		
		Soil (mg/kg) [a]	**Groundwater (µg/L) [b]**	**Soil Vapor (µg/m³) [c]**
SW-8260	TPH-g	**100** / 450 / 700	500 / **300**	4.9×10^6
	Benzene	500 / 1.2 / **0.3**	170 / **5**	6,300
	Toluene	500 / 820 / **0.78**	**40** / 1,000	1.8×10^7
	Ethylbenzene	480 / 62 / **0.9**	**30** / 700	2×10^5
	Xylenes	260 / 130 / **1.4**	**20** / 10,000	3.5×10^5
SW-8270	N	500 / 28 / **3.1**	21 / **17**	1.1×10^4
	1MN	500 / 170 / **0.89**	**10** / 27	9.8×10^5
	2MN	500 / 39 / **1.9**	**10** / 24	5.6×10^4
SW-8015	TPH-d	500 / **220** / 940	500 / **400**	2.2×10^6
	TPH-o	**500** / 9,400 / 1,000	**500** / 2,400	N/A

Source: Hawai‘i Department of Health Environmental Action Level Surfer (Fall 2017) (DOH 2017).
Bold Values: Tier 1 EALs used for soil and groundwater data screening. Soil criteria EAL based on < 150 meters to surface water, and groundwater EALs based on > 150 meters to surface water for sites where groundwater is a current or potential source of drinking water.
µg/L micrograms per liter
µg/m³ micrograms per cubic meter
mg/kg milligrams per kilogram
N/A not applicable; EAL not provided
TPH-g TPH-gasoline range organics
[a] Soil EALs = (Gross Contamination) / (Direct Exposure) / (Leaching to Groundwater)
[b] Groundwater EALs = (Odor Taste Threshold) / (Drinking Water Toxicity)
[c] Soil Vapor EALs = (Commercial / Industrial Shallow Soil Vapor Action Levels) (Table C)

5.0 Field Activities

Activities performed to characterize soil vapor, groundwater, and soil during this reporting period are described below. Site characterization activities associated with the Adit 3 and Pearl Harbor Tunnel and the Holding Tank and Leach Tank areas are also summarized below; the data and results of these two investigations will be documented separately in forthcoming reports.

Analytical results for the sampling activities described below are discussed in Section 9.0.

5.1 Soil Vapor Monitoring

5.1.1 Below-Tank SVMPs

Soil vapor PID measurements were collected during 13 weekly sampling events completed between November 5, 2022 and February 3, 2023. VOC concentrations at below-tank SVMPs

were measured in the field using hand-held PIDs at all SVMPs under Tanks 2 through 18 and 20; locations are shown on Figure 4.

Soil vapor samples for analysis at a fixed-base analytical laboratory were collected monthly during this reporting period. Summa canister samples were collected from SV15S, 15D, 17S, 17D, 18S, 18D, 20M, and 20D. In addition to this monthly sampling, Summa canister samples were collected from SV18S and SV18D on December 20, 2022 in response to the elevated PID readings observed at these two locations during the weekly PID monitoring conducted on that day.

5.1.2 Adit 3 and Pearl Harbor Tunnel SVMPs

During this reporting period, eight SVMP monitoring events were conducted as part of implementing the *Preliminary Site Characterization Plan* (DON 2022a) and *LNAPL Site Characterization Plan* (DON 2022f) (Section 3.3). These included seven "out-of-frequency" sampling events following rainfall events of greater than 1 inch within a 24-hour period (DON 2022e). All sampling events conducted in November and December were considered out-of-frequency events because they were conducted following rainfall events of greater than 1 inch within a 24-hour period. Figure 9 depicts the location of each tunnel subslab and near-surface SVMP and the organic vapors measured between December 17, 2021 and February 1, 2023 (the last sampling event within this reporting period).

Installation and monitoring of the Adit 3 deep nested SVMPs are discussed in an *In-Progress Adit 3 Site Characterization Technical Memorandum* (DON 2023e).

5.2 Free Product Gauging and Groundwater Monitoring Well Headspace Measurements

AOC Sampling. Free product gauging (i.e., oil/water interface measurements) data were collected monthly at in-tunnel monitoring wells RHMW01, RHMW01R, RHMW02, RHMW03, and RHMW05.

NOI Sampling. Free product gauging and groundwater monitoring well PID headspace measurements were collected weekly during this reporting period at groundwater monitoring wells included in the *NOI Groundwater Sampling Plan* (Appendix B.6) and at RHMW17 and NMW24. At the request of DOH, the free product gauging method was changed from using a low-flow pump to using a clear bailer; this method consisted of collecting a sample from the water surface in the monitoring well and photographing the water in the bailer to demonstrate any evidence of free product. In addition, an ultraviolet light was used at Adit 3 Sump and Red Hill Shaft to check for the presence of free product.

Groundwater sampling, free product gauging, and PID headspace measurements were collected biweekly during this reporting period at the completed delineation wells. Free product gauging used a clear bailer as described above in addition to using an oil/water interface probe. Headspace measurements were collected using a PID with readings both from inside the well casing and from a jar that had been filled with purge water, sealed, and then allowed to equilibrate.

Adit 3 Sampling. As described in Section 3.3, LNAPL was identified in the shallow trench boring installed adjacent to the U.S. Navy Well 2254-01 Pump Station in March 2022 (Figure 6), and additional step-out borings were installed to evaluate the extent of LNAPL on the perched water table (Figure 7). Water levels have also been measured weekly since March 2022. During that time, evidence of LNAPL has been observed in A3+015-BH, A3+000-BH, A3-010-BH, and A3-040-BH, covering approximately 65 linear ft of the shallow subsurface beneath the tunnel floor. Details and results to date were presented in an *In-Progress Adit 3 Site Characterization Technical Memorandum* (DON 2023e).

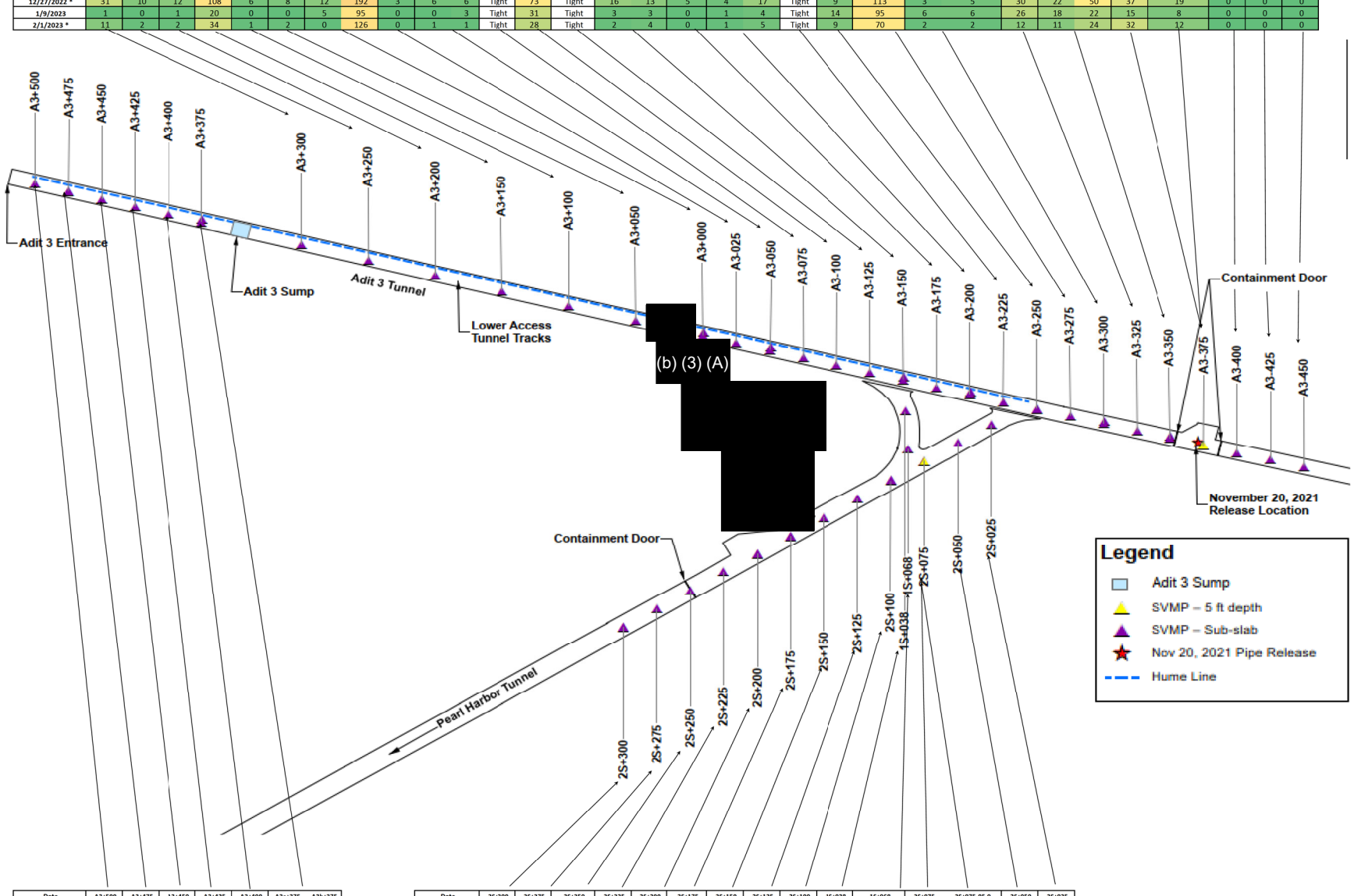
5.3 Groundwater and Adit 3 Sump Water Sampling

Two new wells were added to the Release Response groundwater sampling network during this reporting period: delineation well RHP05 and sentinel well NMW24.

In accordance with the *NOI Groundwater Sampling Plan* revised on December 27, 2021 (Appendix B.6; note contingent revision provided to DOH on February 10, 2022), the following locations were monitored during this reporting period, as depicted on Figure 1:

- Groundwater monitoring in-tunnel wells within the lower access tunnel: RHMW01R, RHMW02, RHMW03, and RHMW05
- Groundwater sampling point RHMW2254-01 at Red Hill Shaft
- Selected outlying groundwater monitoring wells external to the tunnel:
  - RHMW04, located within the Facility boundary east of the tank farm in a location believed to be hydraulically upgradient from the tanks
  - RHMW06, RHMW08, RHMW13-05, RHMW15-05, RHMW16, and RHMW17, located within the Facility boundary northeast and northwest of the tank farm in locations along the Facility's northern border
  - RHMW09 and RHMW19, located within the Facility boundary southwest and southeast of the tank farm in locations along the Facility's southern border
  - OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, and OWDFMW08A, located within the Facility boundary west of Red Hill Shaft
  - RHMW11-05, RHMW12A, and RHMW14-03, located outside the Facility boundary north of the tank farm on the grounds of the Hālawa Correctional Facility
- Delineation wells RHP01, RHP02, RHP03, RHP04A, RHP04B, and RHP05
- Sentinel well NMW24
- Adit 3 Sump

Date	A3+300	A3+250	A3+200	A3+150	A3+100	A3+050	A3a+000	A3b+000	A3-025	A3a-050	A3b-050	A3-075	A3-100	A3-125	A3a-150	A3b-150	A3-175	A3a-200	A3b-200	A3-225	A3-250	A3-275	A3a-300	A3b-300	A3-325	A3a-350	A3b-350	A3-375	A3-375-05.0	A3-400	A3-425	A3-450
12/17/2021	67	101	55	43	39	40	24	33	28	24	35	36	44	29	83	95	69	56	51	13	27	36	56	51	47	36	47	288	NA	2.3	NA	NA
12/20/2021	235	178	88	96	67	85	65	79	57	54	69	NT	65	32	92	108	42	57	69	7	38	58	43	75	142	275	246	290	NA	15	NA	NA
12/21/2021	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	71	78	15	66	68	66	76	72	76	87	181	NA	17	NA	NA
12/22/2021	55	106	51	62	62	37	45	60	42	56	45	12	92	16	69	85	36	36	45	7	30	50	23	35	49	41	49	96	NA	18	NA	NA
12/23/2021	106	350	192	233	205	138	215	203	151	258	101	9.3	302	9	257	321	112	73	157	4	102	121	85	120	163	228	196	407	NA	24	NA	NA
12/24/2021	120	281	282	131	462	101	448	471	105	423	208	NT	407	NT	475	490	71	116	374	NT	97	408	197	73	139	409	155	450	NA	17	NA	NA
12/27/2021	NT	240	79	160	141	99	180	181	106	160	118	NT	264	NT	265	157	66	49	53	NT	36	52	24	36	38	58	26	443	NA	14	NA	NA
12/29/2021	Wet	Wet	76	117	103	45	101	110	65	97	83	NT	203	NT	180	181	53	37	85	Wet	52	68	28	14.2	86	125	81	128	NA	2	NA	NA
12/30/2021	Wet	Wet	74	109	85	45	87	87	47	86	73	Wet	142	Wet	155	153	52	46	82	Wet	56	62	41	54	73	66	88	82	NA	2	NA	NA
12/31/2021	Wet	Wet	175	341	278	65	342	387	111	227	110	Wet	679	Wet	617	682	114	146	403	Wet	228	308	80	135	377	365	408	444	NA	14	NA	NA
1/6/2022	Wet	614	238	426	415	95	497	544	133	118	139	Tight	618	Wet	527	627	358	158	422	Wet	196	370	74	167	399	342	381	410	NA	8	NA	NA
1/12/2022	628	550	184	386	350	64	398	410	98	239	108	Tight	416	Tight	466	547	74	105	342	Tight	174	338	51	132	328	318	401	396	NA	1	1	1
1/19/2022	654	531	148	313	343	65	316	344	89	177	108	Tight	439	Tight	597	622	89	138	312	Tight	160	277	66	134	338	349	450	408	NA	69	55	52
1/26/2022	Wet	667	157	335	320	64	334	386	96	364	99	Tight	624	Tight	538	669	93	81	336	Tight	151	291	53	123	339	352	367	416	NA	3	1	1
2/2/2022	Wet	598	159	391	389	41	400	414	75	219	78	Tight	673	Tight	432	701	109	105	362	Tight	152	365	61	105	374	400	392	399	NA	1	1	2
2/9/2022	664	498	135	298	341	50	293	325	77	167	103	Tight	474	Tight	457	535	85	71	283	Tight	151	268	42	127	312	251	399	397	NA	1	1	1
2/18/2022	369	295	77	187	181	30	186	180	35	181	60	Tight	254	Tight	230	259	21	33	140	Tight	49	69	16	41	80	81	115	91	NA	1	1	1
2/23/2022	442	383	104	220	236	41	253	255	53	126	63	Tight	362	Tight	353	396	22	221	213	Tight	68	113	34	68	138	133	157	152	NA	1	1	1
3/2/2022	508	424	125	290	298	37	307	330	66	142	72	Tight	437	Tight	401	440	53	48	235	Tight	113	147	34	90	219	188	245	248	NA	2	2	2
3/16/2022	295	213	60	103	108	15	112	57	22	55	31	Tight	238	Tight	125	175	56	28	134	Tight	63	145	42	72	115	95	98	79	124	1	1	1
3/23/2022	169	150	45	129	77	31	97	123	34	37	24	Tight	158	Tight	81	120	27	30	99	Tight	53	112	22	67	114	76	100	59	106	1	1	1
3/30/2022	245	181	42	157	68	17	62	123	13	38	29	Tight	173	Tight	78	119	46	21	101	Tight	53	78	19	54	114	89	125	57	123	0	0	0
4/6/2022	192	89	32	83	57	15	88	133	17	61	23	Tight	171	Tight	96	139	14	20	87	Tight	59	96	21	65	121	87	120	51	117	1	1	1
4/13/2022	236	163	36	152	66	17	74	110	15	57	22	Tight	162	Tight	110	140	13	19	83	Tight	50	86	18	58	121	91	97	66	100	0	0	0
4/20/2022	227	136	34	139	59	14	80	101	16	42	13	Tight	146	Tight	97	135	17	18	83	Tight	41	68	20	47	103	85	98	52	108	1	1	1
4/27/2022	234	131	34	133	58	14	78	104	17	41	15	Tight	151	Tight	97	141	18	17	79	Tight	44	76	15	44	92	79	104	56	113	0	0	0
5/4/2022	222	147	30	134	53	35	78	118	42	55	37	Tight	157	Tight	92	119	17	14	69	Tight	35	47	17	38	90	59	86	69	107	1	1	1
5/9/2022	862	283	53	259	142	64	95	199	71	83	55	Tight	300	Tight	152	196	18	24	130	Tight	56	75	24	62	156	102	137	129	189	2	2	2
5/16/2022	254	145	19	143	72	30	37	99	30	37	29	Tight	158	Tight	77	88	3	6	65	Tight	25	35	15	34	77	54	76	66	95	0	0	0
5/23/2022	278	137	10	141	71	21	26	111	25	32	29	Tight	155	Tight	72	85	3	4	58	Tight	23	31	10	26	70	53	79	71	92	0	0	0
5/31/2022	244	116	11	116	48	17	12	94	18	28	19	Tight	124	Tight	50	66	2	4	47	Tight	17	22	10	21	63	48	70	70	83	0	0	0
6/6/2022	303	164	11	158	68	18	16	152	26	47	31	Tight	206	Tight	78	107	6	9	59	Tight	19	24	12	25	77	30	53	34	47	0	0	0
6/13/2022	350	156	16	175	87	14	6	129	19	26	14	Tight	160	Tight	78	90	5	8	62	Tight	18	23	7	25	79	58	80	53	81	0	0	1
6/20/2022	325	160	15	136	57	16	76	151	21	44	29	Tight	190	Tight	55	73	6	7	58	Tight	14	17	6	19	61	38	43	85	89	1	1	1
7/11/2022	435	262	95	289	61	6	164	330	14	47	23	Tight	437	Tight	94	124	0	0	74	Tight	20	23	15	27	134	96	149	176	210	0	0	0
8/8/2022	613	253	10	38	65	0	52	NA	14	82	34	Tight	504	Tight	140	124	0	5	90	Tight	24	24	20	41	166	138	56	300	320	0	0	0
9/12/2022	342	101	4	236	19	2	88	402	0	25	0	Tight	406	Tight	61	99	0	3	45	Tight	53	9	8	24	78	80	132	137	NA	0	0	0
11/7/2022 *	80	13	13	124	6	10	17	307	2	23	6	Tight	202	Tight	35	39	0	2	23	Tight	26	222	2	14	69	53	79	82	NA	0	0	0
11/14/2022 *	74	7	6	111	3	8	22	350	8	13	11	Tight	193	Tight	38	31	4	5	24	Tight	19	210	12	15	81	60	91	89	78	1	1	1
11/21/2022 *	62	9	7	100	7	20	41	325	7	26	10	Tight	176	Tight	25	27	6	7	27	Tight	14	156	4	7	39	44	15	54	26	1	0	1
11/28/2022 *	65	9	9	91	8	11	23	249	1	9	5	Tight	155	Tight	25	26	0	2	14	Tight	10	100	5	5	40	24	39	52	22	0	0	0
12/19/2022 *	31	6	4	78	6	5	0	334	14	24	18	Tight	136	Tight	24	18	6	3	17	Tight	11	124	3	4	37	27	55	68	22	1	0	1
12/27/2022 *	31	10	12	108	6	8	12	192	3	6	6	Tight	73	Tight	16	13	5	4	17	Tight	9	113	3	5	30	22	50	37	19	0	0	0
1/9/2023	1	0	1	20	0	0	5	95	0	0	3	Tight	31	Tight	3	3	0	1	4	Tight	14	95	6	6	26	18	22	15	8	0	0	0
2/1/2023 *	11	2	2	34	1	2	0	126	0	1	1	Tight	28	Tight	2	4	0	1	5	Tight	9	70	2	2	12	11	24	32	12	0	0	0



Date	A3+500	A3+475	A3+450	A3+425	A3+400	A3a+375	A3b+375
12/17/2021	33	4	3	20	55	120	92
12/20/2021	96	56	54	86	244	350	269
12/21/2021	NT	NT	NT	NT	NT	NT	NT
12/22/2021	56	41	43	50	64	115	114
12/23/2021	193	145	160	178	215	405	408
12/24/2021	122	76	82	96	101	201	244
12/27/2021	NT	90	113	159	134	239	281
12/29/2021	Wet	39	44	48	81	196	193
12/30/2021	Wet	43	47	55	63	109	157
12/31/2021	Wet	38	45	62	85	785	673
1/6/2022	Wet	45	53	70	97	560	474
1/12/2022	107	38	45	57	72	486	263
1/19/2022	Wet	42	54	59	72	458	163
1/26/2022	291	30	37	50	64	683	225
2/2/2022	444	17	21	27	36	438	144
2/9/2022	112	26	31	42	67	384	169
2/18/2022	118	27	33	40	55	239	136
2/23/2022	70	25	30	40	50	323	124
3/2/2022	148	36	40	49	73	405	187
3/16/2022	63	9	9	12	15	193	82
3/23/2022	28	9	12	15	21	151	58
3/30/2022	75	7	8	9	13	151	53
4/6/2022	46	14	17	21	26	85	49
4/13/2022	76	9	11	12	17	141	53
4/20/2022	70	8	9	10	12	129	51
4/27/2022	68	9	12	15	18	126	52
5/4/2022	12	8	10	11	16	128	57
5/9/2022	20	19	24	23	29	249	102
5/16/2022	4	6	5	7	10	146	49
5/23/2022	0	3	4	6	7	143	42
5/31/2022	1	3	4	7	10	123	35
6/6/2022	4	4	7	9	15	180	49
6/13/2022	8	9	12	13	16	179	44
6/20/2022	13	9	10	13	15	153	46
7/11/2022	1	1	4	6	11	280	43
8/8/2022	0	4	66	6	13	376	41
9/12/2022	0	0	0	0	0	159	85
11/7/2022 *	0	0	0	0	5	37	8
11/14/2022 *	21	7	7	8	10	51	14
11/21/2022 *	9	0	0	6	6	39	10
11/28/2022 *	17	1	2	6	5	36	7
12/19/2022 *	8	5	4	3	4	12	5
12/27/2022 *	17	2	3	3	7	23	5
1/9/2023	1	0	0	0	0	1	0
2/1/2023 *	3	0	0	1	1	4	1

Date	2S+300	2S+275	2S+250	2S+225	2S+200	2S+175	2S+150	2S+125	2S+100	1S+038	1S+068	2S+075	2S+075-05.0	2S+050	2S+025
12/17/2021	NA	NA	NA	33	20	40	79	69	49	13	33	89	NA	90	59
12/20/2021	NA	NA	NA	37	39	82	84	83	473	16	21	525	NA	135	110
12/21/2021	NA	NA	NA	42	40	68	43	86	189	NT	NT	238	NA	86	94
12/22/2021	NA	NA	NA	25	28	35	38	38	83	20	28	81	NA	65	39
12/23/2021	NA	NA	NA	82	87	133	132	142	241	81	92	252	NA	192	205
12/24/2021	NA	NA	NA	39	76	127	133	57	260	58	76	577	NA	269	42
12/27/2021	NA	NA	NA	6	35	66	70	67	128	42	43	158	NA	68	39
12/29/2021	NA	NA	NA	23	29	23	29	16	146	27	Wet	143	NA	151	119
12/30/2021	NA	NA	NA	40	36	36	33	32	138	68	58	144	NA	137	103
12/31/2021	NA	NA	NA	58	45	120	99	39	485	65	95	577	NA	536	402
1/6/2022	NA	NA	NA	70	50	112	103	39	521	65	92	607	NA	531	488
1/12/2022	12	12	15	34	41	94	102	84	435	17	19	490	NA	400	376
1/19/2022	1	1	1	1	2	30	43	10	395	79	103	457	NA	378	402
1/26/2022	18	20	20	26	34	66	78	80	444	22	22	510	NA	421	354
2/2/2022	6	5	5	6	12	13	33	31	454	8	9	569	NA	490	56
2/9/2022	11	12	3	15	26	43	54	59	448	15	15	496	NA	394	309
2/18/2022	6	6	7	9	13	17	24	28	149	9	9	281	NA	118	84
2/23/2022	7	7	8	11	17	17	23	32	227	11	11	316	NA	172	121
3/2/2022	11	11	14	17	22	36	49	55	338	16	16	422	NA	260	217
3/16/2022	3	3	4	8	10	14	19	21	236	5	7	249	55	174	126
3/23/2022	4	4	6	6	9	14	19	26	219	7	7	369	67	117	86
3/30/2022	3	3	4	6	8	13	17	21	218	5	6	290	50	121	100
4/6/2022	3	3	4	6	9	12	15	22	248	5	5	411	52	130	96
4/13/2022	3	3	4	5	8	12	14	20	228	5	5	358	43	131	90
4/20/2022	3	4	4	6	9	12	14	28	207	6	5	302	36	103	74
4/27/2022	3	3	4	5	8	11	13	20	194	6	5	333	39	105	73
5/4/2022	5	4	8	6	6	11	12	17	155	5	5	278	71	91	68
5/9/2022	6	6	7	9	11	21	22	36	326	8	9	460	120	169	116
5/16/2022	0	0	0	0	1	5	4	8	146	0	1	238	52	74	53
5/23/2022	0	0	0	0	1	4	5	14	150	0	0	229	55	93	56
5/31/2022	0	0	0	0	1	4	5	9	124	0	0	192	48	74	48
6/6/2022	0	0	0	0	4	7	7	8	130	0	0	177	63	101	63
6/13/2022	2	2	2	4	3	7	8	8	118	3	3	170	66	102	57
6/20/2022	2	2	2	3	4	6	6	13	125	4	4	175	48	67	38
7/11/2022	0	0	0	0	0	0	0	12	188	0	0	286	96	161	68
8/8/2022	0	0	0	0	0	5	7	16	273	0	0	334	114	188	90
9/12/2022	0	0	0	0	0	0	0	4	137	0	0	182	50	102	36
11/7/2022 *	0	0	0	0	1	3	4	11	102	0	0	121	33	62	29
11/14/2022 *	0	0	0	0	0	3	4	8	97	0	0	89	35	55	26
11/21/2022 *	2	2	2	2	3	4	5	9	85	4	3	80	25	43	17
11/28/2022 *	0	0	0	0	1	2	4	16	97	0	0	48	14	27	11
12/19/2022 *	0	0	0	0	1	1	3	6	84	0	2	51	16	29	11
12/27/2022 *	3	3	3	3	5	6	7	10	60	3	2	59	17	27	11
1/9/2023	0	0	0	0	0	0	0	5	31	0	0	49	10	18	8
2/1/2023 *	0	0	0	1	1	1	1	3	27	0	0	37	4	8	5

Figure 9. **Soil Vapor Monitoring Point Results**
December 17, 2021 - February 1, 2023
Adit 3 Tunnel and Pearl Harbor Tunnel

Notes
* denotes out-of-frequency sampling events that were conducted in response to a significant rain event that exceeded 1 inch in 24 hours. An additional follow-up sampling event is conducted 7 days after the initial event.

Scale
ppmv
862
650
550
450
350
250
150
50
0

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Field activities for NOI wells, delineation wells, sentinel wells, and Adit 3 Sump water sampling are presented in the following subsections. The sampling procedures and analyses conducted vary between sampling programs, as described in Sections 5.3.1 through 5.3.5.

5.3.1 NOI Groundwater Sampling

For the NOI sampling effort at DOH's request, monitoring wells with sampling zones that intersect the water table were sampled with a bailer without purging. However, several groundwater sampling locations are screened across confined portions of the aquifer, and therefore purging and sampling is conducted with a pump to ensure samples are representative of the screened interval.

The wells sampled with methods other than or in addition to a bailer include the following:

- OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, OWDFMW8A, RHMW12A, and RHMW16 are purged and sampled with a low-flow pump.
- RHMW11-05, RHMW13-05, RHMW14-03, and RHMW15-05 are multilevel wells and are sampled according to their standard operating procedures (SOPs).
- RHMW2254-01 is sampled with both a low-flow pump and a bailer.

NOI groundwater sampling was temporarily suspended during groundwater Quarterly Long-Term Monitoring as both programs address different project objectives. NOI groundwater sampling was suspended during December 5–16, 2022 for the Fourth Quarter groundwater long-term monitoring event, and during January 30–February 10, 2023 for the First Quarter groundwater long-term monitoring event. In addition, the NOI sampling frequency increased to twice a week for all wells sampled from October 17 through November 26, 2022 to monitor for groundwater impacts during unpacking activities.

Analyses were conducted for the following analytes, some of which are listed as site cleanup criteria in Hawai‘i Administrative Rules Section 11280.1-65.3:

- TPH-d and TPH-o
- TPH-g
- "Full suite" of VOCs
- "Full suite" of semivolatile organic compounds (SVOCs) (including N, 1MN, and 2MN)
- PAHs
- Total organic carbon (TOC)
- Methane
- Lead scavengers
- Total and dissolved lead

For those samples in which TPH-d and TPH-o were detected, the sample was extracted and analyzed again for TPH-d and TPH-o using silica gel cleanup (SGC) to quantify the amount of non-polar hydrocarbons compared to total (polar and non-polar) components in those carbon ranges. As described in the DOH *Technical Guidance Manual* (DOH 2021c), SGC can help evaluate whether TPH is related to fresh petroleum or other sources and can also be used to better understand the amount of natural degradation that is taking place in a particular location.

The first sampling event for well NMW24 was conducted on November 22, 2022 in accordance with the NOI sampling and analytical program, after which sampling was transitioned to the sentinel well program. The sentinel well program is described in Section 5.3.3.

The analyses for this reporting period were conducted by Eurofins Seattle. Eurofins Seattle is accredited under the DoD Environmental Laboratory Accreditation Program for the analyses performed.

5.3.2 Delineation Well Groundwater Sampling

Groundwater samples were collected from the six completed delineation wells during this reporting period: RHP01, RHP02, RHP03, RHP04A, RHP04B, and RHP05. Well locations are depicted on Figure 5. Each well was sampled using a low-flow pump twice a month for a minimum of 2 months after completion. Samples were analyzed for BTEX, TPH-g, TPH-d, TPH-o, N, 1MN, and 2MN. Initial sampling of each well also included analysis of natural attenuation parameters (NAPs) (alkalinity, bicarbonate alkalinity as calcium carbonate [$CaCO_3$], carbonate alkalinity as $CaCO_3$, nitrate as nitrogen, nitrate-nitrite as nitrogen, chloride, sulfate, methane, ferrous iron, and TOC). The analytical testing was conducted by Eurofins Seattle and its sister facilities in Arvada, Colorado, and Lancaster, Pennsylvania. The data obtained will be evaluated to determine future sampling requirements.

During the pipeline unpacking activities in late 2022, the delineation well sampling frequency increased to twice a week beginning on October 17, 2022 and continued at this frequency through November 26, 2022.

5.3.3 Sentinel Well Groundwater Sampling

Groundwater samples were collected from one completed sentinel well, NMW24, during this reporting period, beginning on November 22, 2022 following completion of well installation. The well location is depicted on Figure 1. The first sampling event for NMW24 was conducted on November 22, 2022 in accordance with the NOI sampling and analytical program (see Section 5.3.1), after which sampling was transitioned to the sentinel well program. Beginning on December 1, 2022, the well was sampled once per week with a bailer without purging; samples were analyzed for BTEX, TPH-g, TPH-d, TPH-o, N, 1MN, 2MN, and NAPs. The analytical testing was conducted by Eurofins Seattle and its sister facility in Arvada, Colorado. The data obtained will be evaluated to determine future sampling requirements.

5.3.4 Adit 3 and Pearl Harbor Tunnel Temporary Well Sampling

The seven temporary wells installed in September 2022 as part of the LNAPL site characterization effort (described in Section 3.3.2) were sampled on September 12, 2022 and analyzed for TPH-g, TPH-d, TPH-o; 1MN, 2MN, and N; and BTEX. These wells were not sampled during the current reporting period. Details and results to date were presented in an *In-Progress Adit 3 Site Characterization Technical Memorandum* (DON 2023e).

5.3.5 Adit 3 Sump Water Sampling

The Adit 3 Sump was sampled with a bailer. The samples were analyzed for the same parameters as the NOI groundwater samples as described in Section 5.3.1. The analyses for this reporting period were conducted by Eurofins Seattle. Eurofins Seattle is accredited under the DoD Environmental Laboratory Accreditation Program for the analyses performed. Details and results to date were presented in an *In-Progress Adit 3 Site Characterization Technical Memorandum* (DON 2023e).

5.4 Soil Sampling

No soil sampling was conducted during the current reporting period.

6.0 Sample Control Procedures

Prior to sampling, the field team inspected all supplies and consumables to ensure that they were acceptable for use. Sampling and sample handling procedures were designed to ensure that samples were consistently collected, labeled, preserved, and transported in a manner that maintained their integrity for their intended purposes.

6.1 Sample Containers and Preservation

Sample container, preservative, and holding time requirements for NOI, delineation well, and site characterization groundwater and soil (unconsolidated material) are listed in Table 4 and Table 5, respectively. The samples were preserved as indicated and analyzed within the required holding times. The containers, preservatives, and holding times are specified in the respective EPA or SW-846 methods.

Table 4: Groundwater Sample Containers, Preservatives, and Holding Times

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
VOCs			
VOCs, Benzene, Toluene, Ethylbenzene, Total Xylenes	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with H_2SO_4, HCl, or solid $NaHSO_4$	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
TPH			
TPH-g	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
TPH-d, TPH-o (without and with SGC)	2 × 1-L amber glass, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with HCl or H_2SO_4	14 days / 40 days [a]
TPH-d, Saturated Hydrocarbons Whole Oil Analysis (Product)	2 × 40-mL vials, hard top, Teflon-lined caps	Cool to ≤4°C	N/A
SVOCs, PAHs			
Full list SVOCs, including 1MN, 2MN, N, and PAHs	2 × 1-L amber glass, Teflon-lined lid	Cool to ≤6°C	7 days / 40 days [a]
Fuel Additives			
2-(2-Methoxyethoxy)-ethanol	2 × 1-L amber glass, Teflon-lined lid	Cool to ≤6°C	7 days / 40 days [a]
Lead Scavengers			
1,2-Dibromoethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C	7 days
1,2-Dichloroethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with H_2SO_4, HCl, or solid $NaHSO_4$	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Natural Attenuation Parameters			
Methane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl or H_2SO_4	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Ferrous iron	2 × 250-mL brown plastic	Field filtered, no headspace, cool to ≤6°C, HCl to pH <2	7 days
Chloride, sulfate, nitrate	1 × 250 mL plastic	Cool to ≤6°C	28 days (nitrate 48 hours)
Nitrate-nitrite	1 × 250 mL plastic	Cool to ≤6°C, H_2SO_4 to pH <2	28 days

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
Total Organic Carbon			
Total Organic Carbon	3 × 40-mL amber VOA vials, Teflon-lined lid or 2 × 250-mL amber glass, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with H_2SO_4 or H_3PO_4	28 days
Metals			
Total and Dissolved Lead	2 × 250-mL HDPE containers	Cool to ≤6°C and adjust to pH <2 with HNO_3	180 days
Ethanol			
2-(2-Butoxyethoxy) ethanol	2 × 40-mL VOA vials w/ HCl, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	14 days

°C degree Celsius
H_2SO_4 sulfuric acid
H_3PO_4 phosphoric acid
HCl hydrochloric acid
HDPE high-density polyethylene
HNO_3 nitric acid
L liter
mL milliliter
N/A not applicable, holding times not provided
$NaHSO_4$ sodium hydrogen sulfate
VOA volatile organic analysis

[a] *x* days / *y* days = *x* days from sample collection to extraction / *y* days for analysis of extracts following extraction

Table 5: Soil Sample Containers (Unconsolidated Material), Preservatives, and Holding Times

Parameter	Number/Type of Containers per Sample	Preservative	Holding Time
TPH-g, VOCs			
TPH-g, Benzene, Toluene, Ethylbenzene, Total Xylenes	2 × 10-mL water-preserved with magnetic stir bar; 1 × 5-mL methanol-preserved; Teflon-lined septum caps	Cool to 6°C or frozen at -7°C	Samples shipped at 6°C must be received by laboratory within 48 hours and frozen upon receipt; samples frozen must be analyzed within 14 days
TPH			
TPH-d, TPH-o	1 × 8-oz. glass jar, Teflon-lined lid	Cool to 6°C or frozen at -7°C	14 days / 40 days [a]
PAHs			
1MN, 2MN, N	1 × 8-oz. glass jar, Teflon-lined lid	Cool to 6°C or frozen at -7°C	14 days / 40 days [a]

°C degree Celsius
mL milliliter
oz. ounce
[a] *x* days / *y* days = *x* days from sample collection to extraction / *y* days for analysis of extracts following extraction

6.2 Chain of Custody

Chain-of-custody documentation was maintained for samples during all phases of sample collection, transport, and receipt and internal transfer within the laboratory.

6.3 Laboratory Analytical Methods

Groundwater samples were analyzed for the analytes specified in Section 5.3 using the following tests and analytical methods:

- TPH-d and TPH-o by Method 8015, including 3510 extraction
- TPH-g by Method 8260 or 8015
- VOCs by Method 8260
- SVOCs (including N, 1MN, and 2MN) by Method 8270
- PAHs by Method 8270 with SIM
- TOC by Method 9060A
- Methane by Method 8015 or RSK-175
- Lead scavengers by Methods 8011 and 8260

- Total and dissolved lead by Method 6020
- Ferrous iron by Standard Method 3500-Fe
- Anions (nitrate as nitrogen, sulfate, and chloride) by EPA Method 300.0
- Nitrate-nitrite as nitrogen by EPA Method 353.2
- Alkalinity (total, bicarbonate, and carbonate) by SM2320B

7.0 Field Observations during Sampling

Field observations made during the NOI soil vapor and groundwater sampling activities this reporting period are described below.

7.1 Soil Vapor Monitoring Observations

During this reporting period, NOI soil vapor monitoring was conducted weekly at the below-tank SVMPs and monthly plus additional out-of-frequency monitoring at the subslab and shallow SVMPs installed in the tunnel system by Adit 3 near Red Hill Shaft (see Section 5.1).

Three Adit 3 subslab SVMPs (A3-075, A3-125, and A3-225) have been consistently poor vapor producers, with sampling results designated as "tight" to indicate vacuum is pulled when sampling and readings could not be obtained potentially due to low-permeability soil directly underneath the tunnel floor.

7.2 Free Product Gauging and Groundwater Monitoring Well Headspace Observations

A summary of free product gauging and groundwater monitoring well headspace measurements is provided in Appendix B.2. No free product was observed during the reporting period in any groundwater monitoring well during any sampling event, regardless of the detection method used (either oil/water interface probe or bailer). RHMW12A, RHMW16, OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, and OWDFMW08A have submerged well screens. RHMW11, RHMW13, RHMW14, and RHMW15 are closed systems with sampling ports below the water level surface. Free product would likely not be able to enter these wells, and field checks verified that free product was not present in the samples from these wells.

Groundwater monitoring well headspace concentrations were generally low. The maximum headspace reading was reported at OWDFMW01, for which a headspace PID reading of 5.3 parts per million by volume (ppmv) was recorded on November 18, 2022. No free product was detected, and no odor was observed. All other readings were 1.7 ppmv or less and occurred only occasionally throughout the reporting period.

For delineation wells installed in the vicinity of Red Hill Shaft, headspace readings were generally 0.0 ppmv with some occasional readings of 0.3 ppmv or less. One well (RHP04B) had more than one reading above 0.0 ppmv, with measurements of 0.3 ppmv recorded on December 23, 2022 and January 13, 2023.

Headspace readings at sentinel well NMW24 were generally 0.0 ppmv, with one measurable reading of 0.1 ppmv on December 22, 2022.

Adit 3 Site Characterization Activities. Headspace measurements and groundwater levels were collected weekly from borings associated with the LNAPL site characterization effort following the boring and temporary well installation conducted between July 13 and September 19, 2022 (see Section 5.3.2). Results will be reported in a forthcoming Adit 3 and Pearl Harbor Tunnel Area technical memorandum.

7.3 Groundwater Sampling Observations

The following observations were made during NOI groundwater sampling this reporting period:

- An organic odor was noted during most sampling events at RHMW02. Suspended flocculants were observed in most bailer pulls at RHMW02.
- Organic odors were noted intermittently at RHMW03.
- An unknown chemical odor was noted intermittently at RHMW2254-01.
- A decaying organic odor was noted at RHMW11 during most sampling events.

8.0 Data Quality

Field and laboratory QC measures are described below. When applicable, corrective actions were implemented when control limits for field or laboratory QC measurements were not met.

8.1 Laboratory Quality Control

The following laboratory QC samples for soil vapor Summa canisters and groundwater samples were collected and analyzed.

8.1.1 Soil Vapor Samples

Laboratory QC samples included method blank, laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) analyses.

8.1.2 Groundwater Samples

Laboratory QC samples included method blanks, LCSs/LCSDs, matrix spikes/matrix spike duplicates (MSs/MSDs), and duplicates, as described in the DoD *Quality Systems Manual Version 5.4* (DoD and DOE 2021) and the AOC *Red Hill Sampling and Analysis Plan Addendum 01* (DON 2017d).

8.2 Field Quality Control

Field QC samples for groundwater including trip blanks and equipment rinsates were collected according to procedures described in NAVFAC Pacific Environmental Restoration Program Project Procedure III-B, *Field QC Samples* (Water, Soil) (DON 2015). Field QC samples are listed in Table 6.

Table 6: Measurement Performance Criteria – Field QC Samples

QC Sample	Analytical Group [a]	Frequency [b]	DQI	Measurement Performance Criteria
Field duplicate	VOCs, TPH-g, TPH-d, TPH-o, PAHs, SVOCs	10% of primary samples collected per matrix per analytical method	Field sampling precision	RPD ≤50% water [c]
Trip blank	VOCs, TPH-g, methane, lead scavengers	At minimum, one per cooler containing VOCs, TPH-g, methane, or lead scavenger samples	Contamination during sample transport	≤1/2 of LOQ
Non-Program Required Field QC				
Field blank	PAHs, SVOCs, VOCs	1–2 per week; evaluate decontamination water	Adequacy of the decontamination water quality or potential for contamination due to field conditions	≤1/2 of LOQ
Equipment blank [d]	PAHs, SVOCs	2–4 per week	Adequacy of the decontamination process	≤1/2 of LOQ

% percent
DQI data quality indicator
LOQ limit of quantitation
RPD relative percent difference
[a] See Section 6.0 for the list of analytes within analytical groups.
[b] Per Project Procedures Manual Procedure III-B, Field QC Samples (DON 2015); see Procedure III-B, Section 5 for a summary of QC samples by project location, matrix, and analytical group.
[c] Per Project Procedures Manual Section II, *Data Validation Procedures* (DON 2015).
[d] As all monitoring locations have dedicated bladder pumps and dedicated bailers, no reusable sampling equipment is used; thus, equipment blank was collected as necessary.

In addition, unexpected detections of phthalate and PAH compounds were observed in the data set, and collection of extra field blanks and equipment blanks was added for PAHs and SVOCs beginning the week of March 7, 2022. Field blanks were collected by pouring decontamination water directly into the sample bottles, and equipment blanks were collected by pouring decontamination water over the water level indicator and collecting the rinsate into sample bottles.

8.3 Data Quality Assessment

The objective of data validation is to provide data of known quality for project decisions. Data quality is judged in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity. The analytical laboratory data for the groundwater sampling events were submitted

to a third-party data validator, ESI (Environmental Standards, Inc.) or EDS (Environmental Data Services, Ltd.), for data validation and assessment. Validated data for this reporting period that are pending will be provided in the next Quarterly RRR. The following summary includes results from previous reporting periods that completed full data validation during this reporting period.

8.3.1 Precision

Precision is defined as the reproducibility of replicate measurements. Precision is evaluated by the relative percent difference (RPD) of field duplicates (FD), LCS/LCSD, MS/MSD, and laboratory duplicate results. Field duplicate and MS/MSD samples were collected at a rate of approximately 10 percent of primary samples. Field duplicates were sent to the laboratory along with the primary samples.

The following exceptions to sample RPDs meeting the measurement performance criterion were reported during data validation:

- October 17 and November 11, 2022: Results for N, 1MN, and 2MN at RHP03 and RHP04A, TPH-d at RHP04A and RHP04B, and TPH-o at RHP04B were flagged as estimated (J) due to high RPDs between the LCS and LCS duplicate.
- November 7, 2022: Dissolved lead non-detect results for RHMW14-03 and RHMW13-05 were flagged with an estimated value (UJ), Total lead detected results for RHMW09, RHMW12A, RHMW19, and RHMW13-05 and dissolved lead detected results for RHMW16, RHMW09, RHMW12A, and RHMW19 were qualified as estimated with low bias (J-) due to significant negative instrument bias observed in the instrument and method blank.

8.3.2 Accuracy

Accuracy is defined as the degree of conformity of a measurement to a standard or true value. Accuracy is evaluated through measurement of the percent recovery (%R) of an analyte in a reference standard or spiked sample. Accuracy also encompasses the percent difference (%D) between the initial calibration verification and the continuing calibration verification. Accuracy limits for internal standards, surrogates, LCS, MS, and MSD samples are either prescribed by the DoD or established by the individual laboratory. The acceptance criteria for accuracy are dependent on the analytical method and based on historical laboratory or DoD data. The following data were outside QC limits:

- October 21, 2022: N, 1MN, and 2MN results for RHP02 were rejected (R) due to surrogate recoveries below the lowest acceptance limit.
- October 21 and November 19, 2022: Non-detect BTEX results for RHP01 and RHP02 were flagged as estimated (UJ) due to internal standard responses outside the acceptance range.
- November 8 and 14, 2022: Pyridine results for OWDFMW04A, OWDFMW04A FD, OWDFMW05A, OWDFMW07A, OWDFMW08A, OWDFMW08A FD, RHMW04,

RHMW04 FD, RHMW08, RHMW13-05, and RHMW15-05 were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit.

- November 11, 2022: Chloride and sulfate results for RHP04B were flagged as estimated with a low bias (J-) due to matrix spike recoveries below the acceptance limits.
- November 11–28, 2022: 4-nitrophenol results for multiple monitoring wells and Adit 3 Sump were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit.
- November 11 and 22, 2022: All SVOC acid results for OWDFMW08A FD and RHMW05 were flagged to recommend exclusion of the data (R) since surrogate %Rs recovered lower than the lowest acceptance limit.
- November 14, 2022: Chrysene MS/MSD %Rs for RHMW04 and RHMW04 FD recovered lower than the acceptance limit; non-detect results were flagged as estimated (UJ).
- November 15, 2022: N, 1MN, and 2MN results for RHP01 were flagged as estimated (UJ) due to low surrogate recoveries.
- November 18 and 19, 2022: Non-detect BTEX results for RHP04B and RHP02 were flagged as estimated (UJ) due to low surrogate recoveries.
- November 18, 19, 21, and 22, 2022: TPH-g surrogate %Rs for OWDFMW01, OWDFMW05A, OWDFMW07A; SVOC acid compounds for OWDFMW07A and RHMW13-05; and TPH-g for RHMW04, RHMW04 FD, and RHMW06 recovered lower than the acceptance limit; non-detect results were flagged as estimated (UJ).
- November 19, 2022: 4-nitrophenol and pyridine MS/MSD %Rs for RHMW08 recovered lower than the acceptance limit; non-detect results were flagged as estimated (UJ).
- November 22, 2022: All SVOC acid results for OWDFMW08A FD were flagged to recommend exclusion of the data (R) since surrogate %Rs recovered lower than the lowest acceptance limit.
- November 22, 2022: All dissolved lead results for Adit 3 Sump, RHMW01R, RHMW02, RHMW05, RHMW12A, RHMW13-05 %Rs recovered higher than the acceptance limit; detected results has been flagged estimated (J).
- November 22, 2022: TPH-g internal standard area counts for RHMW03, RHMW15-05, RHMW17, and RHMW2254-01 (bailer) recovered lower than the acceptance limit; non-detect results were flagged as estimated (UJ).
- November 30, 2022: 4-nitrophenol and 4,6-dinitro-2-methylphenol results for RHMW02, RHMW03, RHMW04, RHMW04 FD, and RHMW06 were flagged to recommend exclusion of the data (R) since LCS/LCSD %Rs recovered lower than the lowest acceptance limit.

- November 30, 2022: Base/neutral SVOC non-detect results for RHMW02 were flagged as estimated (UJ), and 4-chlorophenyl phenyl ether detected results were flagged as estimated low (J-) due to low surrogate %Rs

Absence of headspace ensured that results for TPH-g, full suite VOCs, lead scavengers, and methane were not subjected to VOC loss. During this reporting period, non-detect methane results for monitoring well OWDFMW07A was flagged as estimated (UJ), and detected results for OWDFMW05A was flagged as estimated low (J-) due to significant headspace (>6 millimeters).

Data associated with poor recoveries of QC samples, or high opening or closing continuing calibration verification (CCV) %Ds were flagged as not-detected (UJ) with an estimate value for two sampling events for TPH-g, along with multiple full list VOC and SVOC compounds:

- November 9, 19, and 22, 2022: Non-detect TPH-g results for RHP04B, RHP01, and RHP02 were flagged as estimated (UJ) due to CCV %Ds above the acceptance limit.
- November 11 and December 9, 2022: TOC results for RHP04B and NMW24 were flagged as estimated (J) due to CCV %Ds above the acceptance limit.
- November 18 and 22, 2022: TPH-g non-detect results were flagged with an estimated value (UJ) for OWDFMW01, OWDFMW05A, OWDFMW07A, RHMW04, RHMW04 FD, and RHMW12A.
- VOC compounds including 1,1,2,2-tetrachloroethane, 2-butanone, dichlorodifluoromethane, and trichlorofluoromethane were flagged with an estimated value (UJ) for multiple monitoring wells and Adit 3 Sump due to high CCV %Ds and decreasing instrument sensitivity.
- Multiple SVOC compounds were qualified with an estimated value (UJ) for multiple monitoring wells and Adit 3 Sump: 2,2'-oxybis(1-chloropropane), 3,3'-dichlorobenzidine, hexachlorocyclopentadiene, 2,4-dimethylphenol, 2,4-dinitrophenol, 4,6-dinitro-2-methylphenol, di-n-octyl phthalate, bis(2-ethylhexyl) phthalate, nitrobenzene, isophorone, and 4-nitrophenol.

Additionally, sample results from monitoring wells RHMW09, RHMW12A, RHMW13-05, RHMW14-03, RHMW16, and RHMW19 were recommended for exclusion due to very low %Rs or high CCV %Ds in associated QC samples for VOC compounds, such as dichlorodifluoromethane.

Additionally, sample results for multiple monitoring wells and Adit 3 Sump were recommended for exclusion due to very low %Rs or high CCV %Ds in associated QC samples for SVOC compounds 2,4-dinitrophenol and 4,6-dinitro-2-methylphenol.

SVOC compounds are subject to high variability, particularly if the instrument is contaminated with high-boiling-point compounds. Pyridine can also undergo loss during sample preparation. Additionally, compounds such as n-nitrosodimethylamine distribute poorly into the extraction

solvent, particularly with Method 3510. Poor recoveries may also indicate that the matrix is suppressing the signal.

No other accuracy concerns identified during validation affected the sample results. A summary table of SVOC results with validation qualifiers for groundwater samples collected during the current reporting period is provided in Appendix B.4.3.

8.3.3 Representativeness

Representativeness is the degree to which data accurately and precisely represent a characteristic of a population, parameter variations at a sampling point, or an environmental condition. Representativeness can be supported by using regulator-approved, industry-standard sampling and analysis protocols that were developed to address a specific data quality objective of the sampled medium.

During the NOI sampling rounds for this quarter:

- Groundwater samples were collected in accordance with procedures described in the DOH-approved AOC Statement of Work Sections 6 and 7, Work Plan/Scope of Work (DON 2017a) and the associated project Sampling and Analysis Plan and addenda (DON 2017b; 2017c; 2017d), including standardized sample collection methods identified in NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, Monitoring Well Sampling (DON 2015):
  - This procedure outlines collection of groundwater samples from a specific depth directly beneath the water table using a low-flow pumping strategy. Samples consist generally of dissolved constituents within the aquifer; the samples will not collect LNAPL or compounds in the LNAPL/groundwater interface (if one existed).
  - Results from these samples represent groundwater from one depth, below the water table.
- Groundwater samples from wells that are screened across the water table were collected with a bailer, based on DOH's request:[1]
  - Sampling with a bailer was requested to collect water at the groundwater/air interface along with any potential LNAPL that may be present. Sampling with a bailer may introduce air and turbulence to the sample, which may volatilize VOCs in the groundwater matrix. The bailer technique is also less repeatable and therefore adds a degree of variability into the results, which may be less representative of actual conditions at the water table.
  - In addition, DOH requested no purging be associated with this method; therefore, the methodology is likely to be affected by any localized equilibrium within the well and filter pack, and the results may not represent water flowing through the aquifer.

[1] Email from L. Galvez, DOH-HEER, to S. Eng, Navy Region Hawaii; May 28, 2021.

– This methodology is contrary to the DOH TGM (DOH 2021c), which "recommends that low-flow purging and sampling approaches be utilized whenever feasible in order to improve the representativeness of the sample data."

Samples were collected at RHMW2254-01 using both a bailer and low-flow pump. The results are presented in Appendix B.4, and TPH-d and TPH-o data are summarized in Table 7. As shown in the table, both bailer and low-flow samples for this reporting period were not detected for TPH-d and TPH-o. Previous Quarterly RRRs with TPH-d and TPH-o detected results indicated that the bailer sampling methodology resulted in higher reported concentrations, particularly in the TPH-o analyses. The DOH TGM (DOH 2021c) states that the low-flow sampling results after purging are more "representative of water in the surrounding [aquifer] formation."

Table 7: Comparison of TPH-d and TPH-o Results at RHMW2254-01 – Bailer vs. Low-Flow Pump SOPs

Sample Date	TPH-d (µg/L)			TPH-o (µg/L)		
	Bailer	Low-Flow Pump	RPD (%)	Bailer	Low-Flow Pump	RPD (%)
11/22/2022	100 U	100 U	—	300 U	310 U	—

Notes:
Bold indicates detected results above the detection limit.

—	not calculable due to non-detect result
%	percent
µg/L	micrograms per liter
J	estimated concentration
N/A	not applicable
RPD	relative percent difference
SOP	standard operating procedure
U	not detected above the detection limit

During the delineation well sampling rounds for this quarter, groundwater samples were collected in accordance with standardized sample collection methods identified in NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, *Monitoring Well Sampling* (DON 2015):

- This procedure outlines collection of groundwater samples from a specific depth directly beneath the water table using a low-flow pumping strategy. Samples consist generally of dissolved constituents within the aquifer; the samples will not collect LNAPL or compounds in the LNAPL/groundwater interface (if one existed). However, visual checks and oil/water interface measurements indicate that no LNAPL was present when these wells were sampled.
- Results from these samples represent groundwater from one depth, below the water table.

The sentinel well (NMW24) sampling was conducted using a bailer without purging the well, similar to the procedure used for NOI wells screened across the water table. The bailer technique

is less repeatable and therefore adds a degree of variability into the results, which may be less representative of actual conditions at the water table. Sampling without purging is likely to be affected by any localized equilibrium within the well and filter pack, and the results may not represent water flowing through the aquifer.

Representativeness is also evaluated through compliance with the method-recommended sample holding time and sample preservation methods and through the analysis of blank samples, including method blank, equipment blank, field blank, and trip blank samples (DoD 2021). All sample holding times, sample preservation, and any impacts of associated blank contamination have been evaluated in accordance with EPA SW-846 method recommendations and DoD *Quality Systems Manual Version 5.4* (DoD and DOE 2021) during validation. The following detected sampling results were reported below the limit of detection (LOD) and were qualified as not detected (U) at the LOD due to field, equipment, or trip blank contamination:

- Total xylene and o-xylene: Three collection events for OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW08A, OWDFMW08A FD, RHMW04, RHMW04 FD, RHMW06, RHMW08, RHMW09, RHMW11-05, RHMW13-05, RHMW15-05 and RHMW19
- Chloromethane: One collection event for OWDFMW08A
- Total lead: Five collection events for OWDFMW05A, OWDFMW07A, RHMW01R, RHMW11-05, RHMW13-05, RHMW14-03, RHMW15-05, RHMW17, and RHMW2254-01 (bailer)
- Dissolved lead: One collection event for OWDFMW07A, OWDFMW08A, and RHMW15-05
- Total organic carbon: One collection event for OWDFMW01
- Trichloroethene: One collection event for RHMW06

The following detected results reported above the LOD and less than or equal to five times the blank contamination, were flagged as estimated, bias high (J+) due to field, equipment, or trip blank contamination:

- Total lead: Two collection events for OWDFMW04A, OWDFMW08A, and RHMW04
- Dissolved lead: One collection event for RHMW02

In addition, for one sampling event, total and dissolved lead detected results for RHMW09 were flagged as estimated, biased low (J-) due to a negative instrument bias observed in the instrument blank analyses.

Pending validation, detections in the field blanks and equipment blanks are summarized to aid in discussion of the analytical results. Field blank and equipment blank detections with final results are shown in Table 8.

Table 8: VOC/PAH/SVOC Field Blank and Equipment Blank Final Results

SDG	Client Sample ID	Sample Type	Sampling Date	Test Method	Analyte Name	CAS	Validated Result	Qualifier	LOQ	LOD	DL	Unit
5801198041	RHMW12A-FB01LF-2211WK1	AB	11-7-2022 8:45:00 AM	SW8260D	Chloromethane	74-87-3	**0.15**	**J**	0.5	0.35	0.14	µg/L
5801199191	OWDFMW08A-EB01LF-2211WK1	EB	11-8-2022 1:31:00 PM	SW8260D	Chloromethane	74-87-3	**0.2**	**J**	0.5	0.35	0.14	µg/L
5801199191	OWDFMW08A-EB01LF-2211WK1	EB	11-8-2022 1:31:00 PM	SW8260D	o-Xylene	95-47-6	**0.18**	**J**	0.5	0.35	0.15	µg/L
5801199191	OWDFMW08A-EB01LF-2211WK1	EB	11-8-2022 1:31:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.18**	**J**	0.5	0.35	0.15	µg/L
5801200221	OWDFMW07A-FB01LF-2211WK2	AB	11-14-2022 9:20:00 AM	SW8270E	di-n-Octyl phthalate	117-84-0	**0.48**	**J**	0.95	0.28	0.12	µg/L
5801200901	OWDFMW08A-EB01LF-2211WK2	EB	11-14-2022 1:35:00 PM	SW8260D	Chloromethane	74-87-3	**0.27**	**J**	0.5	0.35	0.14	µg/L
5801200901	OWDFMW08A-EB01LF-2211WK2	EB	11-14-2022 1:35:00 PM	SW8260D	o-Xylene	95-47-6	**0.17**	**J**	0.5	0.35	0.15	µg/L
5801200901	OWDFMW08A-EB01LF-2211WK2	EB	11-14-2022 1:35:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.17**	**J**	0.5	0.35	0.15	µg/L
5801200731	RHMW12A-FB01LF-2211WK2	AB	11-15-2022 8:05:00 AM	SW8260D	Chloromethane	74-87-3	**0.24**	**J**	0.5	0.35	0.14	µg/L
5801200731	RHMW2254-01-FB01B-2211WK2	AB	2022-11-15 8:55	SW8260D	Chloromethane	74-87-3	**0.19**	**J**	0.5	0.35	0.14	µg/L
5801200731	ADIT3-SUMP-EB01B-2211WK2	EB	11-15-2022 9:30:00 AM	SW8260D	Chloromethane	74-87-3	**0.14**	**J**	0.5	0.35	0.14	µg/L
5801200731	ADIT3-SUMP-FB01B-2211WK2	AB	11-15-2022 10:20:00 AM	SW8260D	Chloromethane	74-87-3	**0.21**	**J**	0.5	0.35	0.14	µg/L
5801200731	RHMW14-03-FB01G-2211WK2	AB	11-15-2022 10:35:00 AM	SW8260D	Chloromethane	74-87-3	**0.33**	**J**	0.5	0.35	0.14	µg/L
5801199191	LABQC	LB	11-16-2022 7:11:00 PM	SW8260D	o-Xylene	95-47-6	**0.179**	**J**	0.5	0.35	0.15	µg/L
5801199191	LABQC	LB	11-16-2022 7:11:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.179**	**J**	0.5	0.35	0.15	µg/L
5801200061	LABQC	LB	11-22-2022 2:24:00 AM	SW8260D	o-Xylene	95-47-6	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801200061	LABQC	LB	11-22-2022 2:24:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801200221	LABQC	LB	11-22-2022 2:24:00 AM	SW8260D	o-Xylene	95-47-6	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801200221	LABQC	LB	11-22-2022 2:24:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801200731	LABQC	LB	11-22-2022 9:23:00 AM	SW8270E	Benzyl butyl phthalate	85-68-7	**0.473**	**J**	4	0.6	0.27	µg/L
5801200061	LABQC	LB	2022-11-22 14:39	SW8260D	Xylenes, Total	1330-20-7	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200061	LABQC	LB	11-22-2022 2:39:00 PM	SW8260D	o-Xylene	95-47-6	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200221	LABQC	LB	11-22-2022 2:39:00 PM	SW8260D	o-Xylene	95-47-6	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200221	LABQC	LB	11-22-2022 2:39:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200901	LABQC	LB	11-22-2022 2:39:00 PM	SW8260D	o-Xylene	95-47-6	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200901	LABQC	LB	11-22-2022 2:39:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.176**	**J**	0.5	0.35	0.15	µg/L
5801200731	LABQC	LB	11-23-2022 2:59:00 AM	SW8260D	o-Xylene	95-47-6	**0.177**	**J**	0.5	0.35	0.15	µg/L
5801200731	LABQC	LB	11-23-2022 2:59:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.177**	**J**	0.5	0.35	0.15	µg/L
5801200901	LABQC	LB	11-23-2022 2:59:00 AM	SW8260D	o-Xylene	95-47-6	**0.177**	**J**	0.5	0.35	0.15	µg/L
5801200901	LABQC	LB	11-23-2022 2:59:00 AM	SW8260D	Xylenes, Total	1330-20-7	**0.177**	**J**	0.5	0.35	0.15	µg/L
5801203111	LABQC	LB	11-23-2022 8:48:00 AM	SW8270E	Bis(2-ethylhexyl)phthalate	117-81-7	**7.61**	—	3	1.6	0.74	µg/L
5801200731	LABQC	LB	11-23-2022 2:43:00 PM	SW8260D	o-Xylene	95-47-6	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801200731	LABQC	LB	11-23-2022 2:43:00 PM	SW8260D	Xylenes, Total	1330-20-7	**0.175**	**J**	0.5	0.35	0.15	µg/L
5801204901	OWDFMW07A-EB01LF-2211WK4	EB	11-28-2022 10:00:00 AM	BNASIME	Naphthalene	91-20-3	**0.066**	**J**	0.096	0.077	0.03	µg/L
5801202431	LABQC	LB	11-30-2022 7:41:00 PM	SW8260D	Styrene	100-42-5	**0.257**	**J**	1	0.5	0.19	µg/L
5801204052	LABQC	LB	12-1-2022 7:14:00 AM	SW8260D	Styrene	100-42-5	**0.256**	**J**	1	0.5	0.19	µg/L
5801202431	LABQC	LB	12-1-2022 7:14:00 AM	SW8260D	Styrene	100-42-5	**0.256**	**J**	1	0.5	0.19	µg/L
5801204051	LABQC	LB	12-1-2022 7:14:00 AM	SW8260D	Styrene	100-42-5	**0.256**	**J**	1	0.5	0.19	µg/L
5801202431	LABQC	LB	12-1-2022 6:43:00 PM	SW8260D	Styrene	100-42-5	**0.255**	**J**	1	0.5	0.19	µg/L
5801203111	LABQC	LB	12-1-2022 6:43:00 PM	SW8260D	Styrene	100-42-5	**0.255**	**J**	1	0.5	0.19	µg/L
5801206781	LABQC	LB	12-8-2022 10:12:00 AM	SW8260D	Trichloroethene (TCE)	79-01-6	**0.0673**	**J**	0.2	0.15	0.066	µg/L
5801207031	LABQC	LB	12-8-2022 10:12:00 AM	SW8260D	Trichloroethene (TCE)	79-01-6	**0.0673**	**J**	0.2	0.15	0.066	µg/L
5801204101	LABQC	LB	12-29-2022 12:28:00 PM	BNASIME	Naphthalene	91-20-3	**0.0441**	**J**	0.1	0.08	0.031	µg/L
5801204381	LABQC	LB	12-29-2022 12:28:00 PM	BNASIME	Naphthalene	91-20-3	**0.0441**	**J**	0.1	0.08	0.031	µg/L

Note: **Bold** indicates detected results above the detection limit.

AB ambient blank
CAS Chemical Abstracts Service
EB equipment blank
FB field blank
GW groundwater
ID identification
J estimated: the analyte was positively identified; the quantitation is an estimation
LB lab blank
ND not detected
µg/L microgram per Liter

All samples were associated with laboratory calibration, preparation, or extraction blanks. The following detected sampling result was reported below the LOD and were qualified as not detected (U) at the LOD due to laboratory calibration, preparation, or extraction blank contamination:

- Nitrate-nitrite: Results for the RHP04B field duplicate collected November 9, 2022 and the RHP04B primary sample collected November 11, 2022

The following detected sampling result reported above the LOD and less than or equal to five times the blank contamination was flagged as estimated with a high bias (J+) due to laboratory calibration, preparation, or extraction blank contamination:

- Nitrate-nitrite: Result for RHP04B collected November 9, 2022

The following sampling results were flagged as estimated for the specified methods due to samples being extracted or analyzed beyond the method-recommended holding times:

- November 7, 14, and 18, 2022: Non-detect results for TPH-d/o were qualified as estimated (UJ) for OWDFMW04A FD, RHMW11-05, and RHMW13-05 due to extraction beyond the 7-day holding time.
- November 9, 2022: Ferrous iron results for RHP04B and RHP04B field duplicate were flagged as estimated (J) due to analysis beyond the 7-day holding time.
- November 11, 2022: Non-detect TPH-g, TPH-d, TPH-o, and BTEX results for RHP03 were flagged as estimated (UJ) due to extraction or analysis beyond the 14-day holding time.
- November 14, 2022: The non-detect result for pentachlorophenol was qualified as estimated (UJ) for the RHMW19 sample due to extraction beyond the 7-day holding time to confirm a false positive due to laboratory cross contamination.
- November 16 and 22 and December 9, 2022: Non-detect TPH-d and TPH-o results for RHP04A, RHP02, and NMW24 were flagged as estimated (UJ) due to extraction beyond the 14-day holding time.
- November 18 and 19, 2022: Non-detect results for TPH-g was qualified as estimated (UJ) for OWDFMW01, OWDFMW05A, OWDFMW07A, and RHMW16 due to sample extraction occurring beyond the 14-day holding time.
- November 19–21, 2022: Non-detect results for 1,2,3-trichloropropane from Adit 3 Sump and ethylene dibromide from OWDFMW01, OWDFMW07A, RHMW04, RHMW06, RHMW08, RHMW19, and Adit 3 Sump were qualified as estimated (UJ) due to sample extraction occurring beyond the 14-day holding time.
- November 20, 2022: The non-detect THP-g result for RHP03 was flagged as estimated (UJ) due to analysis beyond the 14-day holding time.

- December 9, 2022: The nitrate result for NMW24 was flagged as estimated with a low bias (J-) due to analysis beyond the 48-hour holding time.

No other representativeness concerns were identified during validation of the sample results.

8.3.4 Completeness

Completeness is defined as the overall percentage of valid analytical results (including estimated results) compared to the total number of analytical results reported by the analytical laboratory.

Validated data provided during the reporting period were not rejected and did not cause a data gap for the sampling events. The completeness of the data (99 percent) met the 90 percent completeness goal.

8.3.5 Comparability

Comparability expresses the confidence with which one data set can be compared to another. Comparability can be related to accuracy and precision because these quantities are measures of data reliability. Data with acceptable precision and accuracy are considered comparable if collection techniques, analytical procedures, methods, and reporting are equivalent.

The laboratories used standard analytical methods for all analyses. In all cases, the detection limits and LODs attained were below the specified limits of quantitation (LOQs). Target analytes detected below the LOQs flagged (J) by the laboratory are considered estimated. The data presented can be compared to and evaluated against regulatory standards as required for this report.

8.3.6 Sensitivity

The LOQs are established by the laboratory based on the LODs or instrument detection limits and limits established for the various methods. The LOQs and LODs for samples may require adjustment by the laboratory due to matrix interference or when high levels of target analytes necessitate dilution before analysis. Matrix interference and sample dilutions decrease sensitivity and increase the LOQs/LODs. No results in this data set had increased LOQs or LODs that impacted sensitivity and data usability.

8.4 Conclusions

The precision, accuracy, representativeness, comparability, completeness, and sensitivity criteria are being evaluated by Environmental Standards, Inc. in Valley Forge, Pennsylvania, and Environmental Data Services, Ltd. in Pittsburgh, Pennsylvania, the project third-party data validators for NOI, delineation, and sentinel wells. Complete validation reports received to date are indexed in Appendix D.

Groundwater sample analysis and third-party data validation are ongoing and pending completion for a number of samples collected during this reporting period; these outstanding sample results

will be included in the next Quarterly RRR. Laboratory and field data quality will be fully assessed pending availability of additional laboratory and third-party data validation reports.

The third-party data assessment for the provided data concluded that all data generated during the sampling events reported herein are usable for the intended purpose with the limitations described above.

9.0 Analytical Results

Analytical results for soil vapor and groundwater samples collected during the current reporting period are presented below, along with the results of free product gauging and headspace measurements performed as part of the NOI groundwater sampling.

9.1 Soil Vapor Analytical Results

9.1.1 Below-Tank Sampling Locations

9.1.1.1 Field Measurements

AOC soil vapor measurements collected under the fuel storage tanks since January 2014 are charted in Appendix A.1, NOI soil vapor measurements are tabulated in Appendix A.2, and chromatograms for Summa canister samples collected under Tanks 15, 17, 18, and 20 are presented in Appendix A.3.

9.1.1.2 Fixed-Base Laboratory Measurements

Soil vapor analytical data reports for Summa canister samples collected underneath the fuel storage tanks are indexed in Appendix C. The following subsections present analytical results for soil vapor samples, including VOCs, carbon dioxide, oxygen, and methane. With the exception of SV18S and SV18D, laboratory results for below-tank SVMPs during this reporting period were consistent with recent monitoring periods, indicating that the impacts from the May 2021 Release have dissipated. The results from SV18S and SV18D are discussed in Section 9.1.1.3.

9.1.1.3 Results from SV18S and SV18D

On December 20, 2022 the PID readings at SV18S and SV18D were 54,890 parts per billion by volume (ppbv) and 21,220 ppbv, respectively, higher than any prior reading collected from these two locations since September 2021 (Figure 10). Tank 18 has only two SVMPs (i.e., there is no SV18M). Similar increases in PID readings were not noted at the SVMPs below Tanks 17, 20, or other tanks. As a result of the elevated PID readings, Summa canister samples were collected from SV18S and SV18D for laboratory analysis. For the six weekly monitoring events completed after December 20, 2022 and included in this report (i.e., December 27, 2022 to February 1, 2023), the PID readings for SV18S and SV8D ranged from 1,810 to 7,247 ppbv, within the range observed during the months prior to the elevated readings recorded on December 20, 2022.

Laboratory results for the December 20, 2022 SV18S and SV18D Summa canister samples were reviewed to determine whether these results suggest a new release of JP-5.

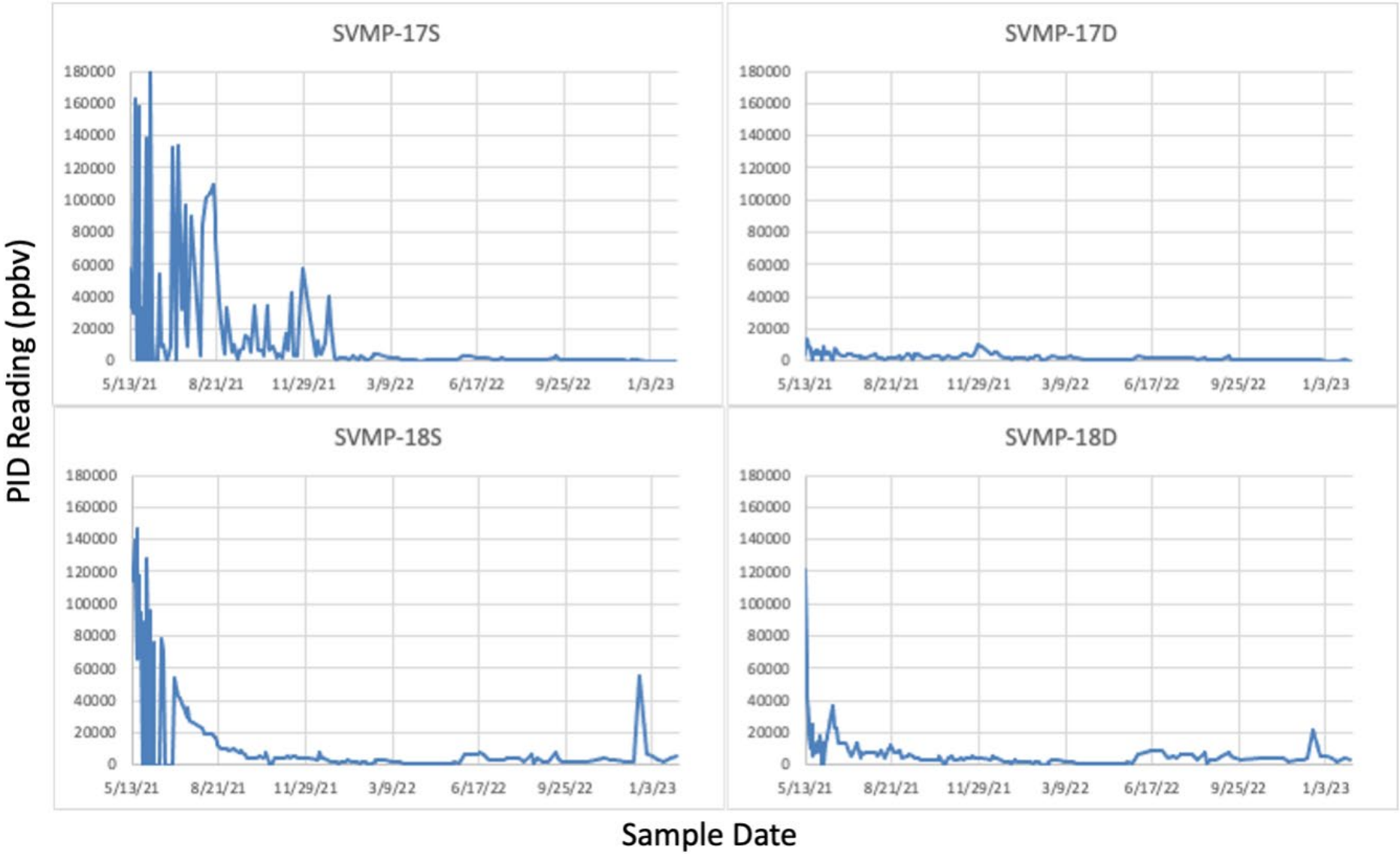


Figure 10: PID Readings Over Time from SV17S, 17D, 18S, and 18D

Factors Potentially Indicative of a New Release: Based on the laboratory results from samples collected shortly after the May 2021 Release, two factors may be reviewed to see if they suggest a new release of JP-5 fuel:

- **JP-5 Release Indicator Compounds:** As documented in the Quarterly RRRs submitted in 2021 and 2022, five individual petroleum constituents (4-ethyltoluene, ethylbenzene, total xylenes, 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene) were most characteristic of the May 2021 JP-5 Release. Concentrations of these indicator compounds above 1,000 $\mu g/m^3$ were observed during the May and June 2021 sampling events in samples from SV17S, SV18S, and SV20M. If a new release of JP-5 occurred, then high concentrations (e.g., greater than 100 $\mu g/m^3$) of these five compounds would be expected in Summa canister samples collected after this new release occurred.
- **n-Alkane Peaks in FID Chromatograms:** The flame ionization detector (FID) chromatograms (obtained from the Method TO-3 analyses) for the samples collected shortly after the May 2021 Release exhibited distinct peaks associated with three n-alkanes (n-decane, n-undecane, and n-dodecane). These peaks became less prominent over time as the release weathered. Results from the USGS' Bemidji, Minnesota research site indicate that n-alkanes biodegrade in the environment more rapidly than other petroleum constituents in petroleum mixtures (Baedecker et al. 2018). The disappearance of the n-alkane peaks from the FID chromatograms from May 2021 to July 2022 was consistent with this research finding. If a new release of JP-5 occurred, then distinct n-alkane peaks would be expected in the FID chromatograms.

Evaluation of Summa Canister Sample Test Results: All laboratory results for the May 2021 NOI testing are available in the JBPHH Red Hill EDMS and have been provided to DOH. The following were reviewed to evaluate whether the increased PID readings observed on December 20, 2022 at the Tank 18 SVMPs were indicative of a new release.

- **JP-5 Release Indicator Compounds:** Table 9 displays results from analyses of samples collected shortly after the May 2021 Release (May and June 2021), 8 and 14 months after the May 2021 release (January and July 2022), and immediately before and after the elevated PID readings observed on December 20, 2022 (i.e., December 13 and 20, 2022 and January 10, 2023). The results from December 20, 2022 show an increase in four of the five release indicator compounds compared to December 13, 2022; however, concentrations of these compounds remained far lower than measured in the first 2 months after the May 2021 release. Specifically, PID readings from SVMP-18S were comparable on June 14, 2021 (40,567 ppb) and December 22, 2022 (54,890 ppbv), but the concentrations of the five release indicator compounds was approximately 5 times higher in the June 14, 2021 sample (collected 1 month after the May 2021 release) compared to the December 20, 2022 sample. On January 10, 2023, the PID readings and release indicator compound concentrations were similar to those measured on December 13, 2022 prior to the elevated PID readings recorded on December 20, 2022. If the increased PID

reading on December 20, 2022 was attributable to a new release of JP-5, then the concentrations of release indicator compounds measured on December 20, 2022 and January 10, 2023 would likely have been similar to or greater than those measured in June 2021. The release indicator compound results suggest that the increase in PID reading on December 20, 2022 was likely not due to a new release of JP-5.

Table 9: JP-5 Release Indicator Compound Results for SVMP-18S

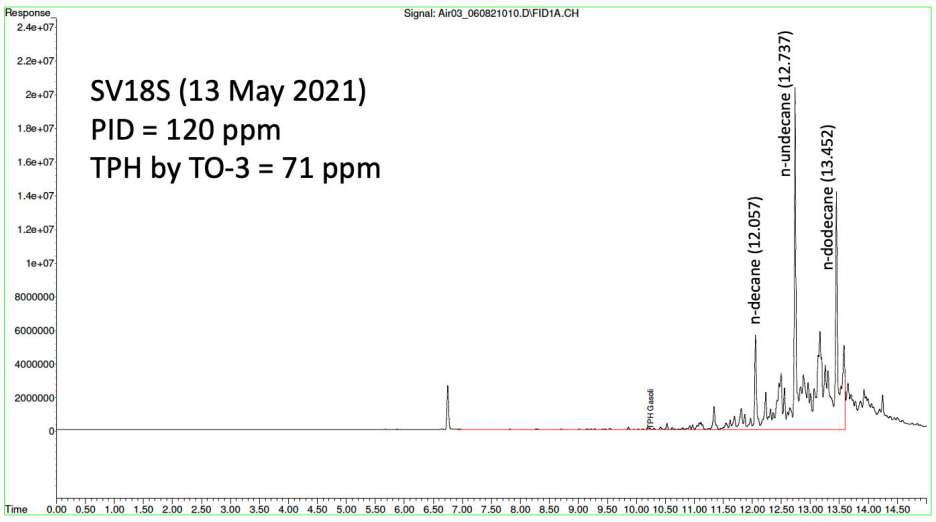
Sample Event	PID Reading (ppbv)	Petroleum Constituent Concentration (µg/m^3)				
		4-Ethyl toluene	Ethyl benzene	Total xylenes	1,3,5-TMB	1,2,4-TMB
Prior Readings						
5/13/2021	120,000	400	210	1300	610	2200
6/14/2021	40,567	49	16	140	110	330
1/17/2022	2,945	<2	2.2	10	2	3.9
7/12/2022	3,110	<2	<1.7	<1.7	<2	3.3
Current Reporting Period Readings						
12/13/2022	2,521	<1.4	<1.6	<1.6	1.9	2.7
12/20/2022	54,890	<2.4	2.9	22	34	58
1/10/2023	3,582	<1.8	<1.6	<1.6	2.4	1.9

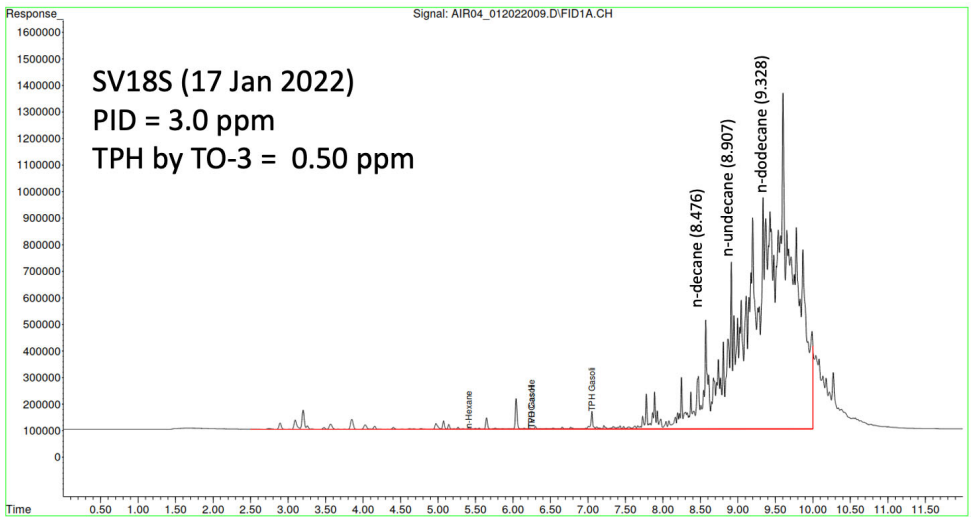
Notes:
TMB trimethylbenzene

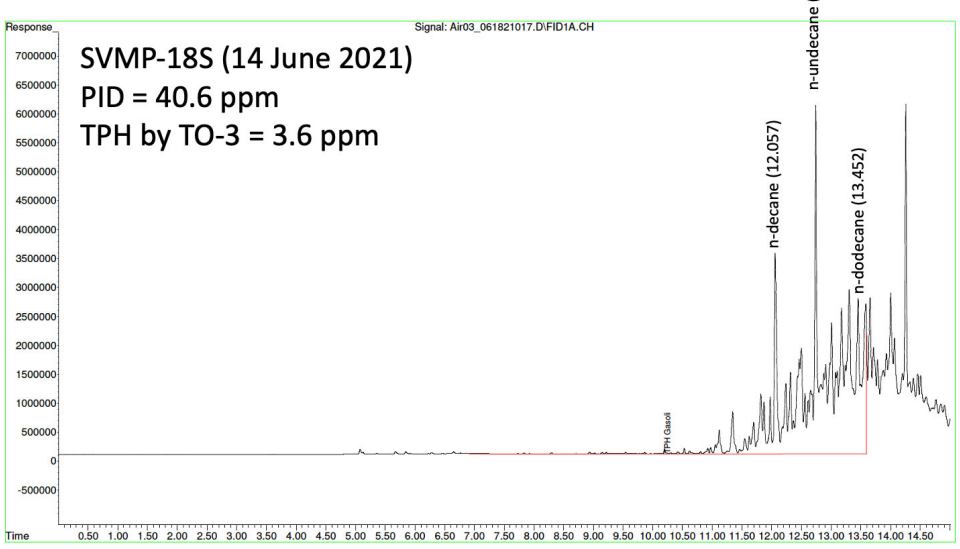
- **n-Alkane Peaks in FID Chromatograms:** As shown on Figure 11, the FID chromatograms for the SVMP-18S samples collected in May and June 2021 and January 2022 all show distinct peaks for three n-alkanes (n-decane, n-undecane, and n-dodecane). For these three samples, these peaks clearly extend above baseline of unresolved compounds present in the sample. Although the peaks are clear in all three chromatograms, the height above baseline decreases over time from the May and June 2021 to January 2022 samples. This pattern is consistent with a fresh release of JP-5 fuel in May 2021 followed by weathering over time. For the July 2022, December 13 and December 20, 2022, and January 10, 2023 FID chromatograms, the n-decane, n-undecane, and n-dodecane peaks do not extend above the baseline of unresolved compounds present in the sample. This pattern is consistent with weathered JP-5 fuel where the n-alkanes have been largely depleted from the fuel as a result of biodegradation. If a new release of JP-5 fuel had occurred in December 2022, then prominent n-alkane peaks would be expected in the FID chromatogram for the sample collected on December 20, 2022. The absence of distinct peaks for n-decane, n-undecane, and n-dodecane in the FID chromatogram for the December 20, 2022 sample indicates that the increase in PID reading on December 20, 2022 was likely not due to a new release of JP-5.

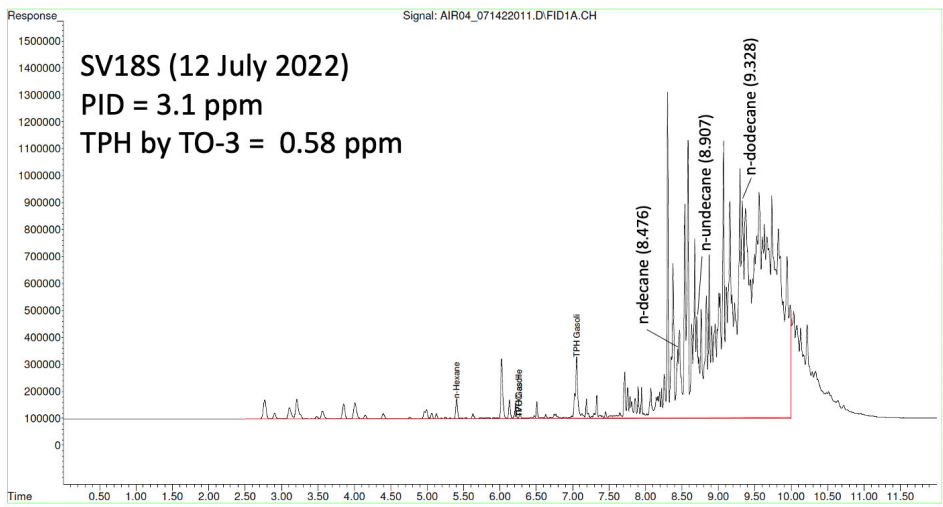
In summary, based on available laboratory results, the elevated PID reading at SV18S and SV18D observed on December 20, 2022 do not appear to be attributable to a new release of JP-5.

Prior PID Readings, 2021–2022:

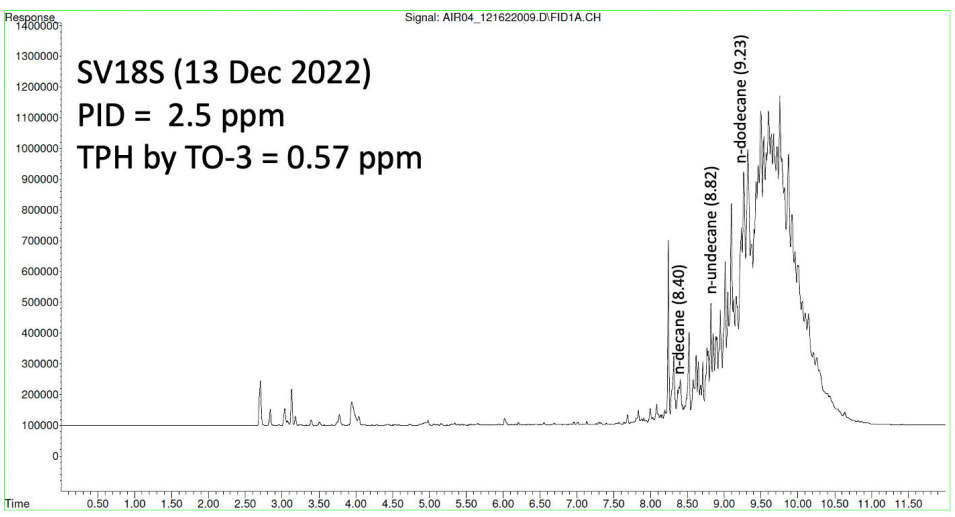


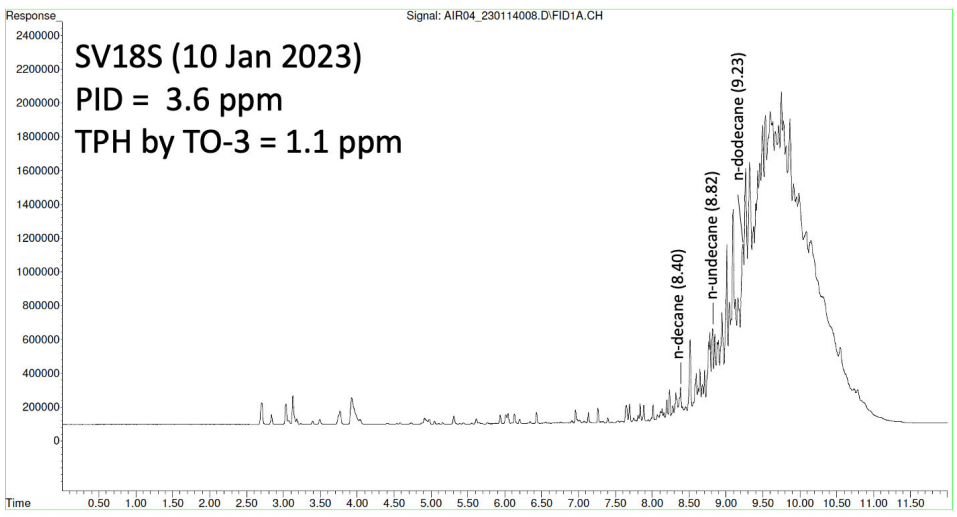






PID Readings from Current Reporting Period:





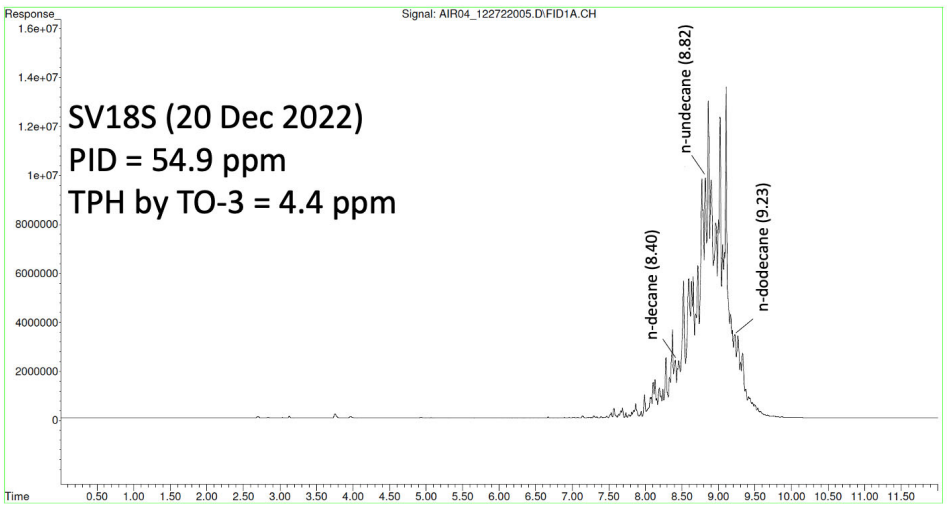


Figure 11: Selected FID Chromatograms for Method TO-3 Analysis of Samples from SV18S

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9.1.2 Adit 3 Tunnel Sampling Locations

9.1.2.1 FIELD MEASUREMENTS

SVMPs in the Adit 3 Tunnel were monitored monthly during this reporting period, with additional out of frequency monitoring conducted after rainfall events of greater than 1 inch within a 24-hour period. Figure 9 shows the results of soil vapor monitoring from subslab and shallow SVMPs installed in the floor of the Adit 3 and Pearl Harbor Tunnels since December 17, 2021. The origin for the Adit 3 Tunnel SVMPs (A3) is taken at the eastern edge of the Water Pumping Station doorway; coordinates are in feet, are positive (+) to the west and negative (-) to the east. The origin for the Pearl Harbor Tunnel SVMPs (2S) is at the Adit 3 merge centerline, with coordinates taken positive (+) to the south.

As shown on Figure 9, the results showed fluctuations over time on top of an overall decrease in concentrations measured since the commencement of monitoring in December 2021. The monitoring results for the seven out-of-frequency monitoring events conducted in November and December 2022 and February 2023 are consistent with results from monthly events associated with periods of lower precipitation. These results suggest that rainfall events greater than 1 inch within a 24-hour period do not have a discernable impact on PID monitoring results at the Adit 3 SVMPs.

9.1.2.2 FIXED-BASE LABORATORY MEASUREMENTS

No samples for analysis at a fixed-base laboratory were collected from Adit 3 Tunnel SVMPs during this reporting period.

9.2 Groundwater Monitoring Well Free Product Gauging and Headspace Measurements

Free product gauging results and headspace measurements collected through February 3, 2023 are presented in Appendix B.2. Free product was not detected at any monitoring location during this reporting period.

9.3 Groundwater and Adit 3 Sump Water Analytical Results

Groundwater samples were analyzed for the parameters and methods described in Section 6.0. Appendix B.1 provides a summary of samples collected, laboratory analytical methods, and status of sample delivery group reports. The sampling events covered in this report include those occurring within the current reporting period for which Level II and Level IV data packages have been issued and validated. Appendix B.4 provides cumulative groundwater monitoring well results compared to the EALs for each analyte group. Additionally, TPH results collected during the reporting period are graphically displayed over time in Appendix B.4.5. Final Level II and IV analytical reports and data validation reports are indexed in Appendix D.

Sampling procedures and analyses conducted vary between sampling programs, as described in Sections 5.3.1 through 5.3.5; therefore, the analytical results are reported in Sections 9.3.1 through 9.3.4.

9.3.1 NOI Groundwater Analytical Results

Summary statistics for all NOI groundwater samples completing validation during the current reporting period are described below and provided in Table 10.

Three hydrocarbon ranges are being analyzed as COPCs, including gasoline, diesel, and oil range hydrocarbons, which are representative of gasoline, middle distillates (kerosene, jet, and diesel fuels), and heavy oils (motor oil), respectively.

9.3.1.1 TPH-g

TPH-g was not detected at any well during this reporting period. No EAL exceedances were reported.

9.3.1.2 TPH-d

EAL exceedances detected in monitoring well samples during the reporting period are summarized in Table 10, and TPH-d detections are depicted on Figure 12. Exceedances were reported at in-tunnel wells RHMW02 (which consistently exceeds EALs) and RHMW03. The maximum detected concentrations for TPH-d in RHMW02 and RHMW03 were 3,000 µg/L and 470 µg/L, respectively. TPH-d was detected at in-tunnel wells RHMW01R and RHMW05, outlying multilevel wells RHMW11-05 and RHMW15-05, and sentinel well NMW24. The detections in these well were below 100 µg/L except for RHMW01R, which was 340 µg/L.

As depicted in Appendix B.5, the sample from RHMW02 exhibited chromatographic profiles with peaks spanning the carbon range (C10–C24) characteristic of some dissolved components of jet fuel and a "hump" due to metabolites in the TPH-d range, which is consistent with JP-5 and jet fuels in general. The chromatographic fingerprints from the detects at RHMW01R can be considered impacted by potential metabolites; however, broad peaks and baseline rise extending into the TPH-o carbon ranges have been observed. The other wells with TPH-d detections do not have chromatographic profiles consistent with those observed in RHMW02 or expected from dissolved fuel components. For example, the RHMW03 exceedance exhibited broad peaks and baseline rise sporadically dispersed throughout the TPH-o carbon range and extended into the TPH-d carbon ranges.

Table 10: Summary of Groundwater Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect	Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criterion	Number of Exceedances	Exceedance Frequency
TPH and Fuel Related Compounds																
TPH-g (Eurofins Labs)	PHCC6C10	8260	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	300	0	0.0%
TPH-d (Eurofins Labs)	PHCC10C24	8015DM	µg/L	90	81	9	10.0%	66	J	3000	—	RHMW11-05	RHMW02	400	3	3.3%
TPH-d (Eurofins Labs) with Silica Gel Cleanup	PHCC10C24SGC	8015DM	µg/L	9	6	3	33.3%	83	J	430	—	RHMW01R	RHMW02	—	0	0.0%
TPH-o (Eurofins Labs)	PHCC24C40	8015DM	µg/L	90	83	7	7.8%	200	J	500	—	RHMW05	RHMW03	500	1	1.1%
TPH-o (Eurofins Labs) with Silica Gel Cleanup	PHCC24C40SGC	8015DM	µg/L	9	8	1	11.1%	180	J	180	J	NMW24	NMW24	—	0	0.0%
Total Organic Carbon	—	—	µg/L	76	28	48	63.2%	380	J	14000	—	RHMW12A	RHMW02	—	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	76	73	3	3.9%	0.005	J	0.025	—	RHMW14-03	NMW24	0.04	0	0.0%
Methane	74-82-8	SW8015M	µg/L	76	67	9	11.8%	0.63	J	5300	—	OWDFMW05A	RHMW02	—	0	0.0%

Table 10: Summary of Groundwater Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect	Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criterion	Number of Exceedances	Exceedance Frequency
BTEX, Full Suite VOCs, and Lead																
Benzene	71-43-2	8260B	µg/L	90	89	1	1.1%	0.033	J	0.033	J	RHMW02	RHMW02	5	0	0.0%
Ethylbenzene	100-41-4	8260B	µg/L	90	88	2	2.2%	0.081	J	0.13	J	RHMW02	RHMW02	30	0	0.0%
Toluene	108-88-3	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	40	0	0.0%
Xylenes	1330-20-7	8260B	µg/L	90	89	1	1.1%	0.19	J	0.19	J	RHMW02	RHMW02	20	0	0.0%
Bromobenzene	108-86-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Bromochloromethane	74-97-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Bromodichloromethane	75-27-4	8260B	µg/L	90	89	1	1.1%	0.17	J	0.17	J	NMW24	NMW24	0.14	1	1.1%
Bromoform	75-25-2	8260B	µg/L	90	89	1	1.1%	0.29	J	0.29	J	NMW24	NMW24	80	0	0.0%
Carbon tetrachloride	56-23-5	8260B	µg/L	90	81	9	10.0%	0.05	J	0.063	J	OWDFMW04A	OWDFMW04A	5	0	0.0%
Chlorobenzene	108-90-7	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	25	0	0.0%
Chlorodibromomethane	124-48-1	8260B	µg/L	90	88	2	2.2%	0.058	J	0.34	—	OWDFMW04A	NMW24	0.93	0	0.0%
Chloroethane	75-00-3	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	16	0	0.0%
Chloroform	67-66-3	8260B	µg/L	90	62	28	31.1%	0.039	J	3.8	—	RHMW06	OWDFMW04A	28	0	0.0%
Chloromethane	74-87-3	8260B	µg/L	90	72	18	20.0%	0.14	J	1.8	—	OWDFMW01	RHMW17	190	0	0.0%
2-Chlorotoluene	95-49-8	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
4-Chlorotoluene	106-43-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Dibromomethane	74-95-3	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Dichlorodifluoromethane	75-71-8	8260B	µg/L	84	84	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
1,1-Dichloroethane	75-34-3	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	2.8	0	0.0%
1,2-Dichloroethane	107-06-2	8260B	µg/L	90	89	1	1.1%	0.047	J	0.047	J	RHMW17	RHMW17	5	0	0.0%
1,1-Dichloroethene	75-35-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	7	0	0.0%
cis-1,2-Dichloroethene	156-59-2	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	70	0	0.0%
trans-1,2-Dichloroethene	156-60-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	100	0	0.0%
1,2-Dichloropropane	78-87-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
1,3-Dichloropropane	142-28-9	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
2,2-Dichloropropane	594-20-7	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
1,1-Dichloropropene	563-58-6	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Methyl ethyl ketone	78-93-3	8260B	µg/L	84	84	0	0.0%	ND	—	ND	—	—	—	5600	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Methylene chloride	75-09-2	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Styrene	100-42-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	10	0	0.0%
1,1,1,2-Tetrachloroethane	630-20-6	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.61	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.078	0	0.0%
Tetrachloroethene	127-18-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
1,1,1-Trichloroethane	71-55-6	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	11	0	0.0%
1,1,2-Trichloroethane	79-00-5	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Trichloroethene	79-01-6	8260B	µg/L	90	89	1	1.1%	0.066	J	0.066	J	RHMW06	RHMW06	5	0	0.0%
Trichlorofluoromethane	75-69-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
1,2,3-Trichloropropane	96-18-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.6	0	0.0%
Vinyl chloride	75-01-4	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	2	0	0.0%
m+p-Xylenes	179601-23-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
o-Xylene	95-47-6	8260B	µg/L	90	89	1	1.1%	0.19	J	0.19	J	RHMW02	RHMW02	—	0	0.0%
Lead	7439-92-1	SW6020	µg/L	76	37	39	51.3%	0.041	J	2.9	—	OWDFMW01	OWDFMW04A	5.6	0	0.0%
Dissolved Lead	7439-92-1	SW6020	µg/L	76	51	25	32.9%	0.04	J	0.65	—	RHMW12A	OWDFMW04A	—	0	0.0%

Table 10: Summary of Groundwater Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect	Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criterion	Number of Exceedances	Exceedance Frequency
SVOCs																
1,2,4-Trichlorobenzene	120-82-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	70	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
2,4,5-Trichlorophenol	95-95-4	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	1.9	0	0.0%
2,4,6-Trichlorophenol	88-06-2	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	4.9	0	0.0%
2,4-Dichlorophenol	120-83-2	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	0.3	0	0.0%
2,4-Dimethylphenol	105-67-9	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	120	0	0.0%
2,4-Dinitrophenol	51-28-5	SW8270C	µg/L	66	66	0	0.0%	ND	—	ND	—	—	—	14	0	0.0%
2,4-Dinitrotoluene	121-14-2	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.25	0	0.0%
2,6-Dinitrotoluene	606-20-2	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.05	0	0.0%
2-Chloronaphthalene	91-58-7	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
2-Chlorophenol	95-57-8	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	0.18	0	0.0%
2-Nitrophenol	88-75-5	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
3,3´-Dichlorobenzidine	91-94-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.17	0	0.0%
4,6-Dinitro-2-methylphenol	534-52-1	SW8270C	µg/L	61	61	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
4-Bromophenyl phenyl ether	101-55-3	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
4-Chloro-3-methylphenol	59-50-7	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
4-Chlorophenyl phenyl ether	7005-72-3	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
4-Nitrophenol	100-02-7	SW8270C	µg/L	34	34	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Azobenzene	103-33-3	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
bis(-2-chloroethoxy)Methane	111-91-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
bis(-2-chloroethyl)Ether	111-44-4	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.014	0	0.0%
bis(2-chloroisopropyl)Ether	108-60-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
bis(2-ethylhexyl)Phthalate	117-81-7	SW8270C	µg/L	90	89	1	1.1%	4	—	4	—	RHMW11-05	RHMW11-05	3	1	1.1%
Butylbenzylphthalate	85-68-7	SW8270C	µg/L	90	89	1	1.1%	0.37	J	0.37	J	RHMW13-05	RHMW13-05	—	0	0.0%
Di-n-butyl phthalate	84-74-2	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Di-n-octyl phthalate	117-84-0	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Diethyl phthalate	84-66-2	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	210	0	0.0%
Dimethyl phthalate	131-11-3	SW8270C	µg/L	90	89	1	1.1%	0.062	J	0.062	J	OWDFMW07A	OWDFMW07A	1100	0	0.0%
Hexachlorobenzene	118-74-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.0003	0	0.0%
Hexachlorobutadiene	87-68-3	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.2	0	0.0%
Hexachlorocyclopentadiene	77-47-4	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Hexachloroethane	67-72-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.4	0	0.0%
Isophorone	78-59-1	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	82	0	0.0%
m+p-Cresols	15831-10-4	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
n-Nitroso-di-n-propylamine	621-64-7	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
n-Nitrosodimethylamine	62-75-9	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
n-Nitrosodiphenylamine	86-30-6	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Nitrobenzene	98-95-3	SW8270C	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.14	0	0.0%
o-Cresol	95-48-7	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%
Pentachlorophenol	87-86-5	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	1	0	0.0%
Phenol	108-95-2	SW8270C	µg/L	88	88	0	0.0%	ND	—	ND	—	—	—	58	0	0.0%
Pyridine	110-86-1	SW8270C	µg/L	76	76	0	0.0%	ND	—	ND	—	—	—	—	0	0.0%

Table 10: Summary of Groundwater Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect	Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criterion	Number of Exceedances	Exceedance Frequency
PAHs																
1-Methylnaphthalene	90-12-0	8270D SIM	µg/L	90	85	5	5.6%	0.02	J	13	—	RHMW09	RHMW02	10	1	1.1%
2-Methylnaphthalene	91-57-6	8270D SIM	µg/L	90	85	5	5.6%	0.048	J	4.9	—	RHMW09	RHMW02	10	0	0.0%
Naphthalene	91-20-3	8270D SIM	µg/L	90	85	5	5.6%	0.046	J	26	—	RHMW05	RHMW02	17	1	1.1%
Acenaphthene (SIM)	83-32-9	8270SIM	µg/L	90	87	3	3.3%	0.024	J	0.3	—	RHMW01R	RHMW02	15	0	0.0%
Acenaphthylene (SIM)	208-96-8	8270SIM	µg/L	90	89	1	1.1%	0.083	—	0.083	—	RHMW02	RHMW02	13	0	0.0%
Anthracene (SIM)	120-12-7	8270SIM	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.02	0	0.0%
Benzo(a)anthracene (SIM)	56-55-3	8270SIM	µg/L	90	85	5	5.6%	0.014	J	0.17	J	RHMW02	RHMW03	0.027	3	3.3%
Benzo(a)pyrene (SIM)	50-32-8	8270SIM	µg/L	90	88	2	2.2%	0.02	J	0.053	J	RHMW05	OWDFMW04A	0.06	0	0.0%
Benzo(b)fluoranthene (SIM)	205-99-2	8270SIM	µg/L	90	86	4	4.4%	0.012	J	0.047	J	RHMW01R	OWDFMW04A	0.22	0	0.0%
Benzo(g,h,i)perylene (SIM)	191-24-2	8270SIM	µg/L	90	89	1	1.1%	0.06	—	0.06	—	OWDFMW04A	OWDFMW04A	0.13	0	0.0%
Benzo(k)fluoranthene (SIM)	207-08-9	8270SIM	µg/L	90	89	1	1.1%	0.023	J	0.023	J	OWDFMW04A	OWDFMW04A	0.4	0	0.0%
Chrysene (SIM)	218-01-9	8270SIM	µg/L	90	88	2	2.2%	0.021	J	0.035	J	RHMW05	OWDFMW04A	1	0	0.0%
Dibenzo(a,h)anthracene (SIM)	53-70-3	8270SIM	µg/L	90	90	0	0.0%	ND	—	ND	—	—	—	0.022	0	0.0%
Fluoranthene (SIM)	206-44-0	8270SIM	µg/L	90	88	2	2.2%	0.044	J	0.063	J	OWDFMW04A	RHMW05	0.8	0	0.0%
Fluorene (SIM)	86-73-7	8270SIM	µg/L	90	87	3	3.3%	0.017	J	0.17	—	RHMW01R	RHMW02	3.9	0	0.0%
Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270SIM	µg/L	90	88	2	2.2%	0.014	J	0.055	—	RHMW05	OWDFMW04A	0.095	0	0.0%
Phenanthrene (SIM)	85-01-8	8270SIM	µg/L	90	89	1	1.1%	0.053	J	0.053	J	RHMW05	RHMW05	2.3	0	0.0%
Pyrene (SIM)	129-00-0	8270SIM	µg/L	90	88	2	2.2%	0.047	J	0.06	J	OWDFMW04A	RHMW05	4.6	0	0.0%

Acronyms and Footnotes:

CAS-Chemical Abstracts Service

J-estimated: the analyte was positively identified; the quantitation is an estimation

ND-not detected

µg/L-microgram per Liter

%-percent

Note[1]: The minimum and maximum detected values are given for each analyte. If the analyte was not detected in any sample, "ND" is shown for minimum or maximum detected values.

Note[2]: If the minimum or maximum result value occurs at more than one location only the location of the first occurrence is given.

[a] Includes normal and field duplicate samples.

[b] Does not include sample results rejected by validation.

[c] Wells sampled during this reporting period include the following: OWDFMW01, OWDFMW04A, OWDFMW05A, OWDFMW07A, OWDFMW08A, RHMW01R, RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, RHMW11-05, RHMW12A, RHMW13-05, RHMW14-03, RHMW15-05, RHMW16, RHMW17, RHMW19, RHMW2254-01, and NMW24. Statistics for NMW24 only include the first sample collected November 22, 2022 under the NOI groundwater monitoring program.

TPH-d Sample Results

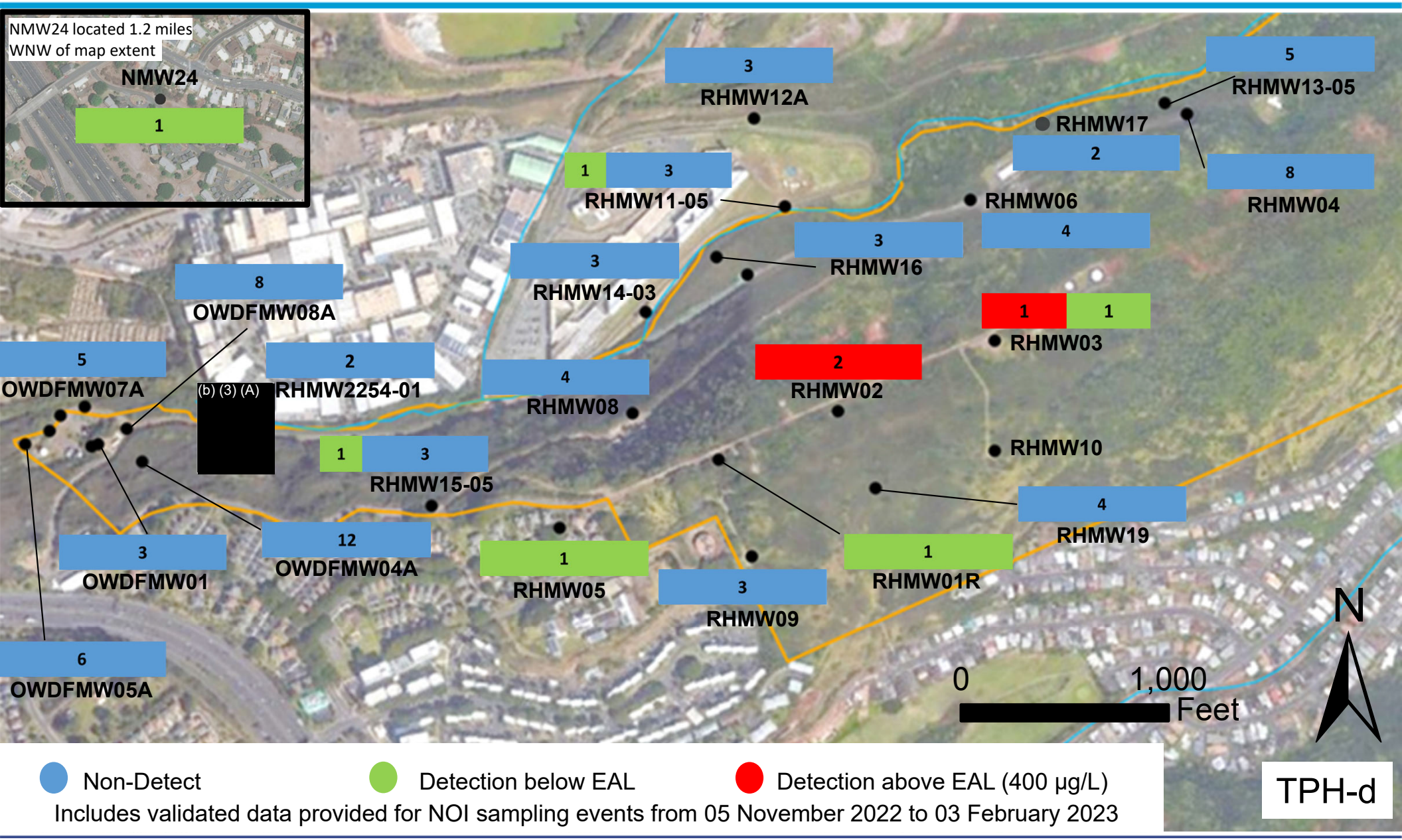


Figure 12: Summary of Groundwater Analytical Results for TPH-d

A summary of detected TPH-d sample concentrations from NOI monitored wells for the current reporting period is as follows:

- TPH-d concentrations at in-tunnel well RHMW02 and RHMW03 appear to be stable, with RHMW02 exhibiting historically consistent EAL exceedances, and RHMW03 sporadically exceeding the EAL.
- TPH-d concentrations at in-tunnel wells RHMW01R and RHMW05 appear to be stable and did not exceed the EAL.
- TPH-d was detected in one sample each at outlying wells RHMW11-05, RHMW15-05, and NMW24, but there were no detections in subsequent samples from the multilevel wells, and concentrations were all below the EAL. However, NMW24 had one detect in subsequent sampling events (see Section 9.3.3). Detections for all three wells were below 70 µg/L.
- TPH-d detections at RHMW2254-01 (Red Hill Shaft), which had consistent exceedances following the November 2021 Release, has had no EAL exceedances since March 2022 and low to no detections since then. TPH-d was not detected during this reporting period.

9.3.1.3 TPH-o

TPH-o EAL exceedances detected from monitoring wells during the reporting period are summarized in Table 10, and TPH-o detections are depicted on Figure 13. As shown on the figure:

- TPH-o was detected at in-tunnel wells RHMW01R, RHMW02, and RHMW05 during all sampling events; TPH-o concentrations remain stable.
- TPH-o was detected in one sample at sentinel well NMW24.
- As was the case in the previous reporting period, TPH-o was not detected in any other (besides NMW24) outlying well or at RHMW2254-01 during this reporting period.

One "exceedance" was reported at in-tunnel well RHMW03 (500 µg/L): the EAL for TPH-o is 500 µg/L. As depicted in Appendix B.5, the chromatographic fingerprint from RHMW03 exhibited broad peaks and baseline rise sporadically dispersed throughout the TPH-o carbon range and extended into the TPH-d carbon ranges; these are not consistent with the chromatographic profile seen in RHMW02 or recent fuel samples, and there is no clear indication that this TPH-o detection is related to a recent JP-5 release. RHMW03 has had TPH-o detections in the past; these may be associated with degradation of a heavier or older fuel source.

SGC performed on the groundwater extracts removed all the TPH-o concentration from most samples except for NMW24, indicating that TPH-o in the samples is composed of polar compounds, potentially including metabolites (i.e., heavily biodegraded and or weathered material). The material detected as TPH may also be unrelated to fuels and instead may be associated with naturally occurring organic matter or sampling or laboratory sample handling artifacts.

TPH-o Sample Results

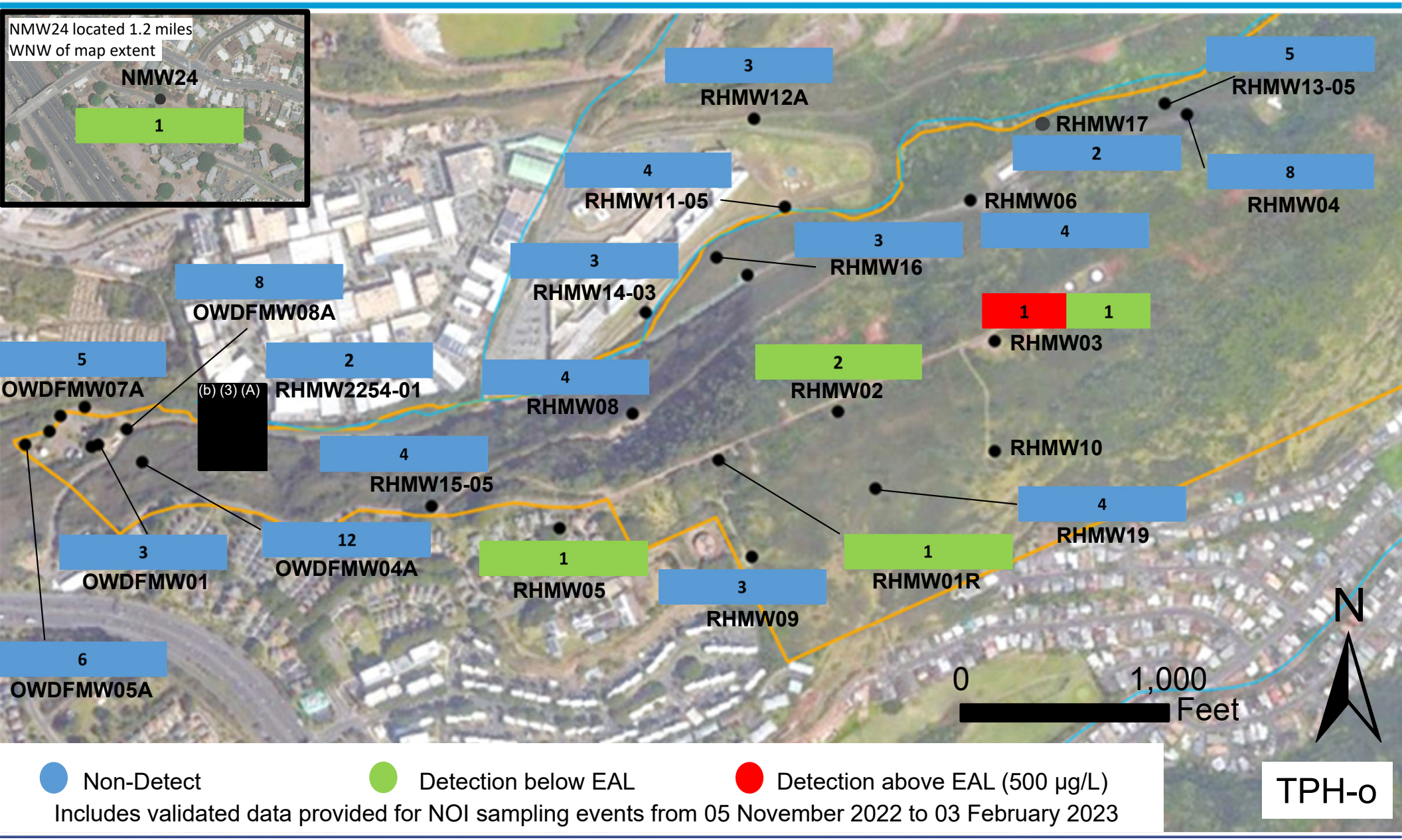


Figure 13: Summary of Groundwater Analytical Results for TPH-o

9.3.1.4 LEAD SCAVENGERS

1,2-dibromoethane was detected once at each outlying wells RHMW09, RHMW14-03, and NMW24 at low-level concentrations ranging from 0.005 J to 0.025 µg/L. 1,2-dichloroethane had one low-level detection, 0.047 J µg/L at RHMW17; 1,2-dichloroethane was not detected in any other well. All QC and analytical criteria were met, and these analytes were not detected in the method blanks. All low-level detects except for NMW24 were considered estimated (J-flagged) and may be attributed to instrumentation noise. There are no current onsite fuel sources for 1,2-dibromoethane or 1,2-dichloroethane, and there were no TPH detects for the wells with positively identified lead scavengers except for low-level TPH-d/o detects at NMW24, which is a newly constructed well and began monitoring in November 2022. NMW24 is located 1.2 miles northeast of the western portion of the Facility in a developed area of the town of ʻAiea. Lead scavengers were used in motor gasoline during leaded gasoline use (the United States banned use of lead in gasoline in in 1996), but only 1,2-dibromoethane was used in aviation gasoline. Fuels stored in the Facility in recent decades did not contain lead additives. Leaded fuels were last stored at the Facility in 1968 in Tanks 17 and 18 (Red Hill CSM report; DON 2019). The most common current use of 1,2-dichloroethane is in the production of vinyl chloride, which is used to make a variety of plastic and vinyl products including PVC pipes, furniture and automobile upholstery, wall coverings, housewares, and automobile parts. 1,2-dibromoethane is commonly used as a fumigant and may also be found naturally in the ocean in small amounts.

9.3.1.5 LEAD

Total lead was detected at low-level concentrations at all wells. Detected results did not exceed the EAL during the reporting period, and concentrations remained stable and consistent with historical ranges for all wells. The maximum concentrations for total and dissolved lead were at OWDFMW04A (2.9 µg/L and 0.65 µg/L, respectively).

9.3.1.6 BTEX

As was the case during the previous reporting period, no BTEX EAL exceedances were reported for any wells monitored during this reporting period.

One low-level detection of benzene was reported at in-tunnel well RHMW02 (0.033 J µg/L), but benzene was not detected in the following weekly sample collected on November 30, 2022. There have been four benzene detections out of 18 samples reported at this well since August 9, 2022.

Toluene was not detected in any well.

Ethylbenzene and xylene detections occurred at in-tunnel well RHMW02.

Current ethylbenzene and total xylene detections at RHMW02 are stable and consistent with historical detections indicative of a weathered LNAPL source, most likely attributable to historical releases and not to the January 2014, May 2021, or November 2021 Releases. Toluene is preferentially depleted under anaerobic conditions, which is occurring at RHMW02.

9.3.1.7 VOCs

One VOC EAL exceedance was reported at sentinel well NMW24 for bromodichloromethane, as shown in Table 10.

Additional detections below the EALs included trichloroethene at RHMW06, carbon tetrachloride, and chlorodibromomethane at OWDFMW04A, and bromodichloromethane and bromoform at sentinel well NMW24. Trichloroethene in RHMW06 was detected in 3 of 46 samples (including two duplicate samples), and chlorodibromomethane in OWDFMW04A was detected once out of 81 times (including 36 duplicate samples) since the inception of the NOI. All detects were flagged as estimated and may be attributed to instrumentation noise. Chlorodibromomethane at OWDFMW04A was not detected in prior and subsequent monitoring events. Trichloroethene, carbon tetrachloride, and chlorodibromomethane are not associated with fuel sources. Carbon tetrachloride has been consistently detected in low concentrations in OWDFMW04A only, since August 1, 2022, and concentrations were flagged as estimated. Low-level random detections are not unexpected from analysis of samples from many different sites at commercial laboratories. VOCs have been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8.

Three trihalomethanes (THMs) were detected in sentinel well NMW24: bromoform (0.29 J µg/L), chlorodibromomethane (0.34 µg/L), and chloroform (0.11 J µg/L). THMs are disinfection by-products when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water and may have been introduced if potable water was used during drilling or well development, especially since the well was completed recently, in November 2022.

Chloroform, chloromethane, or both were detected in 12 groundwater wells during multiple collection events. Chloroform was detected in all sampling events from OWDFMW04A and OWDFMW08A. These low-level VOC detects are consistent with historical data and investigations. As reported in the Red Hill CSM report (DON 2019), chloroform, chloromethane, and methyl ethyl ketone (MEK) were historically detected at RHMW01, RHMW03, and the outlying wells. The CSM report concluded that detections were not associated with the January 2014 Release and instead were associated with field or laboratory contamination, well construction, or maintenance (e.g., sampling equipment).

In addition, chloroform and chloromethane are not present in jet fuels and middle distillates. These compounds are typically used instead for the following operations:

- Chloroform is both a synthetic and a naturally occurring compound, although anthropogenic sources are responsible for most chloroform found in the environment. Chloroform is released into the environment as a result of its manufacture and use, its formation in the chlorination of drinking water and municipal and industrial waste water, and other water treatment processes involving chlorination. Under anaerobic conditions, some bacteria can dehalogenate carbon tetrachloride to release chloroform (ATSDR 1997).

- Chloromethane is both synthetic and naturally occurring. It is produced in the environment from rotting wood and fungus. Chloromethane is also used in products such as silicones and is formed from burning products like cigarettes or plastics (ATSDR 1998).

9.3.1.8 SVOCs

Samples were analyzed for the laboratory's full suite of SVOCs. The sampling events detailed below cover the current reporting period in which validated Level II and Level IV data packages have been completed. The data are summarized in Table 10 and below.

SVOC detections during this reporting period were consistent with historical investigations. Detected SVOCs were three phthalates: bis(2-ethylhexyl) phthalate, butyl benzyl phthalate, and dimethyl phthalate. SVOC results and specific impacted wells are summarized as follows:

- Bis(2-ethylhexyl) phthalate was detected at RHMW11-05 (4 µg/L) which exceeded the EAL (3 µg/L). Various phthalates, including bis(2-ethylhexyl) phthalate and dimethyl phthalate, were detected below the EALs at RHMW01, RHMW03, and outlying wells during previous sampling events; it was concluded that the detects were not associated with the fuel release and instead are likely associated with sampling equipment or laboratory contamination issues (DON 2019). Additionally, phthalates are prevalent in the environment because of their use in plastics such as PVC, which may be present in well construction materials.
- Dimethylphthalate was detected once at OWDFMW07A, which is the first detect at this well; however, dimethylphthalate was detected during previous sampling events from other in-tunnel and outlying wells. Detected results were below the EAL.
- Butylbenzylphthalate was reported in one sample from RHMW13-05 and has been reported a few times historically at other locations. No EAL has been established for butylbenzylphthalate.

Phthalates (bis(2-ethylhexyl) phthalate, dimethyl phthalate, and butylbenzylphthalate) are not commonly associated with fuel and are found mainly in solvents used as wetting agents and as plasticizers. The phthalate detections may also be indicators of sampling equipment or laboratory contamination issues, as supported by blank contamination and failing QC criteria. SVOCs have been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8.

4-chlorophenyl phenyl ether was originally reported at RHMW02, but the laboratory has since confirmed this result was a false positive, and the report will be re-issued. Similarly, 2,6-dinitrotoluene was reported twice in OWDFMW05A, but the laboratory since confirmed these results as false positives, and the reports will be re-issued. The detection limit of the method is greater than the EAL, therefore these false positives were reported as exceeding the EALs.

9.3.1.9 PAHs

PAHs can be divided into two different categories: pyrogenic and non-pyrogenic (Figure 14).

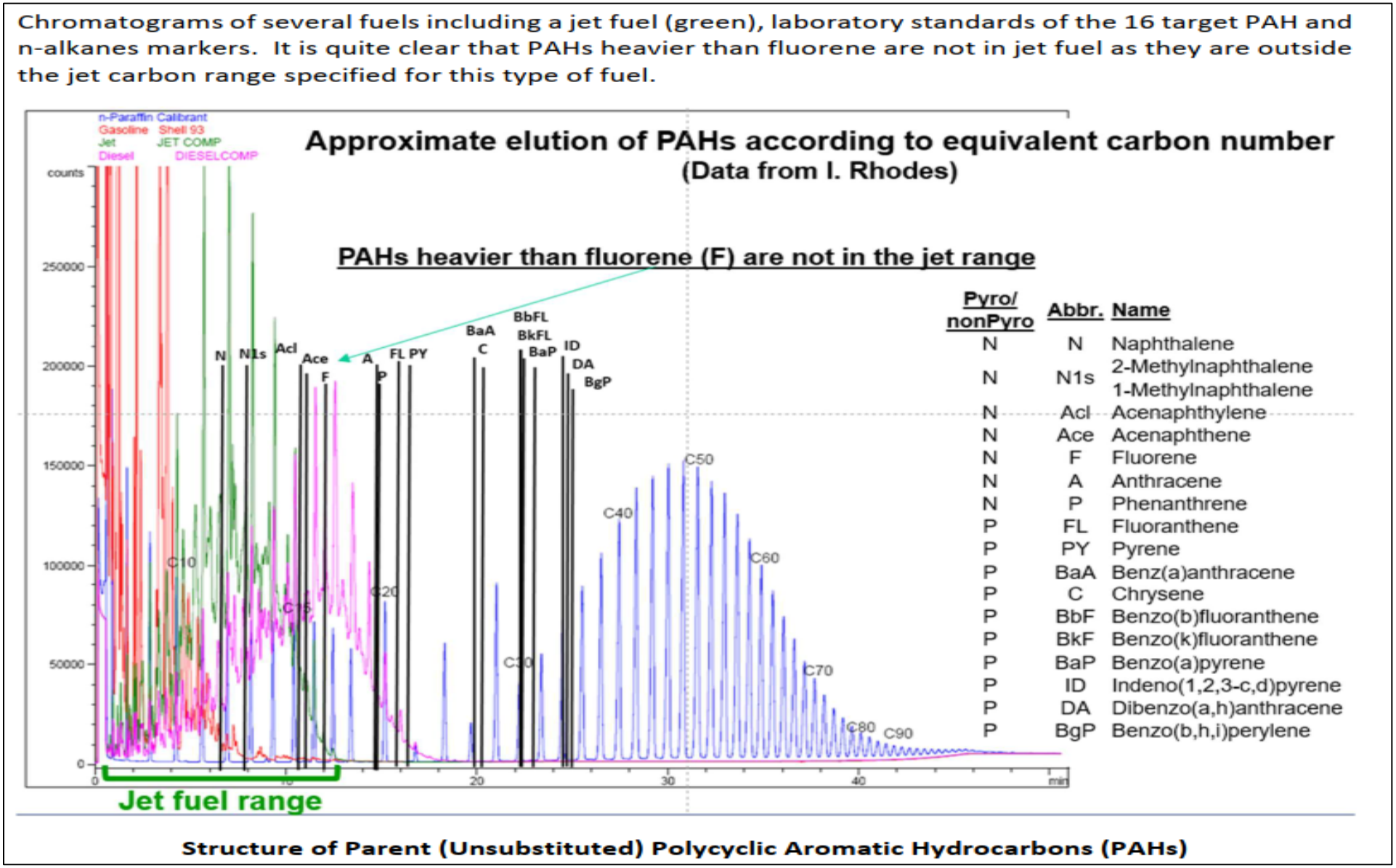


Figure 14: Approximate Elution of PAHs According to Equivalent Carbon Number

Pyrogenic PAHs, or heavy PAHs, are not found in fuels, but are commonly associated with combusted materials, along with burning or run-off. Pyrogenic PAHs are fluoranthene, pyrene, benz(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)anthracene, and benzo(b,h,i)perylene. PAHs that are heavier than naphthalenes, acenaphthene, acenaphthylene, and fluorene are removed from jet fuel sources during the distillation process.

Pyrogenic PAHs were detected at in-tunnel wells RHMW01R, RHMW02, RHMW03, and RHMW05 as well as at OWDFMW04A; these detections may be related to sources other than fuel stored at or released from the Facility. Benzo(a)anthracene concentrations exceeded the EAL once in RHMW03, RHMW05, and OWDFMW04A. Generally, the limit of detection of the method is greater than the EAL. This is the first exceedance for benzo(a)anthracene at RHMW03 and OWDFMW04A, and the second exceedance for RHMW05. PAHs have also been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8, which calls into question the reliability or representativeness of these data.

Non-pyrogenic PAHs are commonly found in petroleum, including middle distillates such as JP-5. Non-pyrogenic PAHs that are present in kerosene or jet fuels include 1MN, 2MN, N, and, to lesser extents, acenaphthene, acenaphthylene, and fluorene. The detections that are consistent with PAHs found in jet fuels are summarized below.

Consistent with historical data, PAH COPCs (N, 1MN, and 2MN) were detected primarily at in-tunnel well RHMW02 during this reporting period. Naphthalenes were reported in two samples collected at RHMW02. RHMW02 had one sample with a reported concentration of 1MN above the EAL (13 µg/L). The concentration of N (26 µg/L) also exceeded the EAL in one sample from RHMW02. The EAL is 10 µg/L for 1MN and 17 µg/L for N.

No exceedance of any PAH EAL was reported at the other wells. PAH COPCs were detected at RHMW01R, RHMW05, and RHMW09 below the EALs. In addition to the PAH COPCs, other non-pyrogenic PAHs detected at RHMW01R, RHMW02, RHMW05, and OWDFMW04A include acenaphthene, acenaphthylene, fluorene, or phenanthrene. RHMW02 had consistent detects for acenaphthene and fluorene, while RHMW01R had consistent detects for acenaphthene. Acenaphthylene was detected during one collection event at RHMW02. Phenanthrene was also detected during one collection event at RHMW05 and OWDFMW04A. Non-pyrogenic PAHs detected during multiple sampling events at RHMW01R and RHMW02 appear stable.

9.3.2 Delineation Well Groundwater Analytical Results

Summary statistics for delineation well groundwater samples collected during the current reporting period are described below and provided in Table 11.

Table 11: Summary of Delineation Well Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
TPH																
C6-C10 Gasoline Range Organics	—	8260/CALUFT DOD	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	300	0	0.0%
C10-C24 Petroleum Hydrocarbons	—	8015D	µg/L	69	56	13	18.8%	68	J	370	J	RHP04A	RHP04B	400	0	0.0%
C24-C40 Petroleum Hydrocarbons	—	8015D	µg/L	69	64	5	7.2%	180	J	250	J	RHP04B	RHP04B	500	0	0.0%
BTEX																
Benzene	71-43-2	8260D	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Ethylbenzene	100-41-4	8260D	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	30	0	0.0%
m,p-Xylene	—	8260D	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	NA	—	—
o-Xylene	95-47-6	8260D	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	NA	—	—
Toluene	108-88-3	8260D	µg/L	69	68	1	1.4%	0.46	J	0.46	J	RHP03	RHP03	40	0	0.0%
Xylenes, Total	1330-20-7	8260D	µg/L	69	69	0	0.0%	ND	—	ND	—	—	—	20	0	0.0%
PAHs																
1-Methylnaphthalene	90-12-0	8270E SIM	µg/L	68	62	6	8.8%	0.037	J	0.35		RHP04A	RHP03	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270E SIM	µg/L	68	64	4	5.9%	0.051	J	0.62		RHP04A	RHP03	10	0	0.0%
Naphthalene	91-20-3	8270E SIM	µg/L	68	63	5	7.4%	0.17	J	5.1		RHP02	RHP03	17	0	0.0%
Natural Attenuation Parameters																
Methane	—	RSK175	µg/L	3	3	0	0.0%	ND	—	ND	—	RHP04B	RHP04B	NA	—	—
Alkalinity, Bicarbonate (as CaCO3)	—	A2320B	µg/L	3	0	3	100.0%	85000		94000		RHP04B	RHP04B	NA	—	—
Alkalinity, Carbonate (as CaCO3)	—	A2320B	µg/L	3	3	0	0.0%	ND	—	ND	—	—	—	NA	—	—
Alkalinity, Total (as CaCO3)	—	A2320B	µg/L	3	0	3	100.0%	85000		94000		RHP04B	RHP04B	NA	—	—
Chloride	—	EPA 300	µg/L	3	0	3	100.0%	160000		190000	J-	RHP04B	RHP04B	NA	—	—
Iron, Ferrous	—	A3500B	µg/L	3	0	3	100.0%	25	J	31	J	RHP04B	RHP04B	NA	—	—
Nitrate (as N)	—	EPA 300	µg/L	3	1	2	66.7%	44	J	46	J	RHP04B	RHP04B	NA	—	—
Nitrate-Nitrite (as N)	—	EPA 353.2	µg/L	3	2	1	33.3%	87	J+	87	J+	RHP04B	RHP04B	NA	—	—
Sulfate	—	EPA 300	µg/L	3	0	3	100.0%	76000		130000	J-	RHP04B	RHP04B	NA	—	—
Total Organic Carbon	—	SW9060A	µg/L	3	0	3	100.0%	5300		13000	J	RHP04B	RHP04B	NA	—	—

Acronyms and Footnotes:

CAS-Chemical Abstracts Service

J-estimated: the analyte was positively identified; the quantitation is an estimation. Minus (-) and plus (+) signs indicate probable bias, if known.

ND-not detected

µg/L-microgram per Liter

%-percent

Note[1]: The minimum and maximum detected values are given for each analyte. If the analyte was not detected in any sample, "ND" is shown for minimum or maximum detected values.

Note[2]: If the minimum or maximum result value occurs at more than one location only the location of the first occurrence is given.

[a] Includes normal and field duplicate samples.

[b] Does not include sample results rejected by validation.

[c] Wells sampled during this reporting period include the following: RHP01, RHP02, RHP03, RHP04A, and RHP04B.

The following detections were reported:

- TPH-d was detected below the LOD at RHP03 on November 18, 2022; however, the concentration (78 µg/L) did not exceed the EAL of 400 µg/L. No TPH-d was detected in subsequent RHP03 samples collected on November 20 and 23 and December 9, 2022.
- TPH-d below the LOD was detected sporadically (in 4 of 14 samples) at RHP04A, ranging from 68 to 81 µg/L. The concentrations did not exceed the EAL.
- TPH-d above the LOD was detected in each sample collected at RHP04B, which is screened at depths of approximately -143 to -163 ft msl, i.e., approximately 162 ft below the regional potentiometric surface, from November 9 through December 9, 2022. Concentrations ranged from 140 to 370 µg/L and did not exceed the EAL. SGC performed on the groundwater extracts removed the TPH-d, indicating that TPH-d in the samples is not associated with a fresh fuel release, but may is instead composed of polar compounds, potentially including metabolites (i.e., heavily biodegraded and or weathered material). The chromatographic profiles for RHP04B samples are not consistent with those expected from dissolved fuel components.
- TPH-o was detected below the LOD in RHP04B samples collected November 11, 16, 18, 21, and December 9, 2022. The concentrations ranged from 180 to 250 µg/L and did not exceed the EAL of 500 µg/L. The TPH-d was removed by SGC, indicating the TPH-o in the samples is not associated with a fresh fuel release, but is instead composed of polar compounds.
- Infrequent low-level detections (below the LOD) of PAH COPCs (N, 1-MN, and 2-MN) were reported in delineation well samples. In addition, concentrations of naphthalene above the LOD and of 1-MN, and 2-MN near or above the LOD were reported for RHP03 and RHP04A sampled on November 18, 2022. The concentrations do not exceed the EALs and no PAH COPCs were detected in subsequent samples collected on November 20, November 21, November 23, or December 9, 2022.

No TPH-d detections were reported at delineation wells RHP01 and RHP02 during this reporting period.

No BTEX EAL exceedances were reported at any delineation well during this reporting period.

The delineation well samples were analyzed for NAPs during the initial two to three sampling events after well completion. The analytes included alkalinity (total, bicarbonate, and carbonate), nitrate as nitrogen, nitrate-nitrite as nitrogen, chloride, sulfate, methane, ferrous iron, and TOC. The minimum and maximum concentrations and frequency of detection are summarized in Table 11.

9.3.3 Sentinel Well Groundwater Analytical Results

Summary statistics for sentinel well groundwater samples collected during the current reporting period are described below and provided in Table 12.

Table 12: Summary of Sentinel Well Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Minimum Detect [2]	Location of Maximum Detect [2]	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier			Criteria	Number of Exceedances	Exceedance Frequency
TPH																
C6-C10 Gasoline Range Organics	—	8260/CALUFT DOD	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	400	0	0.0%
C10-C24 Petroleum Hydrocarbons	—	8015D	µg/L	2	1	1	50.0%	100	J	100	J	NMW24	NMW24	400	0	0.0%
C24-C40 Petroleum Hydrocarbons	—	8015D	µg/L	2	1	1	50.0%	190	J	190	J	NMW24	NMW24	500	0	0.0%
BTEX																
Benzene	71-43-2	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	5	0	0.0%
Ethylbenzene	100-41-4	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	30	0	0.0%
m,p-Xylene	—	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	NA	—	—
o-Xylene	95-47-6	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	NA	—	—
Toluene	108-88-3	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	40	0	0.0%
Xylenes, Total	1330-20-7	8260D	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	20	0	0.0%
PAHs																
1-Methylnaphthalene	90-12-0	8270E SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270E SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	10	0	0.0%
Naphthalene	91-20-3	8270E SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	17	0	0.0%
Natural Attenuation Parameters																
Methane	—	RSK175	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	NA	—	—
Alkalinity, Bicarbonate (as CaCO3)	—	A2320B	µg/L	2	0	2	100.0%	180000		190000		NMW24	NMW24	NA	—	—
Alkalinity, Carbonate (as CaCO3)	—	A2320B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	—	NA	—	—
Alkalinity, Total (as CaCO3)	—	A2320B	µg/L	2	0	2	100.0%	180000		190000		NMW24	NMW24	NA	—	—
Chloride	—	EPA 300	µg/L	2	0	2	100.0%	150000		170000		NMW24	NMW24	NA	—	—
Iron, Ferrous	—	A3500B	µg/L	2	0	2	100.0%	25	J	100	J	NMW24	NMW24	NA	—	—
Nitrate (as N)	—	EPA 300	µg/L	2	0	2	100.0%	2100		2100		NMW24	NMW24	NA	—	—
Nitrate-Nitrite (as N)	—	EPA 353.2	µg/L	2	0	2	100.0%	2200		2500		NMW24	NMW24	NA	—	—
Sulfate	—	EPA 300	µg/L	2	0	2	100.0%	47000		52000		NMW24	NMW24	NA	—	—
Total Organic Carbon	—	SW9060A	µg/L	2	0	2	100.0%	880	J	2200		NMW24	NMW24	NA	—	—

Acronyms and Footnotes:

CAS-Chemical Abstracts Service

J-estimated: the analyte was positively identified; the quantitation is an estimation

ND-not detected

µg/L-microgram per Liter

%-percent

Note[1]: The minimum and maximum detected values are given for each analyte. If the analyte was not detected in any sample, "ND" is shown for minimum or maximum detected values.

Note[2]: If the minimum or maximum result value occurs at more than one location only the location of the first occurrence is given.

[a] Includes normal and field duplicate samples.

[b] Does not include sample results rejected by validation.

[c] The only well sampled during this reporting period was NMW24. Statistics do not include the first sample collected November 22, 2022 under the NOI groundwater monitoring program.

The following detections were reported:

- TPH-d at or below the LOD was detected in the sample collected December 1, 2022 at sentinel well NMW24. The concentration, 100 µg/L, did not exceed the EAL. The TPH-d was removed by SGC, indicating the TPH-d in the sample is composed of polar compounds.
- TPH-o was detected in the sample collected December 1, 2022 at sentinel well NMW24. The concentration, 190 µg/L, did not exceed the EAL. SGC removed the TPH-o to below detection in the December 1 sample.

No BTEX EAL detections were reported during this reporting period.

No PAH COPCs were detected in samples collected from sentinel well NMW24.

Samples from sentinel well NMW24 were analyzed for NAPs during each of the sampling events in this reporting period. The analytes included alkalinity (total, bicarbonate, and carbonate), nitrate as nitrogen, nitrate-nitrite as nitrogen, chloride, sulfate, methane, ferrous iron, and TOC. The minimum and maximum concentrations and frequency of detection are summarized in Table 12.

9.3.4 Adit 3 Sump Water Analytical Results

Summary statistics for Adit 3 Sump water samples collected during the current reporting period are described below and provided in Table 13. Appendix B.4 provides cumulative Adit 3 Sump monitoring results compared to the EALs for each analyte group. Additionally, TPH results collected during the reporting period are graphically displayed over time in Appendix B.4.

9.3.4.1 TPH-g

TPH-g was not detected at the Adit 3 Sump during this reporting period. As depicted in Appendix B.4.5, TPH-g concentrations have primarily continued to decrease to non-detect since the November 2021 Release, with the first occurrence of a non-detect sample collected on March 29, 2022.

9.3.4.2 TPH-d

In the weeks following the November 2021 Release, TPH-d exceedances were reported for every sampling event at Adit 3 Sump. During the previous reporting period, there were no exceedances, and the relatively low-level concentrations were decreasing. During the current reporting period, TPH-d was detected in two samples out of two sampling events at low concentrations (99 J and 120 µg/L).

Table 13: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criterion	Number of Exceedances	Exceedance Frequency
TPH and Fuel Related Compounds														
TPH-g (Eurofins Labs)	PHCC6C10	8260	µg/L	2	2	0	0.0%	ND	—	ND	—	300	0	0.0%
TPH-d (Eurofins Labs)	PHCC10C24	8015DM	µg/L	2	0	2	100.0%	99	J	120		400	0	0.0%
TPH-d (Eurofins Labs) with Silica Gel Cleanup	PHCC10C24SGC	8015DM	µg/L	2	1	1	50.0%	83	J	83	J	—	0	0.0%
TPH-o (Eurofins Labs)	PHCC24C40	8015DM	µg/L	2	2	0	0.0%	ND	—	ND	—	500	0	0.0%
TPH-o (Eurofins Labs) with Silica Gel Cleanup	PHCC24C40SGC	8015DM	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Total Organic Carbon	—	—	µg/L	2	0	2	100.0%	380	J	400	J	—	0	0.0%
1,2-Dibromoethane	106-93-4	8011	µg/L	2	2	0	0.0%	ND	—	ND	—	0.04	0	0.0%
Methane	74-82-8	SW8015M	µg/L	2	0	2	100.0%	0.77	J	0.77	J	—	0	0.0%

Table 13: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criterion	Number of Exceedances	Exceedance Frequency
BTEX, Full Suite VOCs, and Lead														
Benzene	71-43-2	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Ethylbenzene	100-41-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	30	0	0.0%
Toluene	108-88-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	40	0	0.0%
Xylenes	1330-20-7	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	20	0	0.0%
Bromobenzene	108-86-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Bromochloromethane	74-97-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Bromodichloromethane	75-27-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	0.14	0	0.0%
Bromoform	75-25-2	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	80	0	0.0%
Carbon tetrachloride	56-23-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Chlorobenzene	108-90-7	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	25	0	0.0%
Chlorodibromomethane	124-48-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	0.93	0	0.0%
Chloroethane	75-00-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	16	0	0.0%
Chloroform	67-66-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	28	0	0.0%
Chloromethane	74-87-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	190	0	0.0%
2-Chlorotoluene	95-49-8	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
4-Chlorotoluene	106-43-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Dibromomethane	74-95-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Dichlorodifluoromethane	75-71-8	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
1,1-Dichloroethane	75-34-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	2.8	0	0.0%
1,2-Dichloroethane	107-06-2	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
1,1-Dichloroethene	75-35-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	7	0	0.0%
cis-1,2-Dichloroethene	156-59-2	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	70	0	0.0%
trans-1,2-Dichloroethene	156-60-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	100	0	0.0%
1,2-Dichloropropane	78-87-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
1,3-Dichloropropane	142-28-9	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
2,2-Dichloropropane	594-20-7	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
1,1-Dichloropropene	563-58-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
cis-1,3-Dichloropropene	10061-01-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
trans-1,3-Dichloropropene	10061-02-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Methyl ethyl ketone	78-93-3	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5600	0	0.0%
Methyl tert-butyl ether (MTBE)	1634-04-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Methylene chloride	75-09-2	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Styrene	100-42-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	10	0	0.0%
1,1,1,2-Tetrachloroethane	630-20-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	0.61	0	0.0%
1,1,2,2-Tetrachloroethane	79-34-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	0.078	0	0.0%
Tetrachloroethene	127-18-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
1,1,1-Trichloroethane	71-55-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	11	0	0.0%
1,1,2-Trichloroethane	79-00-5	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Trichloroethene	79-01-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
Trichlorofluoromethane	75-69-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
1,2,3-Trichloropropane	96-18-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	0.6	0	0.0%
Vinyl chloride	75-01-4	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	2	0	0.0%
m+p-Xylenes	179601-23-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
o-Xylene	95-47-6	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Lead	7439-92-1	SW6020	µg/L	2	0	2	100.0%	1.8		1.9		5.6	0	0.0%
Dissolved Lead	7439-92-1	SW6020	µg/L	2	0	2	100.0%	0.28	J	0.32	J	—	0	0.0%

Table 13: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criterion	Number of Exceedances	Exceedance Frequency
SVOCs														
1,2,4-Trichlorobenzene	120-82-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	70	0	0.0%
1,2-Dichlorobenzene	95-50-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	10	0	0.0%
1,3-Dichlorobenzene	541-73-1	8260B	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
1,4-Dichlorobenzene	106-46-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	5	0	0.0%
2,4,5-Trichlorophenol	95-95-4	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	1.9	0	0.0%
2,4,6-Trichlorophenol	88-06-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	4.9	0	0.0%
2,4-Dichlorophenol	120-83-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.3	0	0.0%
2,4-Dimethylphenol	105-67-9	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	120	0	0.0%
2,4-Dinitrophenol	51-28-5	SW8270C	µg/L	1	1	0	0.0%	ND	—	ND	—	14	0	0.0%
2,4-Dinitrotoluene	121-14-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.25	0	0.0%
2,6-Dinitrotoluene	606-20-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.05	0	0.0%
2-Chloronaphthalene	91-58-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
2-Chlorophenol	95-57-8	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.18	0	0.0%
2-Nitrophenol	88-75-5	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
3,3´-Dichlorobenzidine	91-94-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.17	0	0.0%
4,6-Dinitro-2-methylphenol	534-52-1	SW8270C	µg/L	1	1	0	0.0%	ND	—	ND	—	—	0	0.0%
4-Bromophenyl phenyl ether	101-55-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
4-Chloro-3-methylphenol	59-50-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
4-Chlorophenyl phenyl ether	7005-72-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
4-Nitrophenol	100-02-7	SW8270C	µg/L	0	0	0	—	—	R	—	R	—	—	—
Azobenzene	103-33-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
bis(-2-chloroethoxy)Methane	111-91-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
bis(-2-chloroethyl)Ether	111-44-4	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.014	0	0.0%
bis(2-chloroisopropyl)Ether	108-60-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
bis(2-ethylhexyl)Phthalate	117-81-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	3	0	0.0%
Butylbenzylphthalate	85-68-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Di-n-butyl phthalate	84-74-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Di-n-octyl phthalate	117-84-0	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Diethyl phthalate	84-66-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	210	0	0.0%
Dimethyl phthalate	131-11-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	1100	0	0.0%
Hexachlorobenzene	118-74-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.0003	0	0.0%
Hexachlorobutadiene	87-68-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.2	0	0.0%
Hexachlorocyclopentadiene	77-47-4	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Hexachloroethane	67-72-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.4	0	0.0%
Isophorone	78-59-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	82	0	0.0%
m+p-Cresols	15831-10-4	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
n-Nitroso-di-n-propylamine	621-64-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
n-Nitrosodimethylamine	62-75-9	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
n-Nitrosodiphenylamine	86-30-6	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Nitrobenzene	98-95-3	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	0.14	0	0.0%
o-Cresol	95-48-7	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%
Pentachlorophenol	87-86-5	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	1	0	0.0%
Phenol	108-95-2	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	58	0	0.0%
Pyridine	110-86-1	SW8270C	µg/L	2	2	0	0.0%	ND	—	ND	—	—	0	0.0%

Table 13: Summary of Adit 3 Sump Analytical Results for Current Reporting Period (11/5/2022 to 2/3/2023) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier	Criterion	Number of Exceedances	Exceedance Frequency
PAHs														
1-Methylnaphthalene	90-12-0	8270D SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270D SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	10	0	0.0%
Naphthalene	91-20-3	8270D SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	17	0	0.0%
Acenaphthene (SIM)	83-32-9	8270SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	15	0	0.0%
Acenaphthylene (SIM)	208-96-8	8270SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	13	0	0.0%
Anthracene (SIM)	120-12-7	8270SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	0.02	0	0.0%
Benzo(a)anthracene (SIM)	56-55-3	8270SIM	µg/L	2	0	2	100.0%	0.016	J	0.049		0.027	1	50.0%
Benzo(a)pyrene (SIM)	50-32-8	8270SIM	µg/L	2	1	1	50.0%	0.054	J	0.054	J	0.06	0	0.0%
Benzo(b)fluoranthene (SIM)	205-99-2	8270SIM	µg/L	2	0	2	100.0%	0.019	J	0.048		0.22	0	0.0%
Benzo(g,h,i)perylene (SIM)	191-24-2	8270SIM	µg/L	2	1	1	50.0%	0.031	J	0.031	J	0.13	0	0.0%
Benzo(k)fluoranthene (SIM)	207-08-9	8270SIM	µg/L	2	1	1	50.0%	0.026	J	0.026	J	0.4	0	0.0%
Chrysene (SIM)	218-01-9	8270SIM	µg/L	2	1	1	50.0%	0.073	J	0.073	J	1	0	0.0%
Dibenzo(a,h)anthracene (SIM)	53-70-3	8270SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	0.022	0	0.0%
Fluoranthene (SIM)	206-44-0	8270SIM	µg/L	2	0	2	100.0%	0.023	J	0.1	J	0.8	0	0.0%
Fluorene (SIM)	86-73-7	8270SIM	µg/L	2	2	0	0.0%	ND	—	ND	—	3.9	0	0.0%
Indeno(1,2,3-cd)pyrene (SIM)	193-39-5	8270SIM	µg/L	2	1	1	50.0%	0.05		0.05		0.095	0	0.0%
Phenanthrene (SIM)	85-01-8	8270SIM	µg/L	2	1	1	50.0%	0.036	J	0.036	J	2.3	0	0.0%
Pyrene (SIM)	129-00-0	8270SIM	µg/L	2	0	2	100.0%	0.032	J	0.12		4.6	0	0.0%

Acronyms and Footnotes:

CAS-Chemical Abstracts Service

J-estimated: the analyte was positively identified; the quantitation is an estimation

ND-not detected

µg/L-microgram per Liter

%-percent

Note[1]: The minimum and maximum detected values are given for each analyte. If the analyte was not detected in any sample, "ND" is shown for minimum or maximum detected values.

[a] Includes normal and field duplicate samples.

[b] Does not include sample results rejected by validation.

9.3.4.3 TPH-o

In the weeks following the November 2021 Release, TPH-o exceedances were reported for every sampling event at Adit 3 Sump, but concentrations have been decreasing since that time. During the previous reporting period, there were no exceedances, and relatively low-level concentrations were decreasing. During the current reporting period, TPH-o was not detected in any sample.

9.3.4.4 LEAD SCAVENGERS

As was the case during the previous reporting period, 1,2-dibromoethane and 1,2-dichloroethane were not detected at the Adit 3 Sump during this reporting period.

9.3.4.5 TOTAL AND DISSOLVED LEAD

Total lead was detected (1.9 and 1.8 µg/L) but did not exceed the EAL (5.6 µg/L) in all samples. Dissolved lead was detected (0.28 J and 0.32 J µg/L) below the EAL in all samples.

9.3.4.6 BTEX

Benzene, toluene, ethylbenzene and xylene were not detected at the Adit 3 Sump during this reporting period. As depicted in Appendix B.4.5, concentrations have continued to be stable and range from low-level, estimated concentrations to not-detected since the November 2021 Release.

9.3.4.7 VOCS

As depicted in Appendix B.4.5, sporadic low-level, estimated detections of chloroform and chloromethane have continued to be consistent, as was the case during the previous reporting period.

9.3.4.8 SVOCS

As was the case during the previous reporting period, no SVOCs were detected during this reporting period.

9.3.4.9 PAHS

As was the case during the previous reporting period, N, 1-MN, and 2-MN were not detected at Adit 3 Sump during this reporting period.

A pyrogenic PAH exceedance occurred for benzo(a)anthracene for one of two collection events; benzo(a)anthracene exceeded the EAL during the first collection event (0.049 µg/L, EAL 0.027 µg/L).

Four pyrogenic PAHs were detected for both collection events during the reporting period: benzo(a)anthracene, benzo(b)fluoranthene, fluoranthene, and pyrene. Five pyrogenic PAHs were detected for one collection event: benzo(a)pyrene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene.

One non-pyrogenic PAH, phenanthrene, was detected during one collection event, which may be due to contamination unrelated to site groundwater conditions.

PAHs have also been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8.

10.0 Summary of Results and Extent and Magnitude of Contamination

This section summarizes the results presented in Section 9.0 and provides historical context for evaluating the impacts of the January 2014, May 2021, and November 2021 Releases.

10.1 Soil Vapor Impacts

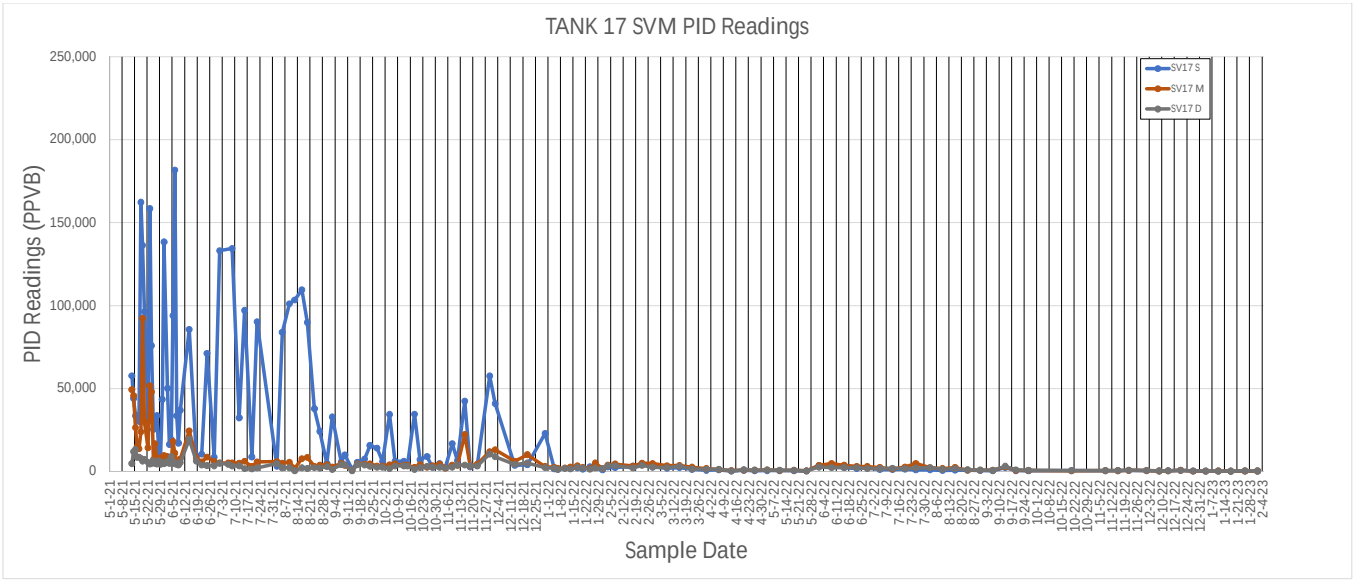
10.1.1 Below-Tank Monitoring Points

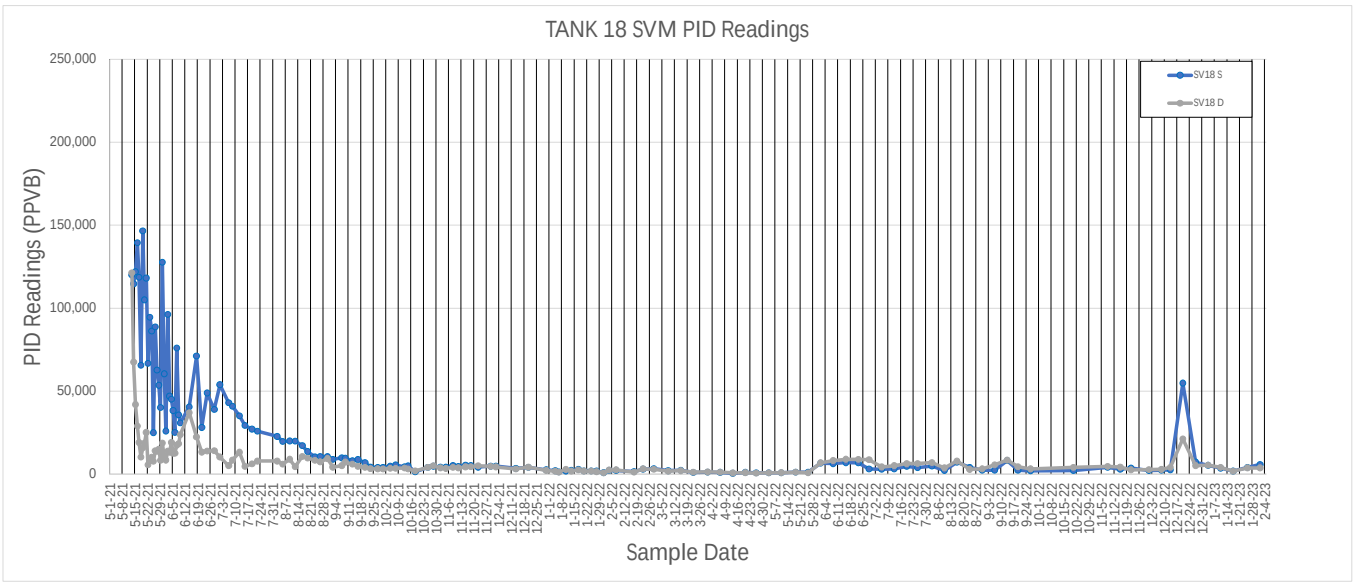
10.1.1.1 FIELD MEASUREMENTS

PID results over time for SVMPs at Tanks 17, 18, and 20 are presented on Figure 15 and summarized as follows:

- At Tank 17, the highest PID reading (181,733 ppbv) was recorded on June 6, 2021 at SV17S, and PID readings have significantly declined since that time.
- At Tank 18, the highest PID reading (146,667 ppbv) was recorded on May 19, 2021 at SV18S, and PID readings have significantly declined since that time.
- At Tank 20, the highest PID reading (232,667 ppbv) was recorded on May 13, 2021 at SV20M, and PID readings have significantly declined since that time.

On December 20, 2022, PID readings at SV18S (54,890 ppbv) and SV18D (21,220 ppbv) were elevated relative to recent prior readings (i.e., consistently less than 10,000 ppbv over the prior 6 months). However, PID readings at these two locations for the subsequent weekly monitoring events (i.e., December 27, 2022 to February 1, 2023) were within the range observed prior to December 20, 2023 (i.e., consistently less than 10,000 ppbv). As discussed in Section 9.1.1.3, the laboratory analytical results for samples collected from SV18S and 18D on December 20, 2022 do not indicate a new release of JP-5.





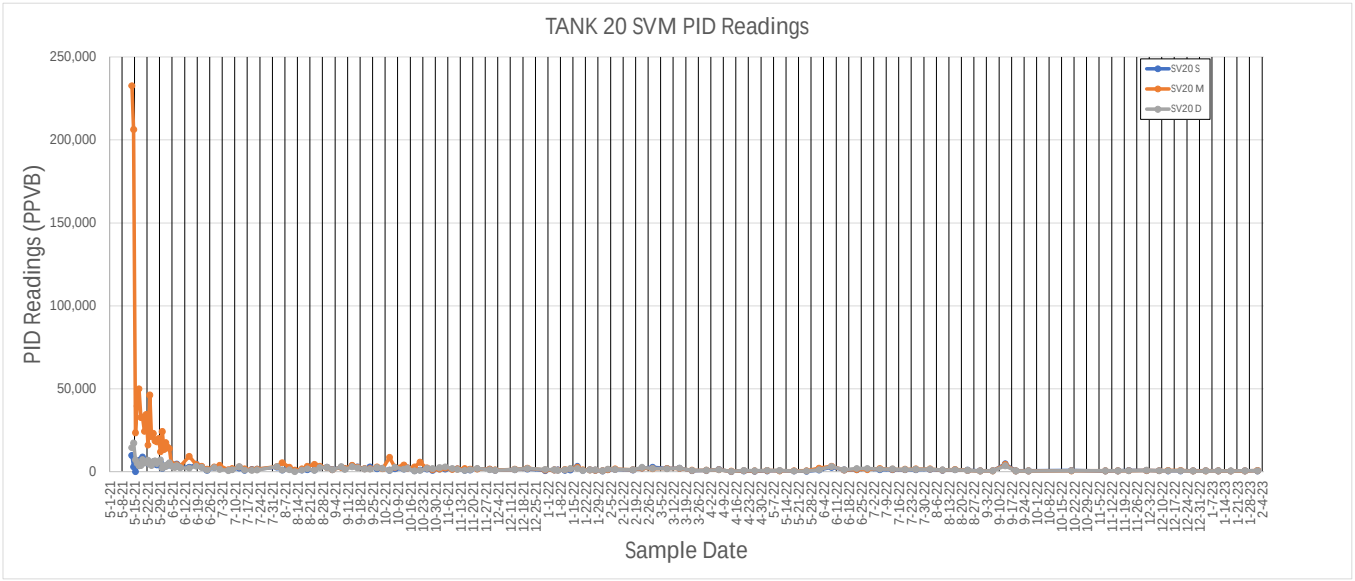


Figure 15: SVM PID Readings for Tanks 17, 18, and 20

10.1.1.2 FIXED-BASE LABORATORY SAMPLE RESULTS

As documented in prior reports (e.g., DON 2022i), Summa canister samples collected in 2021 and early 2022 and analyzed for total VOCs by Method TO-15 and Method TO-3 served to document weathering of the May 2021 release over time consistent with biodegradation and other weathering processes. Laboratory results over the current sampling period (i.e., November 2022 to January 2023) were similar to prior results and consistent with continued long-term biodegradation and weathering of the May 2021 Release.

On December 20, 2022, additional Summa canister samples were collected from SV18S and SV18D in response to elevated PID readings at those two locations on that day. As discussed in Section 9.1.1.3, the analytical results for these samples do not indicate a new release of JP-5.

*10.1.2 Adit 3 Tunnel Monitoring Location*s

The extent and magnitude of soil vapor impacts at Adit 3 Tunnel monitoring locations are described below.

At most SVMPs, the highest PID readings were recorded in December 2021 or January 2022 (Figure 9). PID readings have generally decreased over that time, consistent with LNAPL weathering and natural attenuation.

The results of subslab soil vapor monitoring from SVMPs installed in the floors of the Adit 3 and Pearl Harbor Tunnels indicate the following:

- In the first approximate 3-month period following the release, elevated PID readings were observed in the subslab from the release area west toward the Adit 3 portal (SVMP array A3).
- The area of elevated PID readings in the Adit 3 Tunnel east-southeast of the release area is delineated by low PID readings at SVMPs A3-400, A3-425, and A3-450, and southwest in the Pearl Harbor Tunnel by low PID readings at SVMPs 2S+200, 2S+225, 2S+250, 2S+275, and 2S+300.
- The local areas of soil vapor maxima during this reporting period were consistent with those previously reported:
  - Adit 3 Tunnel release area between A3-325 and A3-375
  - Upper Pearl Harbor Tunnel, just southwest of the merge, between S2+25 and S2+100
  - Between the Pearl Harbor Tunnel merge and the Water Pumping Station, between A3-100 and A3-150
  - Adit 3 Sump where fuel accumulated during the release, between A3+250 and A3+375
- Within the areas of local soil vapor maximum readings, PID readings decreased over time (since commencement of NOI PID monitoring in the tunnels in December 2021).

10.2 Groundwater Impacts

Table 10, Table 11, Table 12, and Table 13 present summary statistics for NOI, delineation well, sentinel well, and Adit 3 groundwater sampling results, respectively. Table 14 presents a summary of groundwater concentrations detected above the DOH EALs. Chloroform was the most commonly detected analyte. TPH-d and TPH-o were most often detected consistently at in-tunnel sampling locations. At least one groundwater sample had detected concentrations above the DOH EAL for one of the following compounds during this reporting period: TPH-d, TPH-o, bromodichloromethane, bis(2-ethylhexyl) phthalate, 1MN, N and benzo(a)anthracene. The vast majority of the analytes were not detected in any sample or infrequently detected. Additional details for each of these compounds are summarized below.

10.2.1 TPH-d

The overall frequency of TPH-d detections during this reporting period was 10%. TPH-d detections above the DOH EAL of 400 µg/L have been reported consistently at well RHMW02 since it was installed in 2005. There was one other detection above the EAL in RHMW03. Both wells are in-tunnel wells. No other wells reported exceedances of TPH-d.

The chromatographic fingerprint in RHMW02 resembles water-soluble components of jet fuel and metabolites from fuel biodegradation. Most of the TPH-d is removed by SGC (used to remove the polar material), indicating ongoing biodegradation and weathering of fuel in this location. The RHMW03 exceedance exhibited broad peaks and baseline rise sporadically dispersed throughout the TPH-d carbon range and extended into the TPH-d carbon ranges. All TPH was removed by SGC.

TPH-d below the DOH EAL was detected at in-tunnel wells RHMW01R and RHMW05, two outlying multilevel wells (RHMW11-05 and RHMW15-05), three delineation wells (RHP03, RHP04A, and RHP04B), and one sentinel well (NMW24). The detections in these wells were below 100 µg/L except for RHMW01R and RHP04B. SGC removed most or all the TPH-d concentrations from all these samples except for some of the TPH-d in RHMW01R, indicating that most or all the detected hydrocarbons are polar compounds or metabolites. This may be indicative (but not exclusively so) of biodegradation and weathering of fuels or may not be related to fuels and instead may be associated with naturally occurring organic matter or sample handling artifacts.

Table 14: Summary of Current Groundwater Result Exceedances

Analyte							TPH-d (Eurofins Labs)		TPH-o (Eurofins Labs)		1-Methylnaphthalene		Naphthalene		Benzo(a)anthracene (SIM)		bis(2-ethylhexyl)Phthalate		Bromodichloromethane	
CAS No.							PHCC10C24		PHCC24C40		90-12-0		91-20-3		56-55-3		117-81-7		75-27-4	
Method							8015DM		8015DM		8270SIM		8270SIM		8270SIM		SW8270C		8260B	
DOH Tier 1 EAL							400		500		10		17		0.027		3		0.14	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	2022-11-14	Field Duplicate	V	—		—		—		—		0.03	J	—		—	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	2022-11-21	Primary	V	—		—		—		—		—		4		—	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	2022-11-22	Primary	V	—		—		—		—		0.032	J	—		—	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	2022-11-22	Primary	V	470		500		—		—		0.17	J	—		—	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	2022-11-22	Primary	V	3000		—		—		—		—		—		—	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	2022-11-22	Primary	V	—		—		—		—		—		—		0.17	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	2022-11-30	Primary	V	1900		—		13		26		—		—		—	

Acronyms and Footnotes:
CAS-Chemical Abstracts Service
J-estimated: the analyte was positively identified; the quantitation is an estimation
ND-not detected
V-results have been validated
µg/L-microgram per Liter
%-percent
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.

10.2.2 TPH-o

The overall frequency of TPH-o detection during this reporting period was 7.8%. TPH-o was detected at in-tunnel wells RHMW01R, RHMW02 and RHMW03 during this reporting period. These wells have had historical detections for TPH-o, and concentrations appear to be stable. Concentrations were below the DOH EAL of 500 µg/L except for one detection at RHMW03 (500 µg/L).

TPH-o was detected in one sample at sentinel well NMW24. The chromatogram from this well (Appendix B.5) is not consistent with fuels, dissolved components of fuels, or fuel metabolites.

Several of the method blanks had peaks that have hydrocarbon-like patterns, typically above carbon range C20, which may obscure interpretation of TPH-o chromatograms. A corrective action report was provided by Eurofins Seattle (included in the December 21, 2022 Quarterly RRR as Appendix E) providing further support that discrete peak patterns in the method blanks are contributing to the chromatographic pattern observed. However, this is an on-going issue that is not yet resolved.

SGC performed on the groundwater extracts removed the TPH-o concentration from all but one sample from NMW24, indicating either that TPH-o in most of these samples is composed of polar compounds or metabolites (i.e., heavily biodegraded/weathered material) or that the material detected as TPH may not be related to fuels.

10.2.3 Full Suite VOCs including BTEX

No BTEX EAL exceedances were reported for any wells monitored during this reporting period.

Toluene was not detected in any well. One low-level detection of benzene was reported at in-tunnel well RHMW02, but benzene was not detected in the following week. Current ethylbenzene and total xylene detections at RHMW02 are stable and consistent with historical detections indicative of a weathered LNAPL source prior to any recorded releases.

The only other types of VOCs detected are halogenated compounds not associated with fuels.

The only VOC EAL exceedance was reported for sentinel well NMW24 for bromodichloromethane. Three THMs were also detected in this well (bromoform, chlorodibromomethane, and chloroform). THMs are disinfection by-products when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water. They may have been introduced if tap/potable water has been used during drilling or well development, especially since the well was completed November 2022.

Chloroform or chloromethane were detected in 12 groundwater wells during multiple collection events. These detections are consistent with historical investigations. As reported in the June 30, 2019 Red Hill CSM report (DON 2019), chloroform and chloromethane were historically detected,

and the report concluded that detects were not associated with a fuel release and instead were associated with field or laboratory contamination, well construction or maintenance, or historical or current activities at the site.

Trichloroethene was detected in RHMW06. Chlorodibromomethane and carbon tetrachloride were detected in OWDFMW04A. Carbon tetrachloride has been consistently detected at low concentrations at OWDFMW04A only since August 1, 2022, and concentrations were flagged as estimated.

None of these halogenated compounds are associated with fuels. Low-level random detections of these types of compounds are not unexpected from analysis of samples from many different sites at commercial laboratories. VOCs have been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8.

10.2.4 Full Suite SVOCs

SVOC exceedance for bis(2-ethylhexyl) phthalate was reported during one monitoring event this reporting period at RHMW11-05; the compound was not detected during a subsequent monitoring event.

Other phthalates detected include butyl benzyl phthalate, diethyl phthalate and dimethyl phthalate. Phthalates are commonly found in solvents used as wetting agents and as plasticizers. They are not associated with fuels. As reported in the 2019 CSM report (DON 2019), various phthalates, including bis(2-ethylhexyl) phthalate and dimethyl phthalate, were historically detected during previous sampling events. The CSM report concluded that the detects were not associated with a fuel release and instead are associated with sampling equipment or laboratory contamination issues. The phthalate detections may also be indicators of sampling equipment or laboratory contamination issues, as supported by blank contamination and failing QC criteria.

Originally, 4-chlorophenyl phenyl ether was originally reported once at RHMW02, but the laboratory had since confirmed this result as a false positive, and the report will be re-issued. Similarly, 2,6-dinitrotoluene was reported twice in OWDFMW05A but the laboratory had since confirmed these results as false positives, and the report will be re-issued. The detection limit of the method is greater than the EAL, therefore these false positives were reported as exceeding EAL.

10.2.5 PAHs

Non-pyrogenic PAHs detected above the DOH EALs during this reporting period include exceedances for 1MN and N at RHMW02, which are consistent with historical data. Samples from RHMW02 also contain other non-pyrogenic PAHs (acenaphthene, acenaphthylene, and fluorene). This well is known to have been impacted by historical fuel releases.

Other non-pyrogenic PAHs were detected in samples from RHMW01R (1MN, 2MN, N, acenaphthene, and fluorene) and samples from RHMW05 and RHMW09 (1MN, 2MN and N) during this reporting period.

Pyrogenic PAHs were detected at in-tunnel wells RHMW01R, RHMW02, RHMW03, and RHMW05 and outlying well OWDFMW04A, which may be due to contamination unrelated to site groundwater conditions. Benzo(a)anthracene concentrations exceeded the EAL once in RHMW03, RHMW05, and OWDFMW04A, and were low-level, estimated detects. Generally, the limit of detection of the method is greater than the EAL. This is the first exceedance for benzo(a)anthracene at RHMW03 and OWDFMW04A, and the second exceedance at RHMW05. PAHs have also been observed in laboratory, field, or equipment QC blanks, as summarized in Table 8. Pyrogenic PAHs are not associated with fuels but are from combustion sources and/or lab artifacts associated with low-level analytical methods.

Non-pyrogenic PAHs detected during multiple sampling events at RHMW01R and RHMW02 appear stable.

10.2.6 Natural Attenuation Parameters

The delineation well samples were analyzed for NAPs during the initial two to three sampling events after well completion. The minimum and maximum concentrations and frequency of detection are summarized in Table 10. The absence of dissolved-phase COPCs coupled with the NAP results (e.g., low to no methane, low ferrous iron, and moderate [not low] levels of nitrate) indicate that the delineation wells have not been impacted by petroleum hydrocarbons, and no appreciable biodegradation is occurring in these locations.

10.2.7 Adit 3 Sump Water

Analytical results for Adit 3 Sump water samples are presented in Section 9.3.4. Table 13 presents summary statistics for the Adit 3 sampling results during the current reporting period. A pyrogenic PAH exceedance occurred for benzo(a)anthracene (0.049 µg/L, EAL 0.027 µg/L) during this reporting period.

TPH-g, TPH-o, VOCs, SVOCs, 1MN, 2MN, and N were not detected in any samples reported in this reporting period.

TPH-d was detected in two samples at low concentrations (99 J and 120 µg/L).

PAHs detected in one or two of the samples during this sampling period include benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. Pyrogenic PAHs are not associated with fuels and may be infiltrating into Adit 3 Sump from other sources such as urban deposition and runoff.

In the weeks following the November 2021 Release, TPH-d and TPH-o exceedances were reported for every sampling event at Adit 3 Sump. Currently, Adit 3 appears to be stable, and detections are representative of anthropogenic combustion sources.

11.0 Conclusions and Recommendations

11.1 Conclusions

Soil Vapor Impacts. As described in Section 9.1, the magnitude of soil vapor impacts associated with the fuel releases continue to decrease over time, consistent with natural attenuation and weathering of LNAPL in the environment.

Groundwater Impacts. Groundwater impacts primarily include elevated concentrations of TPH-d and TPH-o at in-tunnel sampling location RHMW02 and to a lesser extent at the other in-tunnel wells RHMW01R and RHMW03. Concentrations of all formerly elevated COPCs near Red Hill Shaft have decreased considerably since operation of skimmers, sorbents, and the Red Hill Shaft GAC treatment system commenced. There were no COPC detections at Red Hill Shaft (other than lead) during this reporting period. The only other compounds detected at Red Hill Shaft were chloroform and chloromethane, which are not associated with fuels.

Concentrations of TPH-d and TPH-o above the LOD at delineation well RHP04B and sentinel well NMW24 were detected during this reporting period; however, none exceed the EALs and the chromatographic profiles for the samples are not consistent with those expected from dissolved fuel components.

In general, contaminant concentrations appear to be declining (in most areas) or stable (near the tank farm) over time.

11.2 Recommendations and Planned Future Actions

Extensive sampling and monitoring activities in response to the fuel releases are ongoing. Data are being collected to:

- Evaluate the impact and extent of the releases to the environment.
- Evaluate the effectiveness of the Red Hill Shaft GAC pump and treat system in containing impacted groundwater and preventing additional migration of contaminants.
- Monitor potential future migration of contaminants and potential impacts to offsite receptors including existing and newly installed Navy wells and additional wells identified while working in coordination with the Honolulu BWS.
- Evaluate remedial alternatives and determine future remediation strategies.
- Conduct pilot testing as needed to evaluate remediation effectiveness and optimize remedial alternatives.

Release response actions for the vadose zone were performed in accordance with the *Preliminary Site Characterization Plan* (DON 2022a). The results of the in-tunnel investigation will be provided in a future report once investigation activities are completed and laboratory analytical reports have been finalized.

The Navy recommends continued soil vapor and groundwater sampling, site characterization at Adit 3, including installation of an additional deep SVMP, conducting initial site characterization activities at the CHT Tank area outside Adit 3, data gathering, and associated analyses in coordination with DOH. The Navy is also expanding the groundwater monitoring well network (including sentinel wells) as part of plume delineation efforts and to monitor groundwater quality between Red Hill and offsite water supply wells.

The Navy will finalize the following technical memorandum and closure report once comments are received from the Regulatory Agencies:

- *Technical Memorandum, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release;* November 2022
- *Draft Closure Report, Concrete Tank Removal;* January 2023

The Navy will continue site characterization efforts and implement pilot projects once the Regulatory Agencies review and approve the following WPs:

- *Site Characterization Plan Addendum – Collection, Hold, and Transfer Tank Overflow Site Characterization, November 2021 Release;* November 2022
- *Draft Shallow Soil Vapor Extraction and Air Sparging Work Plan; J*anuary 9, 2023
- *Draft Natural Source-Zone Depletion Work Plan;* February 23, 2023
- *Draft Deep Soil Vapor Extraction Work Plan;* February 27, 2023

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Appendix A – Soil Vapor Results

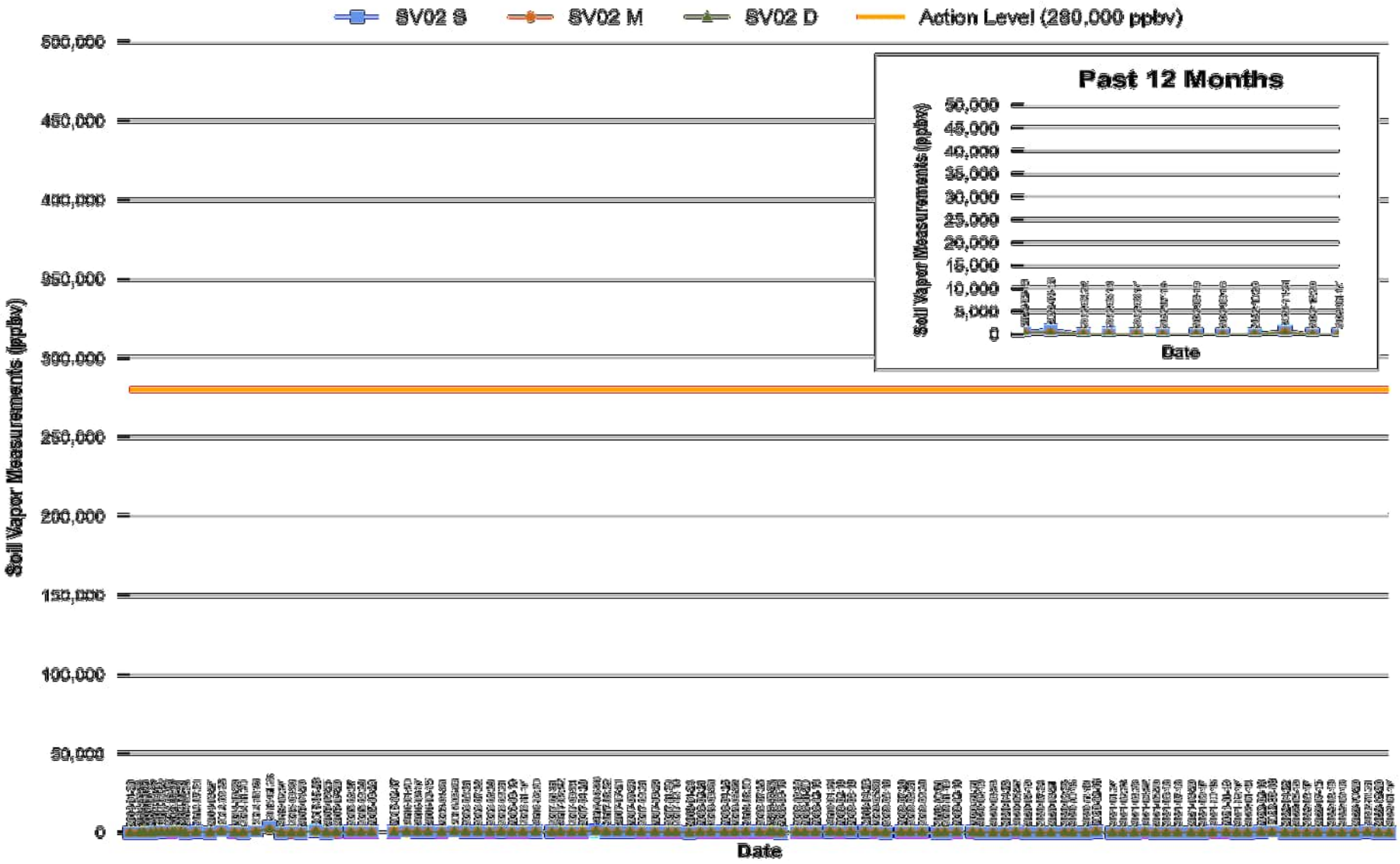
Appendix A.1 – AOC Soil Vapor Measurements Collected Below Tanks, January 2014 through January 2023

Appendix A.2 – NOI Soil Vapor PID Concentrations

Appendix A.3 – NOI Soil Vapor Chromatograms

Appendix A.1 – AOC Soil Vapor Measurements Collected Below Tanks, January 2014 through January 2023

Figure 1
Red Hill - Tank 02 (F-24)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

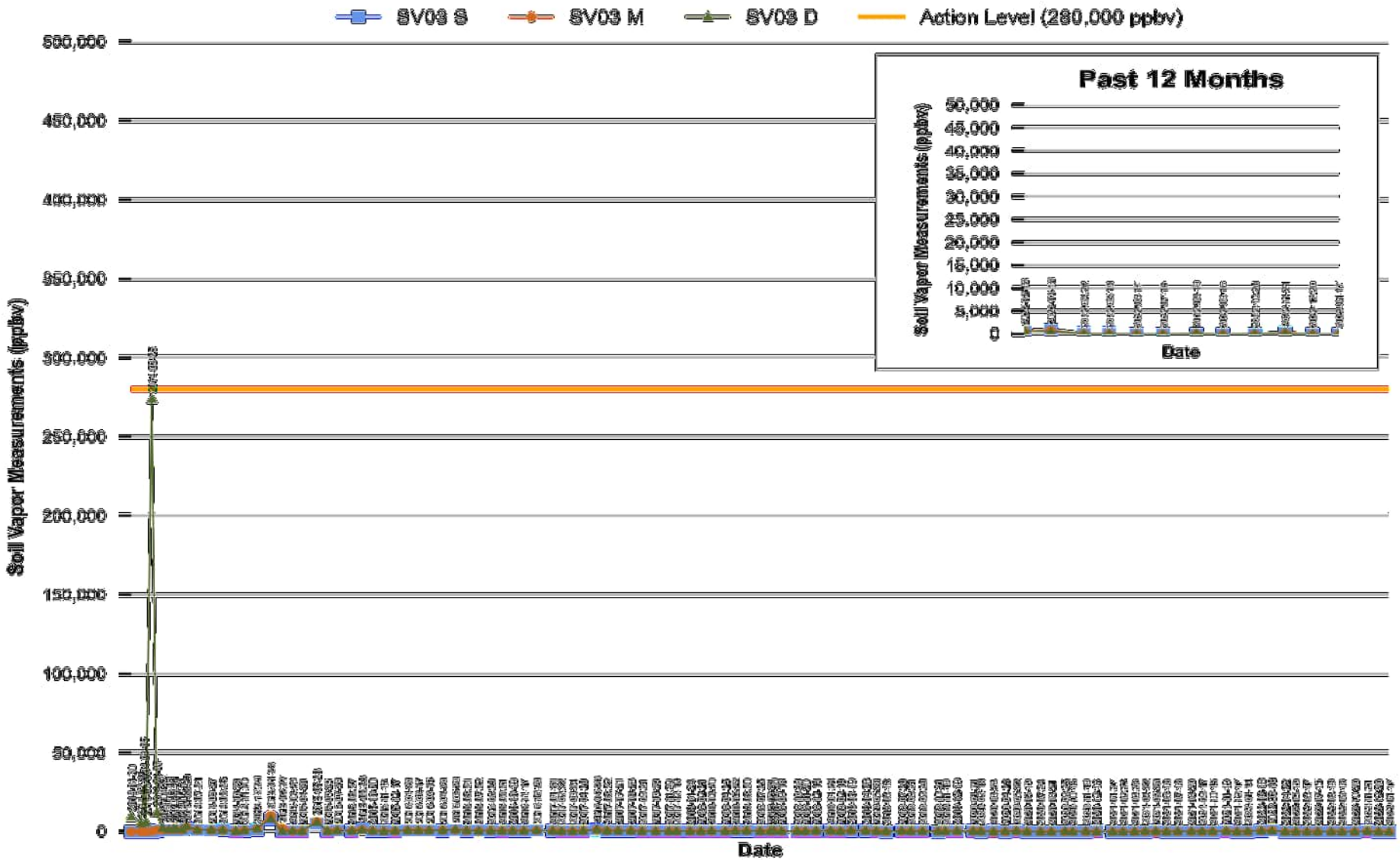


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 2
Red Hill - Tank 03 (F-24)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

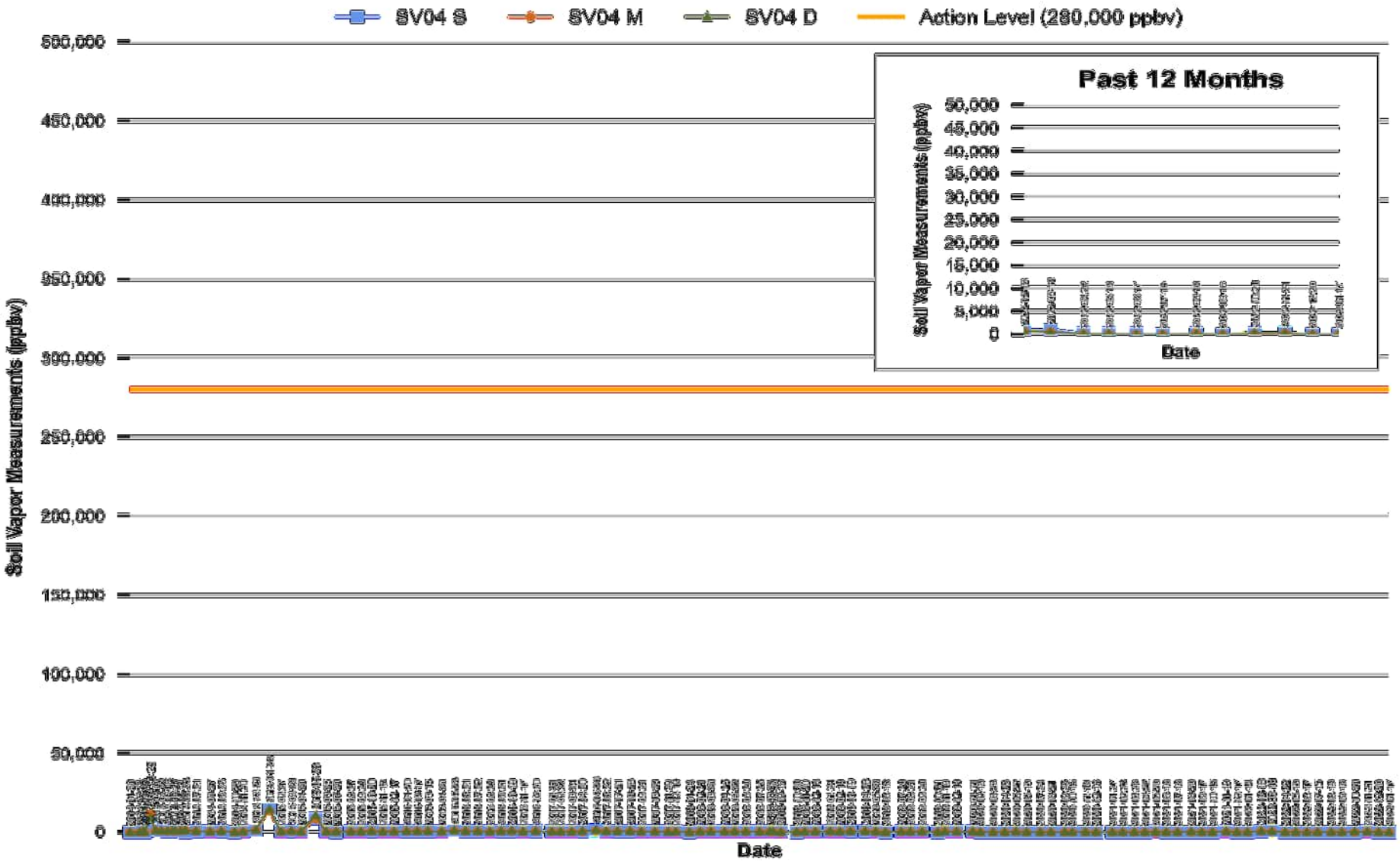


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 3
Red Hill - Tank 04 (F-24)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

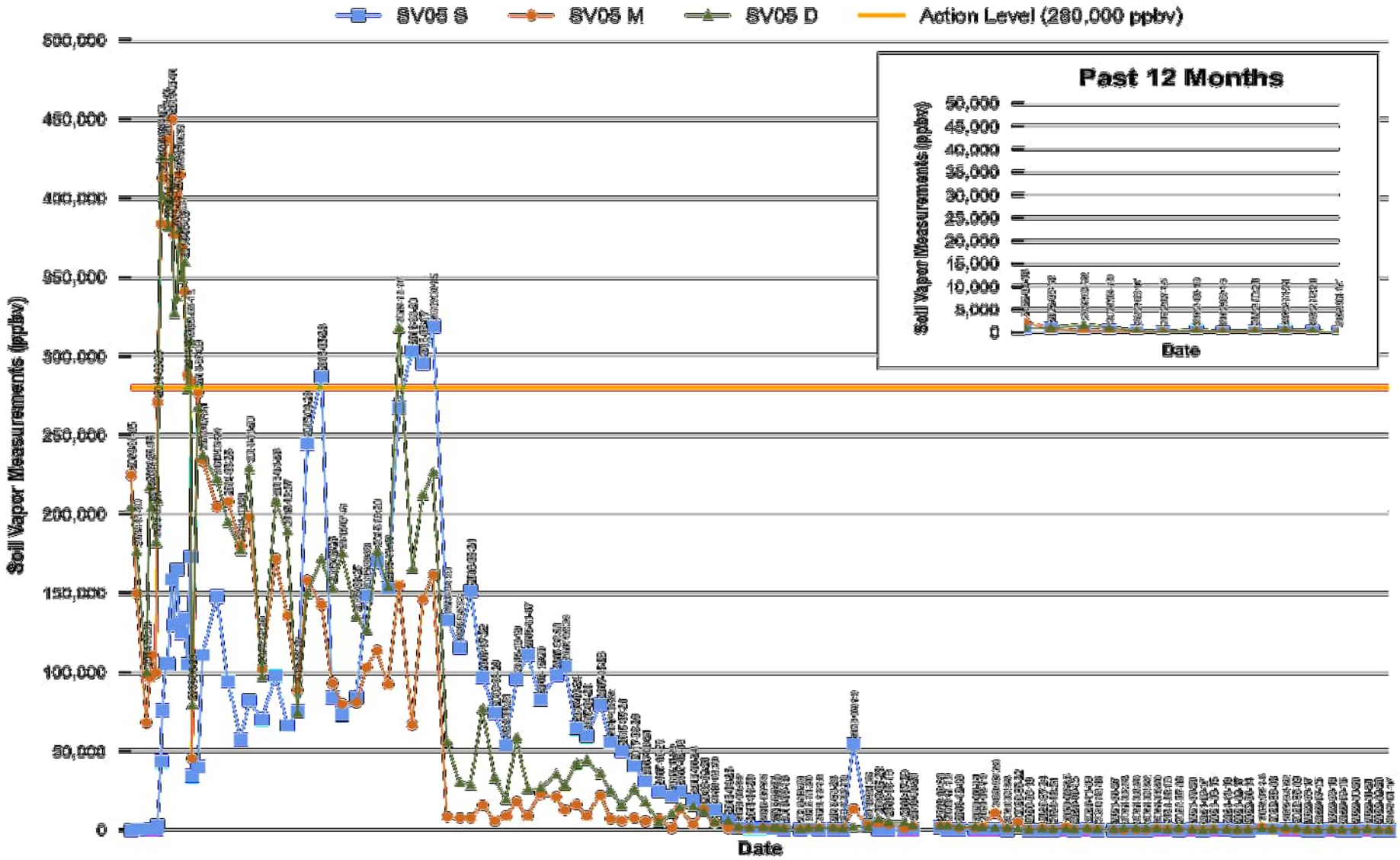


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 4
Red Hill - Tank 05 (F-24)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

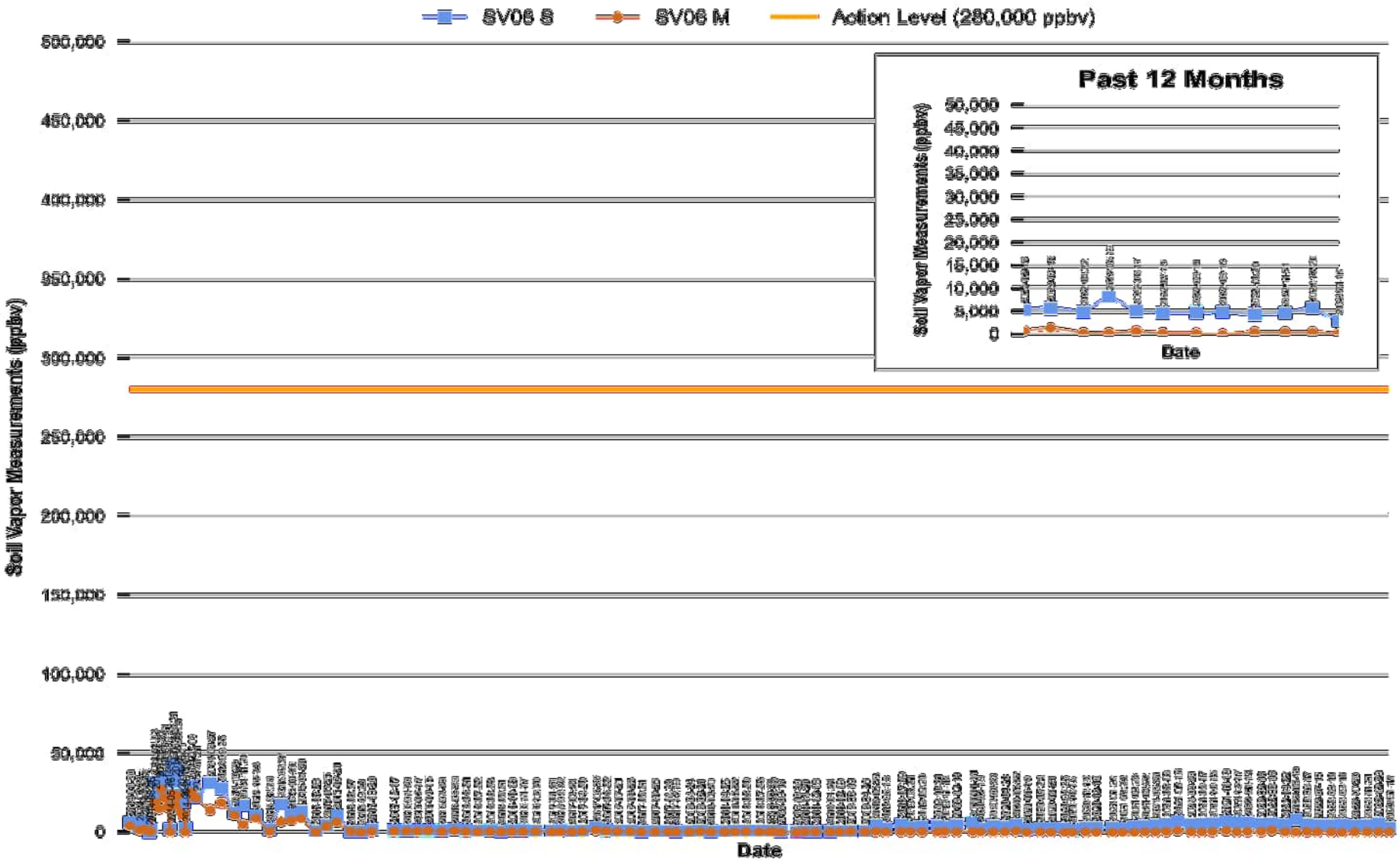


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 5
Red Hill - Tank 06 (F-24)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

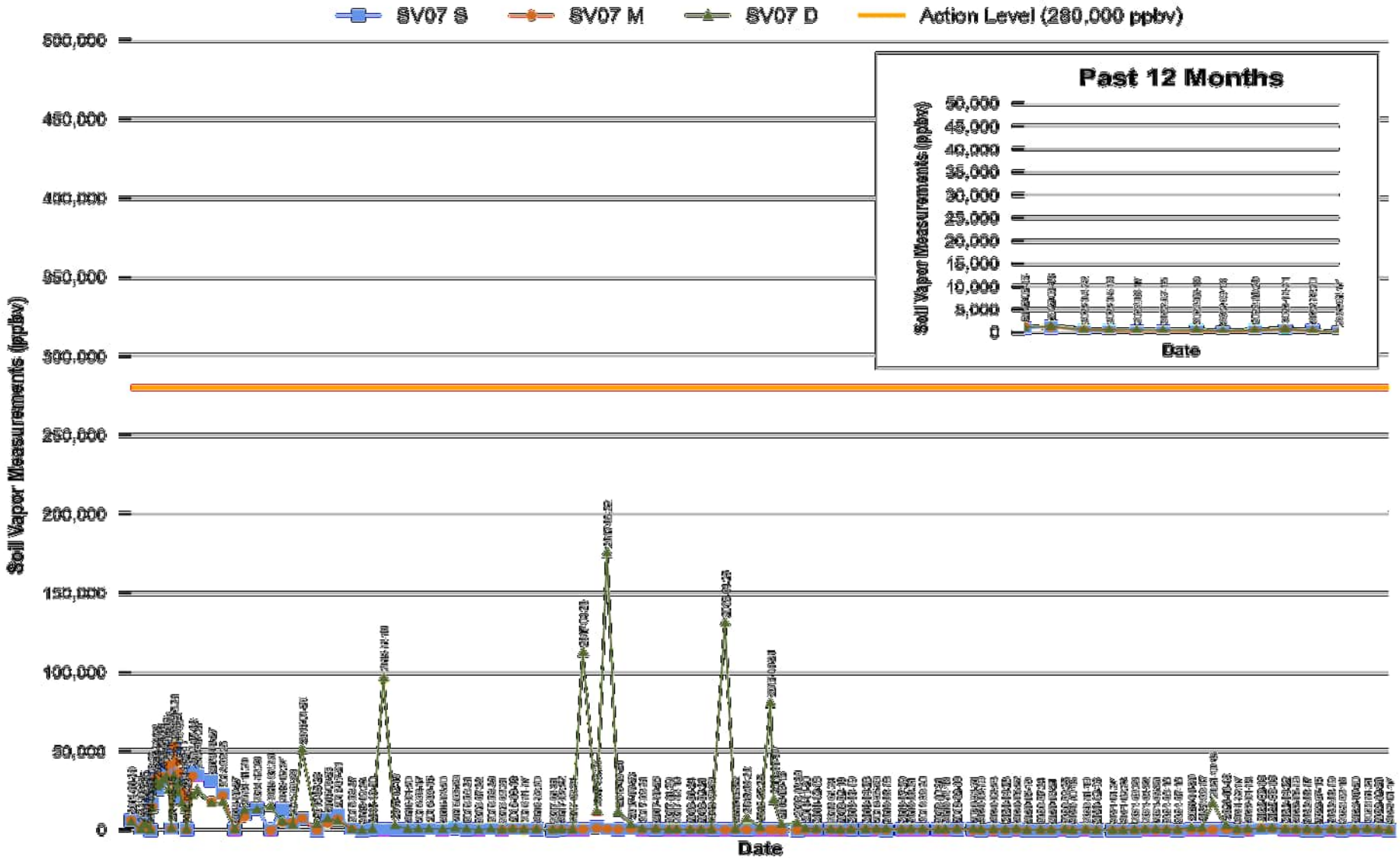


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 6
Red Hill - Tank 07 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

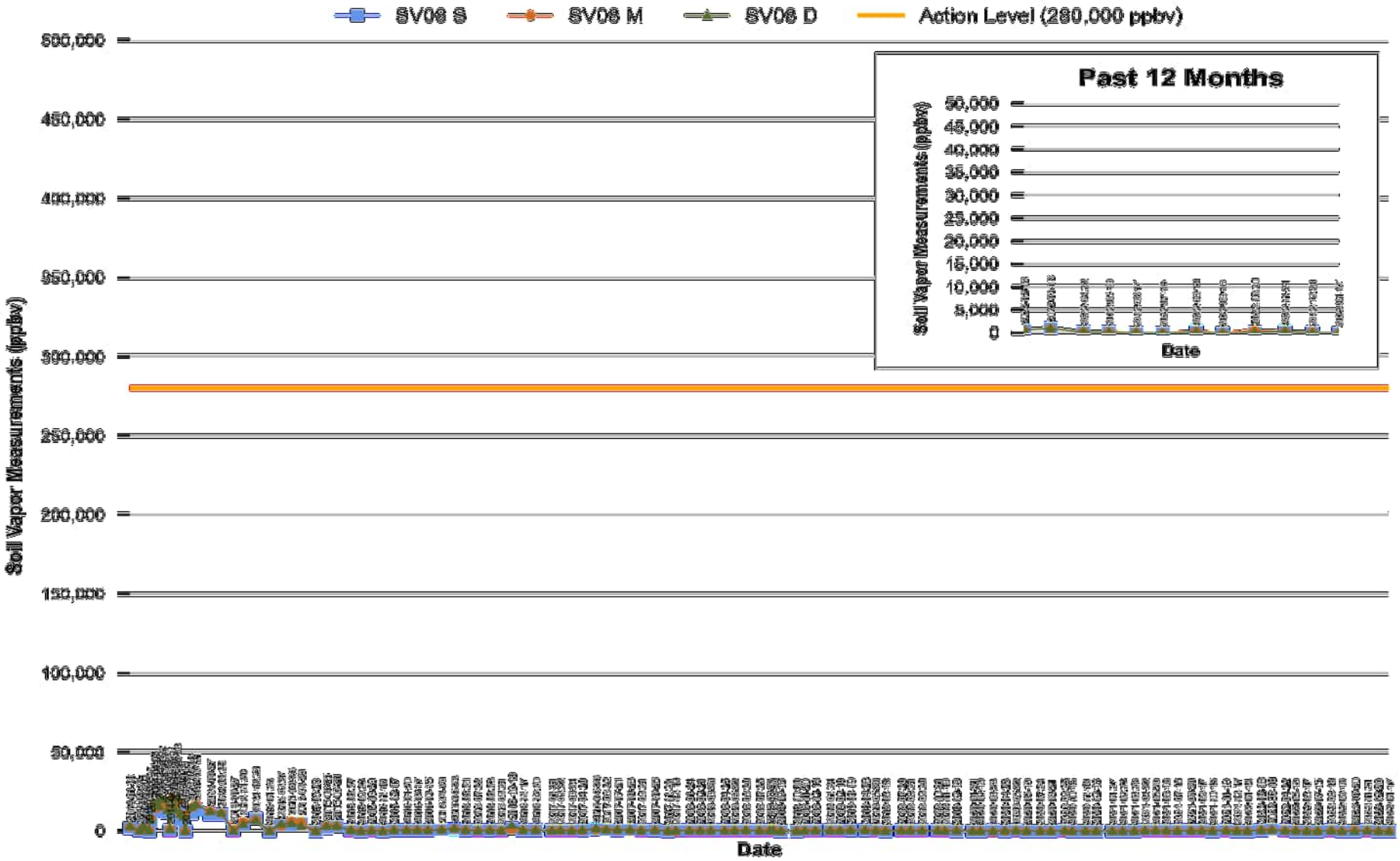


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 7
Red Hill - Tank 08 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

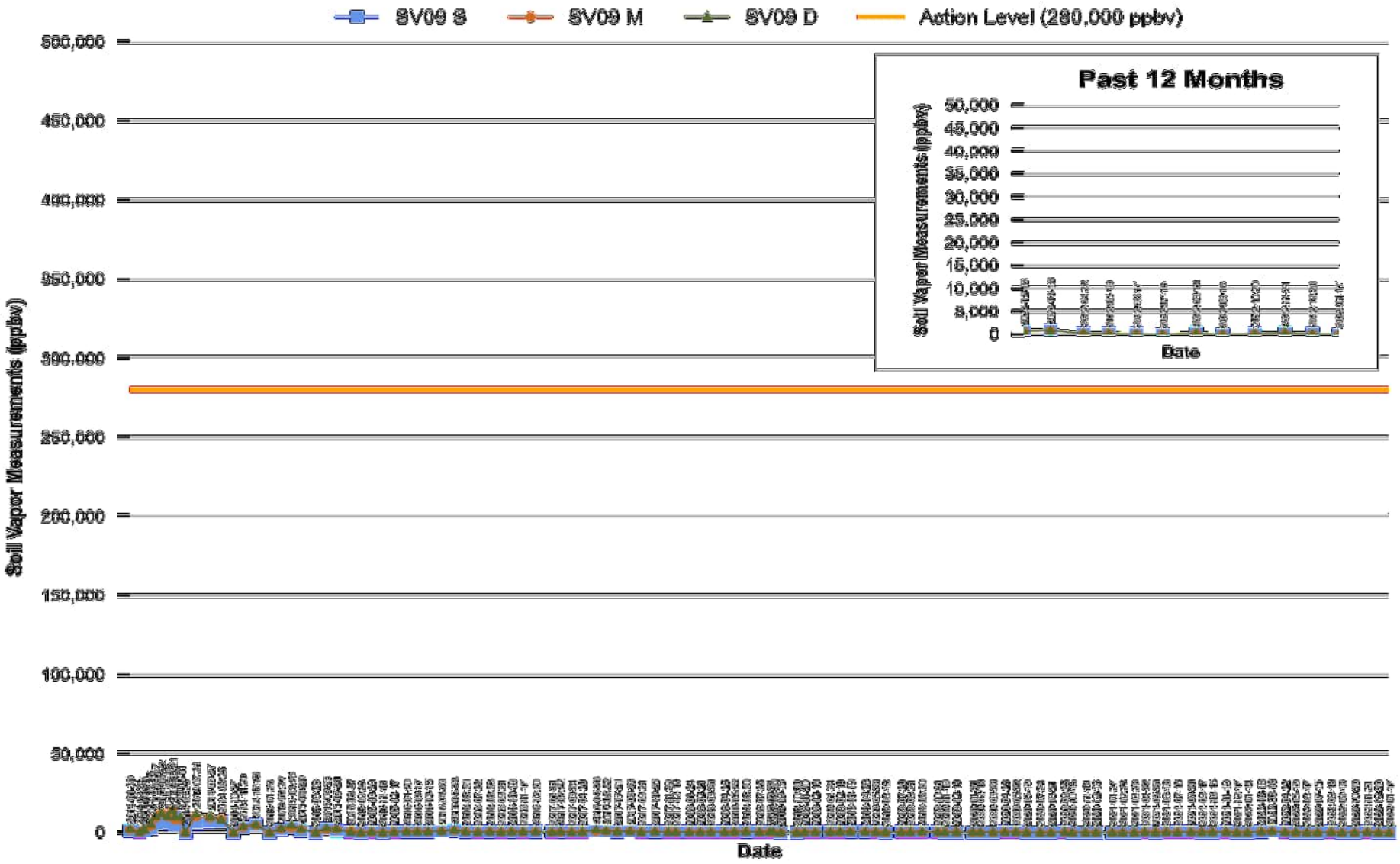


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 8
Red Hill - Tank 09 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

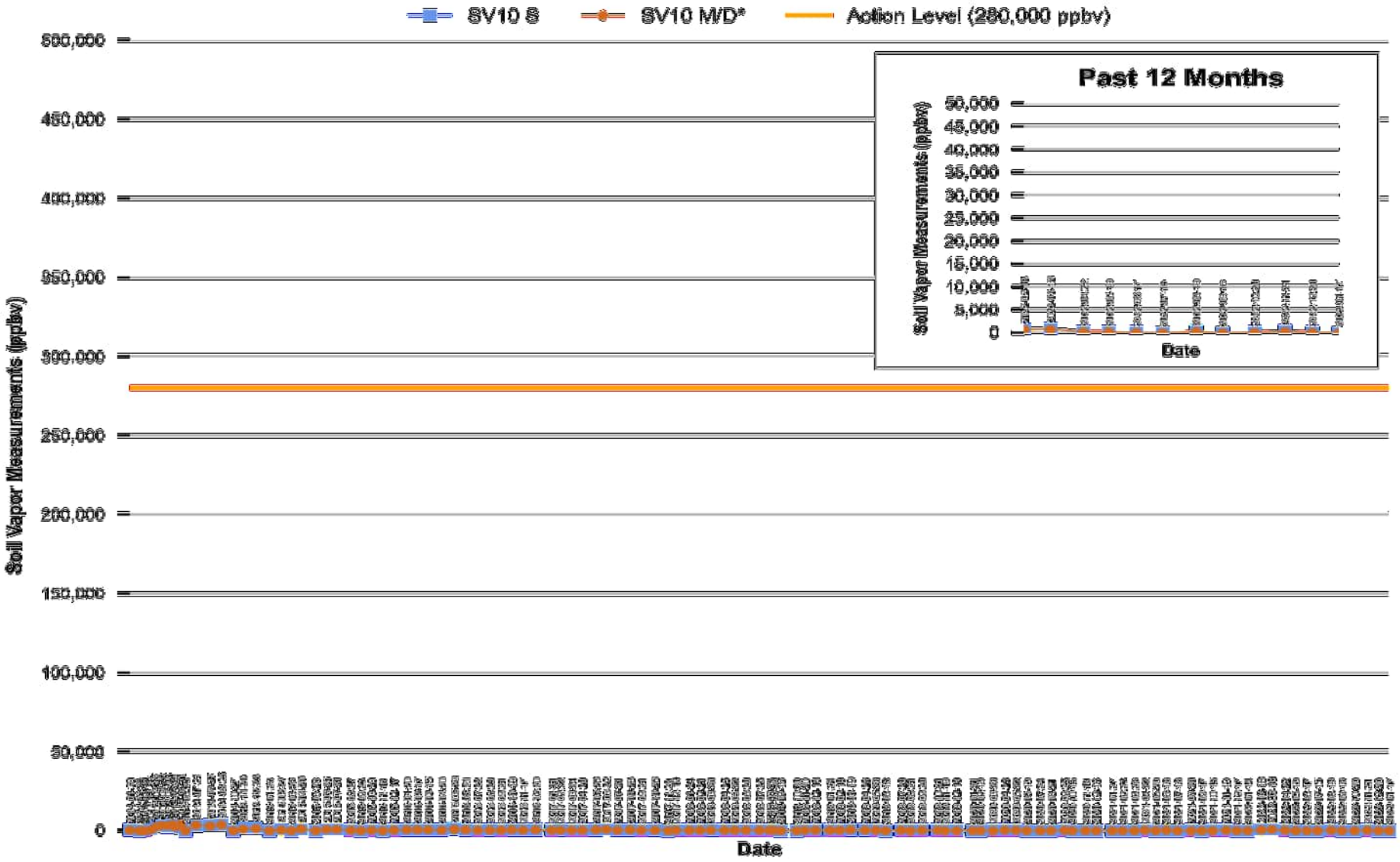


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 9
Red Hill - Tank 10 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

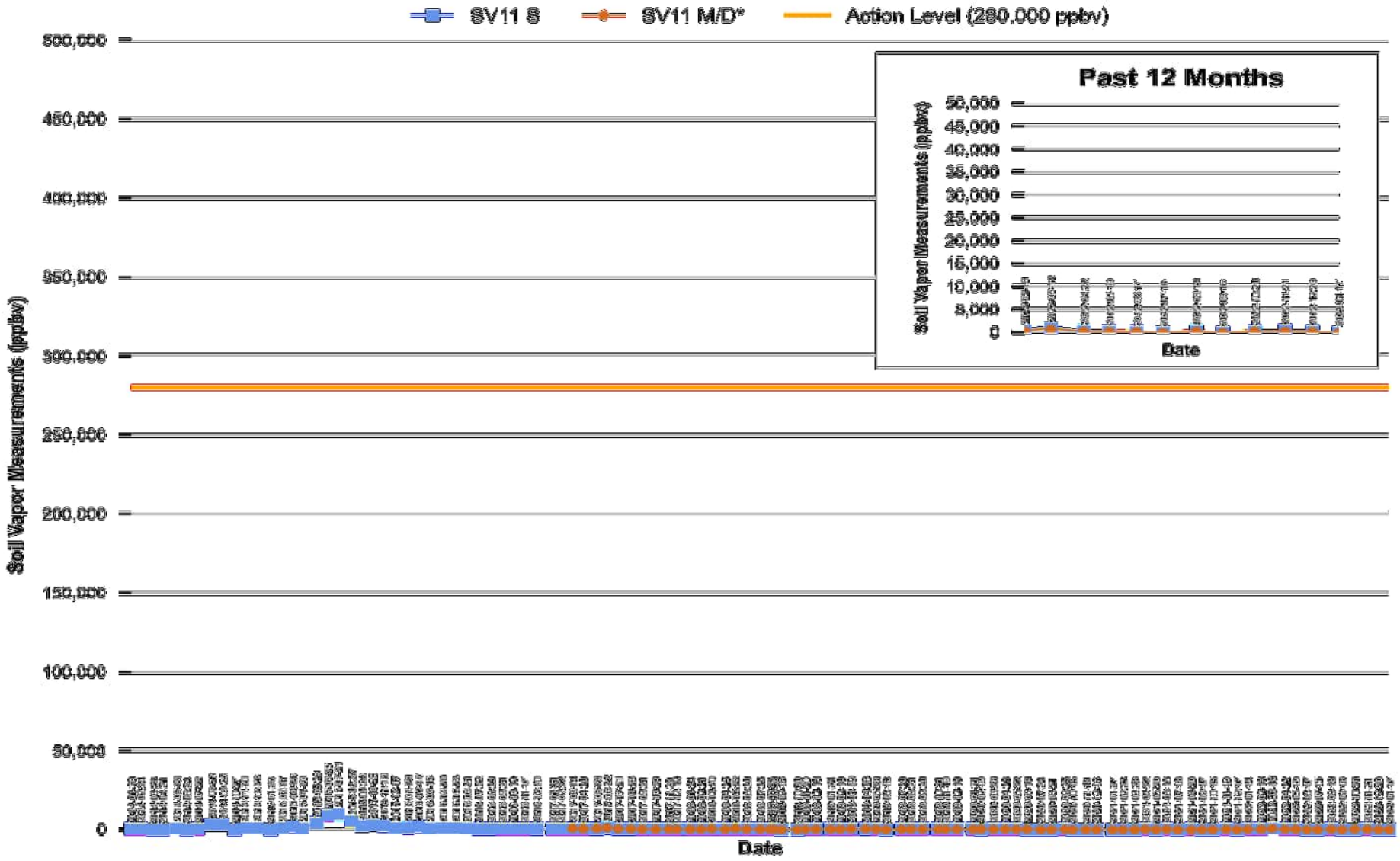


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 10
Red Hill - Tank 11 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

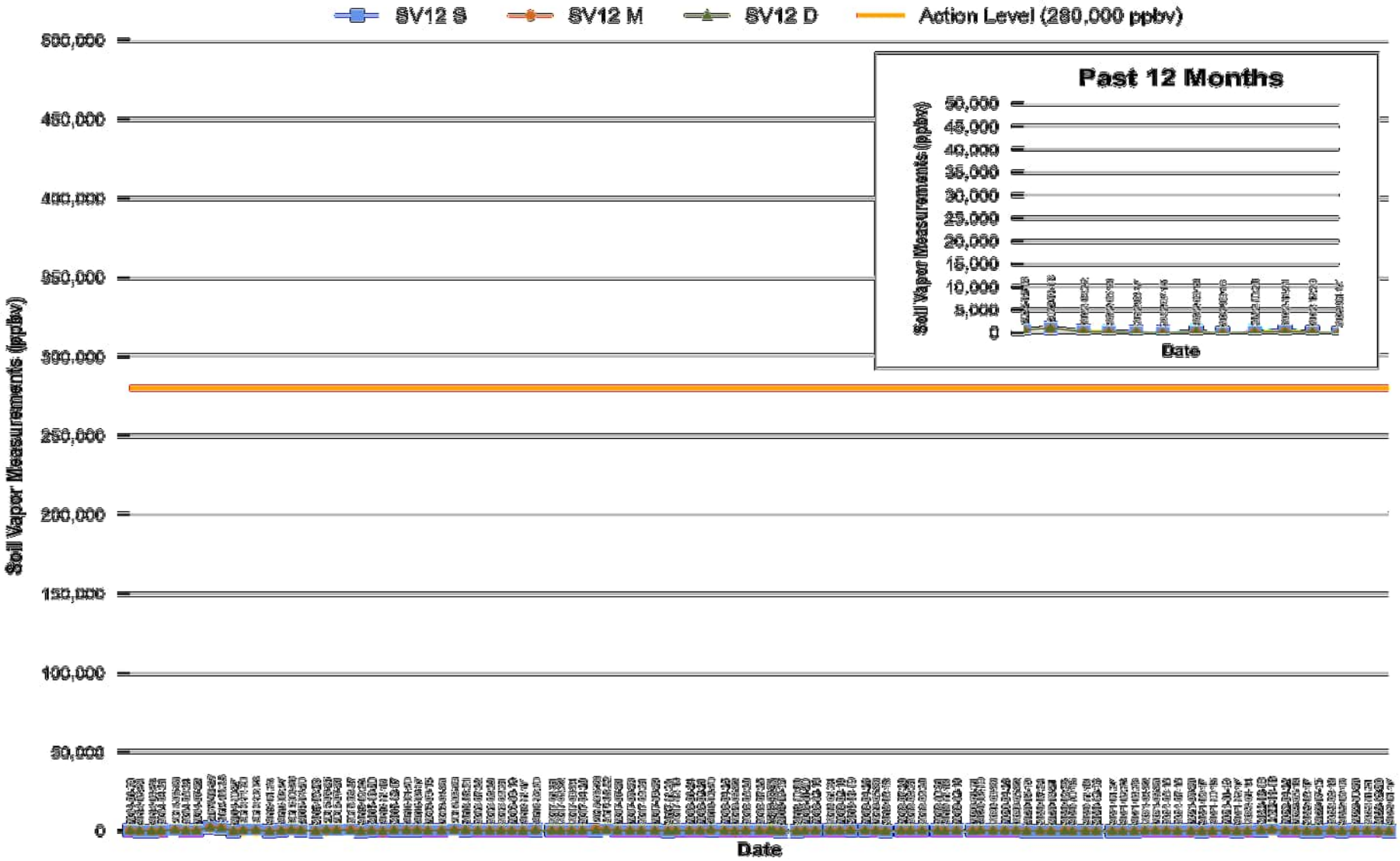


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 11
Red Hill - Tank 12 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

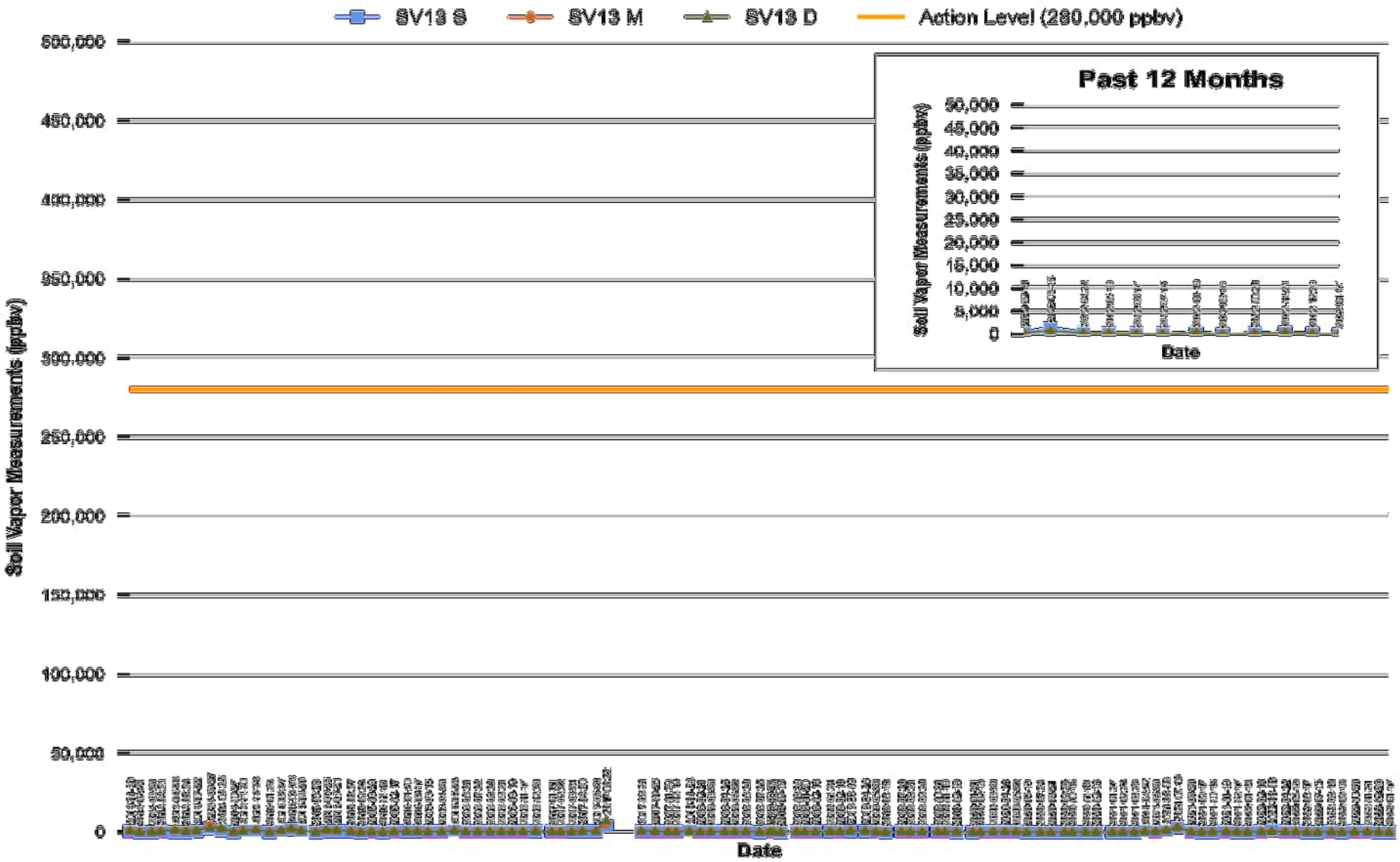


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 12
Red Hill - Tank 13 (JP-5) EMPTY
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

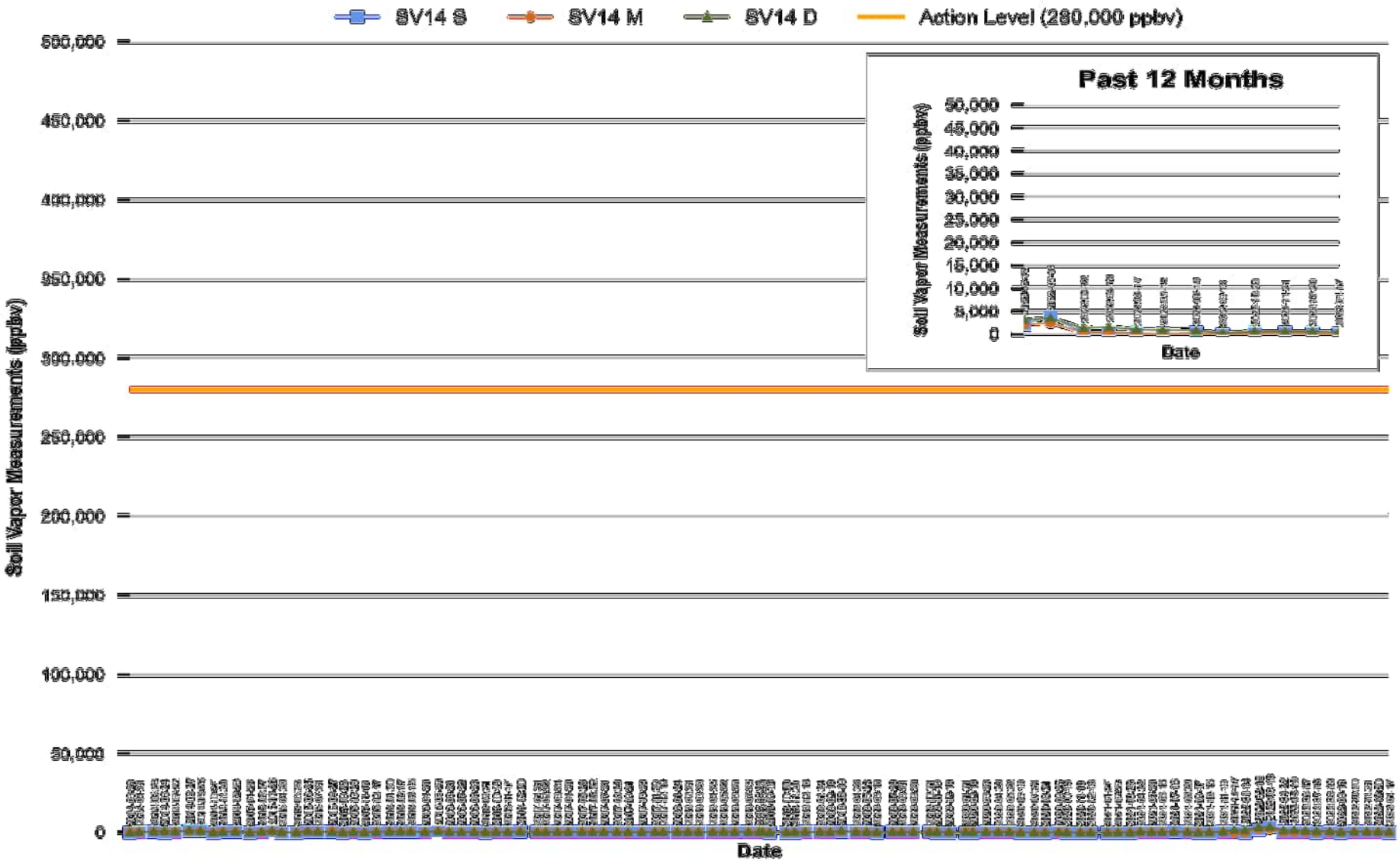


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 13
Red Hill - Tank 14 (JP-5) EMPTY
Soil Vapor Measurements (Mar 2014 Through Jan 2023)

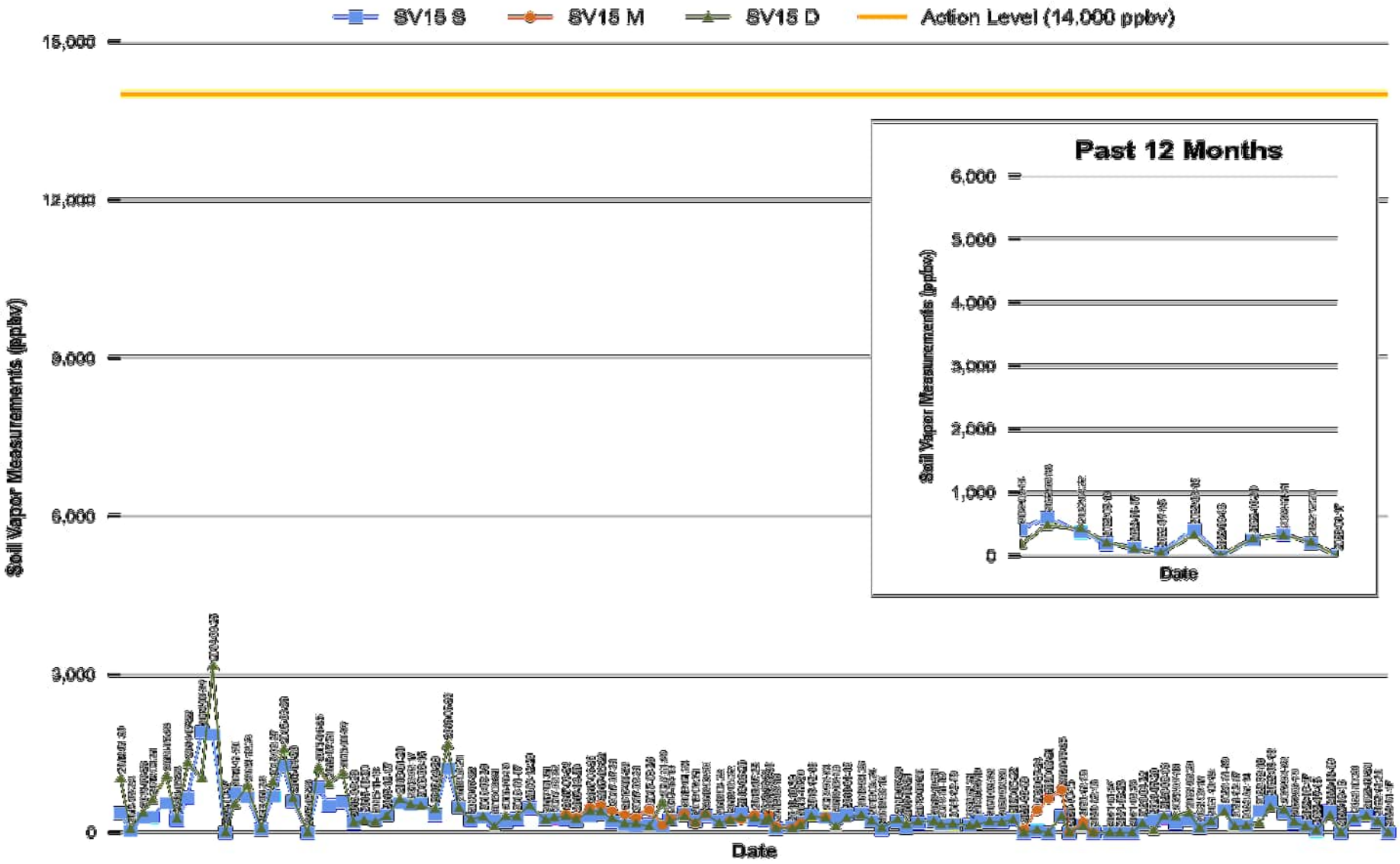


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 14
Red Hill - Tank 15 (F-76)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

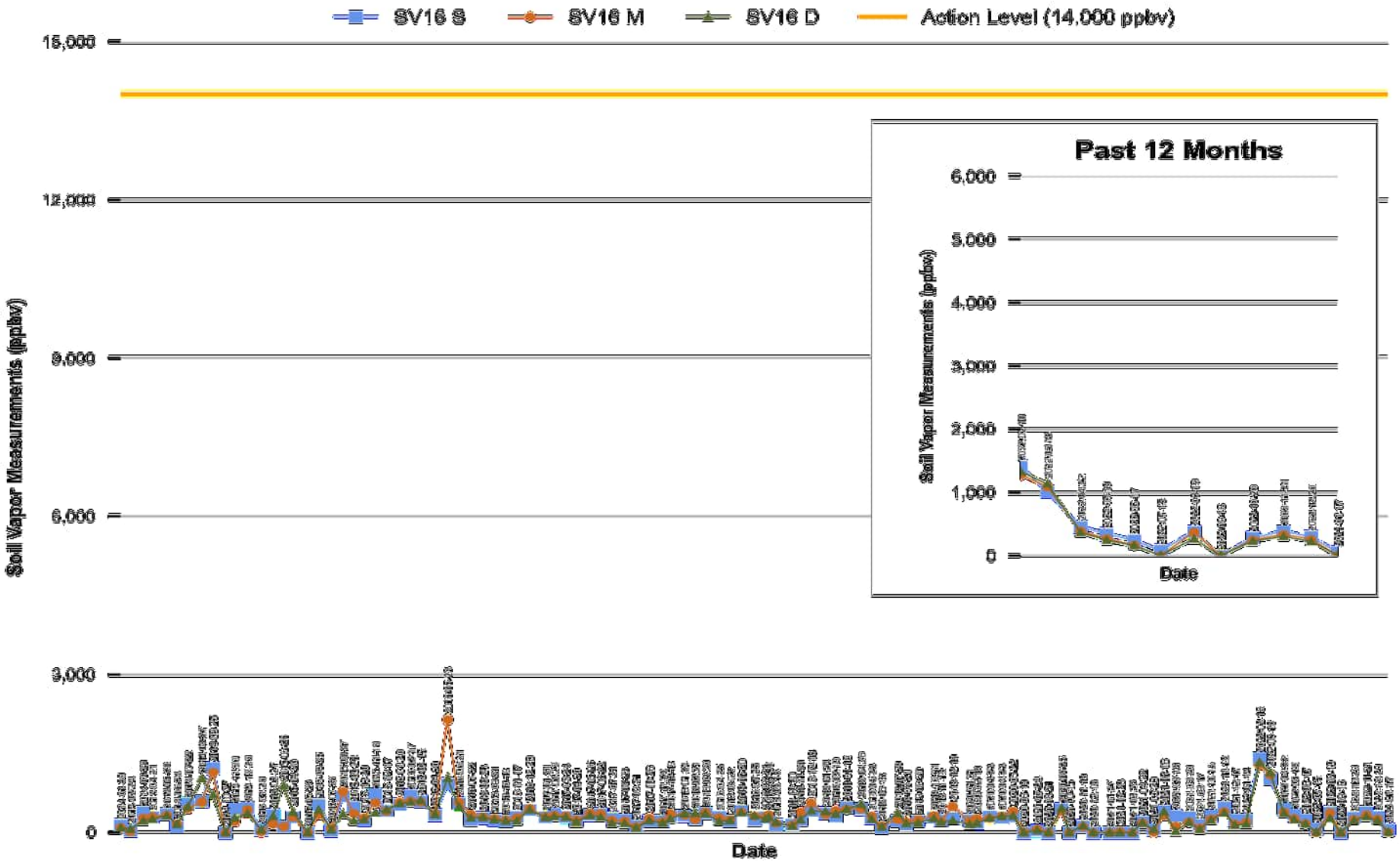


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 15
Red Hill - Tank 16 (F-76)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

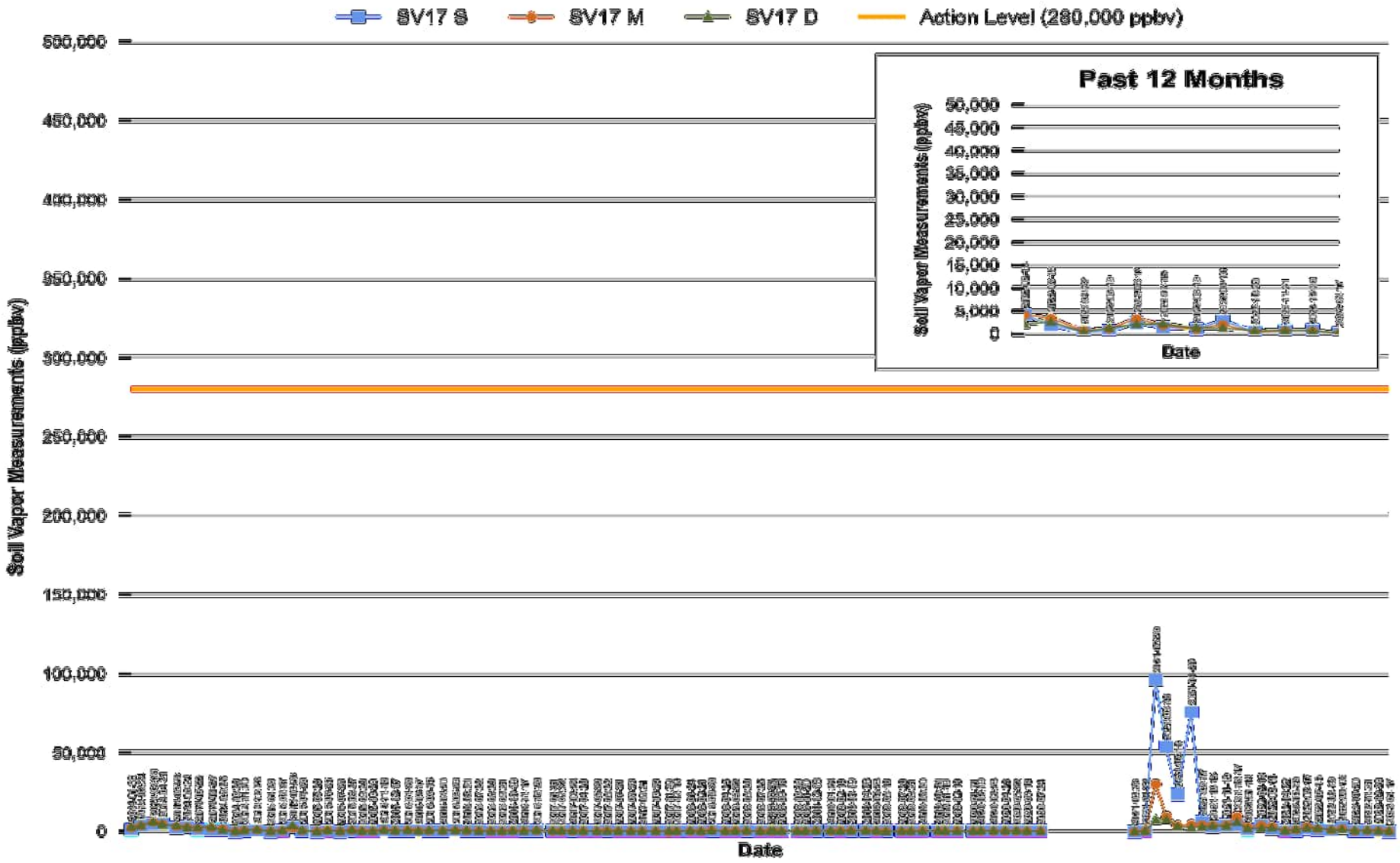


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 16
Red Hill - Tank 17 (JP-5) EMPTY
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

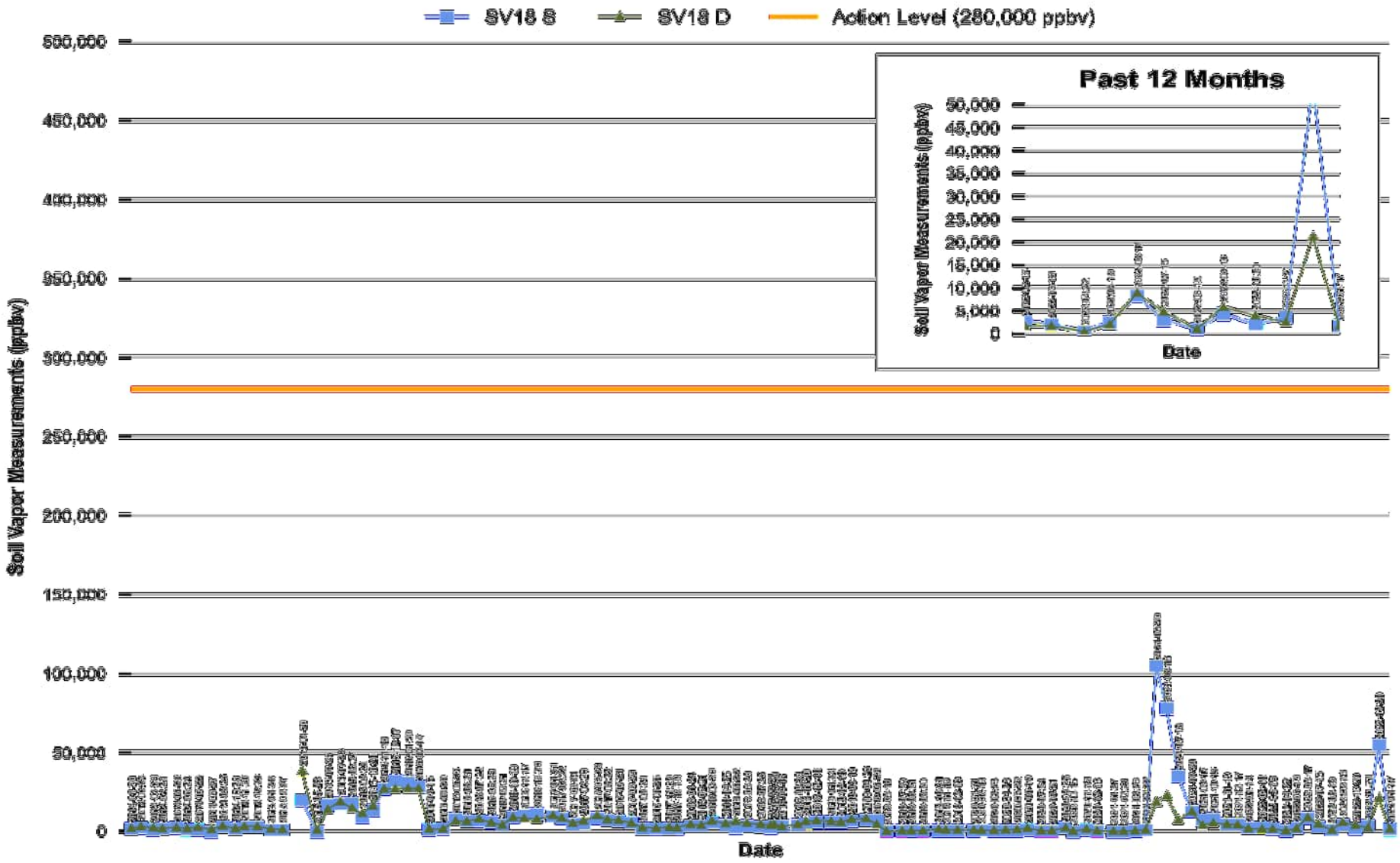


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 17
Red Hill - Tank 18 (JP-5) EMPTY
Soil Vapor Measurements (Jan 2014 Through Jan 2023)

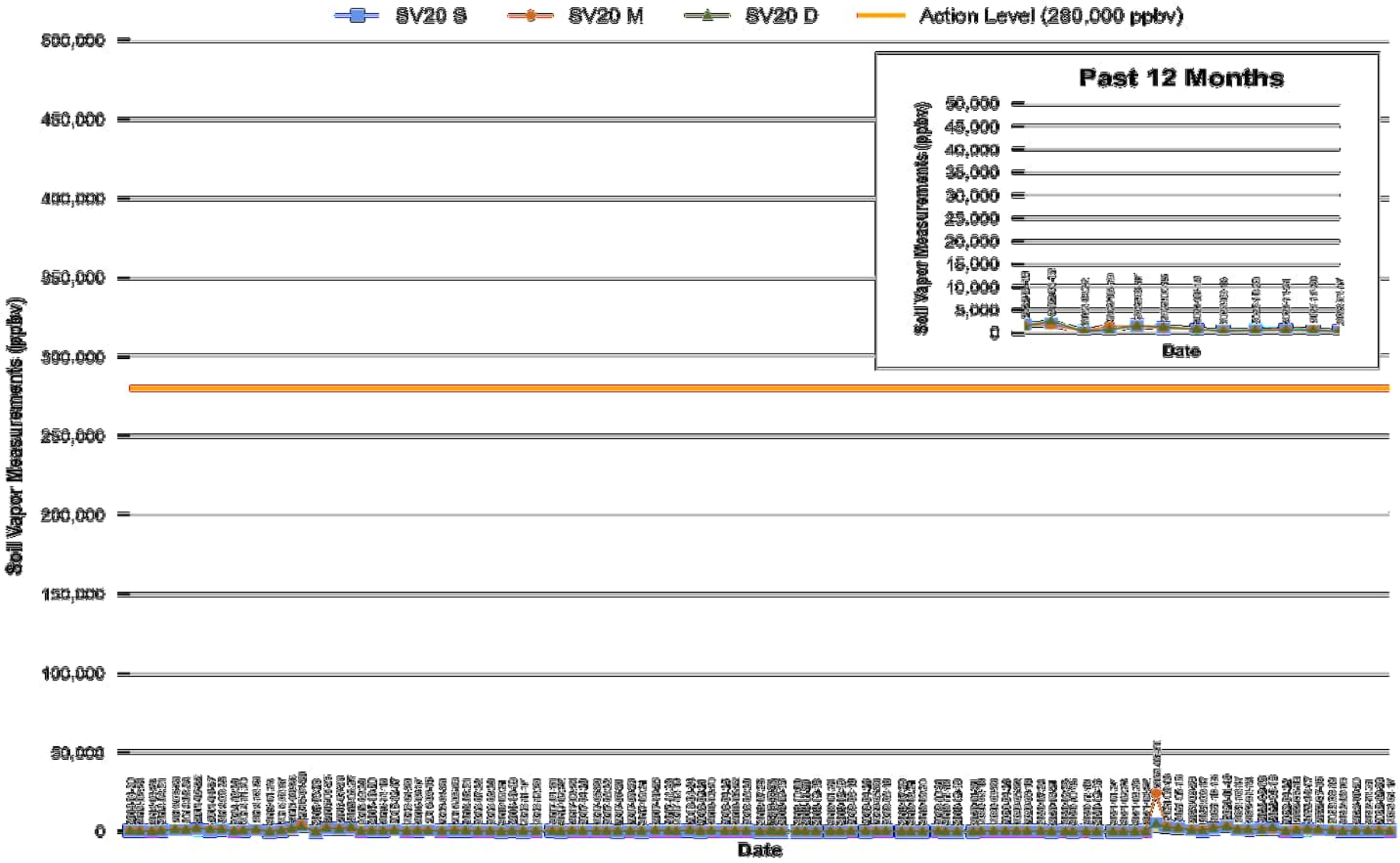


Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Figure 18
Red Hill - Tank 20 (JP-5)
Soil Vapor Measurements (Jan 2014 Through Jan 2023)



Notes (where applicable):
* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

F-24: Jet Fuel, Fuel Number 24
F-76: Marine Diesel, Fuel Number 76

JP-5: Jet Fuel, Propellant Number 5
ppbv: Parts Per Billion by Volume

Appendix A.2 – NOI Soil Vapor PID Concentrations

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Appendix A.2: Average Soil Vapor PID Concentration Readings at Tanks 2-18 and 20 (ppbv)

Date	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D
2021-05-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-05-20	87	77	85	199	191	252	239	132	108	339	1,103	1,002	4,776	310	414	166	491	196	203	238	137	271	173	177	24
2021-05-21	197	97	792	94	177	170	128	46	132	580	776	691	5,021	416	408	322	7,201	253	275	298	413	370	318	236	214
2021-05-22	512	425	466	513	428	419	2,108	532	644	688	1,199	620	5,238	864	2,428	633	3,915	602	660	753	603	665	778	646	579
2021-05-23	229	160	115	125	141	158	102	121	163	220	729	540	3,647	449	513	254	1,461	255	303	317	205	317	288	234	1,237
2021-05-24	236	237	186	219	214	227	172	204	217	239	775	595	4,906	418	467	331	2,210	417	425	491	494	465	491	462	468
2021-05-25	279	250	265	218	236	267	179	213	296	456	806	693	3,869	529	554	290	2,248	285	281	285	410	403	462	450	456
2021-05-26	309	226	253	376	315	343	201	239	384	317	688	2,601	3,557	589	650	309	1,474	461	549	692	386	320	393	524	368
2021-05-27	170	143	201	435	173	177	80	107	125	349	929	336	4,270	521	1,134	226	749	285	296	465	335	363	294	285	196
2021-05-28	368	215	288	579	357	370	402	408	454	459	1,112	878	4,917	427	1,135	431	874	637	548	613	634	585	606	419	489
2021-05-29	570	535	489	734	667	617	554	559	649	714	1,121	979	4,926	787	1,625	694	1,037	698	685	675	730	632	673	598	633
2021-05-30	413	777	289	544	462	591	549	606	591	705	1,139	1,183	3,555	1,017	1,426	881	1,011	835	760	786	834	768	802	673	549
2021-05-31	0	0	0	0	0	0	0	0	0	0	53	187	5,365	60	438	137	85	0	30	7	0	0	0	0	0
2021-06-01	155	56	148	126	116	220	189	70	254	215	563	436	3,357	274	438	170	378	310	262	267	172	247	222	152	191
2021-06-02	30	22	27	102	33	131	35	51	92	228	584	500	3,899	491	793	387	590	364	368	442	313	347	372	307	257
2021-06-03	517	312	377	484	468	619	488	539	555	639	1,034	773	4,563	718	933	540	914	610	519	698	703	570	515	486	480
2021-06-04	371	273	253	307	316	348	329	317	363	391	787	782	4,676	814	762	458	749	607	601	674	822	878	1,065	720	506
2021-06-05	0	0	0	0	0	0	0	0	0	0	0	0	4,195	0	0	0	0	0	0	0	0	0	0	0	0
2021-06-06	209	62	124	173	138	219	212	136	213	321	704	380	3,526	515	392	227	500	269	256	264	249	210	231	158	150
2021-06-07	143	44	50	171	124	217	213	288	288	384	716	635	4,077	482	507	324	689	418	318	466	320	380	539	316	314
2021-06-08	89	23	102	105	178	243	186	247	275	284	668	704	4,594	415	291	267	570	341	327	391	311	390	508	315	290
2021-06-09	246	172	158	222	284	249	241	223	320	295	813	383	5,471	632	293	308	480	288	269	344	253	237	278	218	232
2021-06-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-06-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-07-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-05	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-26	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-08-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-09	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-21	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-25	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-10-28	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-01	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-08	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-22	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-11-29	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-02	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-12-30	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-04	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-06	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-20	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-24	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-27	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-01-31	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-03	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-10	130	82	95	189	146	356	133	91	148	252	292	449	5,674	357	240	175	824	168	144	302	152	182	247	253	165
2022-02-17	258	582	256	380	406	527	403	598	397	857	1,157	1,050	6,364	924	4,503	787	1,162	470	632	624	546	454	850	508	572
2022-02-22	898	893	880	1,174	1,143	1,133	938	1,025	1,069	1,546	1,537	2,991	5,729	1,416	1,408	1,947	1,758	1,262	1,299	1,259	1,189	1,149	1,219	1,097	1,098
2022-02-28	656	567	491	742	660	804	815	719	581	848	1,137	877	5,471	1,648	915	1,040	1,195	1,001	856	998	929	888	918	927	696
2022-03-08	512	473	455	598	568	834	705	537	673	807	866	758	5,250	1,111	986	975	1,331	783	828	753	752	743	1,123	990	1,097
2022-03-15	462	389	372	572	477	640	528	565	613	821	1,073	1,073	5,800	1,345	865	762	1,305	780	735	859	856	682	900	974	734
2022-03-22	224	258	157	181	216	362	100	84	97	162	237	449	5,248	428	235	264	457	163	190	201	169	131	181	134	128
2022-03-30	58	20	18	73	52	140	63	105	140	587	505	446	5,429	414	246	259	484	238	259	230	203	237	287	236	280
2022-04-06	236	182	168	214	202	754	236	355	274	3,354	548	578	4,728	448	425	511	729	318	315	323	339	360	545	415	340
2022-04-13	0	0	0	0	0	0	0	0	0	0	144	285	5,868	236	0	0	1,284	0	1	0	0	0	4	0	0
2022-04-20	0	8	0	9	1	49	6	11	27	87	148	258	4,914	252	137	141	451	94	119	131	98	108	142	105	106
2022-04-26	0	0	0	0	0	6	0	0	0	0	1	191	6,625	871	139	73	415	0	62	5	2	0	19	19	7
2022-05-03	34	23	5	18	21	397	31	53	56	1,671	225	973	4,874	251	198	419	582	127	141	140	119	162	150	135	130
2022-05-10	0	0	0	23	2	4	10	17	44	164	775	843	4,334	113	153	383	646	87	93	113	53	65	102	62	28
2022-05-18	0	0	0	0	0	0	0	0	0	17	58	261	3,812	175	48	36	426	17	32	41	30	30	52	52	67
5/25/2022[5]	113	65	59	120	88	128	102	113	125	232	605	440	3,951	347	235	512	563	207	177	194	197	208	228	133	155
2022-06-01	3	1	1	2	3	2	1	6	13	116	154	334	5,577	436	157	164	523	123	148	142	141	145	180	162	187
2022-06-08	0	0	0	0	0	0	0	0	0	0	0	0	0	33	55	54	183	51	52	55	59	70	77	68	47
2022-06-15	9	72	1	8	3	56	6	7	26	150	167	308	5,072	346	0	0	254	0	0	0	0	0	0	0	0
2022-06-22	0	0	0	0	0	1	0	0	0	0	41	51	4,708	316	19	95	651	0	0	1	0	4	5	13	2

Date	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 D	SV20 S	SV20 M	SV20 D
2021-05-10	NC	NC	NC	NC	NC	252	347	201	0	0	0	432	NC2	184	219	142	109	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2021-05-11	NC	NC	NC	NC	NC	1,896	1,014	930	702	480	740	816	NC2	866	687	682	691	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2021-05-12	NC	NC	NC	NC	NC	0	0	0	0	0	0	0	NC2	0	0	0	0	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2021-05-13	NC	NC	NC	NC	NC	1,623	1,202	1,024	1,164	813	1,401	546	NC2	363	336	266	183	57,667	49,333	4,787	120,000	121,333	9,837	232,667	14,433
2021-05-14	NC	NC	NC	NC	NC	1,568	1,322	1,423	1,095	1,057	1,045	860	NC2	779	730	672	520	44,130	45,733	11,923	114,700	67,563	2,958	206,267	17,277
2021-05-15	NC	NC	NC	NC	NC	961	973	1,013	687	612	634	720	NC2	365	655	431	272	33,670	26,477	13,337	122,000	41,970	0	23,460	7,203
2021-05-16	NC	NC	NC	NC	NC	313	241	534	70	0	14	383	NC2	135	141	73	25	34,030	15,053	8,552	139,500	28,987	3,487	39,533	5,158
2021-05-17	NC	NC	NC	NC	NC	2,180	1,153	1,000	601	797	803	813	NC2	315	327	148	237	30,280	13,807	8,750	118,667	19,067	6,866	50,070	3,618
2021-05-18	NC	NC	NC	NC	NC	297	231	385	165	177	178	342	NC2	58	0	0	255	162,300	23,963	7,971	65,667	10,250	7,129	32,700	3,725
2021-05-19	NC	NC	NC	NC	NC	480	445	443	524	379	424	445	NC2	152	242	138	237	136,333	92,333	6,363	146,667	15,833	8,796	32,900	7,321
2021-05-20	171	127	304	236	200	199	446	481	246	430	237	239	NC2	42	63	8	55	96,333	29,967	7,251	105,067	18,667	5,536	24,333	5,285
2021-05-21	348	382	530	320	232	1,123	557	721	258	242	326	409	NC2	164	244	97	153	NC1	NC1	NC1	118,167	25,133	6,469	34,563	5,417
2021-05-22	613	559	1,178	642	619	937	847	1,066	845	806	718	1,030	NC2	792	788	636	588	30,340	14,330	5,622	66,800	5,611	5,137	16,000	7,003
2021-05-23	215	161	456	247	277	442	356	401	187	NC4	291	613	NC2	132	153	111	78	158,533	51,787	4,558	94,500	8,164	5,404	46,210	4,544
2021-05-24	497	598	963	529	507	599	651	887	669	NC4	682	1,457	NC2	623	653	570	559	75,900	48,033	4,935	86,267	10,160	4,575	21,000	3,773
2021-05-25	502	572	779	532	508	694	684	1,083	882	NC4	734	1,450	NC2	392	411	341	234	25,367**	7,167**	6,501	25,000***	7,797	5,875	23,000***	6,074
2021-05-26	609	564	1,960	676	595	809	708	1,184	565	NC4	1,262	1,559	NC2	337	164	135	144	32,800	16,667	4,892	88,767	14,107	4,637	18,633	6,488
2021-05-27	351	381	568	351	488	247	327	1,062	62	536	107	1,044	NC2	0	1	0	0	33,700	7,270	4,493	62,700	13,687	4,113	18,030	4,948
2021-05-28	503	458	942	556	402	831	803	947	419	563	495	1,567	NC2	452	400	318	266	10,890	6,616	6,377	53,633(2)	15,110	4,634	19,970	6,251
2021-05-29	679	596	1,588	633	588	2,585	966	1,051	768	634	690	1,694	NC2	805	810	709	671	6,859	8,176	4,412	40,200	8,374	5,605	12,033	7,123
2021-05-30	749	665	1,066	729	506	NC1	NC1	NC1	631	634	625	1,126	NC2	602	511	452	393	43,513	7,440	5,527	127,733	18,743	1,937	24,267	2,187
2021-05-31	0	0	0	0	0	1,002	832	1,428	0	0	0	0	NC2	0	0	0	0	138,367	9,660	4,752	60,500	9,767	3,212	13,333	3,672
2021-06-01	172	146	202	263	198	NC1	NC1	NC1	233	177	227	811	NC2	117	165	86	78	NC1	NC1	NC1	25,933(2)	8,433(2)	3,550(2)	17,427	3,143
2021-06-02	300**	283**	358**	260**	211**	NC1	NC1	NC1	327**	300**	291**	758**	NC2	259**	296**	222**	206**	50,100**	8,938**	6,222**	96,267**	13,847**	3,928**	14,877**	4,307**
2021-06-03	606	477	606	339	456	1,017	1,324	1,069	610	408	496	800	NC2	538	482	396	363	16,340	5,654	4,870	46,967(2)	13,273	4,846	13,883	5,383
2021-06-04	698	666	667	547	586	1,518	1,518	1,545	788	593	696	875	NC2	663	627	577	528	19,203	6,901	8,926	45,200(2)	19,040(2)	3,776	4,974	3,697
2021-06-05	0	0	0	0	0	215	125	169	0	0	0	0	NC2	0	0	0	0	94,000**(2)	18,203**	4,858**	3,8367**(2)	12,617**	3,416**	3,769**	2,943**
2021-06-06	181	159	243	149	152	611	634	776	220	208	272	382	NC2	306	314	200	226	181,733	11,070	5,481	25,053	12,617	3,293	3,036	2,474
2021-06-07	426	351	405	334	344	842	1,034	1,015	460	407	391	446	NC2	487	521	437	377	33,610	5,458	4,305	76,007	17,347	4,644	4,168	3,571
2021-06-08	297	299	375	309	319	1,010	1,016	1,101	375	713	429	300	NC2	322	342	279	273	17,083	5,480	3,926	35,700(2)	18,390	3,401	3,137	3,093
2021-06-09	227	223	291	219	204	809	911	889	274	265	304	176	NC2	195	262	177	218	37,000(2)	7,589	5,488	30,900(2)	23,720	2,763	3,321	2,458
2021-06-14	30	10	93	27	20	581	925	806	202	124	239	67	NC2	100	259	199	276	85,667(2)	24,500	19,367(2)	40,567(2)	37,093	2,672	9,266	2,150
2021-06-18	95	148	215	92	201	1,764	1,787	1,487	480	329	408	136	NC2	109	129	91	133	9,480	8,289	6,371	71,150	22,420	4,549	4,403	3,349
2021-06-21	163	112	199	176	133	945	934	1,169	264	263	317	146	NC2	171	249	160	157	10,373	5,826	3,885	28,100(2)	13,273	2,827	3,236	2,605
2021-06-24	63	49	103	97	77	422	487	1,141	186	159	274	12	NC2	8	67	13	14	71233(2)	8,723	3,586	48933(2)	13,933	927	1,554	964
2021-06-28	117	152	235	150	139	1,199	1,712	1,968	415	262	591	165	NC2	178	166	132	127	8,599	5,955	3,443	39,000(2)	14,107	2,482	2,891	2,502
2021-07-01	0	0	0	0	0	1,007	1,306	1,328	143	783	99	0	NC2	0	0	0	0	133,133	5,210	4,937	53,910	10,357	2,083	3,806	1,456
2021-07-06	0	0	1	0	0	2,455	1,989	1,849	2	5	156	0	NC2	0	0	0	0	449000(2),**	5,118	4,269	43,043	5,164	1,000	1,235	717
2021-07-08	0	0	0	0	0	1,339	2,056	2,113	104	74	207	0	NC2	0	0	0	0	134,433	5,230	3,261	40,963	8,412	1,454	1,809	1,130
2021-07-12	155	319	224	177	727	2,138	2,077	4,532	314	307	311	131	NC2	270	233	162	144	32,430	5,073	3,461	35,167	13,180	2,287	2,885	2,984
2021-07-15	0**	0**	14**	0**	0**	1,401**	1,741**	2,138**	126**	122**	220**	0**	NC2	47**	83**	29**	9**	97,173**	6,210**	1,762**	29,327**	4,595**	871**	1,731**	962**
2021-07-19	0	0	0	0	0	2,557	3,109	3,030	0	0	0	0	NC2	0	0	0	0	8,762	3,052	1,581	27,110	6,131	1,286	1,117	772
2021-07-22	0	0	0	0	0	1,668	2,069	1,806	7	22	132	0	NC2	0	8	0	0	90,287	5,835	2,162	25,813	7,834	1,581	1,585	1,031
2021-08-02	190	176	344	241	225	1,674	1,502	1,806	492	348	430	321	NC2	398	403	278	269	3,115	5,963	4,775	22,733	7,858	2,760	3,102	3,072
2021-08-05	0	0	0	0	0	649	795	840	0	0	16	0	NC2	0	0	0	0	83,961	4,945	2,296	19,777	5,962	945	5,431	993
2021-08-09	80	102	206	93	102	1,281	1,080	1,311	259	269	377	185	NC2	260	306	196	198	101,133	5,664	2,297	19,977	8,999	1,807	2,740	1,186
2021-08-12	0	0	0	0	0	191	289	178	0	0	0	0	NC2	0	0	0	0	103,473	1,920	501	19,890	4,497	652	991	6
2021-08-16	5	6	110	0	1	612	769	539	398	69	87	34	NC2	31	110	56	23	109,567	7,819	2,283	17,183	10,673	961	1,665	949
2021-08-19	0	0	30	0	7	681	581	604	54	55	161	14	NC2	31	116	62	65	89,833	8,545	1,811	13,643	9,621	1,150	3,247	1,764
2021-08-23	121	98	171	113	118	164	164	109	137	103	219	74	NC2	65	186	141	164	37,897	3,108	2,343	10,474	8,357	1,079	4,357	843
2021-08-26	0	0	0	0	0	0	0	0	0	172	105	0	NC2	0	36	0	0	24,240	3,776	2,119	10,679	7,466	2,867	3,361	2,520
2021-08-30	102	97	102	53	15	215	228	328	329	131	255	186	NC2	152	350	205	155	4,829	4,032	2,942	10,659	9,374	2,798	2,468	2,607
2021-09-02	77	51	143	44	66	108	143	204	159	145	253	169	NC2	190	238	182	164	32,867	2,739	1,341	8,910	4,198	1,323	1,165	1,162
2021-09-07	0	0	0	0	0	2	8	31	36	0	213	0	NC2	0	90	83	50	5,822	4,771	4,067	9,773	5,121	2,740	2,663	2,970
2021-09-09	0	0	0	0	0	1	31	104	40	23	157	8	NC2	37	105	31	45	10,093	3,822	3,946	9,525	7,222	1,789	1,925	1,417
2021-09-13	72	57	147	84	84	90	124	175	150	151	391	92	NC2	94	212	155	140	1,387	830	521	8,122	5,968	3,699	3,860	3,036
2021-09-16	29	34	0	0	0	2	1	36	0	16	194	14	NC2	27	85	35	18	5,622	4,549	4,255	8,760	4,679	2,852	2,731	2,330
2021-09-20	0	0	0	0	0	0	0	8	44	0	109	18	NC2	0	37	0	0	7,578	4,436	3,852	6,989	4,096	1,719	1,813	1,642
2021-09-23	11	12	87	32	71	74	96	130	117	99	278	37	NC2	78	141	78	58	15,783	4,624	3,167	4,239	3,233	2,945	1,795	1,581
2021-09-27	19	15	95	17	18	44	57	111	103	82	263	41	NC2	53	156	105	90	14,187	3,403	2,487	3,995	3,194	1,803	2,943	2,431
2021-09-30	19	22	56	0	0	0	27	17	10	6	164	0	NC2	0	70	23	4	6,047	3,251	2,600	4,024	3,086	2,136	1,831	1,945
2021-10-04	10	46	92	4	44	65	115	183	89	60	305	44	NC2	58	159	80	75	34,467	4,134	1,832	4,790	3,544	905	8,572	869
2021-10-07	7	22	103	26	30	50	43	87	69	68	347	27	NC2	31	204	92	87	6,203	4,555	3,375	5,636	3,545	1,776	2,545	2,783
2021-10-12	0	7	71	1	0	105	92	156	71	52	323	11	NC2	32	143	94	69	6,218	3,786	3,416	4,345	3,688	1,689	4,038	1,601
2021-10-14	231	252	313	234	224	291	293	368	352	323	408	443	NC2	448	886	678	507	3,879	3,763	3,401	5,020	3,118	2,243	2,205	2,132
2021-10-18	0	0	29	0	1	0	0	32	292	290	413	29	NC2	0	98	41	22	34,593	2,484	1,345	1,364	2,012	631	2,876	484
2021-10-21	0	0	0	0	0	0	0	5	0	0	214	46	NC2	59	204	136	174	7,105	4,076	2,416	NC1	NC1	940	5,757	831
2021-10-25	14	27	66	13	24	861	948	1,421	198	132	365	49	NC2	47	194	98	77	9,024	2,629	2,990	4,042	4,013	1,616	2,217	2,063
2021-10-28	25	5	82	21	16	33	43	112	25	45	180	92	NC2	106	183	58	58	2,635	3,535	2,593	4,831	5,044	879	1,176	1,824
2021-11-01	39	77	107	11	38	78	63	106	NC1	NC1	NC1	47	NC2	53	230	106	94	4,693	4,480	2,574	4,240	3,781	1,648	1,630	2,381
2021-11-04	0	0	0	0	0	31	44	77	13	1	100	0	NC2	10	91	18	25	2,406	2,102	2,201	4,287	3,410	1,542	2,240	2,965
2021-11-08	0	0	0	0	0	5	0	30	44	46	244	123	NC2	96	238	158	122	16,770	3,892	2,677	5,193	4,137	1,602	1,367	2,031
2021-11-11	79	91	179	80	69	140	137	227	124	99	296	148	NC2	146	293	231	173	6,560	3,773	3,942	4,637	3,804	1,728	1,643	1,361
2021-11-15	63	35	69	8	6	13	23	57	42	35	146	3	NC2	6	81	58	65	42,440	22,287	3,842	5,463	4,379	879	1,885	831
2021-11-18	36	75	107	40	29	90	103	170	73	96	196	143	NC2	151	243	222	245	2,874	3,312	3,501	5,171	4,467	1,036	1,596	1,252
2021-11-22	96	100	139	106	115	148	183	263	153	128	366	158	NC2	219	244	180	164	3,626	4,411	3,299	4,246	5,040	1,772	1,649	1,913
2021-11-29	73	75	106	36	47	77	61	99	78	77	2,283	28	NC2	36	136	77	111	57,620	11,903	10,600	4,760	4,635	1,470	1,552	1,146
2021-12-02	45	43	81	7	2	136	133	151	188	246	2,614	244	NC2	230	343	286	305	40,963	13,100	8,944	4,848	4,342	836	1,020	899
2021-12-13	86	94	177	124	100	167	159	217	170	134	2,229	169	NC2	167	281	202	175	3,689	6,226	4,268	3,478	3,107	1,345	1,444	1,293
2021-12-20	0	0	0	0	0	0	0	0	0	0	1,655	0	NC2	0	0	0	0	4,154	10,167	5,133	4,032	4,165	1,678	2,071	1,994
2021-12-30	0	0	0	0	0	0	0	0	0	0	2,107	0	NC2	0	112	61	0	22,940	3,027	2,359	2,601	2,281	728	1,088	1,407
2022-01-04	57	68	121	39	62	59	88	124	165	114	1,798	58	NC2	53	207	139	114	1,709	2,519	1,915	2,060	1,706	1,027	1,066	1,233
2022-01-06	0	0	34	0	0	18	19	62	72	56	1,873	2	NC2	0	83	59	27	1,489	1,848	1,260	1,418	1,265	1,090	943	771
2022-01-10	67	77	134	73	84	105	109	131	148	130	1,520	80	NC2	73	172	123	131	1,970	2,163	1,917	1,839	2,857	899	1,273	1,189
2022-01-13	0	0	30	0	0	46	34	87	97	31	1,639	25	NC2	24	153	74	48	2,009	2,738	1,566	2,358	1,845	1,052	1,710	1,823
2022-01-17	0	0	0	0	0	0	0	0	0	0	1,243	0	NC2	0	0	0	0	2,210	3,464	2,486	2,945	2,499	3,171	2,667	2,022
2022-01-20	97	110	854	822	799	1,096	802	1,463	421	537	2,019	0	NC2	0	16	0	0	1,450	2,398	2,085	1,928	1,790	782	1,203	741
2022-01-24	110	131	173	79	65	201	198	259	251	237	1,854	3	NC2	0	57	3	0	2,953	1,749	1,452	2,029	1,854	1,125	1,090	1,062
2022-01-27	20	68	0	0	0	0	2	20	188	181	1,435	0	NC2	0	0	0	0	2,467	5,158	2,210	1,809	1,527	908	891	1,081
2022-01-31	274	328	377	267	280	337	372	378	403	484	1,611	4	NC2	0	29	0	6	1,014	1,759	1,743	879	814	475	596	577
2022-02-03	128	112	141	66	83	132	136	162	50	71	1,554	0	NC2	0	0	0	0	2,854	3,837	3,433	2,241	2,459	1,166	1,313	1,610
2022-02-07	28	46	99	68	46	52	54	58	262	196	1,629	198	NC2	81	139	70	59	2,435	4,557	3,537	2,226	2,618	1,366	1,655	1,437
2022-02-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-02-17	650	355	643	607	523	313	304	446	901	495	2,487	159	NC2	107	1,087	625	1,371	3,399	3,321	2,205	1,540	1,226	1,099	1,197	1,178
2022-02-22	1,315	1,267	1,430	1,351	1,302	1,419	1,495	1,639	1,440	1,264	2,359	389	NC2	332	453	396	355	4,627	5,050	3,772	3,051	3,164	2,239	2,139	2,563
2022-02-28	720	682	855	782	770	795	668	663	3,547	3,150	4,339	768	NC2	526	727	638	678	2,823	4,776	2,572	3,251	2,950	2,718	1,813	1,935
2022-03-08	1,022	1,024	1,178	902	940	908	770	1,165	1,318	1,171	2,264	651	NC2	458	1,076	1,067	1,168	2,013	3,465	2,320	2,059	1,774	1,874	1,948	1,741
2022-03-15	830	663	1,011	961	872	815	661	653	1,397	1,038	1,808	580	NC2	489	882	1,004	1,167	2,401	3,615	3,107	2,314	2,103	2,064	1,872	2,173
2022-03-22	122	129	325	182	229	137	151	159	348	284	1,319	121	NC2	121	456	364	322	1,318	2,582	1,550	994	1,265	648	879	800
2022-03-30	345	374	409	307	349	350	352	424	458	390	982	572	NC2	526	540	513	456	770	1,800	1,322	1,152	1,343	687	917	849
2022-04-06	426	390	544	427	412	412	386	429	513	512	1,148	518	NC2	451	644	583	551	1,014	1,176	1,326	1,080	1,201	1,415	1,262	1,135
2022-04-13	9	19	96	0	0	0	0	0	37	56	1,069	0	NC2	0	96	11	22	320	604	432	501	685	158	265	247
2022-04-20	140	159	277	208	201	180	158	185	401	352	1,205	167	NC2	144	396	340	247	756	851	1,048	1,034	861	473	671	695
2022-04-26	0	0	0	0	0	0	0	0	126	88	958	0	NC2	0	143	145	116	416	849	925	787	644	306	504	574
2022-05-03	273	257	284	277	232	222	203	255	492	491	1,389	254	NC2	243	406	398	368	534	1,014	921	816	804	559	700	789
2022-05-10	61	70	119	48	92	93	66	118	255	268	1,048	91	NC2	85	247	203	206	533	671	834	778	904	600	516	737
2022-05-18	48	60	111	68	93	48	41	86	238	276	948	67	NC2	57	136	136	69	458	733	774	1,226	1,248	368	668	390
5/25/2022[5]	154	153	180	152	162	134	118	160	227	223	849	72	NC2	87	142	121	99	350	371	367	1,240	785	323	605	404
2022-06-01	228	291	240	213	213	220	228	242	364	331	1,095	234	NC2	216	305	244	220	3,724	3,692	2,719	6,578	6,855	1,099	2,063	1,136
2022-06-08	94	70	116	110	0	25	39	40	415	655	846	24	NC2	61	38	48	51	2,946	4,909	2,372	6,364	8,189	2,640	3,346	3,124
2022-06-15	0	0	0	0	0	0	0	0	41	30	743	0	NC2	0	0	0	0	2,432	3,761	2,452	6,952	8,955	1,033	979	1,233
2022-06-22	30	17	99	36	26	52	52	83	174	139	900	36	NC2	34	148	107	64	1,795	3,076	2,342	6,847	8,876	1,261	1,341	1,986

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Appendix A.2: Average Soil Vapor PID Concentration Readings at Tanks 2-18 and 20 (ppbv)

Date	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 D	SV20 S	SV20 M	SV20 D
2022-06-28	5	0	1	9	8	105	11	66	76	168	243	403	5,228	328	0	0	469	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	5	807	0	NC2	0	0	0	0	2,240	3,029	1,746	3,094	8,692	1,600	1,300	1,988
2022-07-05	0	0	142	0	0	0	0	0	0	0	364	237	4,761	82	24	10	499	0	5	16	2	20	36	9	10	22	33	90	31	33	60	67	101	154	157	1,095	78	NC2	71	165	108	101	1,264	2,441	1,821	3,017	4,381	1,153	1,940	1,553
2022-07-12	0	0	0	0	0	0	0	0	0	0	1	994	4,633	90	1	251	437	85	0	0	115	4	0	1	0	4	3	68	6	26	57	57	89	270	219	882	90	NC2	70	153	109	98	1,159	1,620	1,888	3,110	5,155	1,197	1,513	1,659
2022-07-19	0	130	0	0	0	0	0	0	0	21	79	250	4,358	410	95	46	533	30	28	36	22	32	57	60	28	80	77	148	67	76	89	95	152	353	216	1,003	77	NC2	86	207	135	130	1,427	2,649	1,768	4,599	6,338	1,252	1,491	1,429
2022-07-25	0	0	0	0	29	31	1	1	11	132	178	111	5,163	293	144	168	627	59	68	67	65	66	45	63	36	90	96	184	111	100	161	145	175	236	230	1,121	164	NC2	166	286	194	185	958	4,867	2,163	3,971	6,443	1,105	1,619	1,517
2022-08-02	0	0	0	0	0	4	0	4	60	1,015	104	236	5,045	194	147	97	508	65	26	201	46	52	96	46	45	95	112	157	76	70	106	106	151	190	184	951	128	NC2	116	188	131	130	1,080	2,314	2,311	4,927	6,972	1,369	1,688	1,598
2022-08-09	0	0	0	0	0	45	1	3	7	75	248	245	3,355	331	110	121	398	74	80	78	73	77	108	83	68	89	109	135	88	95	114	115	140	193	184	634	97	NC2	99	169	133	114	658	1,865	1,351	2,163	3,765	886	941	1,050
2022-08-16	0	0	0	0	0	0	0	0	0	92	120	279	5,360	291	93	73	454	30	51	36	26	23	42	8	0	21	43	92	16	9	63	62	103	134	125	759	59	NC2	82	163	124	80	860	2,415	1,714	7,193	7,832	1,250	1,406	1,189
2022-08-23	66	75	60	68	84	152	133	229	201	305	339	518	8,774	298	309	310	658	263	329	329	286	335	358	280	264	297	311	642	333	339	379	350	410	461	461	871	346	NC2	325	363	351	318	890	929	953	4,031	2,861	916	843	865
2022-08-30	0	0	0	0	0	29	0	0	0	4	32	210	3,830	223	75	61	353	54	82	83	50	46	73	66	73	161	176	138	105	129	111	103	161	165	153	496	105	NC2	126	213	178	171	682	800	864	2,449	3,166	513	459	502
2022-09-06	0	100	18	0	0	141	75	9	22	149	545	274	2,776	273	217	421	506	197	191	143	126	132	190	241	258	168	162	481	313	338	155	166	211	327	309	863	144	NC2	188	249	172	174	514	699	696	2,419	5,640	623	581	572
2022-09-13	250	252	284	382	405	507	495	495	523	634	2,181	923	5,721	1,118	721	810	967	534	557	507	431	435	461	537	408	433	405	504	529	423	395	414	503	614	527	1,038	379	NC2	360	568	468	399	2,406	2,805	3,160	8,202	8,432	4,741	4,332	3,592
2022-09-19	0	0	0	0	0	0	0	0	0	0	55	0	4,424	120	0	0	336	0	0	0	0	0	31	19	13	19	4	192	32	60	2	28	37	149	113	572	0	NC2	8	50	21	23	547	721	949	2,406	4,455	586	459	504
2022-09-26	0	0	0	0	0	0	0	0	0	0	0	0	4,453	427	0	0	186	0	0	0	0	0	0	0	0	0	0	151	0	33	0	0	0	253	26	537	0	NC2	0	41	32	0	427	609	755	2,015	3,196	561	425	490
2022-10-20	1	1	60	6	7	108	130	72	262	68	189	306	4,392	442	303	357	587	121	526	128	86	104	177	135	127	172	255	257	201	168	201	193	251	282	265	642	252	NC2	271	286	254	233	525	428	649	2,128	4,021	691	572	624
2022-11-08	106	76	37	9	30	216	101	44	181	60	153	1,845	3,595	298	304	341	516	88	134	108	117	141	139	133	137	199	171	333	153	344	219	167	237	257	240	624	212	NC2	394	251	174	194	504	569	639	3,995	4,625	480	531	564
2022-11-15	0	0	0	0	0	0	16	20	82	64	121	308	4,607	368	385	376	632	124	143	141	112	115	121	136	145	216	205	265	220	219	230	215	234	245	236	636	240	NC2	271	270	254	325	587	495	609	2,955	4,180	573	583	555
2022-11-21	638	527	383	305	273	238	252	249	294	300	368	520	4,635	445	597	618	818	305	341	330	289	309	333	333	319	349	318	419	353	302	351	349	358	396	350	677	342	NC2	321	389	339	305	631	701	787	3,712	2,580	710	658	652
2022-12-01	0	0	0	0	0	0	86	115	135	143	195	351	5,445	774	343	304	523	203	228	211	185	217	211	218	215	255	243	292	334	227	263	271	301	344	352	704	267	NC2	258	364	304	287	634	553	666	2,150	2,801	752	704	888
2022-12-08	16	1	0	4	7	49	11	10	59	124	172	335	5,731	750	469	412	556	137	112	73	687	114	142	112	128	188	190	248	202	179	199	214	248	272	196	642	184	NC2	200	286	247	230	340	307	422	2,441	2,852	596	657	643
2022-12-13	4	13	29	22	28	69	60	62	82	116	217	321	5,914	444	267	263	414	117	148	124	335	142	172	143	155	194	176	263	207	245	200	276	230	284	486	675	260	NC2	245	334	304	266	364	408	462	2,521	4,011	528	706	611
2022-12-20	0	0	0	0	0	0	0	0	6	173	133	304	5,747	429	336	282	449	129	143	136	140	111	134	133	117	188	189	228	157	178	176	173	210	251	244	613	201	NC2	216	302	263	229	841	713	666	54,890	21,220	515	807	618
2022-12-27	0	0	0	0	0	0	0	0	0	0	0	0	6,201	406	249	321	272	6	47	18	3	12	44	27	13	84	41	134	65	53	69	59	74	156	181	461	105	NC2	94	179	130	129	213	237	414	7,247	5,114	583	470	460
2023-01-03	0	0	0	0	0	0	0	0	0	0	0	40	6,164	706	283	201	294	14	46	25	0	3	47	36	8	71	63	182	89	79	89	86	111	193	160	569	128	NC2	108	209	167	161	231	254	338	5,333	5,365	657	581	485
2023-01-10	2	1	0	0	0	26	0	0	23	55	94	171	4,975	246	237	186	319	96	106	100	116	99	133	116	94	163	153	213	147	150	202	200	223	791	825	1,129	260	NC2	302	295	230	151	311	292	229	3,582	4,014	517	549	583
2023-01-17	0	0	0	0	0	0	0	0	0	0	0	0	3,004	204	38	35	104	0	0	0	0	36	42	18	39	3	12	2	12	15	2	20	31	89	37	479	0	NC2	1	59	10	6	176	220	289	1,810	1,736	368	350	442
2023-01-25	20	95	31	0	0	95	0	0	7	19	57	147	5,051	238	236	234	363	106	114	100	93	95	112	109	92	154	165	235	170	173	210	206	218	251	235	564	209	NC2	199	303	244	216	297	327	414	4,026	3,823	549	490	529
2023-02-01	0	0	0	0	0	26	0	0	0	41	100	164	4,979	387	222	222	327	64	63	57	77	76	64	85	81	119	113	175	136	146	177	152	172	197	188	517	151	NC2	152	268	213	206	284	301	276	5,740	3,753	580	756	521

Notes:

[1] - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

[2] - Soil vapor concentration measured using a ppmv PID.

[3] - Epoxy coatings being applied in the area near Tank 17. Epoxy coating contain volatile organic compounds which can be detected by the monitoring equipment used to collect SVM samples.

[4] - ppmv PID experienced unanticipated malfunction as indicated by a failed calibration check. PID result based on a second ppbv PID suggests the value is between 50 ppm - 150 ppm.

[5] - Estimated value for SVMPs at tanks 2-10 and 20 - Calibration check at end of day read 11.12 ppb, observing an approximately 11% high bias reading.

* Air compressor used to clear obstruction prior to collecting sample

** - Estimated value - Calibration check observed an approximately 40% low bias reading.

*** - Estimated value - Inadvertent early termination of PID reading.

NC - Not collected

NC1 - Not collected due to tank maintenance

NC2 - Not collected due to obstruction in vapor line

NC3 - Not collected - monitoring vault potentially compromised by relaese. Replacing tubing and cleaning valves. Sampling to begin 14 May

NC4 - Not collected due to a broken valve/fitting. A replacement valve is being pursued.

NC5 - Not collected - not required by the DOH Transition Plan.

Soil vapor concentration readings are reported in parts per billion by volume (ppbv).

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Appendix A.2: Background Tunnel Air Soil Vapor PID Concentration Readings (ppbv)

Date	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6	Tank 7	Tank 8	Tank 9	Tank 10	Tank 11	Tank 12	Tank 13	Tank 14	Tank 15	Tank 16	Tank 17	Tank 18	Tank 20
2021-05-10	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	6,900	4,300	8,200	10,300	41,000	70,000	71,000
2021-05-11	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	5,455	5,037	5,068	6,308	NC	NC	NC
2021-05-12	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	11,000	8,369	130	610	NC	NC	NC
2021-05-13	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	36,550	30,120	2,617	1,239	39,740	38,730	11,900
2021-05-14	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	32,630	12,640	4,288	4,266	38,500	17,000	17,230
2021-05-15	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	11,310	3,975	3,015	3,160	31,300	23,310	51,300
2021-05-16	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	10,180	3,628	3,930	4,295	39,960	21,270	33,510
2021-05-17	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	32,190	2,571	2,694	1,172	29,000	15,000	7,500
2021-05-18	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	13,500	1,930	496	2,487	10,360	9,023	7,568
2021-05-19	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	6,620	1,237	631	634	5,300	9,000	6,000
2021-05-20	1,301	1,270	1,219	1,150	1,089	1,101	1,297	1,079	1,008	1,067	1,255	2,438	1,261	613	348	10,700	7,800	7,700
2021-05-21	1,323	1,168	1,051	1,154	1,606	1,578	1,364	2,303	1,352	1,404	1,317	1,968	1,053	650	598	NC1	15,200	6,200
2021-05-22	3,317	3,228	3,251	3,464	3,316	3,422	3,520	3,592	3,872	3,787	3,799	5,004	4,601	3,907	4,050	13,100	17,100	16,000
2021-05-23	1,097	1,069	1,004	1,020	1,040	1,049	1,021	932	1,003	921	1,009	3,610	469	465	348	11,600	10,800	8,100
2021-05-24	1,135	1,015	1,048	1,082	1,028	1,187	1,563	1,758	1,888	2,459	2,733	2,872	2,943	2,134	1,986	8,065	8,054	6,841
2021-05-25	970	1,054	957	945	845	1,099	946	926	1,541	1,875	2,022	2,894	2,458	2,085	530	13,000	16,000	>20,000
2021-05-26	1,817	2,036	3,608	6,460	7,201	6,820	4,902	8,302	NC	6,814	5,951	22,840	11,400	1,911	494	8,000	25,300	10,600
2021-05-27	3,605	2,652	3,725	7,278	7,426	4,895	4,637	4,281	5,403	4,575	5,784	8,932	400	187	229	6,000[2]	11,200[2]	7,900[2]
2021-05-28	2,975	2,803	3,070	3,241	3,184	4,520	8,374	6,249	4,396	4,544	4,558	2,902	3,333	2,391	2,609	15,890	23,340	14,230
2021-05-29	3,229	3,348	3,484	3,503	3,228	3,124	3,488	3,545	3,879	3,878	4,303	9,914	3,225	3,394	3,721	9,000	10,200	10,100
2021-05-30	980	1,257	1,418	1,873	2,025	2,168	2,139	2,314	2,385	2,295	2,014	NC1	1,723	1,502	1,586	9,018	9,613	1,301
2021-05-31	898	640	1,524	1,716	1,238	1,836	954	736	626	560	645	9,503	253	0	0	5,679	5,321	2,885
2021-06-01	730	691	752	767	751	805	786	NC	NC	715	912	NC1	708	307	454	NC1	6,300	5,000
2021-06-02	846	667	653	918	1,805	1,306	1,379	1,406	1,391	1,522	1,510	NC1	877	1,018	920	10,470	10,690	11,210
2021-06-03	2,240	2,232	2,234	2,445	2,511	2,321	2,713	2,714	2,781	3,056	3,356	2,746	3,502	2,378	2,279	15,000	21,500	12,500
2021-06-04	1,131	1,105	1,120	1,024	1,813	1,479	2,683	4,737 21,000	3,876	3,216	3,600	7,549	3,907	2,360	2,257	13,500	15,900	14,500
2021-06-05	337	394	313	276	343	346	381	304	333	303	602	5,633	256	0	0	4,867	5,370	4,535
2021-06-06	618	641	693	694	750	822	756	689	779	712	875	4,412	676	391	487	5,400	4,500	4,759
2021-06-07	763	1,046	1,327	1,736	1,805	1,847	1,940	1,752	1,974	2,034	2,610	3,703	3,031	2,092	2,740	8,700	5,000	5,000
2021-06-08	645	721	1,070	1,239	1,715	1,298	1,545	1,576	1,514	1,760	2,030	2,586	1,329	1,577	1,641	13,330	9,593	15,420
2021-06-09	844	850	1,017	805	967	973	939	845	966	900	1,042	4,147	906	422	450	7,981	8,282	6,985
2021-06-14	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	554	440	915	740	240	304	3,890	3,994	2,505
2021-06-18	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	2,122	2,373	12,000	3,534	1,624	1,920	19,000	26,500	17,200
2021-06-21	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	2,363	2,611	43,170	2,424	1,151	1,076	14,820	10,300	11,680
2021-06-24	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,023	781	8,634	1,157	115	118	4,173	5,980	5,954
2021-06-28	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,749	2,023	8,180	3,448	1,496	1,497	9,900[2]	11,500[2]	10,300[2]
2021-07-01	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	511	540	11,410	1,560	456	514	237,400[3]	42,110	3,373
2021-07-06	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	917	933	4,084	1,611	0	0	4,492	3,270	3,268
2021-07-08	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	666	474	2,130	1,352	23	34	2,988	6,500	4,212
2021-07-12	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	20,500	33,080	347,000	71,240	648	725	5,842	3,718	7,853
2021-07-15	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	389	440	826	903	128	25	3,520	3,568	2,020
2021-07-19	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	314	327	939	927	43	402	3,175	5,834	4,280
2021-07-22	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	640	413	2,815	540	0	230	3,454	3,286	3,112
2021-08-02	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,451	1,456	1,823	1,187	1,149	1,231	17,310	4,083	16,220
2021-08-05	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	34	0	1,830	132	0	4	1,854	2,309	2,121
2021-08-09	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	291	355	3,410	355	580	355	1,288	2,756	2,303
2021-08-12	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	0	0	0	0	0	0	637	1,275	1,873
2021-08-16	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	409	329	504	466	408	410	1,417	1,856	1,415
2021-08-19	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	147	199	1,395	1,332	95	122	1,050	2,785	7,313
2021-08-23	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	694	683	1,651	315	160	218	3,885	2,436	1,603
2021-08-26	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	0	0	0	706	47	45	1,518	2,123	4,210
2021-08-30	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,242	1,065	1,232	679	1,280	1,401	10920[2]	3,687	8,234
2021-09-02	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	422	435	461	499	504	500	996	1,361	1,988
2021-09-07	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	198	100	242	96	80	443	8,913	6,560	11,090
2021-09-09	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	148	124	150	201	93	69	3,185	3,820	2,621
2021-09-13	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	186	222	221	230	172	242	6,878	6,415	3,658
2021-09-16	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,901	225	325	676	303	352	6,562	6,710	4,414
2021-09-20	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	94	42	89	163	17	25	4,348	3,739	5,896
2021-09-23	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	193	343	269	206	135	186	2,381	3,199	3,134
2021-09-27	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	87	104	186	160	115	152	3,057	3,356	2,448
2021-09-30	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	452	436	719	445	595	612	5,018	4,811	3,327
2021-10-04	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	227	183	761	337	137	148	2,213	4,020	1,293
2021-10-07	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	460	493	282	190	101	148	7,830	6,561	7,453
2021-10-12	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	136	172	752	498	127	144	7,191	6,690	2,816
2021-10-14	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	468	495	1,016	807	911	2,342	4,638	3,947	8,821
2021-10-18	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	112	147	67	664	77	80	1,221	1,262	905
2021-10-21	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	98	66	111	303	532	811	4,196	NC1	5,894
2021-10-25	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	2,983	3,252	407	3,500	480	396	5,064	4,420	4,256
2021-10-28	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,290	1,312	1,667	938	1,108	977	3,750	1,563	2,987
2021-11-01	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	962	707	751	NC1	642	720	9,873	4,378	8,193
2021-11-04	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	775	313	550	478	372	532	3,256	4,514	8,630
2021-11-08	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	275	215	204	702	674	627	5,320	5,413	4,934
2021-11-11	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,270	1,274	1,294	1,382	1,011	1,085	4,181	5,172	3,412
2021-11-15	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	433	325	373	359	249	280	6,657	7,805	1,634
2021-11-18	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	945	820	839	885	951	1,310	4,879	6,062	2,523
2021-11-22	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,132	1,049	1,093	842	957	1,056	6,538	6,013	5,956
2021-11-29	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	606	644	551	402	300	252	5,833	5,889	2,054
2021-12-02	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	270	306	835	802	1,387	1,392	3,689	4,631	1,341
2021-12-13	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	544	682	651	1,398	795	672	4,710	5,071	5,011
2021-12-20	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	12	30	240	518	288	12	4,552	5,681	3,687
2021-12-30	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	21	25	23	192	71	55	942	1,565	3,517
2022-01-04	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	233	181	198	281	196	165	3,845	3,284	4,759
2022-01-06	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	43	61	53	71	53	40	1,401	1,561	2,187
2022-01-10	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	159	232	258	227	178	151	1,652	2,509	2,628
2022-01-13	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	122	105	120	233	104	48	6,605	7,018	2,639
2022-01-17	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	164	88	4	4[4]	0	0	5,396	7,911	5,925
2022-01-20	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	10,080[2]	10,460[2]	12,640[2]	4,362	94	91	4,188	3,811	1,663
2022-01-24	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	804	906	1,460	1,450	71	12	3,426	6,452	4,632
2022-01-27	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	847	1,504	0	877	55	10	3,501	3,011	4,269
2022-01-31	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	2,524	2,473	2,644	16,050[2]	31	32	984	1,329	1,253
2022-02-03	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,226	555	733	868	40	19	3,955	5,788	4,460
2022-02-07	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	744	1,512	243	2,341	292	260	4,252	6,716	5,691
2022-02-10	1,220	1,180	940	1,005	1,079	1,173	1,044	1,083	1,267	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5
2022-02-17	6,631	8,250	8,912	7,336	7,734	7,324	6,618	5,681	6,230	4,817	9,879	4,093	24,210[2, 5]	533	15,010[2]	2,819	3,047	2,019
2022-02-22	1,836	2,088	2,128	2,338	2,504	2,535	2,520	2,599	2,553	2,532	2,929	3,604	3,891	550	561	7,081	5,902	4,107
2022-02-28	1,372	2,095	1,917	2,078	2,173	1,999	2,242	2,062	2,251	1,788	2,871	1,270	22,160	710	1,475	3,842	4,816	3,202
2022-03-08	1,493	1,618	1,657	1,735	1,753	1,930	1,720	1,694	2,330	2,360	2,311	2,321	3,117	976	2,240	1,749	1,671	3,515
2022-03-15	1,201	966	1,407	1,505	1,492	1,730	1,580	1,586	1,774	1,478	2,023	1,089	6,107	983	2,552	1,970	2,649	5,389
2022-03-22	2,097	4,443	4,996	2,107	1,492	1,430	1,338	1,102	1,170	898	1,662	936	2,445	532	1,598	1,678	2,439	3,252
2022-03-30	668	930	1,003	1,221	1,195	1,190	1,176	1,330	1,448	1,410	1,392	1,484	1,855	1,997	1,359	690	834	934
2022-04-06	599	689	732	785	815	866	825	897	959	917	947	651	1,085	1,041	1,176	554	643	1,437
2022-04-13	381	433	409	548	613	525	719	799	858	881	1,189	268	3,652	484	1,086	663	559	476
2022-04-20	335	534	501	463	454	567	537	526	578	520	655	353	2,533	389	781	470	527	942
2022-04-26	121	165	239	200	221	504	322	274	349	236	391	571	2,388	572	865	298	349	496
2022-05-03	408	372	450	428	499	537	465	566	592	748	765	452	2,808	573	774	606	656	665
2022-05-10	3,689	2,763	3,324	599	656	1,133	480	443	287	398	396	284	1,980	272	575	383	487	1,418
2022-05-18	88	115	122	128	156	221	212	219	261	247	382	158	1,675	189	176	392	521	415
2022-05-25	400	421	489	455	481	585	625	696	480	401	452	282	1,797	204	241	276	208	361
2022-06-01	559	232	310	163	487	360	282	293	322	357	359	272	1,198	302	283	3,463	4,860	2,716
2022-06-08	0	0	0	0	200	109	70	115	146	131	217	91	932	112	81	2,355	3,155	3,703
2022-06-15	725	153	119	127	368	0	1	12	44	1	91	0	1,210	0	45	2,133	4,351	1,836
2022-06-22	218	10	6	18	544	161	92	88	107	154	177	102	461	136	121	3,202	3,916	3,157
2022-06-28	478	280	260	291	186	222	171	147	181	199	263	125	1,463	0	0	2,537	3,899	2,776
2022-07-05	475	330	130	192	383	267	235	241	275	262	318	221	2,150	251	275	1,891	3,110	4,000
2022-07-12	710	146	81	111	130	227	214	220	281	250	410	217	2,033	287	403	2,255	4,827	2,290
2022-07-19	233	104	111	106	190	329	286	279	345	352	480	325	1,994	322	366	3,163	5,494	2,607
2022-07-25	58	128	144	108	125	222	173	204	171	196	233	181	649	247	238	4,515	5,617	2,004
2022-08-02	321	114	158	98	450	199	217	270	219	369	339	235	778	352	340	4,768	5,610	1,909
2022-08-09	344	185	186	181	347	225	218	245	241	337	291	227	651	193	207	1,806	3,018	1,314
2022-08-16	480	150	172	157	702	302	213	283	219	255	314	168	706	187	285	3,026	8,325	1,758
2022-08-23	424	317	338	342	423	483	467	516	502	461	536	491	1,164	416	399	2,465	4,631	1,796
2022-08-30	0	50	3	10	42	193	132	167	132	231	155	145	216	151	220	2,237	2,140	971
2022-09-06	286	118	105	108	164	261	302	326	414	472	460	361	668	339	378	1,397	5,478	1,064
2022-09-13	499	755	933	1,142	1,159	1,257	877	775	695	857	714	694	1,081	646	743	6,591	13	7,865
2022-09-19	190	78	84	8	11	78	60	91	102	171	195	68	459	61	121	3,089	2,516	1,448
2022-09-26	0	0	0	0	0	10	0	0	0	86	62	0	374	3	39	2,332	2,267	1,868
2022-10-20	128	251	401	181	318	311	352	439	300	338	306	321	620	499	318	1,705	3,381	1,342
2022-11-08	188	133	230	117	478	234	214	439	327	363	327	333	472	296	2,167	1,605	5,859	1,027
2022-11-15	36	135	149	167	464	306	138	239	224	376	404	292	479	270	302	1,913	1,804	1,192
2022-11-21	1,035	561	437	397	459	454	476	479	546	491	502	415	561	378	371	1,930	1,980	1,235
2022-12-01	45	52	92	181	222	335	280	307	295	321	325	283	521	295	337	996	1,660	1,303
2022-12-08	33	91	73	105	664	335	155	165	205	234	231	208	398	243	257	571	1,221	1,287
2022-12-13	52	115	125	128	295	232	191	208	218	246	271	226	429	264	264	798	1,414	1,249
2022-12-20	32	61	51	133	479	252	227	228	230	242	322	210	303	215	220	830	3,446	843
2022-12-27	0	0	0	0	431	159	80	129	135	137	166	136	314	170	183	1,112	1,679	1,447
2023-01-03	0	0	0	9	53	274	137	139	153	168	195	172	407	226	189	1,315	1,986	1,508
2023-01-10	137	111	95	98	135	232	203	205	249	221	258	246	2,544	360	181	947	1,758	
2023-01-17	0	0	0	0	338	0	0	217	226	18	88	54	67	70	72	1,145	1,812	1,987
2023-01-25	362	192	164	75	152	221	181	190	225	247	235	231	252	255	269	1,339	2,043	1,102
2023-02-01	27	53	52	57	560	194	160	166	171	223	216	222	281	282	274	1,408	1,401	1,479

Notes:

[1] - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

[2] - Soil vapor concentration measured using a ppmv PID.

[3] - Epoxy coatings being applied in the area near Tank 17. Epoxy coating contain volatile organic compounds which can be detected by the monitoring equipment used to collect SVM samples.

[4] - Solvent odor from work occuring in the area near Tank 18 caused elevated background PID readings.

* Air compressor used to clear obstruction prior to collecting sample

** - Estimated value - Calibration check observed an approximately 40% low bias reading.

*** - Estimated value - Inadvertent early termination of PID reading.

NC - Not collected

NC1 - Not collected due to tank maintenance

NC2 - Not collected due to obstruction in vapor line

NC3 - Not collected - monitoring vault potentially compromised by relaese. Replacing tubing and cleaning valves. Sampling to begin 14 May

NC4 - Not collected due to a broken valve/fitting. A replacement valve is being pursued.

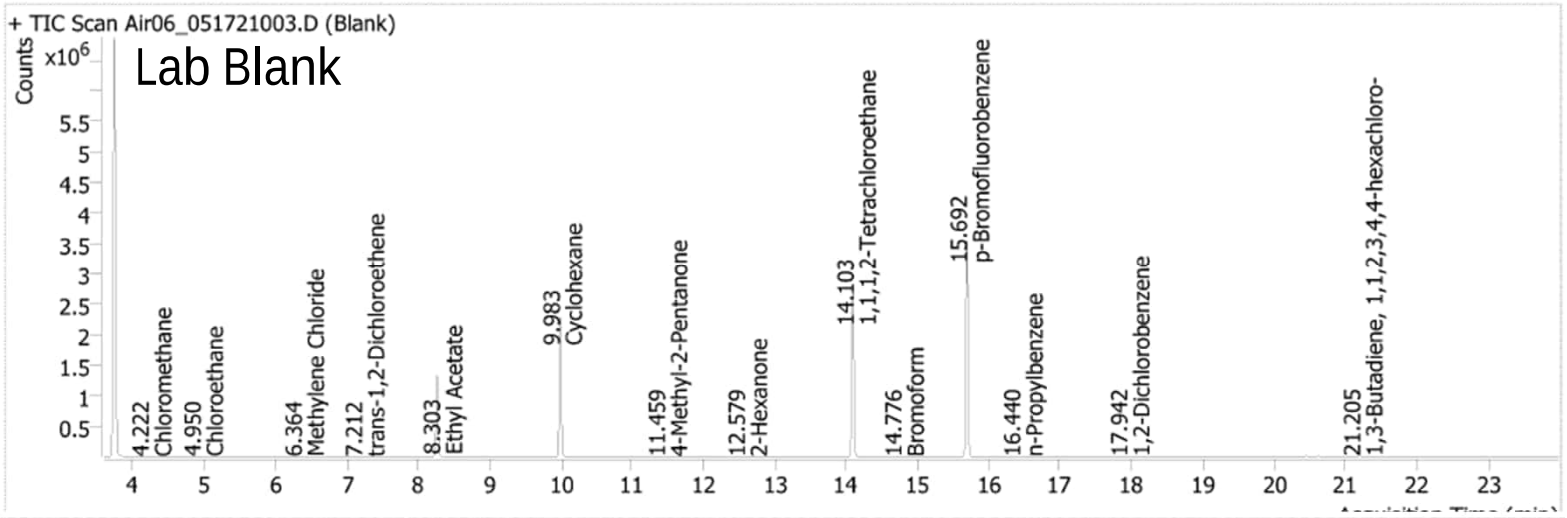
NC5 - Not collected - not required by the DOH Transition Plan.

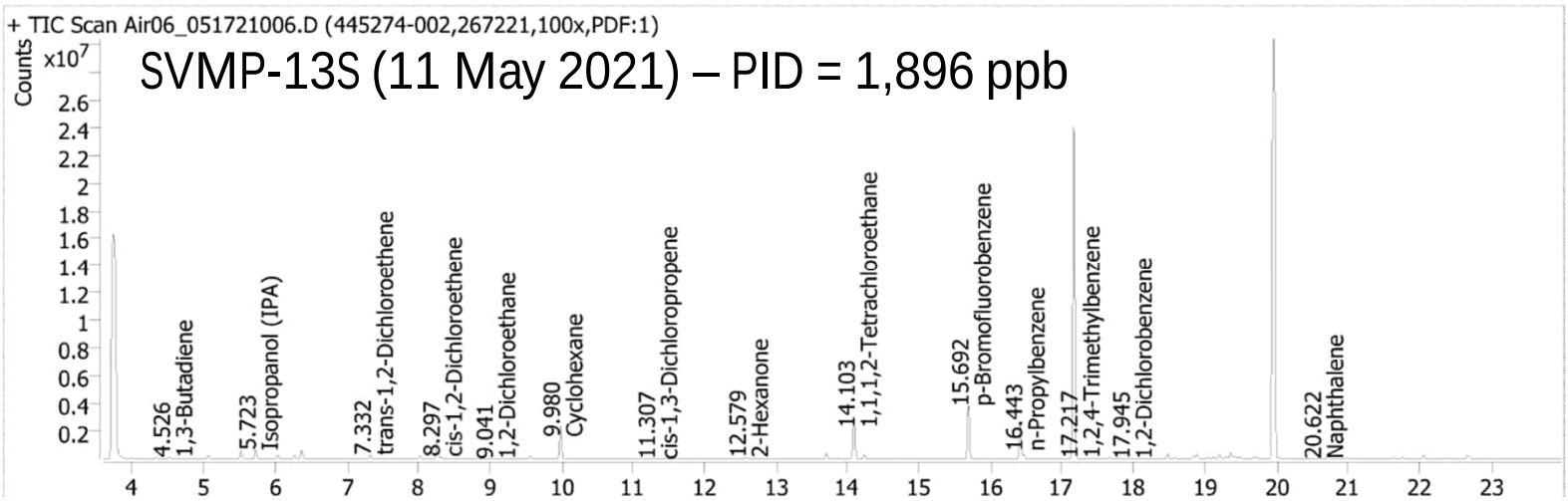
Soil vapor concentration readings are reported in parts per billion by volume (ppbv).

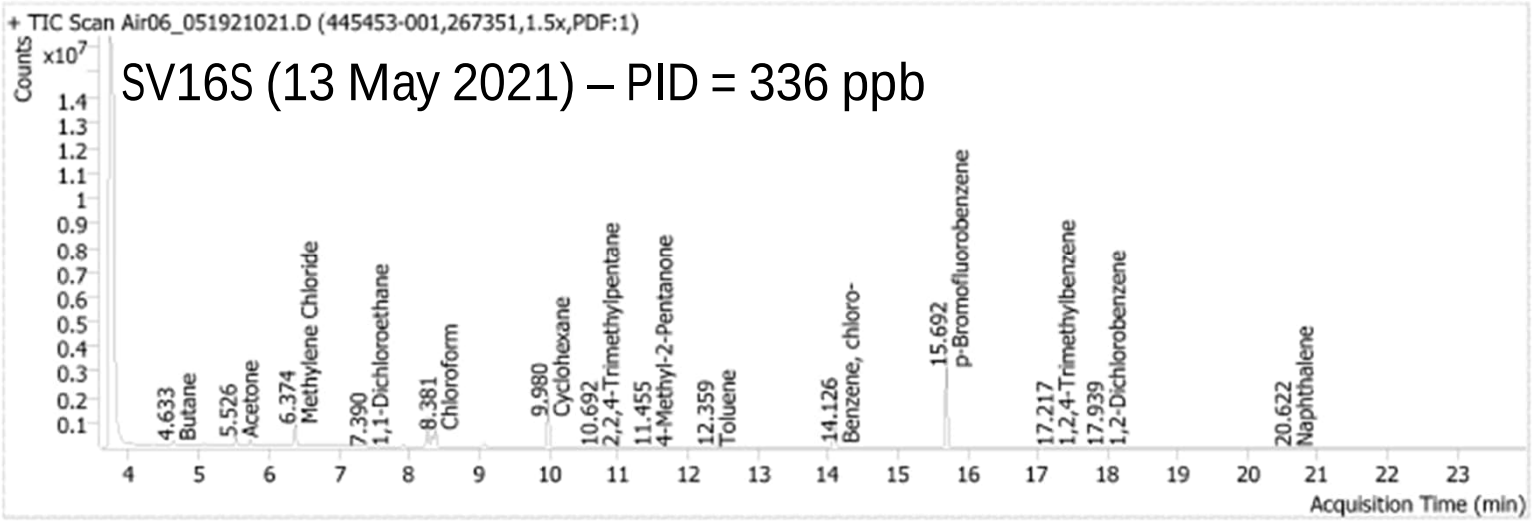
Appendix A.3 – NOI Soil Vapor Chromatograms

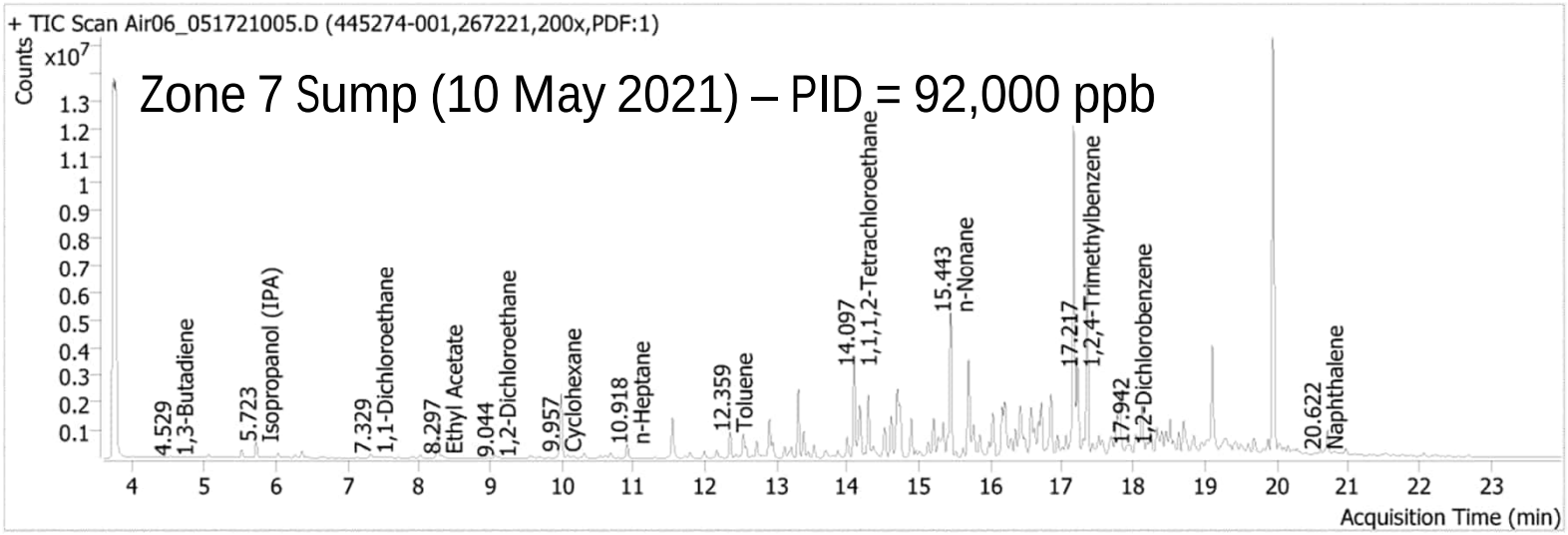
May 2021 Soil Vapor Samples

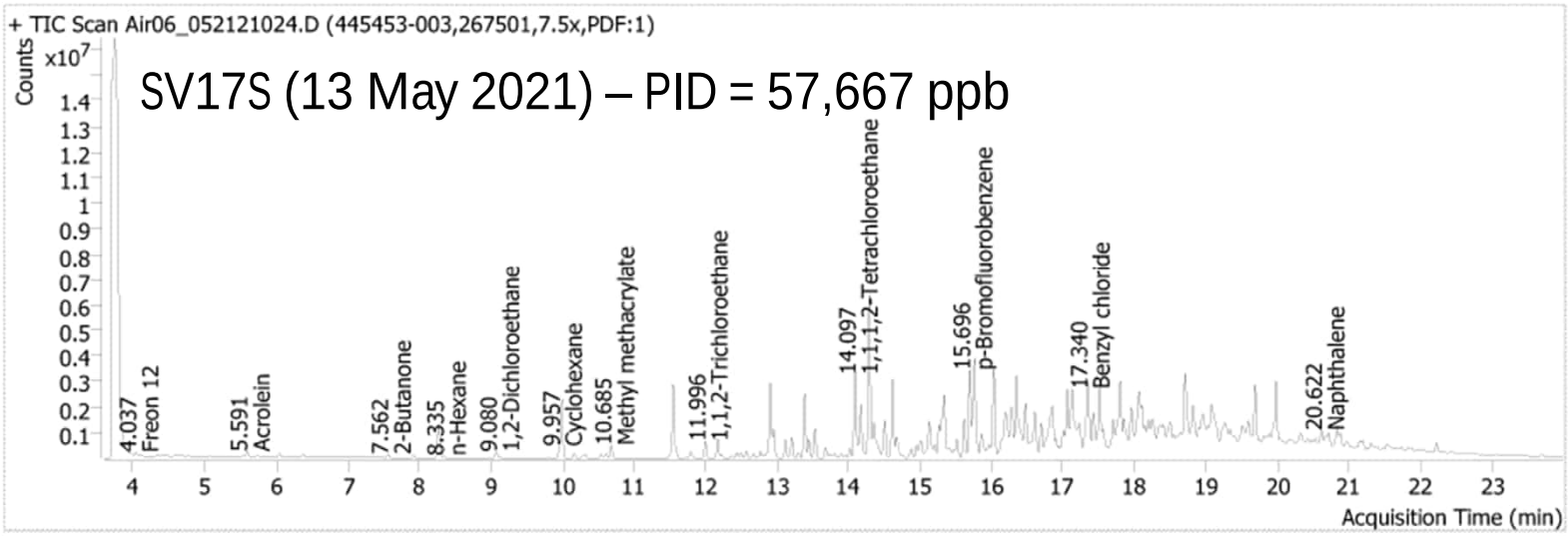
Mass Spec Chromatograms

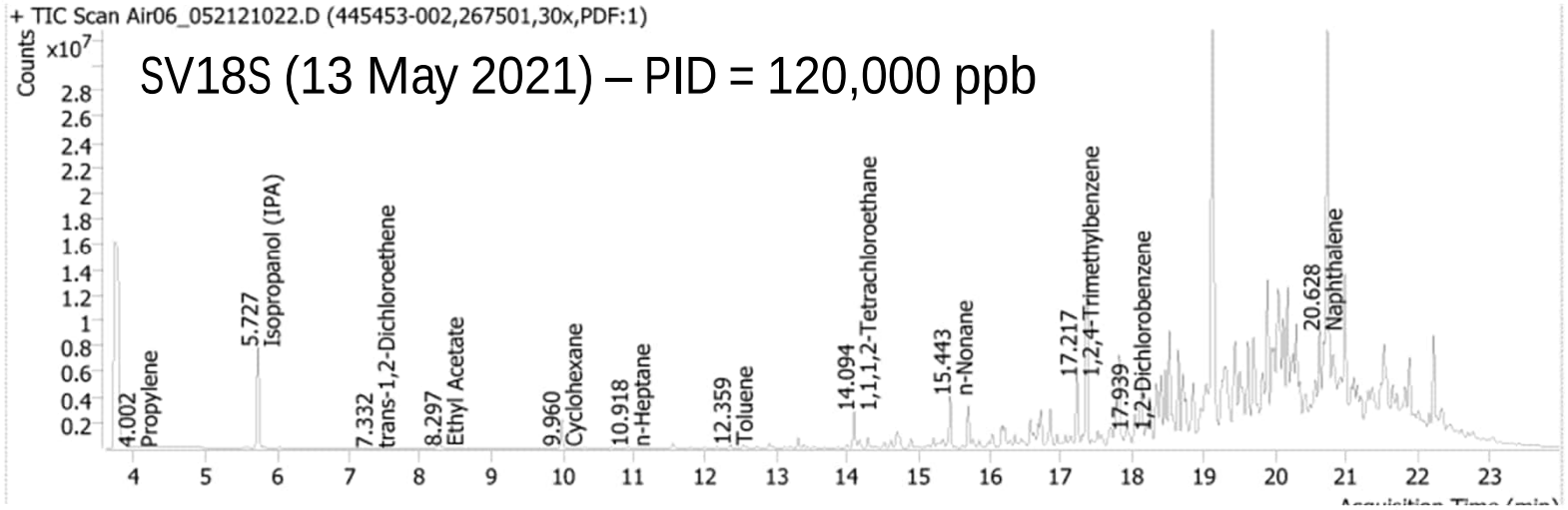

+ TIC Scan Air06_051721003.D (Blank)
Lab Blank
Counts
x10^6
4.222 Chloromethane
4.950 Chloroethane
6.364 Methylene Chloride
7.212 trans-1,2-Dichloroethene
8.303 Ethyl Acetate
9.983 Cyclohexane
11.459 4-Methyl-2-Pentanone
12.579 2-Hexanone
14.103 1,1,1,2-Tetrachloroethane
14.776 Bromoform
15.692 p-Bromofluorobenzene
16.440 n-Propylbenzene
17.942 1,2-Dichlorobenzene
21.205 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

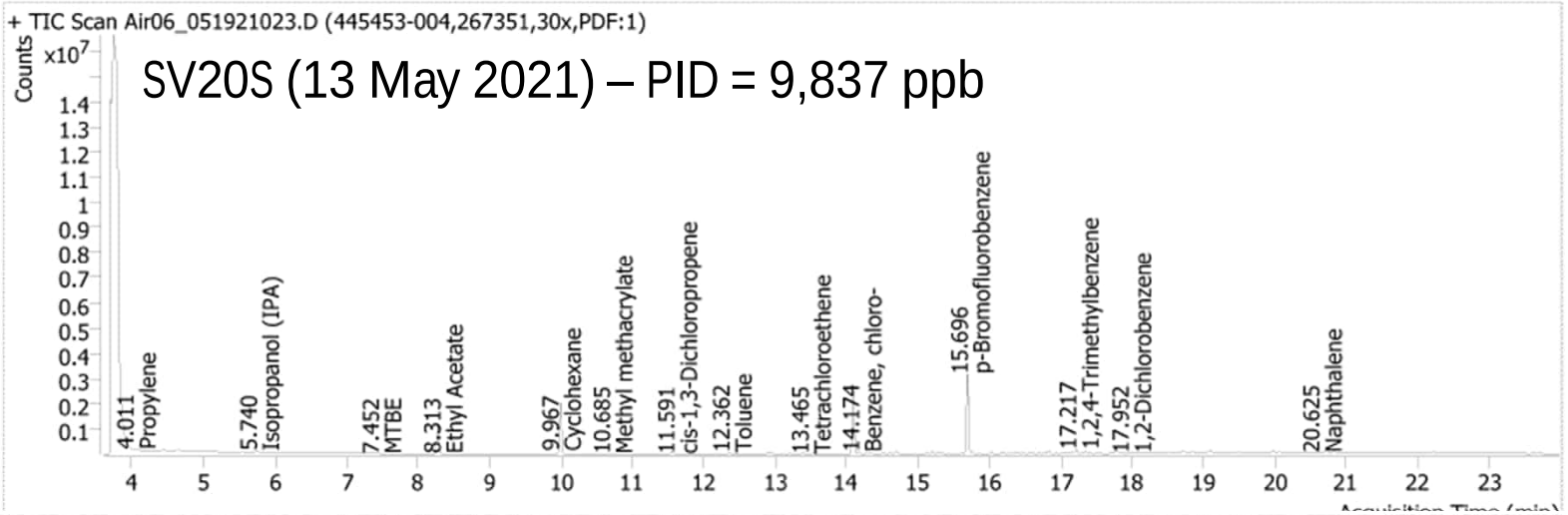

+ TIC Scan Air06_051721006.D (445274-002,267221,100x,PDF:1)
SVMP-13S (11 May 2021) – PID = 1,896 ppb
Counts
x10^7
4.526 1,3-Butadiene
5.723 Isopropanol (IPA)
7.332 trans-1,2-Dichloroethene
8.297 cis-1,2-Dichloroethene
9.041 1,2-Dichloroethane
9.980 Cyclohexane
11.307 cis-1,3-Dichloropropene
12.579 2-Hexanone
14.103 1,1,1,2-Tetrachloroethane
15.692 p-Bromofluorobenzene
16.443 n-Propylbenzene
17.217 1,2,4-Trimethylbenzene
17.945 1,2-Dichlorobenzene
20.622 Naphthalene

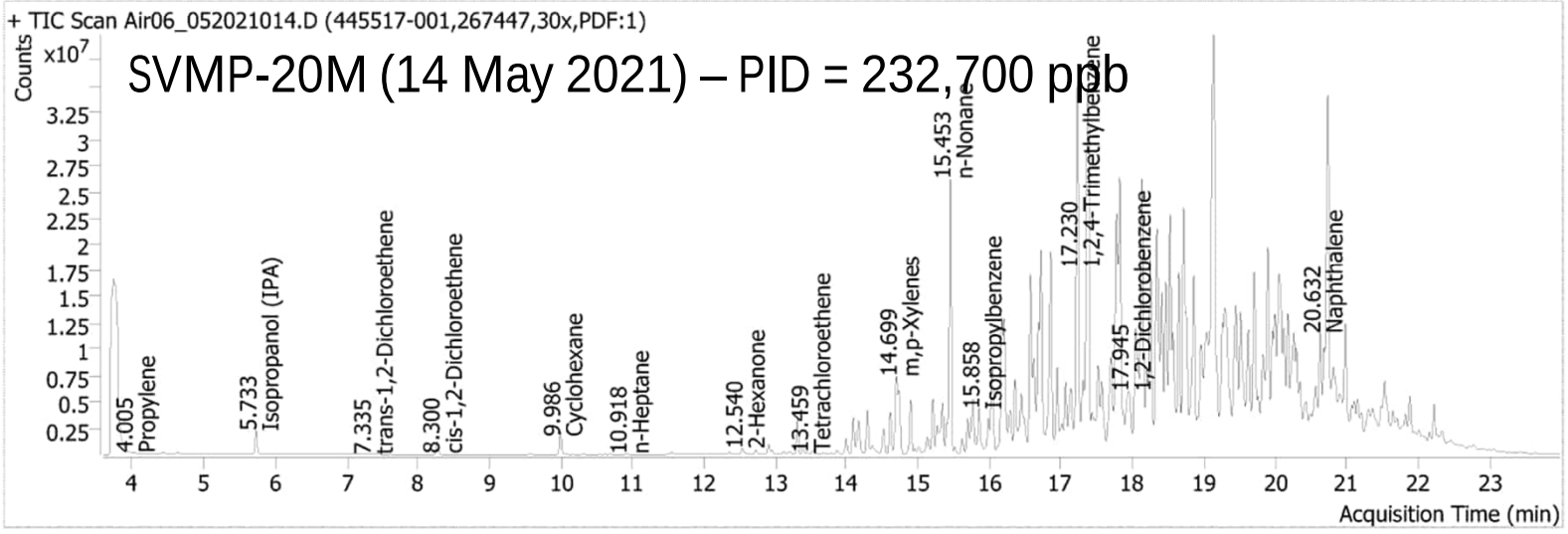

+ TIC Scan Air06_051921021.D (445453-001,267351,1.5x,PDF:1)
SV16S (13 May 2021) – PID = 336 ppb
Counts
x10^7
4.633 Butane
5.526 Acetone
6.374 Methylene Chloride
7.390 1,1-Dichloroethane
8.381 Chloroform
9.980 Cyclohexane
10.692 2,2,4-Trimethylpentane
11.455 4-Methyl-2-Pentanone
12.359 Toluene
14.126 Benzene, chloro-
15.692 p-Bromofluorobenzene
17.217 1,2,4-Trimethylbenzene
17.939 1,2-Dichlorobenzene
20.622 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_051721005.D (445274-001,267221,200x,PDF:1)
Zone 7 Sump (10 May 2021) – PID = 92,000 ppb
Counts
x10^7
4.529 1,3-Butadiene
5.723 Isopropanol (IPA)
7.329 1,1-Dichloroethane
8.297 Ethyl Acetate
9.044 1,2-Dichloroethane
9.957 Cyclohexane
10.918 n-Heptane
12.359 Toluene
14.097 1,1,1,2-Tetrachloroethane
15.443 n-Nonane
17.217 1,2,4-Trimethylbenzene
17.942 1,2-Dichlorobenzene
20.622 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_052121024.D (445453-003,267501,7.5x,PDF:1)
SV17S (13 May 2021) – PID = 57,667 ppb
Counts
x10^7
4.037 Freon 12
5.591 Acrolein
7.562 2-Butanone
8.335 n-Hexane
9.080 1,2-Dichloroethane
9.957 Cyclohexane
10.685 Methyl methacrylate
11.996 1,1,2-Trichloroethane
14.097 1,1,1,2-Tetrachloroethane
15.696 p-Bromofluorobenzene
17.340 Benzyl chloride
20.622 Naphthalene
Acquisition Time (min)

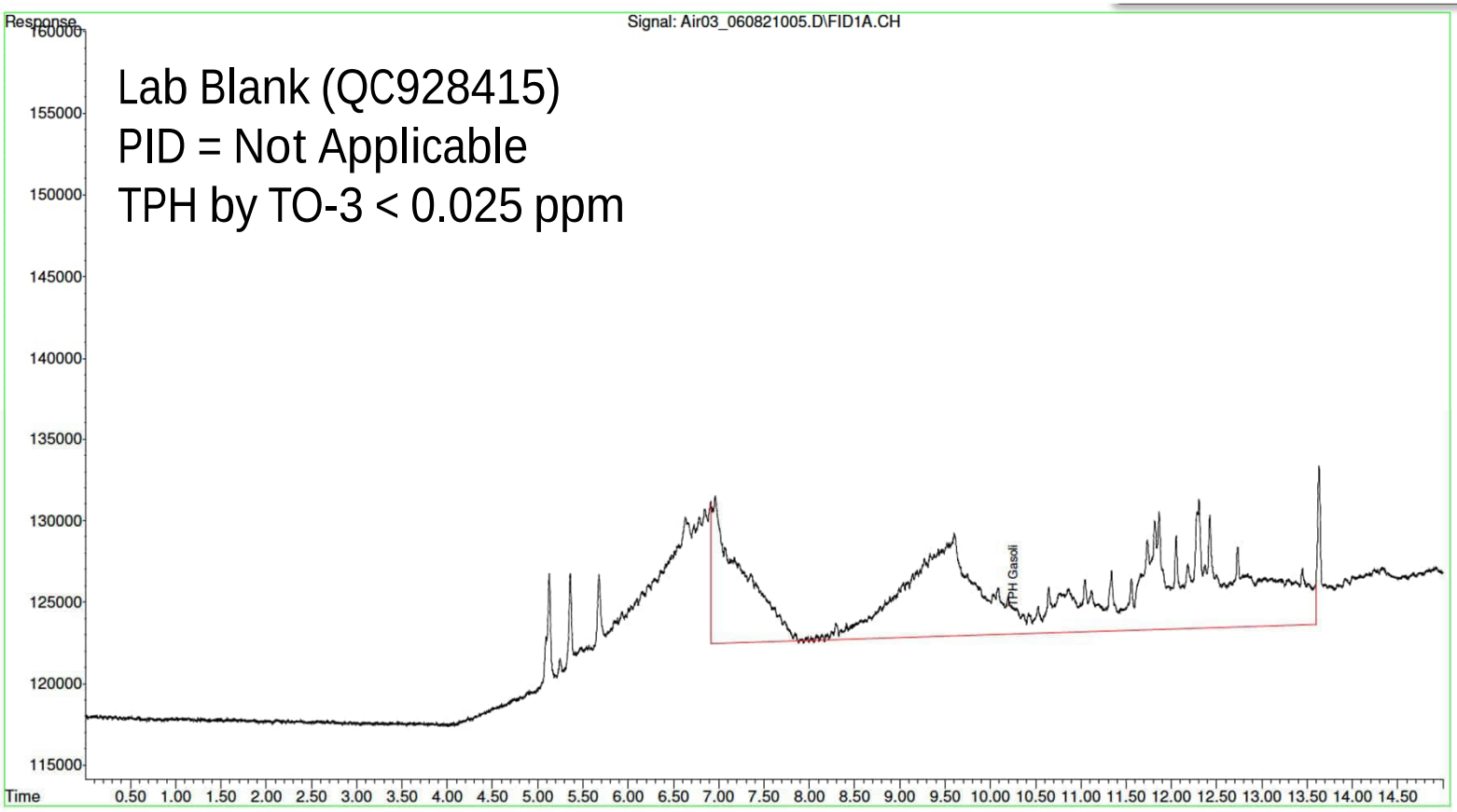

+ TIC Scan Air06_052121022.D (445453-002,267501,30x,PDF:1)
SV18S (13 May 2021) – PID = 120,000 ppb
Counts
x10^7
4.002 Propylene
5.727 Isopropanol (IPA)
7.332 trans-1,2-Dichloroethene
8.297 Ethyl Acetate
9.960 Cyclohexane
10.918 n-Heptane
12.359 Toluene
14.094 1,1,1,2-Tetrachloroethane
15.443 n-Nonane
17.217 1,2,4-Trimethylbenzene
17.939 1,2-Dichlorobenzene
20.628 Naphthalene

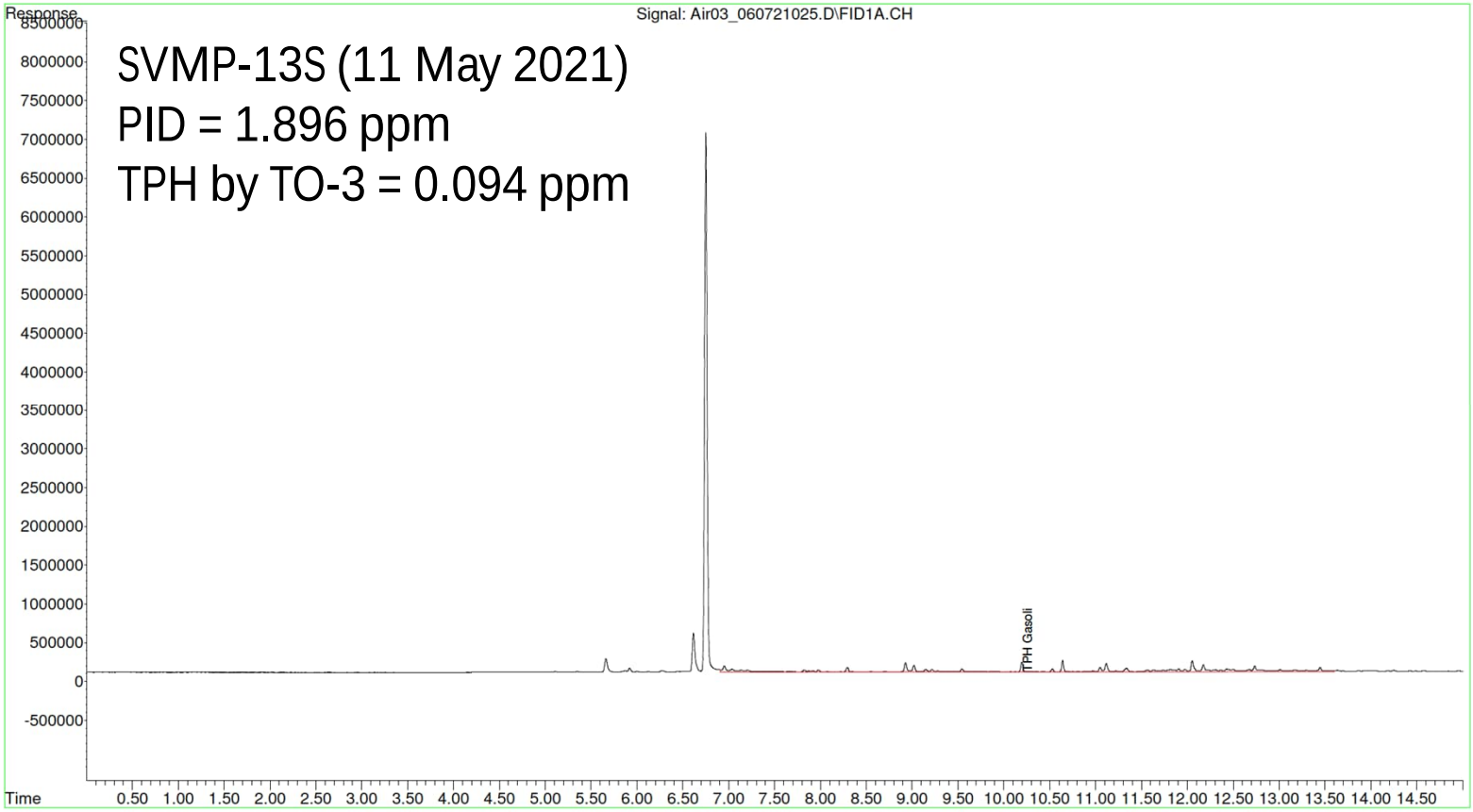

+ TIC Scan Air06_051921023.D (445453-004,267351,30x,PDF:1)
SV20S (13 May 2021) – PID = 9,837 ppb
Counts
x10^7
4.011 Propylene
5.740 Isopropanol (IPA)
7.452 MTBE
8.313 Ethyl Acetate
9.967 Cyclohexane
10.685 Methyl methacrylate
11.591 cis-1,3-Dichloropropene
12.362 Toluene
13.465 Tetrachloroethene
14.174 Benzene, chloro-
15.696 p-Bromofluorobenzene
17.217 1,2,4-Trimethylbenzene
17.952 1,2-Dichlorobenzene
20.625 Naphthalene

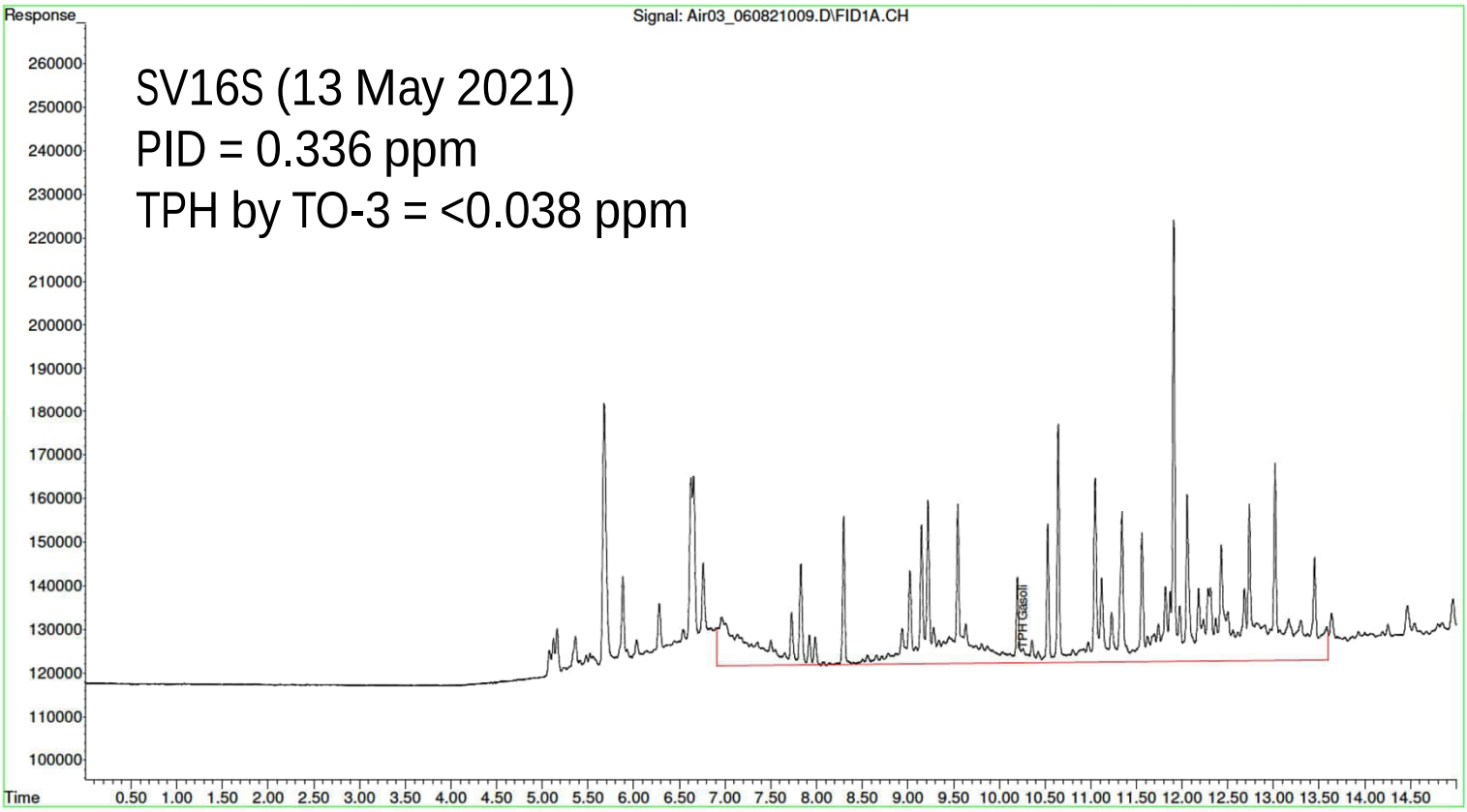

+ TIC Scan Air06_052021014.D (445517-001,267447,30x,PDF:1)
SVMP-20M (14 May 2021) – PID = 232,700 ppb
Counts
x10^7
4.005 Propylene
5.733 Isopropanol (IPA)
7.335 trans-1,2-Dichloroethene
8.300 cis-1,2-Dichloroethene
9.986 Cyclohexane
10.918 n-Heptane
12.540 2-Hexanone
13.459 Tetrachloroethene
14.699 m,p-Xylenes
15.453 n-Nonane
15.858 Isopropylbenzene
17.230 1,2,4-Trimethylbenzene
17.945 1,2-Dichlorobenzene
20.632 Naphthalene
Acquisition Time (min)

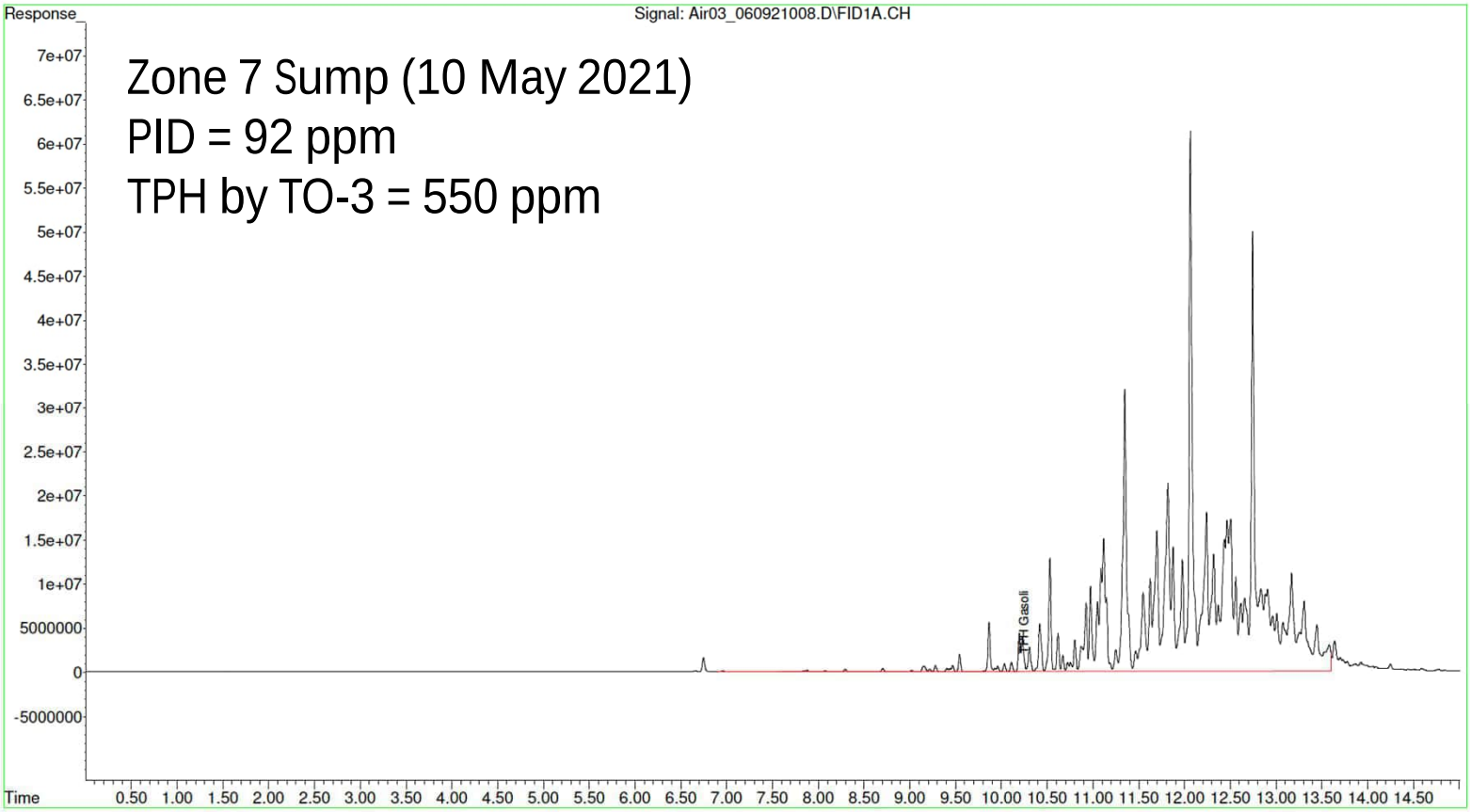
May 2021 Soil Vapor Samples

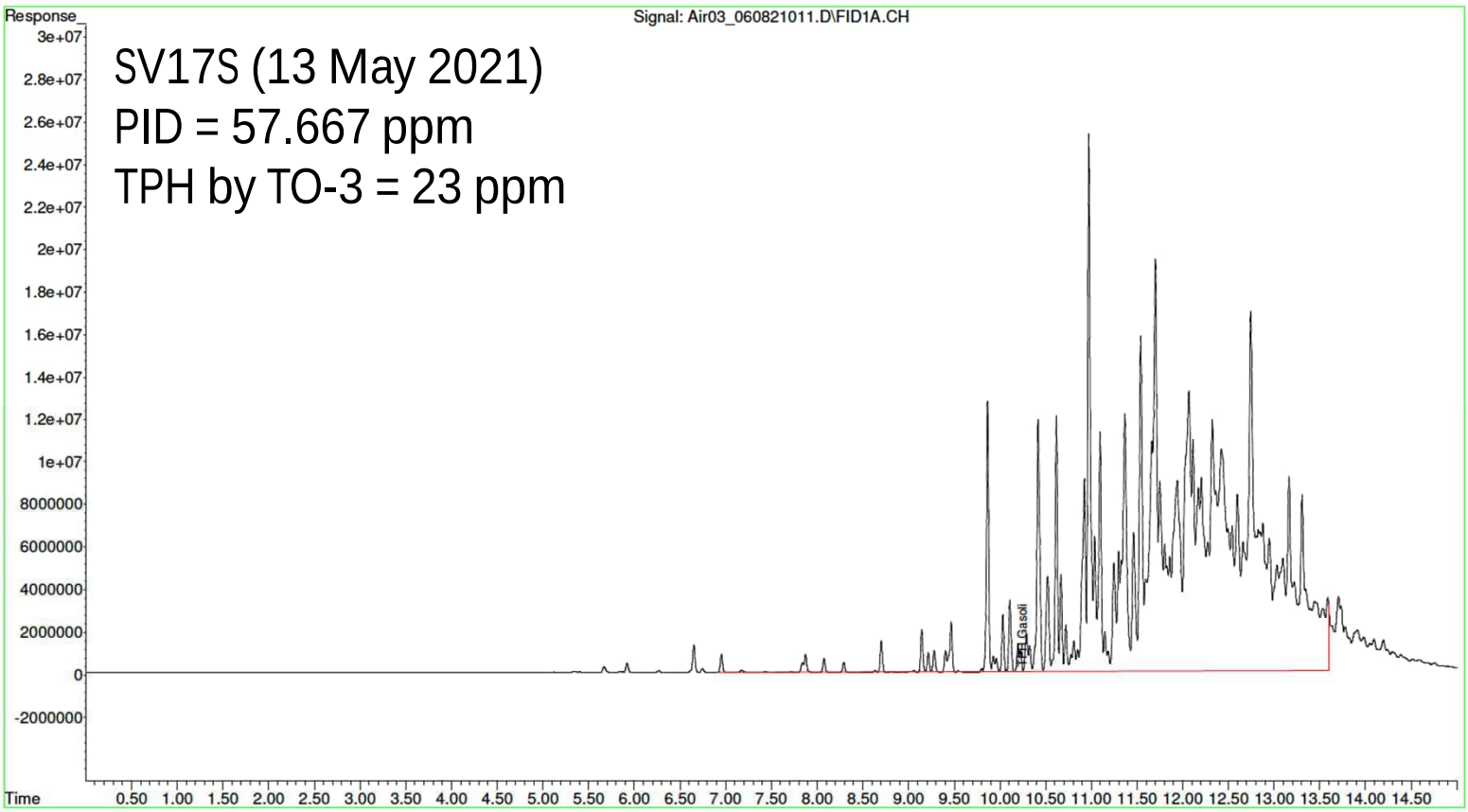
FID Chromatograms

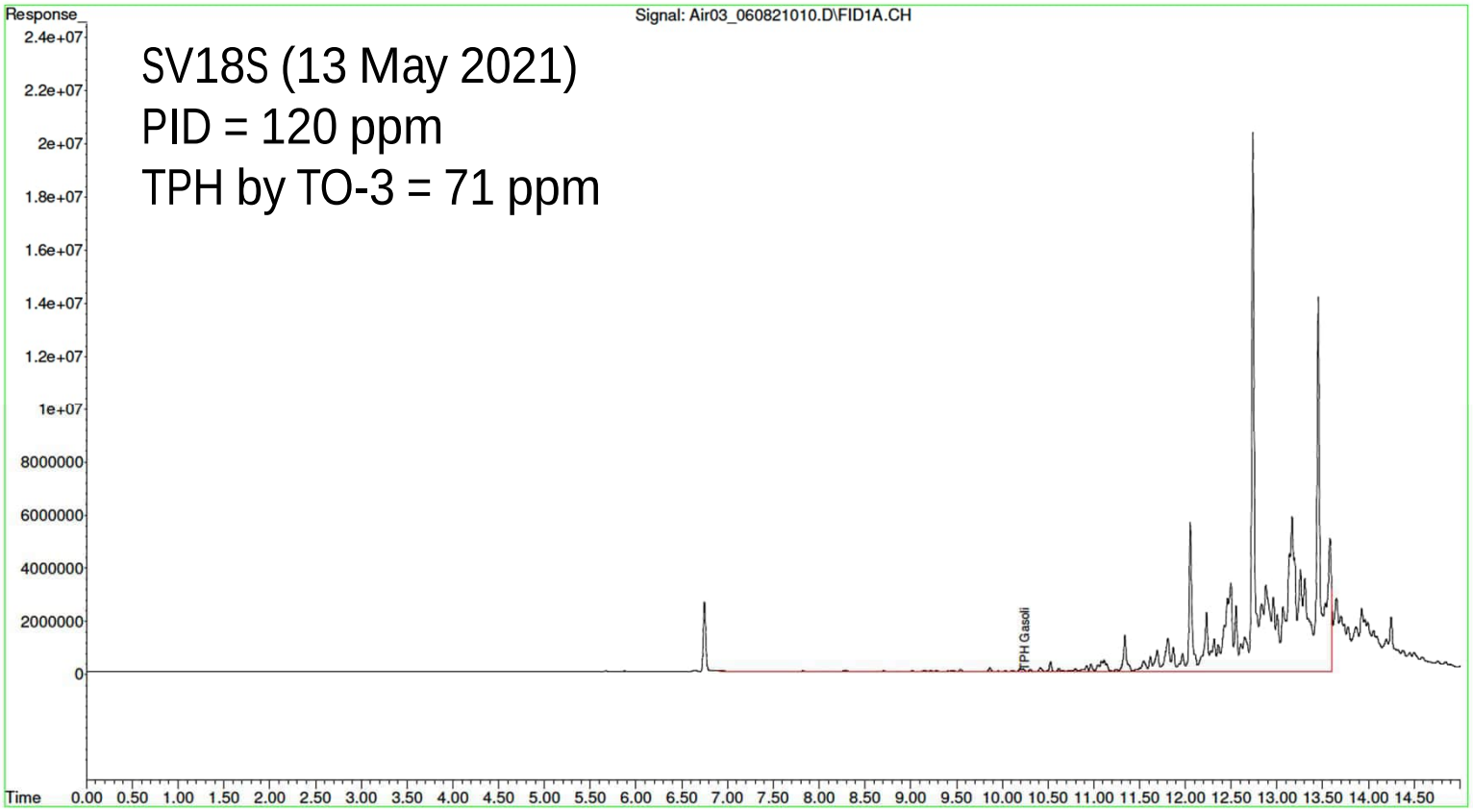

Response
Signal: Air03_060821005.D\FID1A.CH
Lab Blank (QC928415)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
160000
155000
150000
145000
140000
135000
130000
125000
120000
115000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

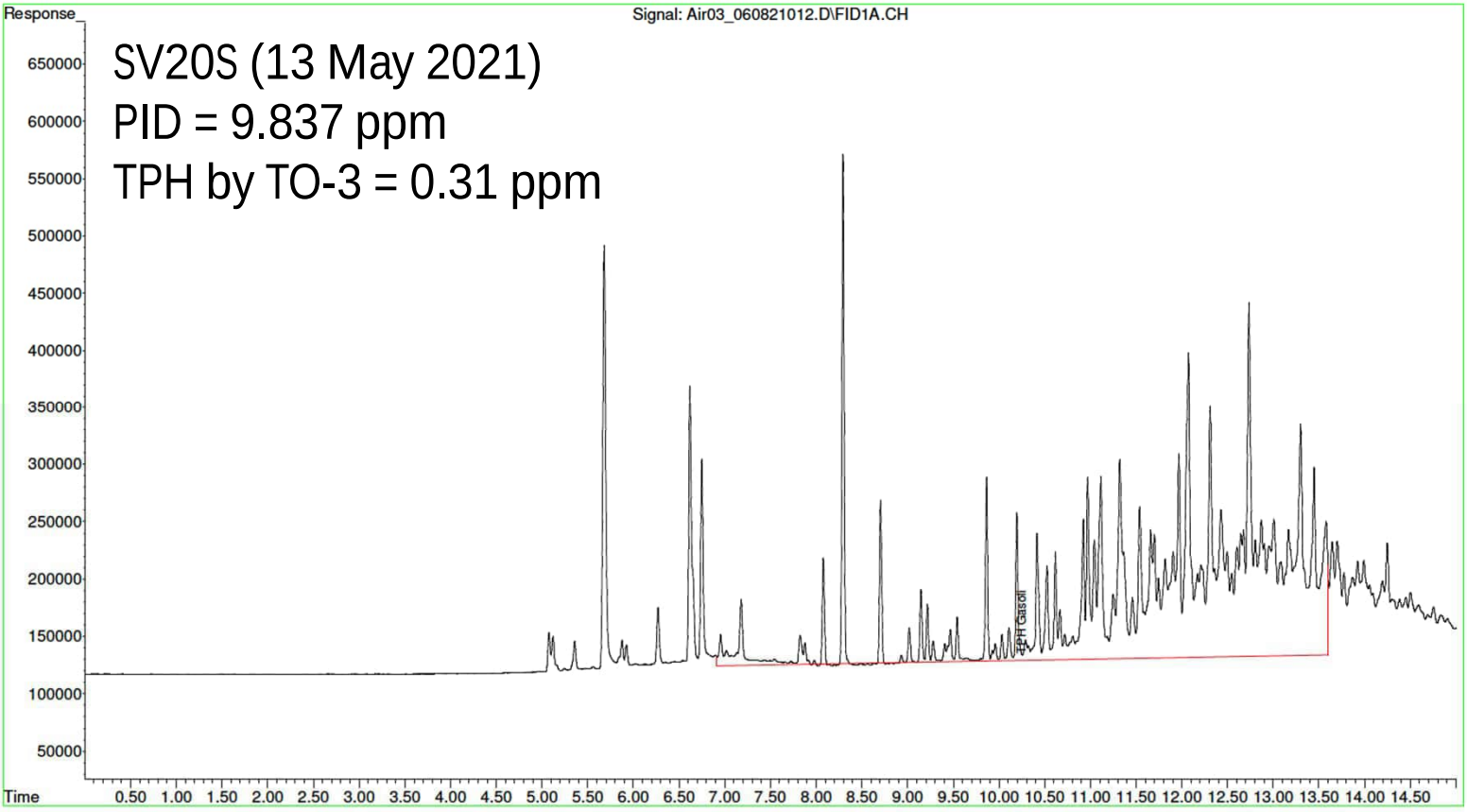

Response
Signal: Air03_060721025.D\FID1A.CH
SVMP-13S (11 May 2021)
PID = 1.896 ppm
TPH by TO-3 = 0.094 ppm
8500000
8000000
7500000
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
-500000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

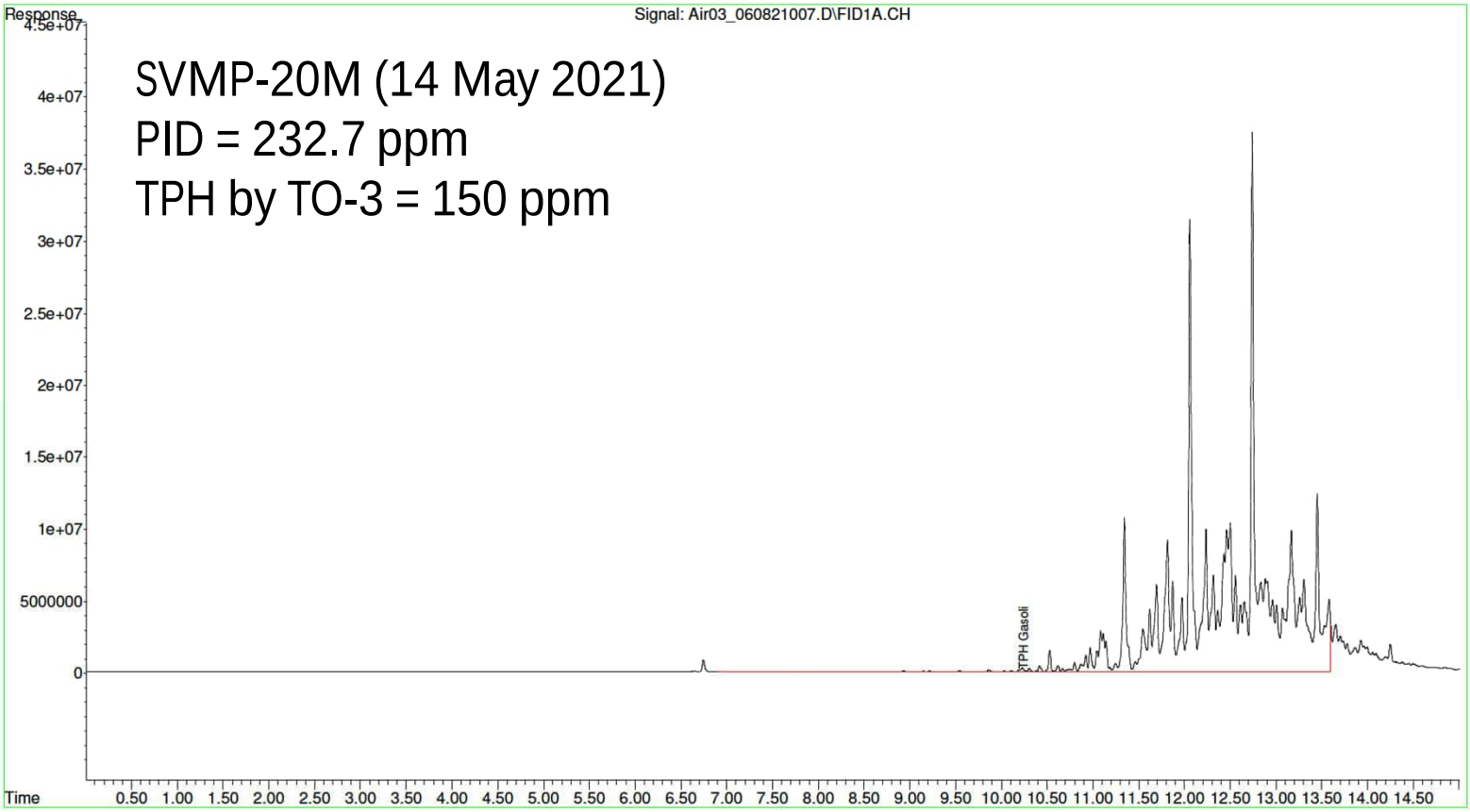

Response
Signal: Air03_060821009.D\FID1A.CH
SV16S (13 May 2021)
PID = 0.336 ppm
TPH by TO-3 = <0.038 ppm
TPH Gasoli
Time


Response
Signal: Air03_060921008.D\FID1A.CH
Zone 7 Sump (10 May 2021)
PID = 92 ppm
TPH by TO-3 = 550 ppm
TPH Gasoli
Time


Response_
Signal: Air03_060821011.D\FID1A.CH
SV17S (13 May 2021)
PID = 57.667 ppm
TPH by TO-3 = 23 ppm
3e+07
2.8e+07
2.6e+07
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
-2000000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

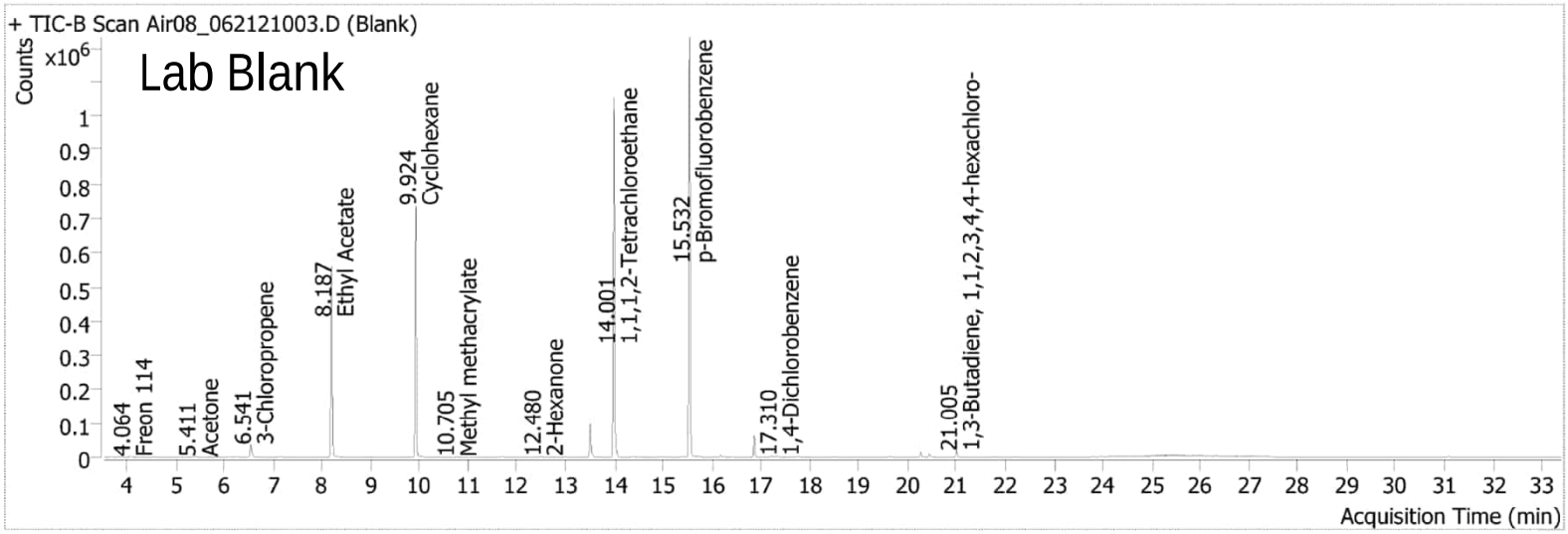

Response_
Signal: Air03_060821010.D\FID1A.CH
SV18S (13 May 2021)
PID = 120 ppm
TPH by TO-3 = 71 ppm
2.4e+07
2.2e+07
2e+07
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
TPH Gasoli
Time
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

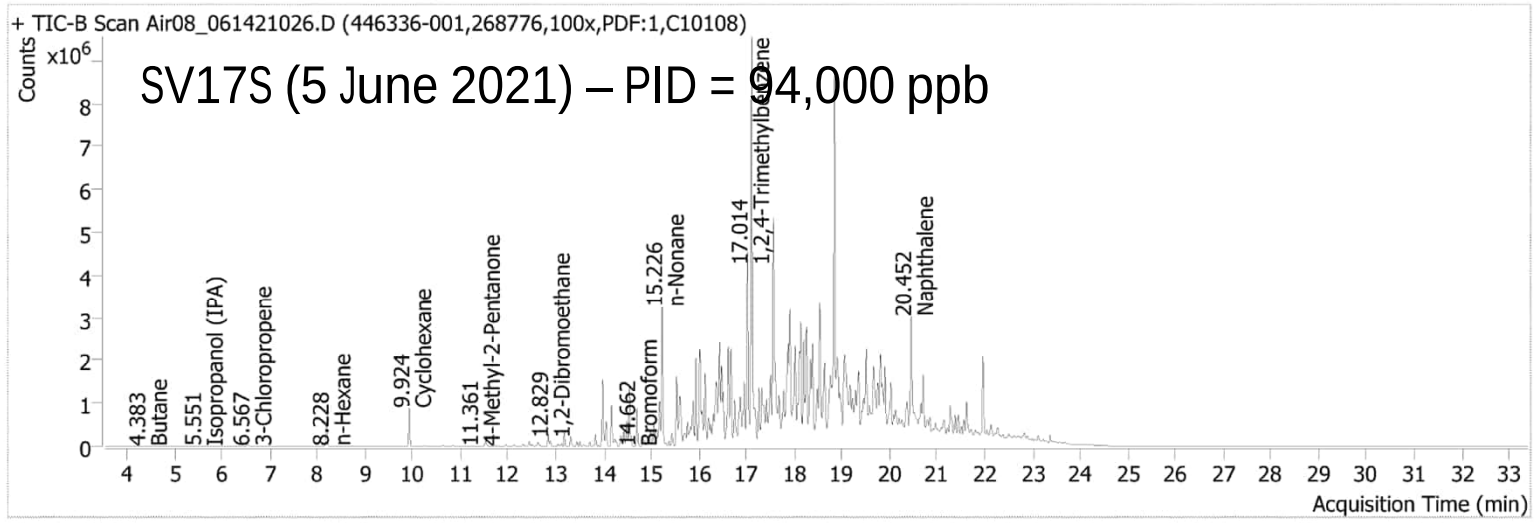

Response_
Signal: Air03_060821012.D\FID1A.CH
SV20S (13 May 2021)
PID = 9.837 ppm
TPH by TO-3 = 0.31 ppm
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

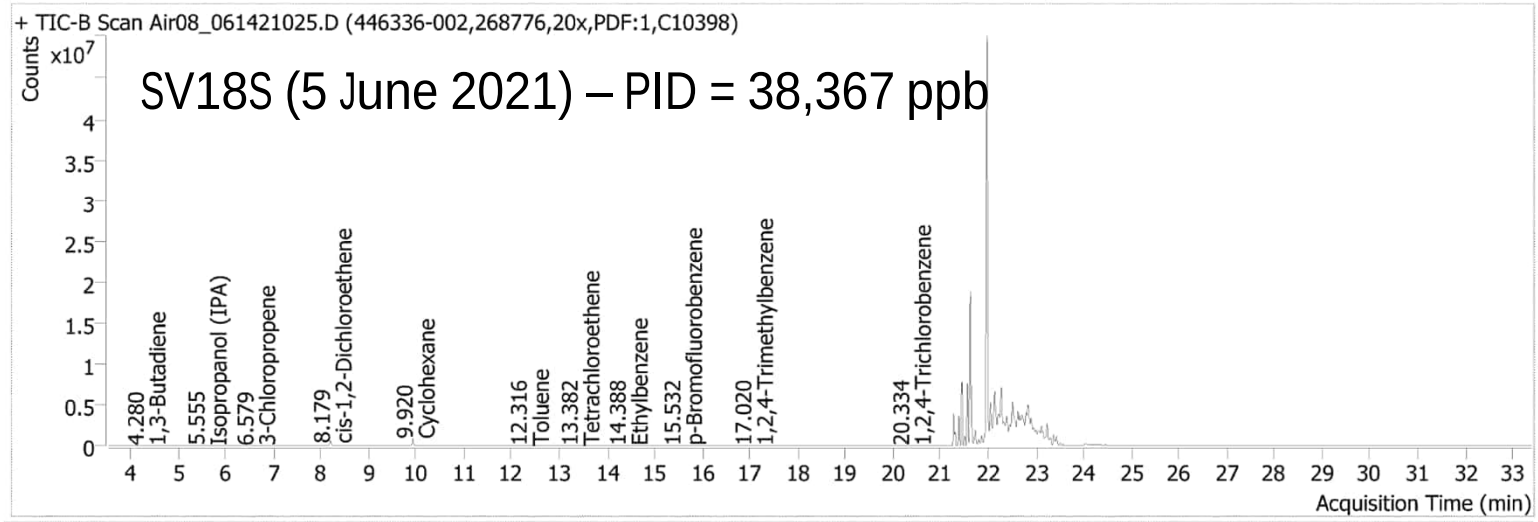

Response_
Signal: Air03_060821007.D\FID1A.CH
SVMP-20M (14 May 2021)
PID = 232.7 ppm
TPH by TO-3 = 150 ppm
4.5e+07
4e+07
3.5e+07
3e+07
2.5e+07
2e+07
1.5e+07
1e+07
5000000
0
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

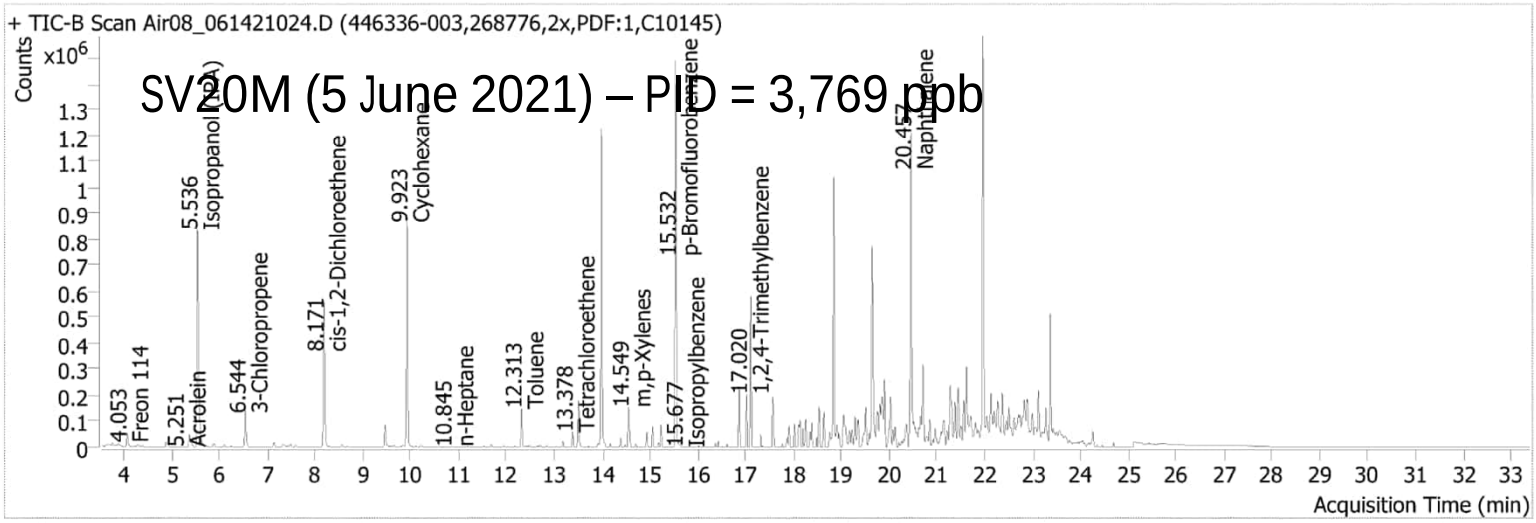
June 2021 Soil Vapor Samples

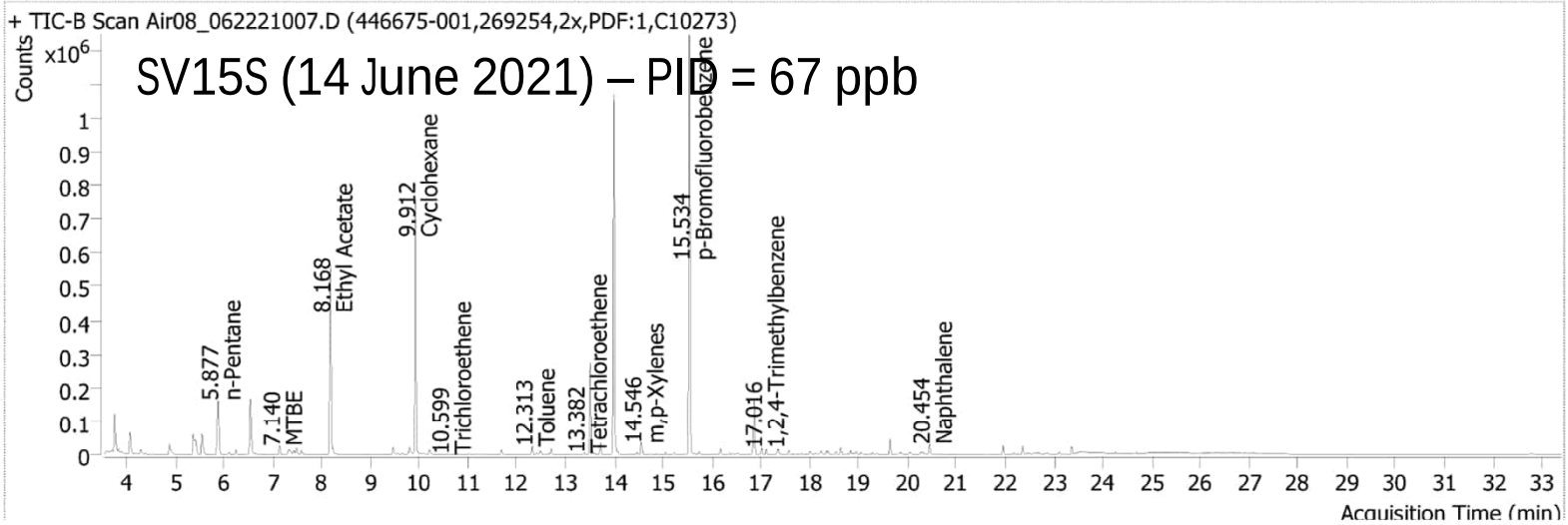
Mass Spec Chromatograms

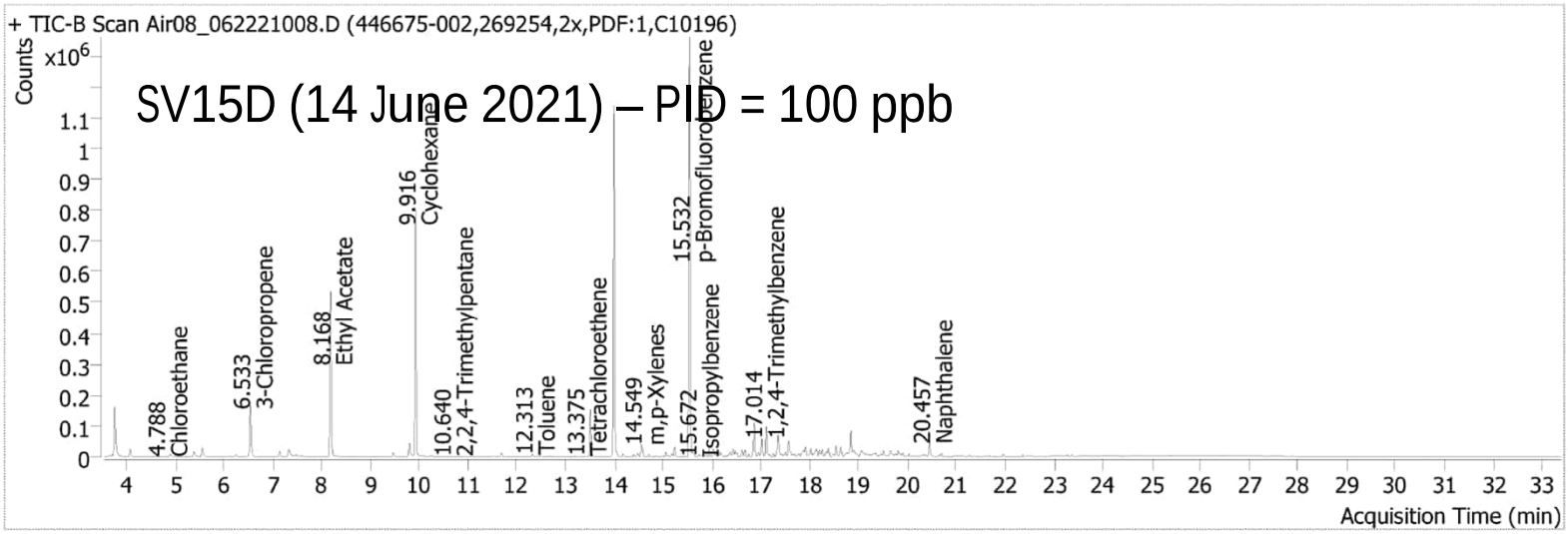

+ TIC-B Scan Air08_062121003.D (Blank)
Lab Blank
Counts
x10^6
4.064 Freon 114
5.411 Acetone
6.541 3-Chloropropene
8.187 Ethyl Acetate
9.924 Cyclohexane
10.705 Methyl methacrylate
12.480 2-Hexanone
14.001 1,1,1,2-Tetrachloroethane
15.532 p-Bromofluorobenzene
17.310 1,4-Dichlorobenzene
21.005 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

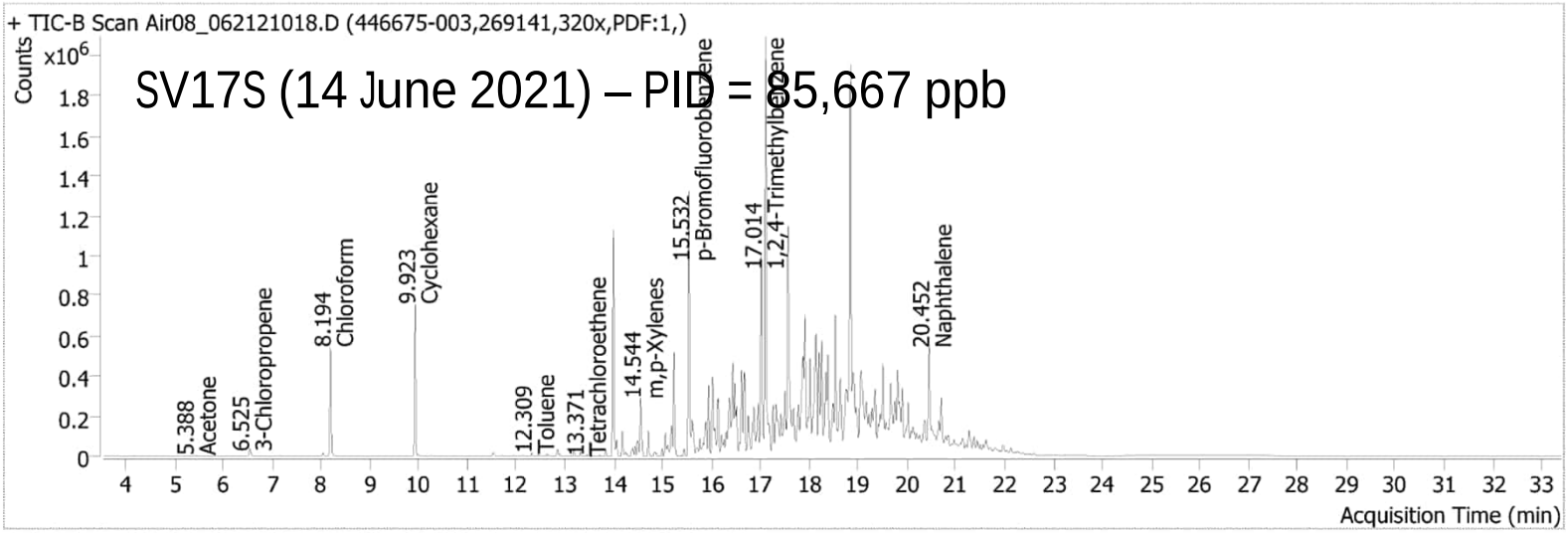

+ TIC-B Scan Air08_061421026.D (446336-001,268776,100x,PDF:1,C10108)
SV17S (5 June 2021) – PID = 94,000 ppb
Counts
x10^6
4.383 Butane
5.551 Isopropanol (IPA)
6.567 3-Chloropropene
8.228 n-Hexane
9.924 Cyclohexane
11.361 4-Methyl-2-Pentanone
12.829 1,2-Dibromoethane
14.662 Bromoform
15.226 n-Nonane
17.014 1,2,4-Trimethylbenzene
20.452 Naphthalene
Acquisition Time (min)

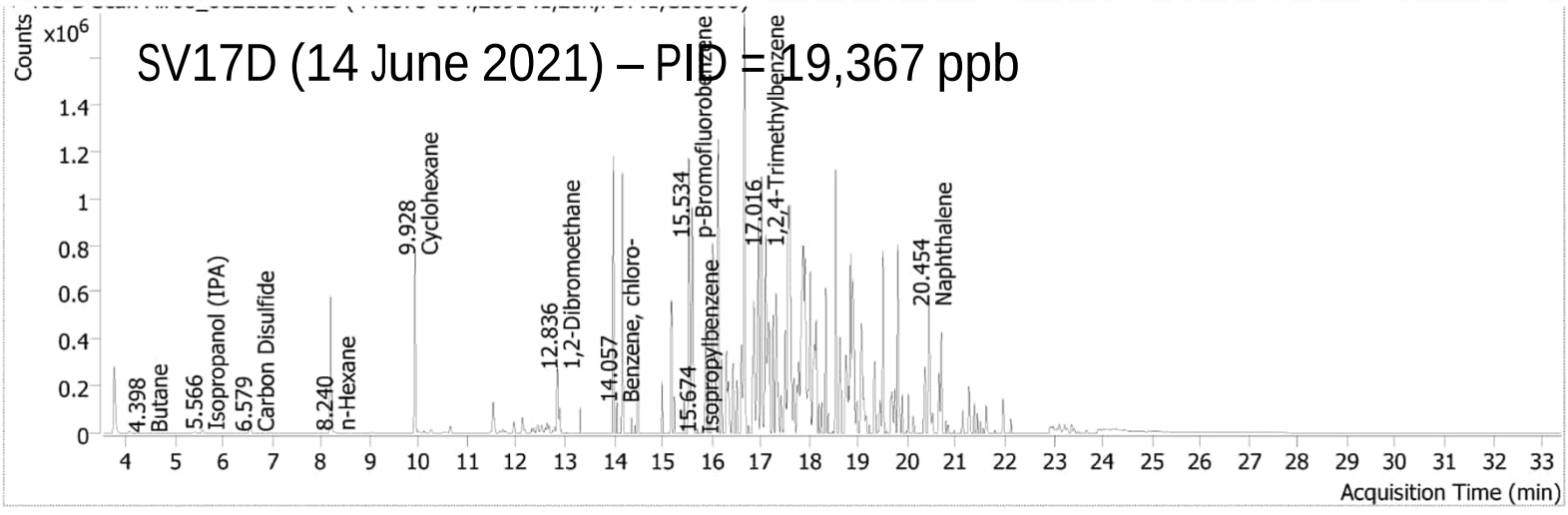

+ TIC-B Scan Air08_061421025.D (446336-002,268776,20x,PDF:1,C10398)
SV18S (5 June 2021) – PID = 38,367 ppb
Counts
x10^7
4.280 1,3-Butadiene
5.555 Isopropanol (IPA)
6.579 3-Chloropropene
8.179 cis-1,2-Dichloroethene
9.920 Cyclohexane
12.316 Toluene
13.382 Tetrachloroethene
14.388 Ethylbenzene
15.532 p-Bromofluorobenzene
17.020 1,2,4-Trimethylbenzene
20.334 1,2,4-Trichlorobenzene
Acquisition Time (min)

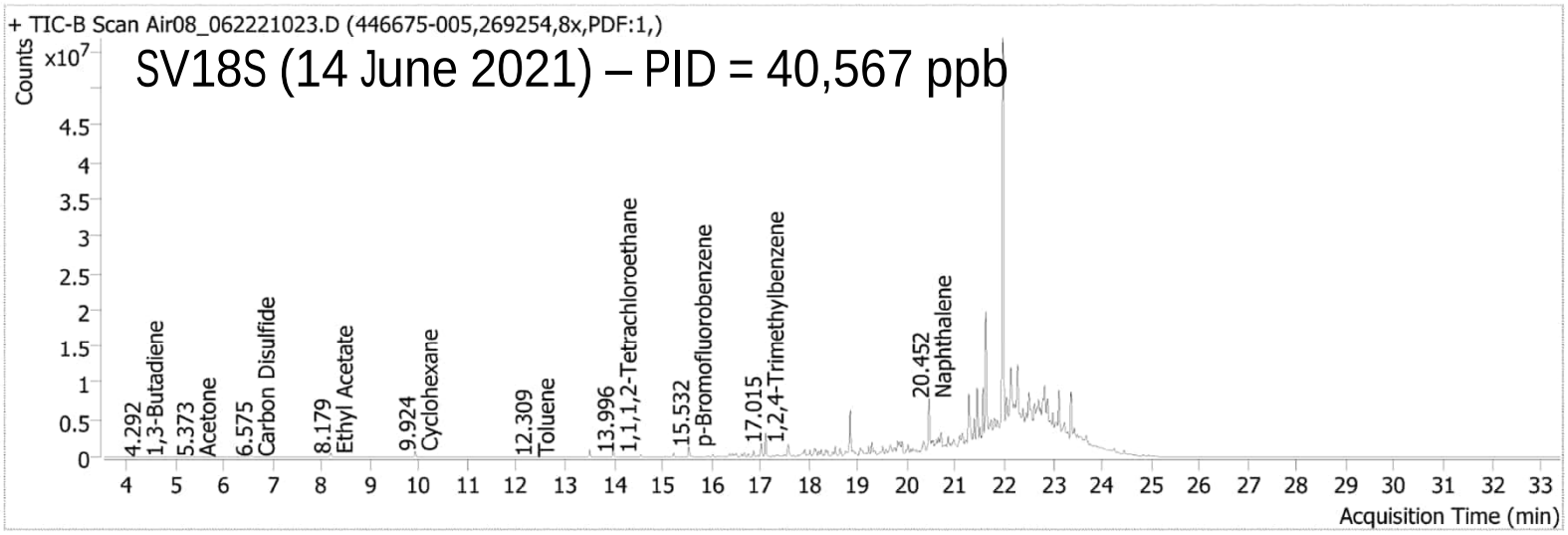

+ TIC-B Scan Air08_061421024.D (446336-003,268776,2x,PDF:1,C10145)
SV20M (5 June 2021) – PID = 3,769 ppb
Counts
x10^6
4.053 Freon 114
5.251 Acrolein
5.536 Isopropanol (IPA)
6.544 3-Chloropropene
8.171 cis-1,2-Dichloroethene
9.923 Cyclohexane
10.845 n-Heptane
12.313 Toluene
13.378 Tetrachloroethene
14.549 m,p-Xylenes
15.532 p-Bromofluorobenzene
15.677 Isopropylbenzene
17.020 1,2,4-Trimethylbenzene
20.457 Naphthalene
Acquisition Time (min)

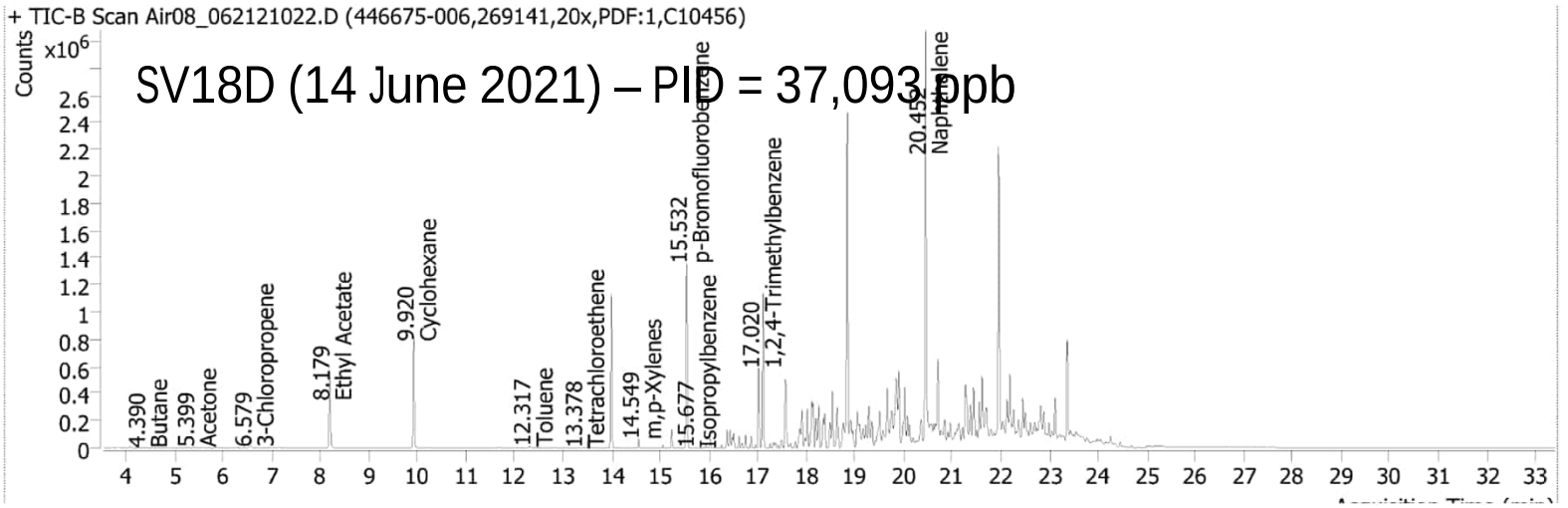

+ TIC-B Scan Air08_062221007.D (446675-001,269254,2x,PDF:1,C10273)
Counts
x10^6
SV15S (14 June 2021) – PID = 67 ppb
5.877 n-Pentane
7.140 MTBE
8.168 Ethyl Acetate
9.912 Cyclohexane
10.599 Trichloroethene
12.313 Toluene
13.382 Tetrachloroethene
14.546 m,p-Xylenes
15.534 p-Bromofluorobenzene
17.016 1,2,4-Trimethylbenzene
20.454 Naphthalene
Acquisition Time (min)

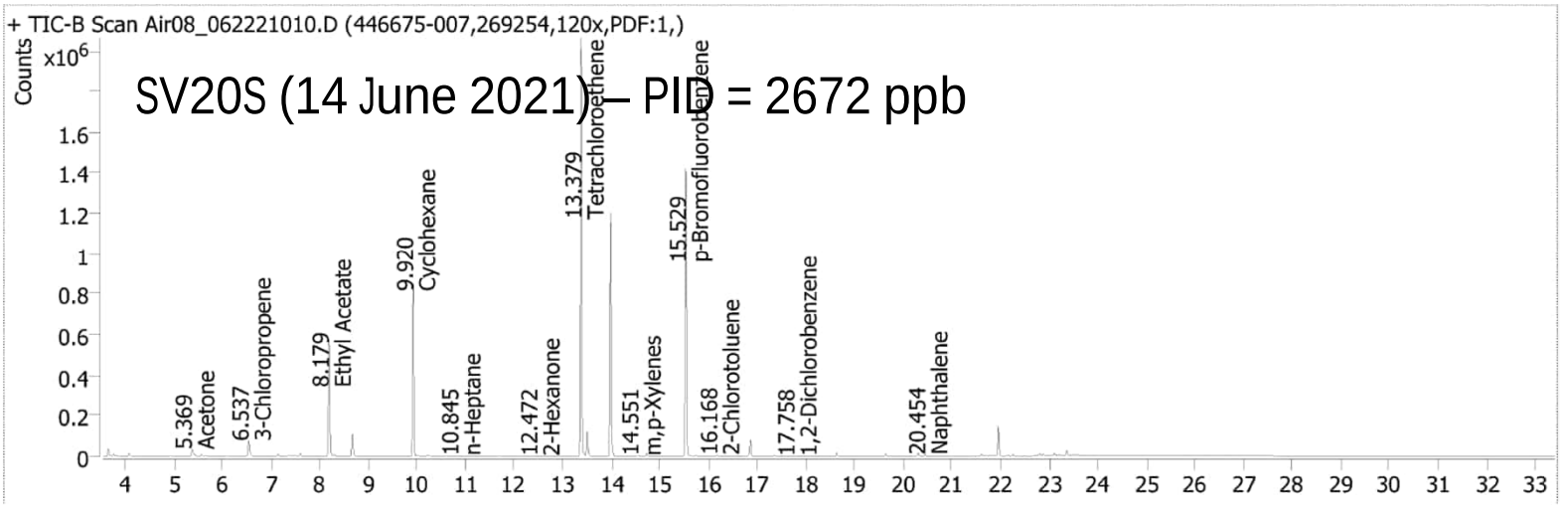

+ TIC-B Scan Air08_062221008.D (446675-002,269254,2x,PDF:1,C10196)
Counts
x10^6
SV15D (14 June 2021) – PID = 100 ppb
4.788 Chloroethane
6.533 3-Chloropropene
8.168 Ethyl Acetate
9.916 Cyclohexane
10.640 2,2,4-Trimethylpentane
12.313 Toluene
13.375 Tetrachloroethene
14.549 m,p-Xylenes
15.532 p-Bromofluorobenzene
15.672 Isopropylbenzene
17.014 1,2,4-Trimethylbenzene
20.457 Naphthalene
Acquisition Time (min)

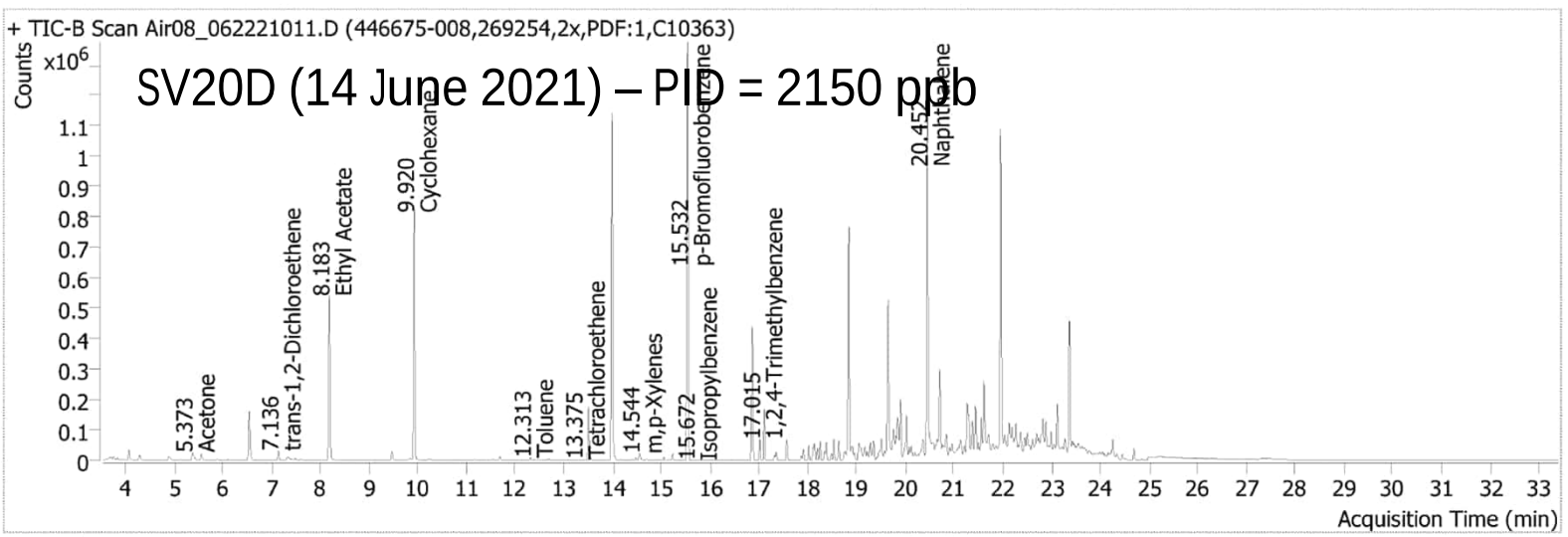

+ TIC-B Scan Air08_062121018.D (446675-003,269141,320x,PDF:1,)
Counts
x10^6
SV17S (14 June 2021) – PID = 35,667 ppb
5.388 Acetone
6.525 3-Chloropropene
8.194 Chloroform
9.923 Cyclohexane
12.309 Toluene
13.371 Tetrachloroethene
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene
17.014 1,2,4-Trimethylbenzene
20.452 Naphthalene
Acquisition Time (min)


Counts
x10^6
SV17D (14 June 2021) – PID = 19,367 ppb
4.398 Butane
5.566 Isopropanol (IPA)
6.579 Carbon Disulfide
8.240 n-Hexane
9.928 Cyclohexane
12.836 1,2-Dibromoethane
14.057 Benzene, chloro-
15.534 p-Bromofluorobenzene
15.674 Isopropylbenzene
17.016 1,2,4-Trimethylbenzene
20.454 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_062221023.D (446675-005,269254,8x,PDF:1,)
SV18S (14 June 2021) – PID = 40,567 ppb
Counts
x10^7
4.292 1,3-Butadiene
5.373 Acetone
6.575 Carbon Disulfide
8.179 Ethyl Acetate
9.924 Cyclohexane
12.309 Toluene
13.996 1,1,1,2-Tetrachloroethane
15.532 p-Bromofluorobenzene
17.015 1,2,4-Trimethylbenzene
20.452 Naphthalene
Acquisition Time (min)

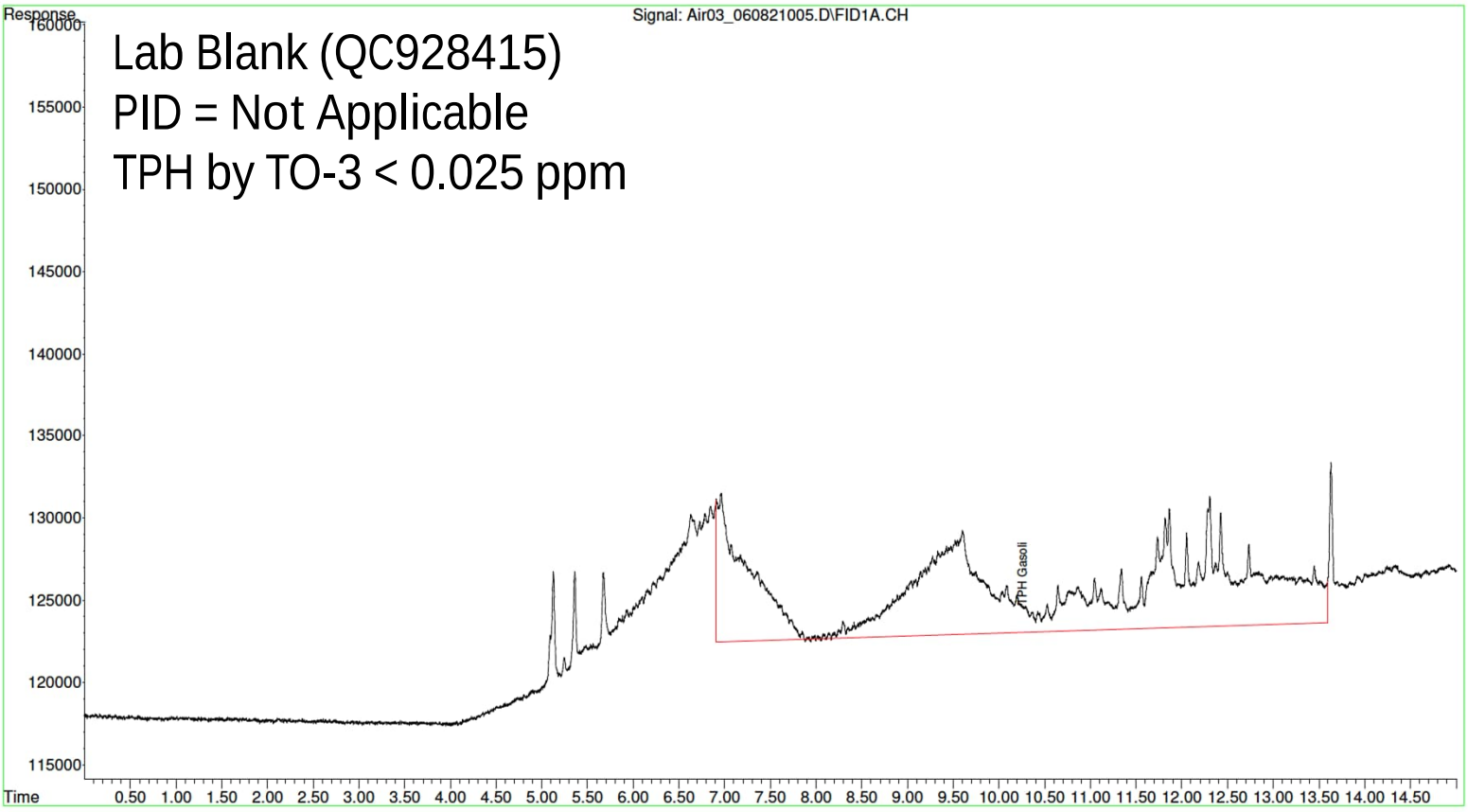

+ TIC-B Scan Air08_062121022.D (446675-006,269141,20x,PDF:1,C10456)
SV18D (14 June 2021) – PID = 37,093 ppb
Counts
x10^6
4.390 Butane
5.399 Acetone
6.579 3-Chloropropene
8.179 Ethyl Acetate
9.920 Cyclohexane
12.317 Toluene
13.378 Tetrachloroethene
14.549 m,p-Xylenes
15.532 p-Bromofluorobenzene
15.677 Isopropylbenzene
17.020 1,2,4-Trimethylbenzene
20.452 Naphthalene

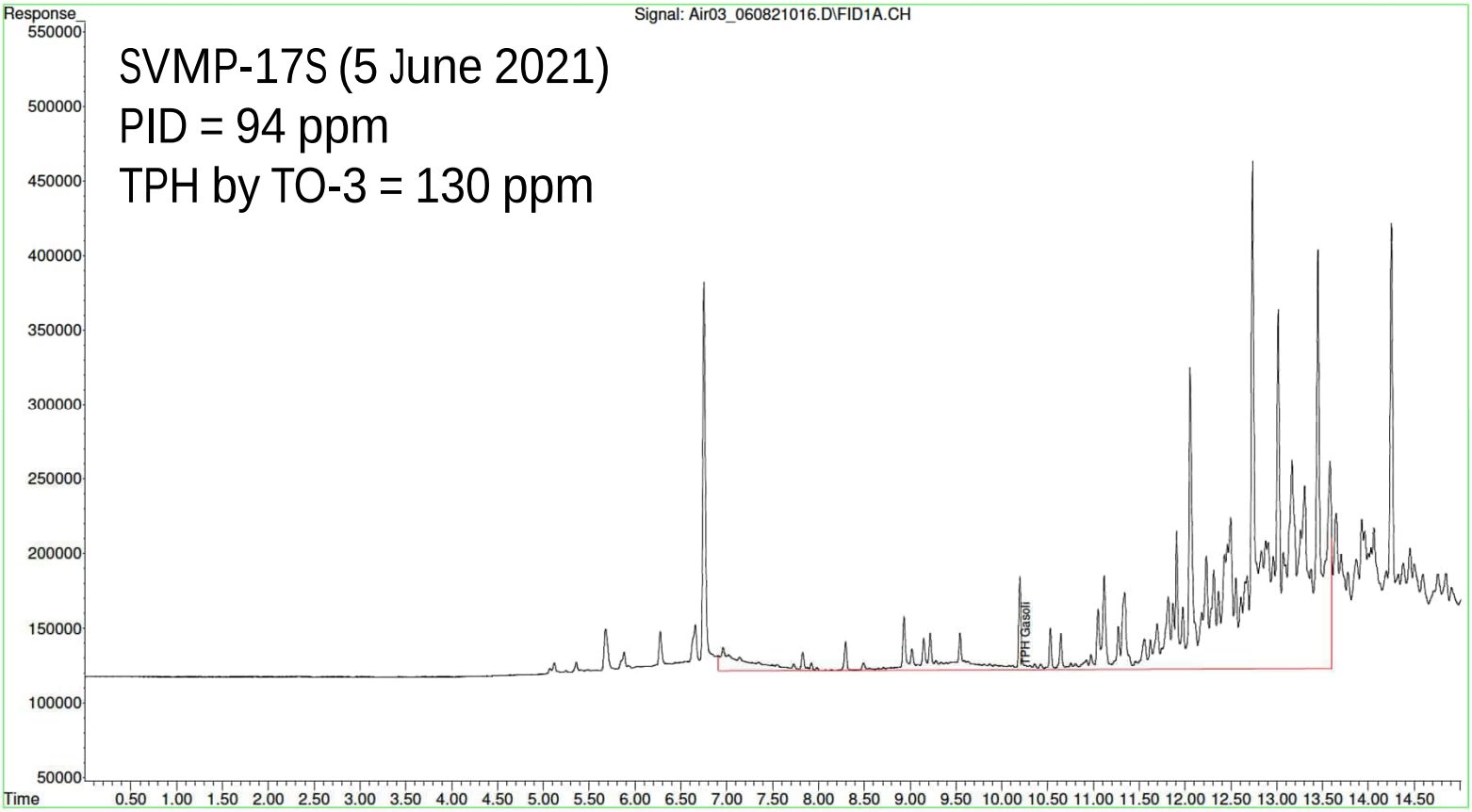

+ TIC-B Scan Air08_062221010.D (446675-007,269254,120x,PDF:1,)
SV20S (14 June 2021) – PID = 2672 ppb
Counts
x10^6
5.369 Acetone
6.537 3-Chloropropene
8.179 Ethyl Acetate
9.920 Cyclohexane
10.845 n-Heptane
12.472 2-Hexanone
13.379 Tetrachloroethene
14.551 m,p-Xylenes
15.529 p-Bromofluorobenzene
16.168 2-Chlorotoluene
17.758 1,2-Dichlorobenzene
20.454 Naphthalene

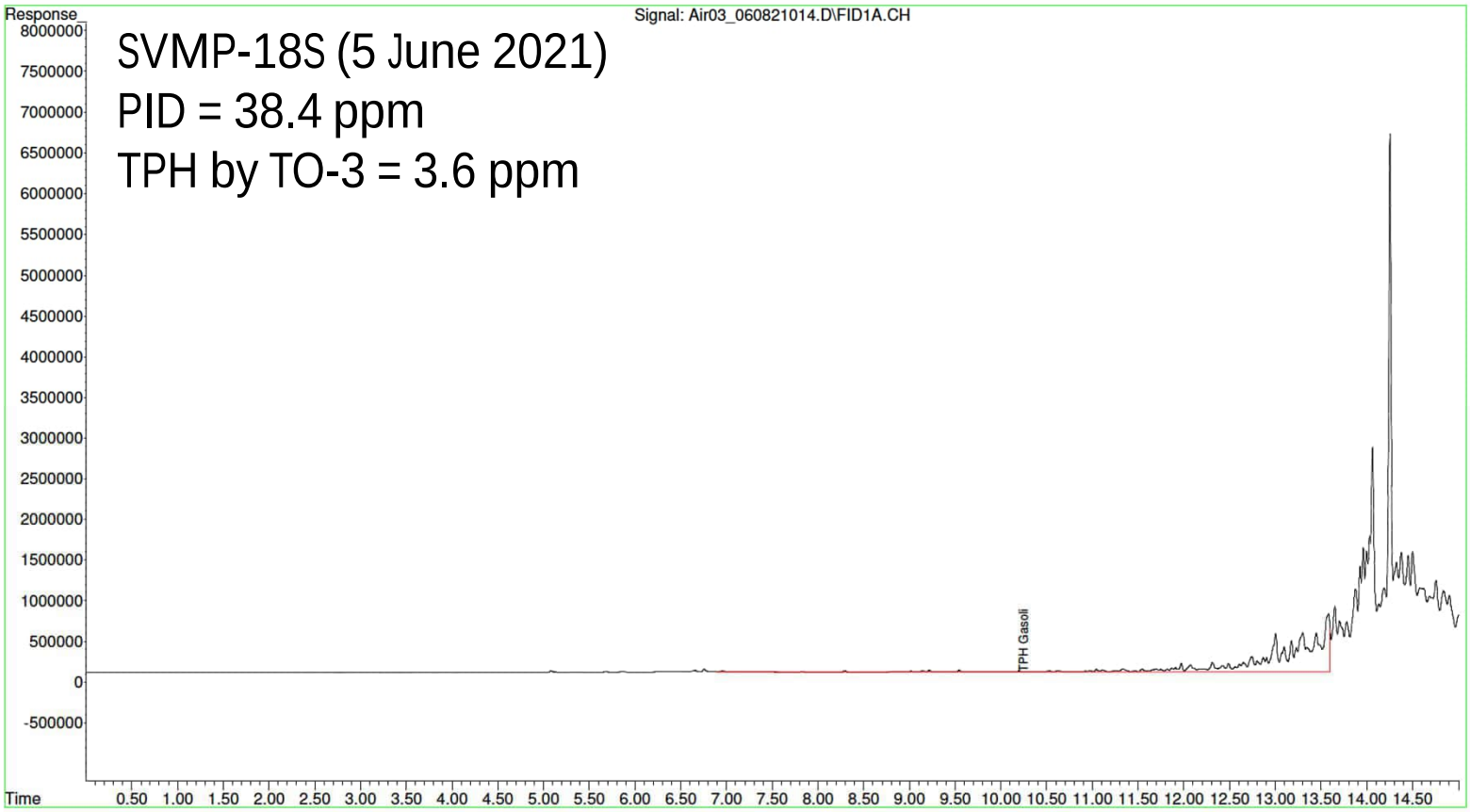

+ TIC-B Scan Air08_062221011.D (446675-008,269254,2x,PDF:1,C10363)
SV20D (14 June 2021) – PID = 2150 ppb
Counts
x10^6
5.373 Acetone
7.136 trans-1,2-Dichloroethene
8.183 Ethyl Acetate
9.920 Cyclohexane
12.313 Toluene
13.375 Tetrachloroethene
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene
15.672 Isopropylbenzene
17.015 1,2,4-Trimethylbenzene
20.452 Naphthalene
Acquisition Time (min)

June 2021 Soil Vapor Samples

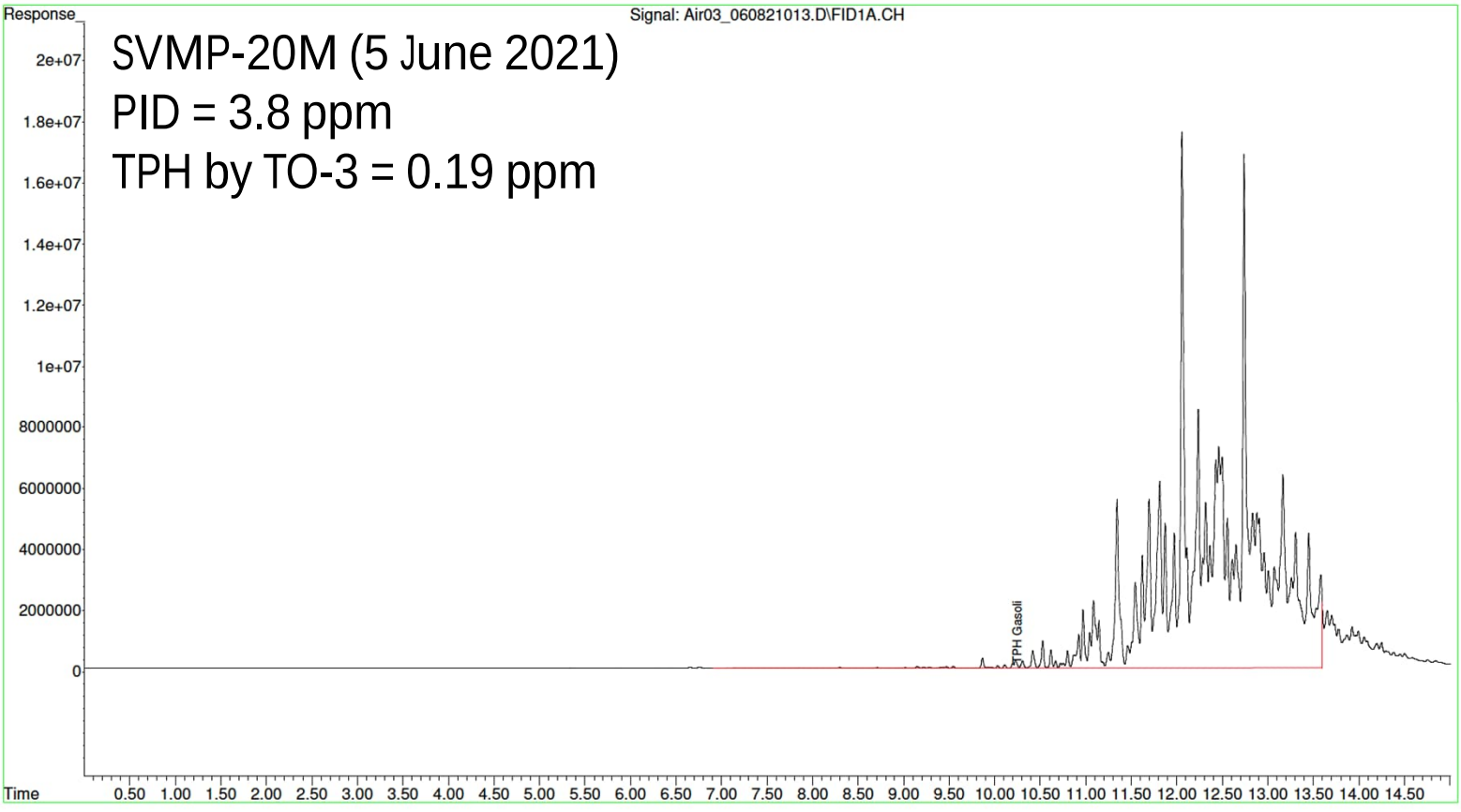
FID Chromatograms


Response
Signal: Air03_060821005.D\FID1A.CH
Lab Blank (QC928415)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
160000
155000
150000
145000
140000
135000
130000
125000
120000
115000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

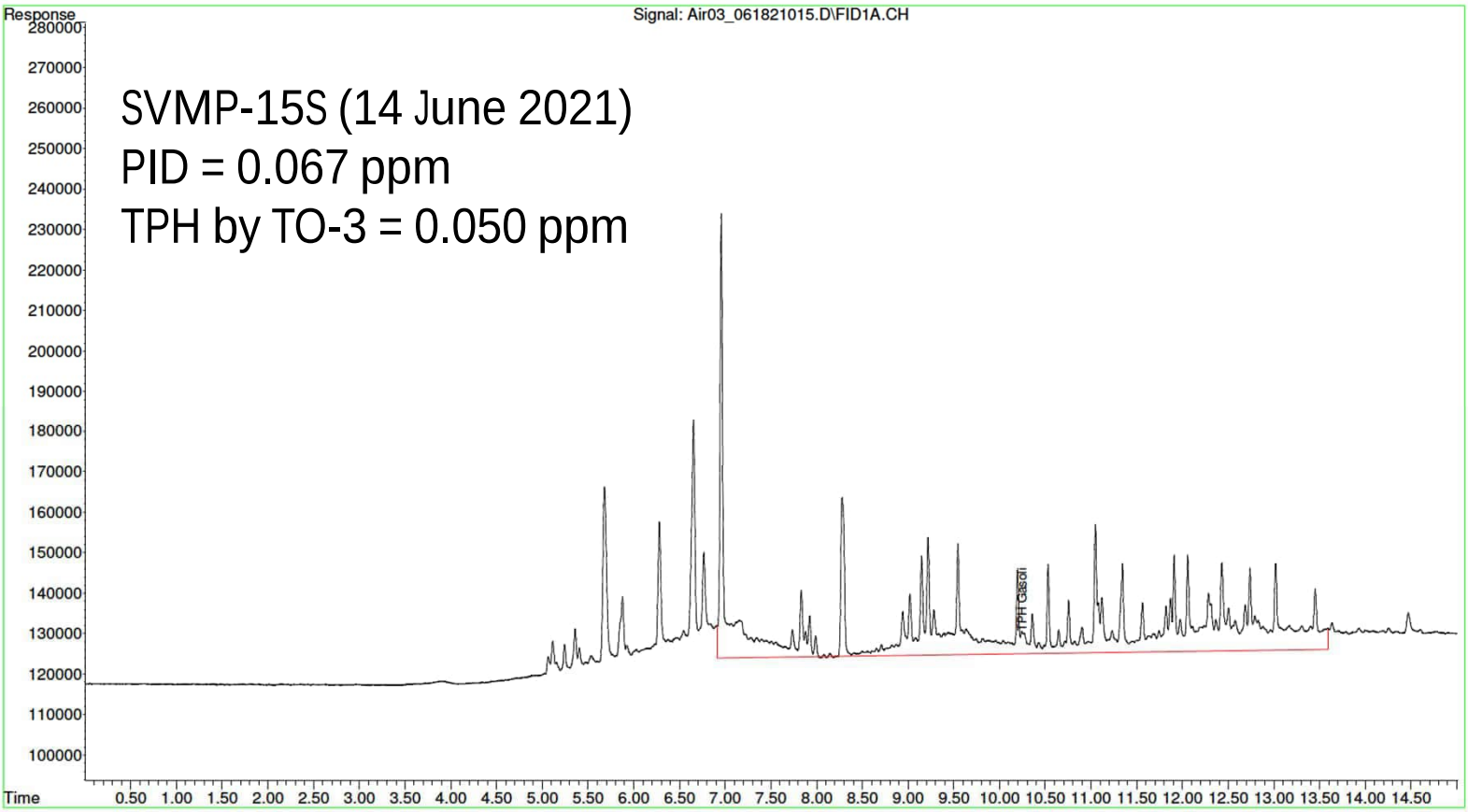

Response
Signal: Air03_060821016.D\FID1A.CH
SVMP-17S (5 June 2021)
PID = 94 ppm
TPH by TO-3 = 130 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50



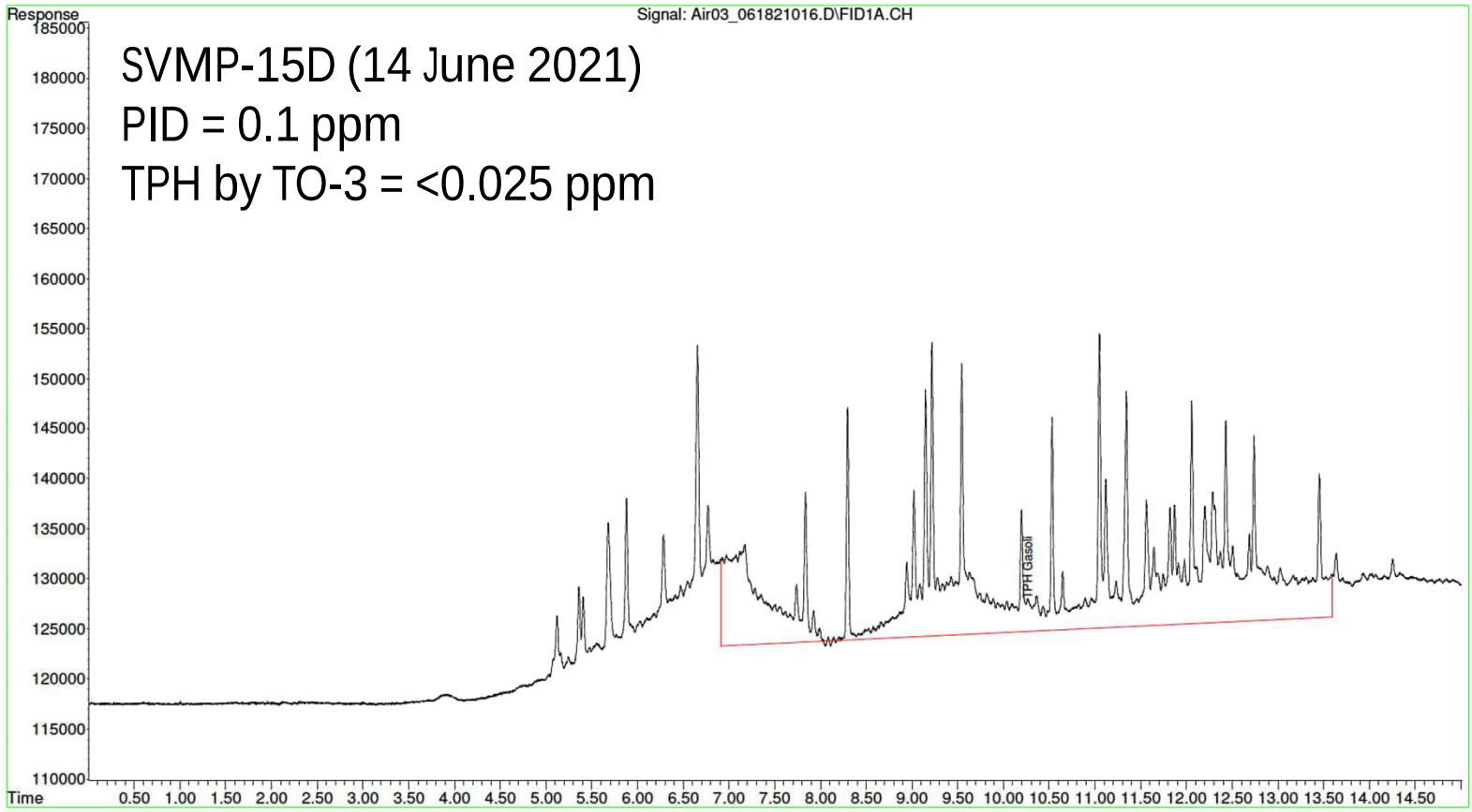
SVMP-18S (5 June 2021)
PID = 38.4 ppm
TPH by TO-3 = 3.6 ppm



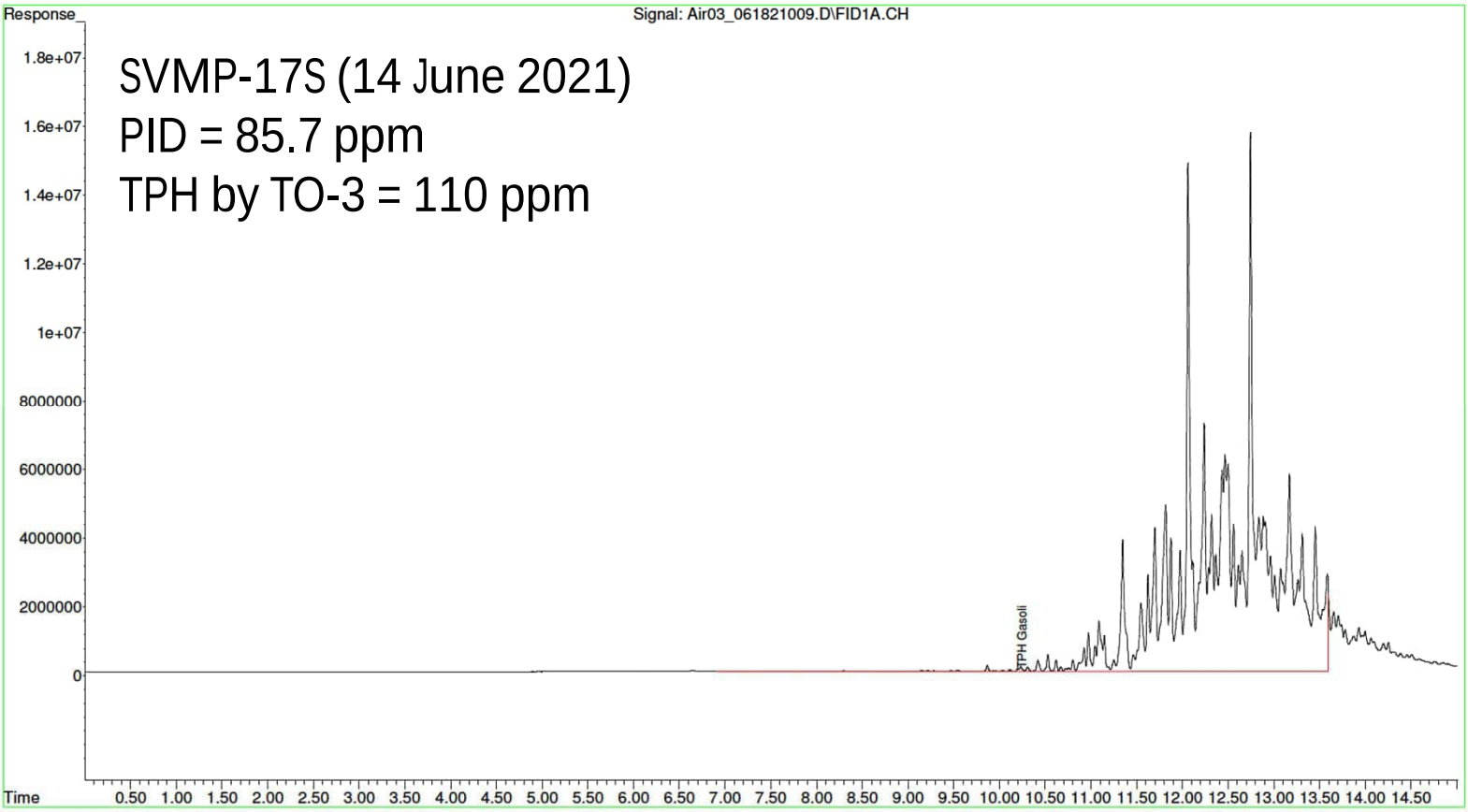
SVMP-20M (5 June 2021)
PID = 3.8 ppm
TPH by TO-3 = 0.19 ppm

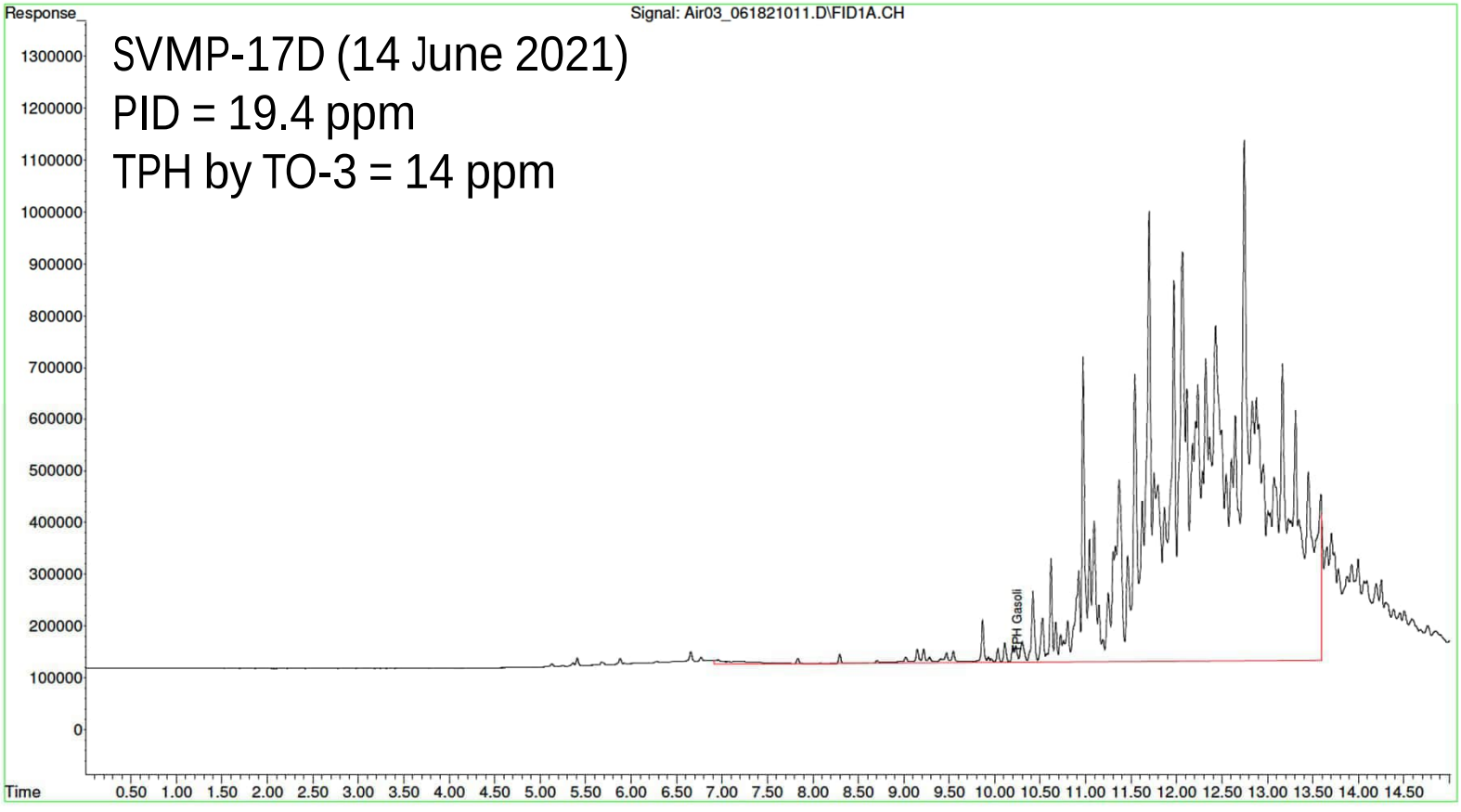


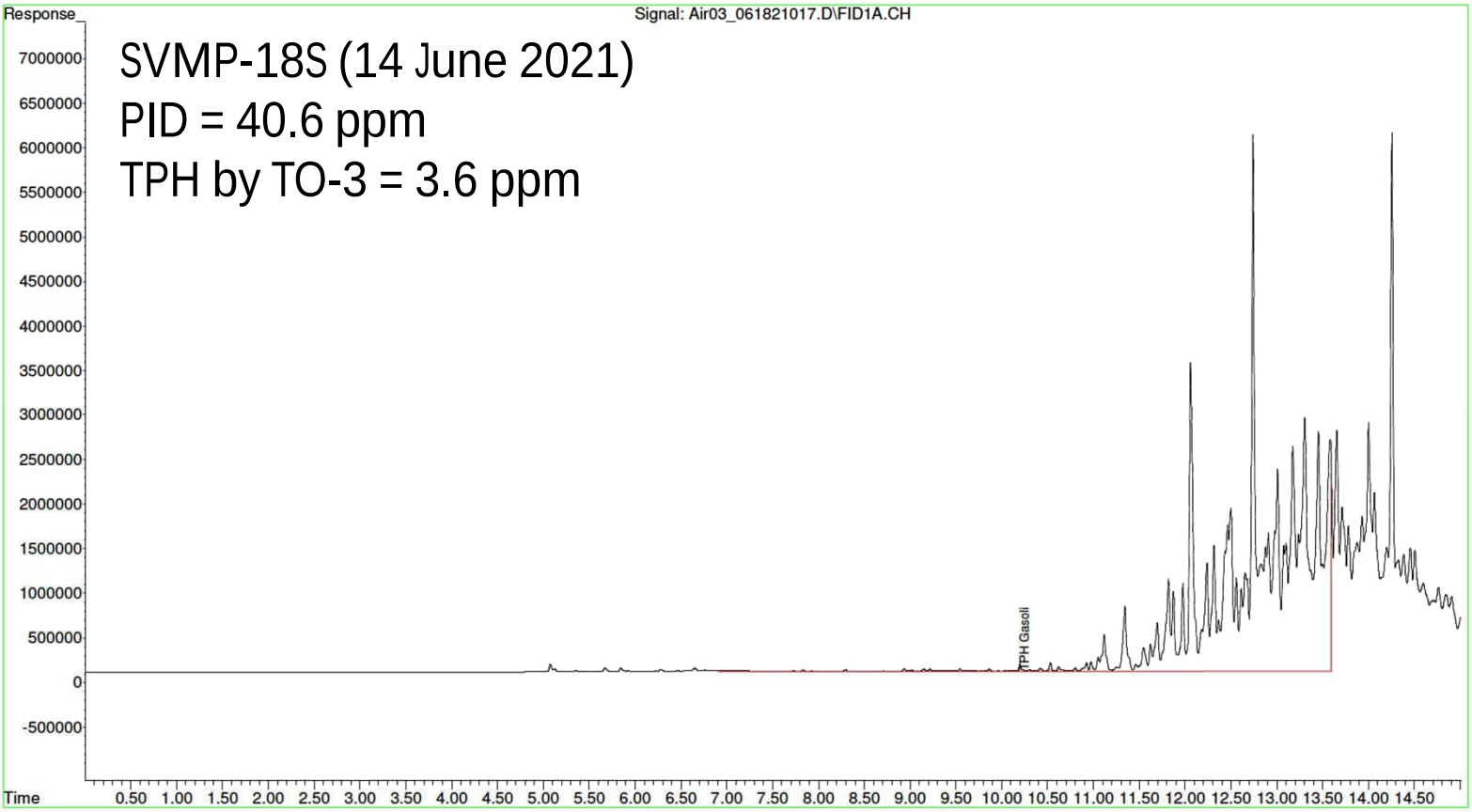
SVMP-15S (14 June 2021)
PID = 0.067 ppm
TPH by TO-3 = 0.050 ppm

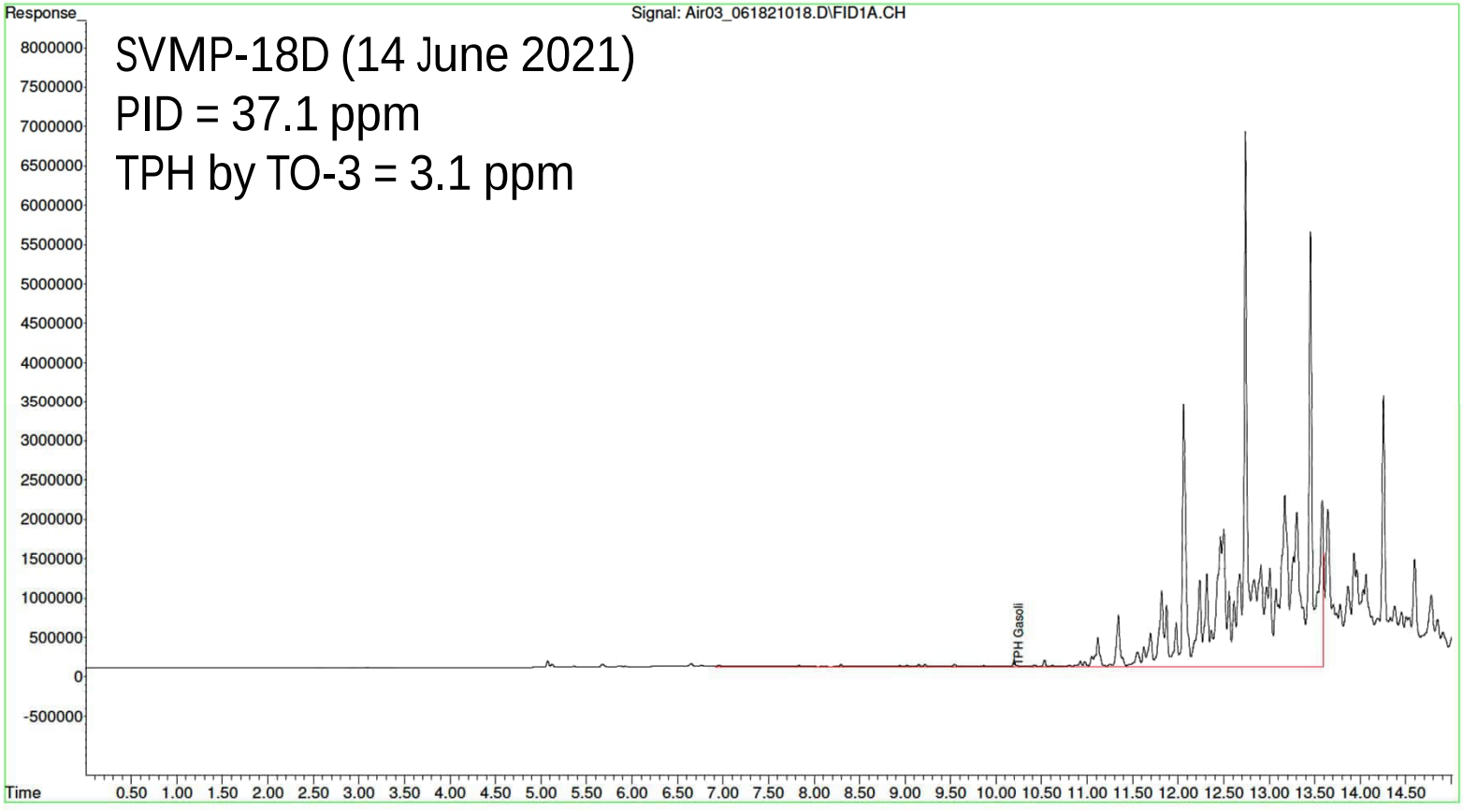


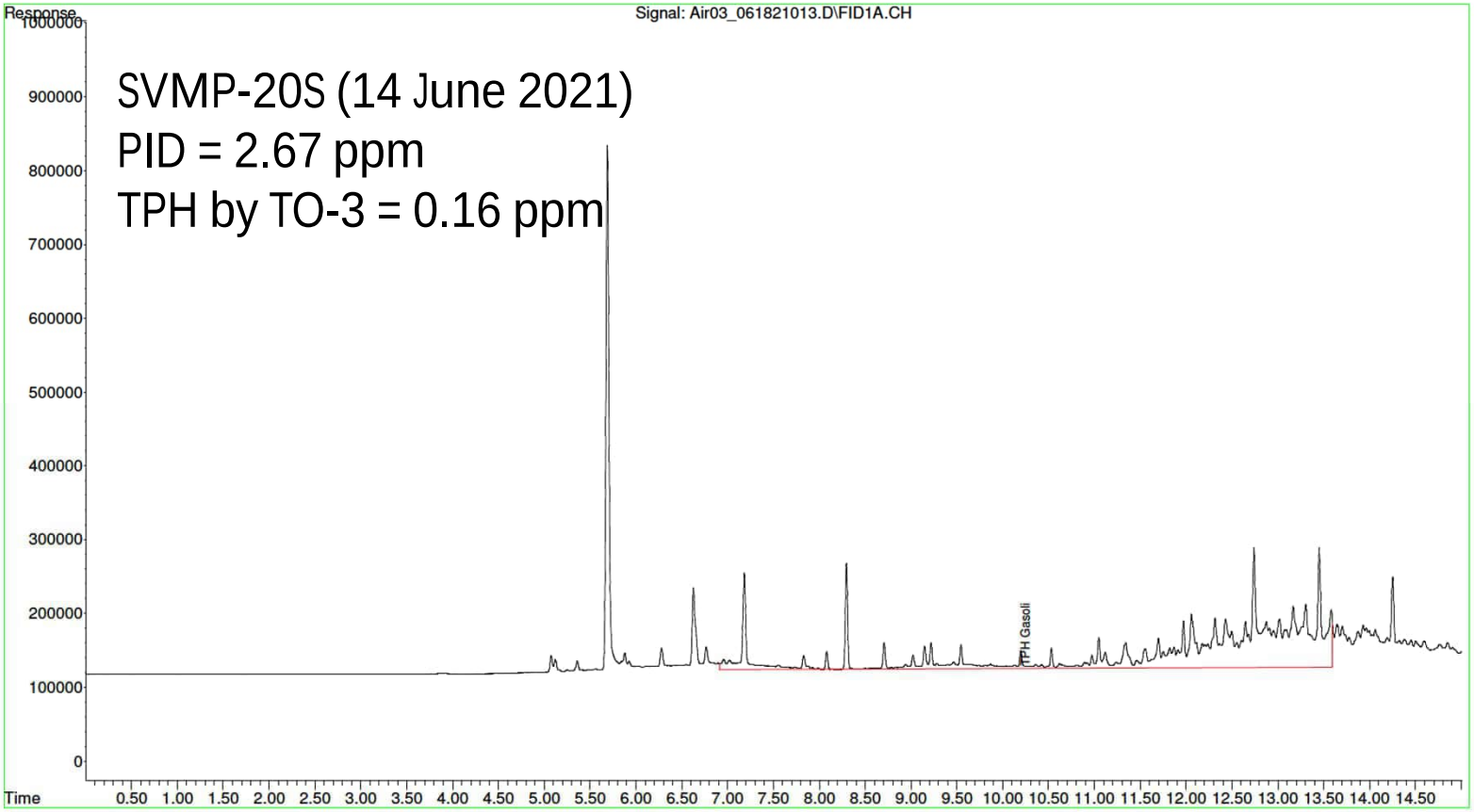
SVMP-15D (14 June 2021)
PID = 0.1 ppm
TPH by TO-3 = <0.025 ppm

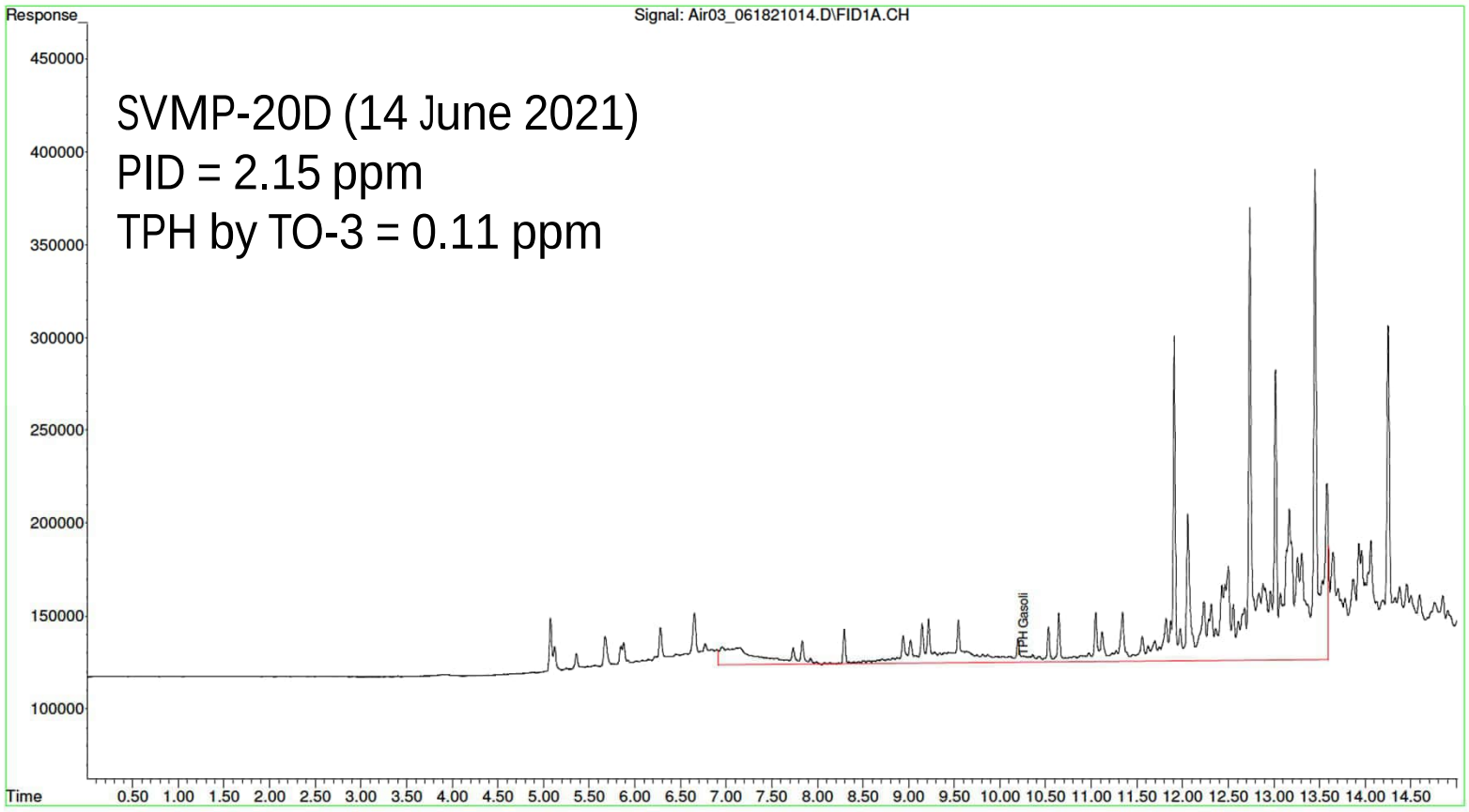

Response_
Signal: Air03_061821009.D\FID1A.CH
SVMP-17S (14 June 2021)
PID = 85.7 ppm
TPH by TO-3 = 110 ppm
1.8e+07
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50


Response_
Signal: Air03_061821011.D\FID1A.CH
SVMP-17D (14 June 2021)
PID = 19.4 ppm
TPH by TO-3 = 14 ppm
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50


Response_
Signal: Air03_061821017.D\FID1A.CH
SVMP-18S (14 June 2021)
PID = 40.6 ppm
TPH by TO-3 = 3.6 ppm
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
-500000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

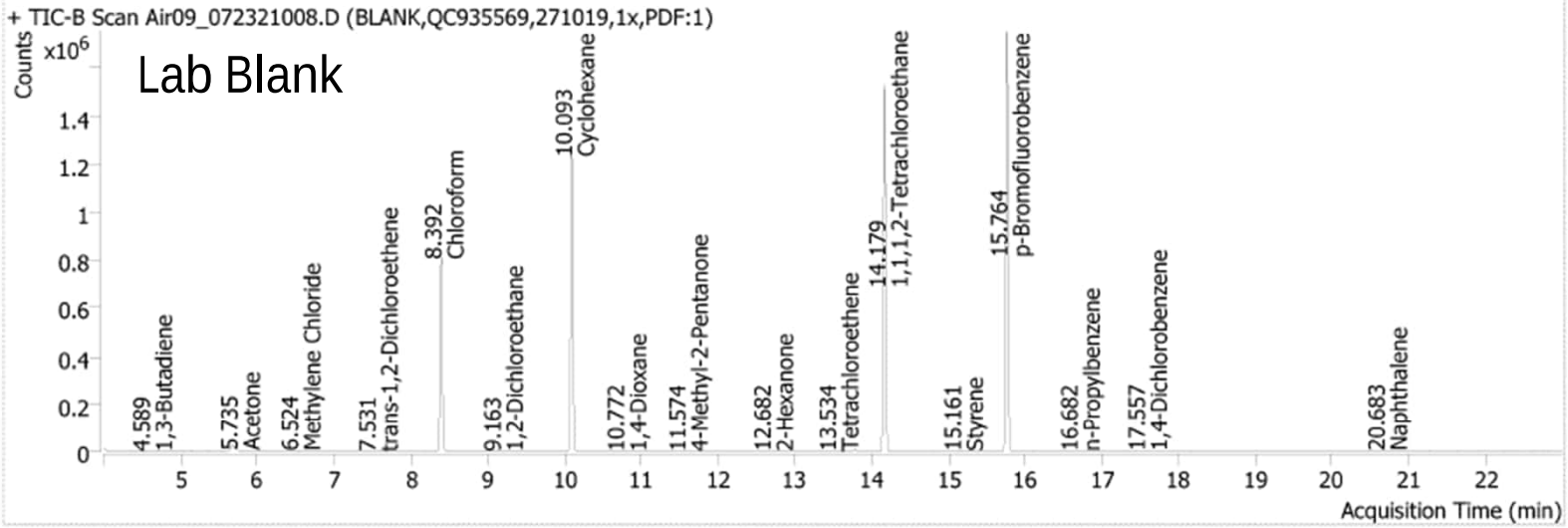

Response_
Signal: Air03_061821018.D\FID1A.CH
SVMP-18D (14 June 2021)
PID = 37.1 ppm
TPH by TO-3 = 3.1 ppm
8000000
7500000
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
-500000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

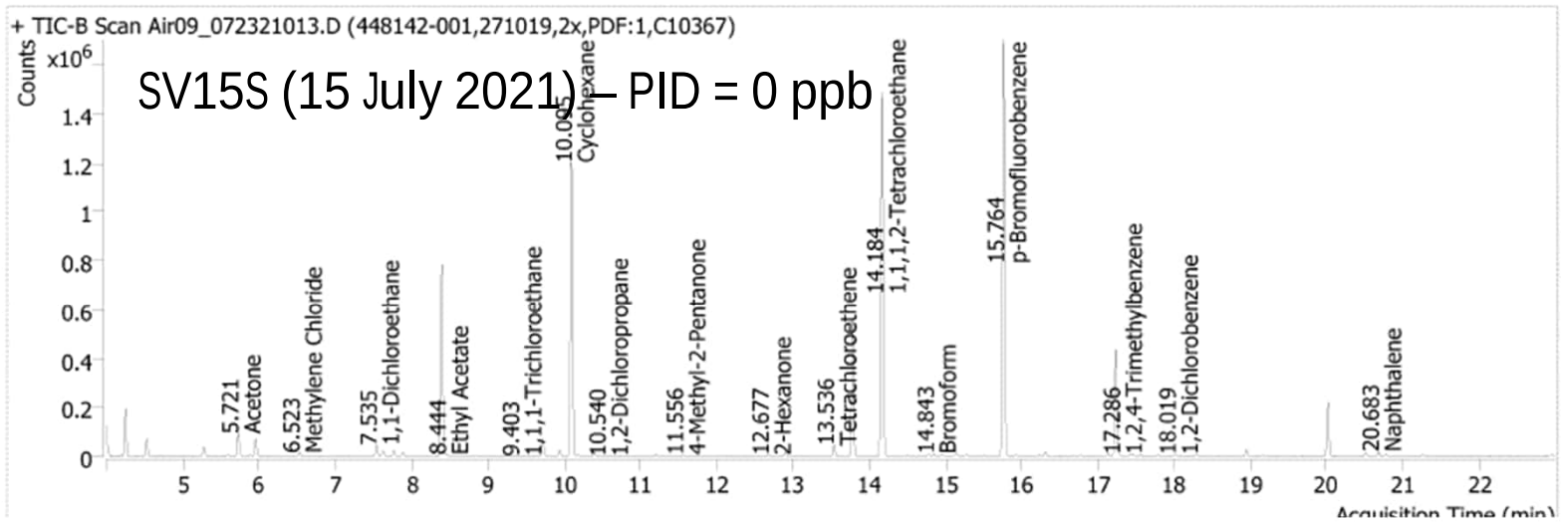

Response
Signal: Air03_061821013.D\FID1A.CH
SVMP-20S (14 June 2021)
PID = 2.67 ppm
TPH by TO-3 = 0.16 ppm
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

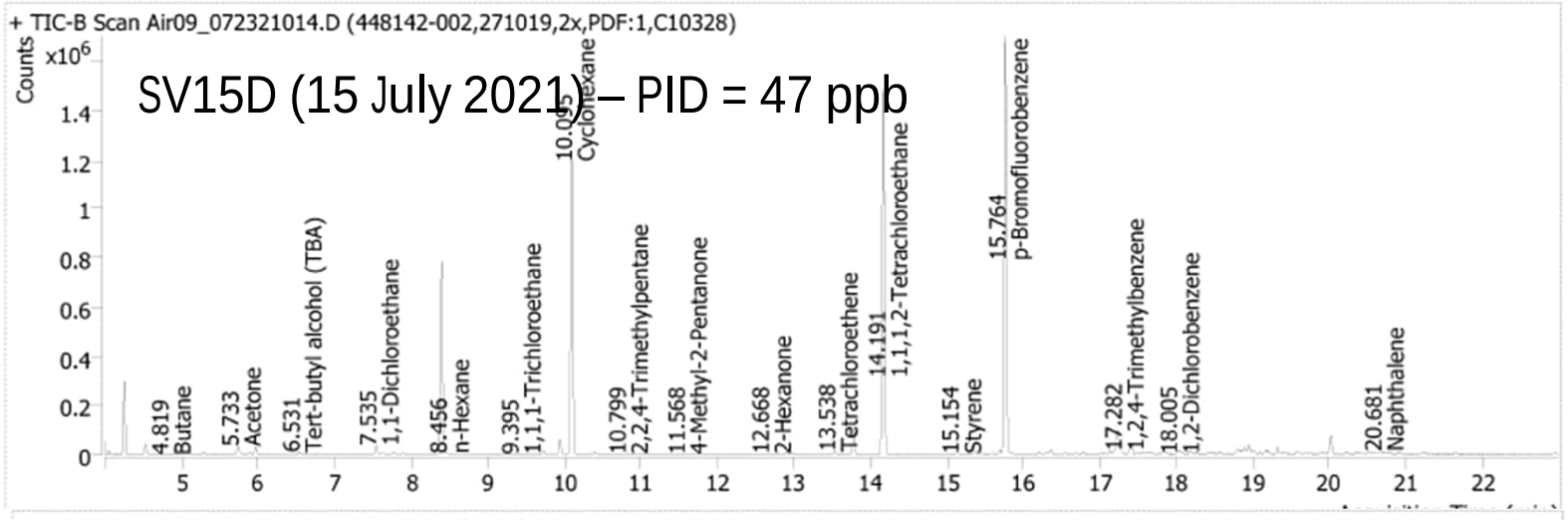

Response
Signal: Air03_061821014.D\FID1A.CH
SVMP-20D (14 June 2021)
PID = 2.15 ppm
TPH by TO-3 = 0.11 ppm
450000
400000
350000
300000
250000
200000
150000
100000
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

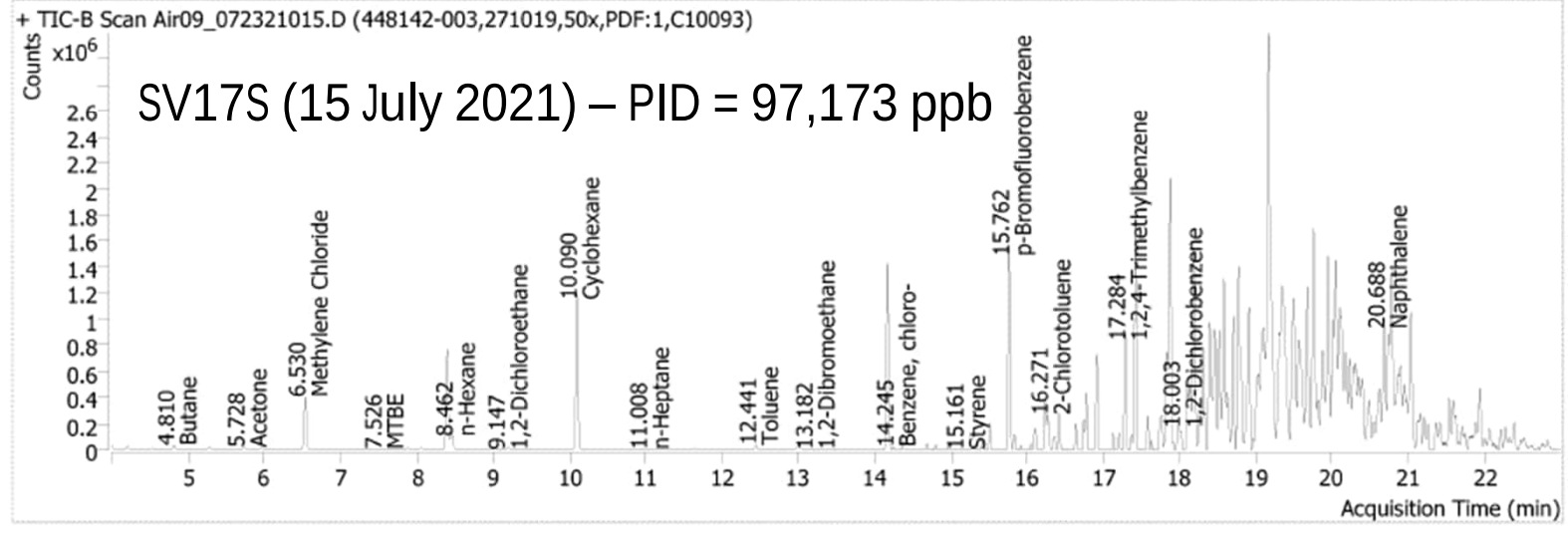
July 2021 Soil Vapor Samples

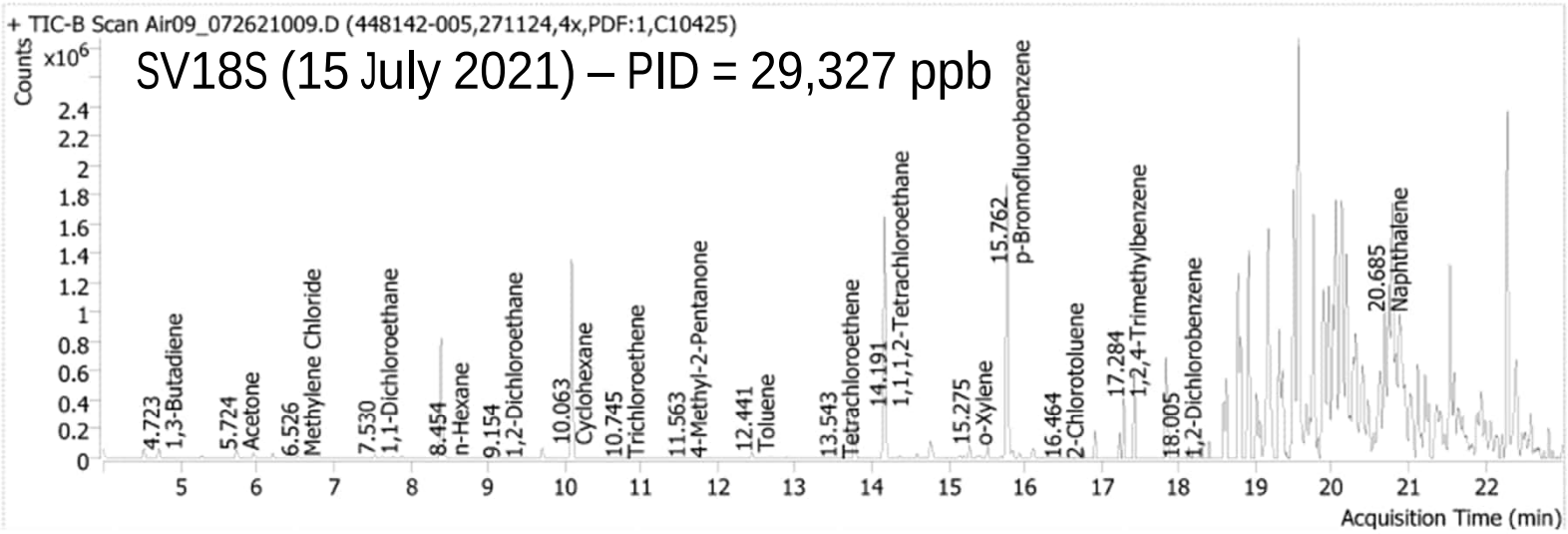
Mass Spec Chromatograms

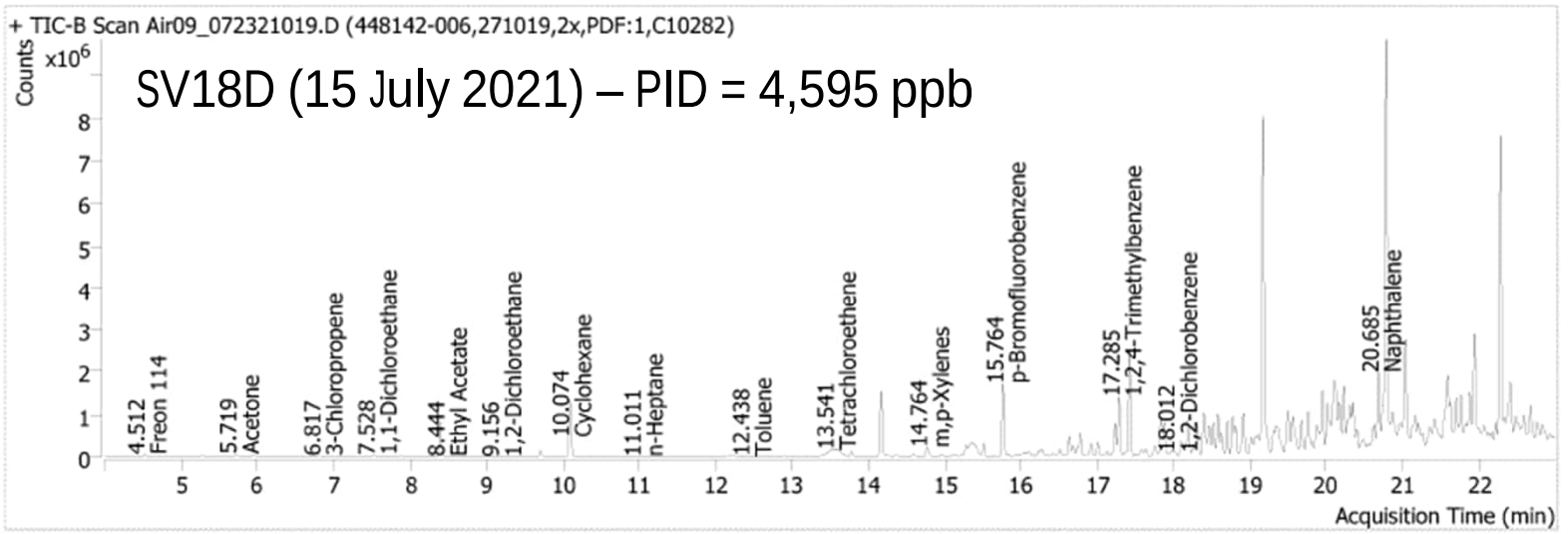

+ TIC-B Scan Air09_072321008.D (BLANK,QC935569,271019,1x,PDF:1)
Lab Blank
Counts
x10^6
4.589 1,3-Butadiene
5.735 Acetone
6.524 Methylene Chloride
7.531 trans-1,2-Dichloroethene
8.392 Chloroform
9.163 1,2-Dichloroethane
10.093 Cyclohexane
10.772 1,4-Dioxane
11.574 4-Methyl-2-Pentanone
12.682 2-Hexanone
13.534 Tetrachloroethene
14.179 1,1,1,2-Tetrachloroethane
15.161 Styrene
15.764 p-Bromofluorobenzene
16.682 n-Propylbenzene
17.557 1,4-Dichlorobenzene
20.683 Naphthalene
Acquisition Time (min)

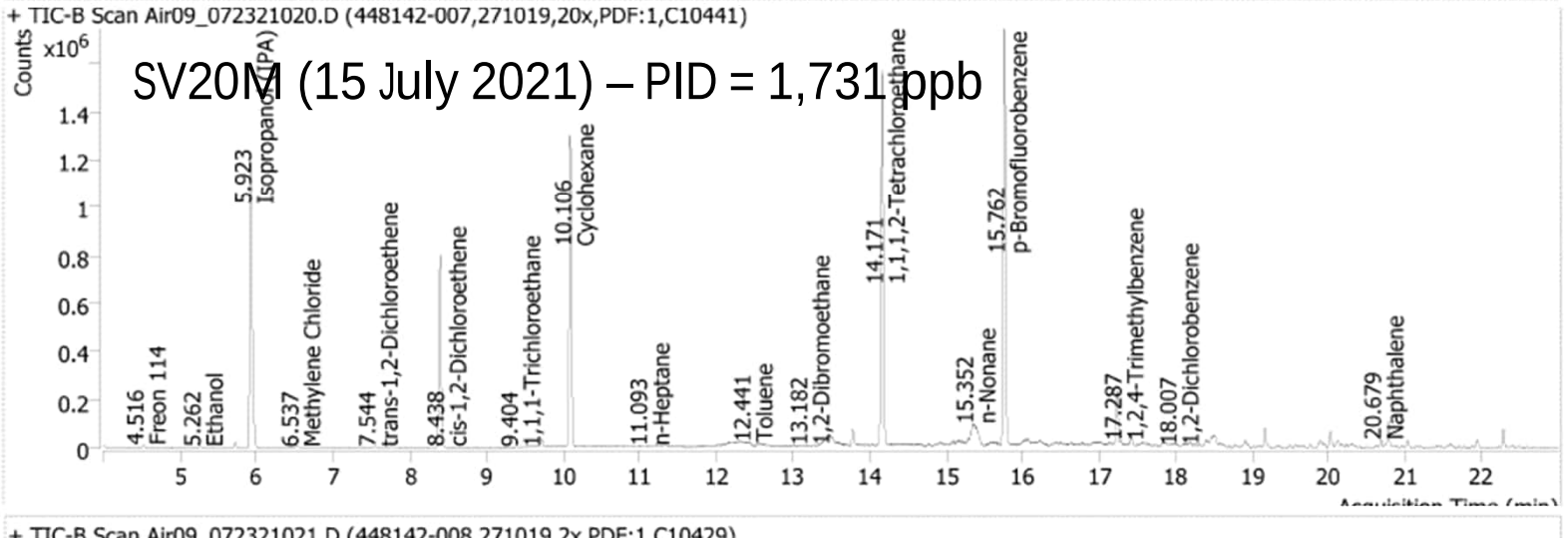

+ TIC-B Scan Air09_072321013.D (448142-001,271019,2x,PDF:1,C10367)
SV15S (15 July 2021) – PID = 0 ppb
Counts
x10^6
5.721 Acetone
6.523 Methylene Chloride
7.535 1,1-Dichloroethane
8.444 Ethyl Acetate
9.403 1,1,1-Trichloroethane
10.095 Cyclohexane
10.540 1,2-Dichloropropane
11.556 4-Methyl-2-Pentanone
12.677 2-Hexanone
13.536 Tetrachloroethene
14.184 1,1,1,2-Tetrachloroethane
14.843 Bromoform
15.764 p-Bromofluorobenzene
17.286 1,2,4-Trimethylbenzene
18.019 1,2-Dichlorobenzene
20.683 Naphthalene

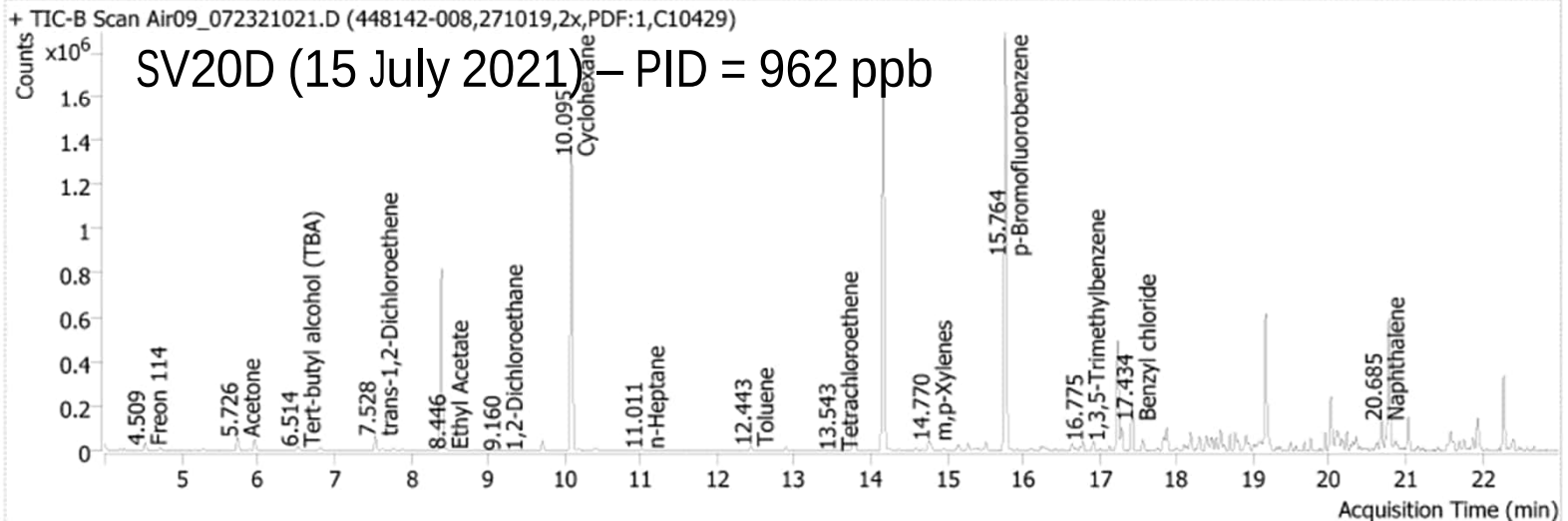

+ TIC-B Scan Air09_072321014.D (448142-002,271019,2x,PDF:1,C10328)
SV15D (15 July 2021) – PID = 47 ppb
Counts
x10^6
4.819 Butane
5.733 Acetone
6.531 Tert-butyl alcohol (TBA)
7.535 1,1-Dichloroethane
8.456 n-Hexane
9.395 1,1,1-Trichloroethane
10.095 Cyclohexane
10.799 2,2,4-Trimethylpentane
11.568 4-Methyl-2-Pentanone
12.668 2-Hexanone
13.538 Tetrachloroethene
14.191 1,1,1,2-Tetrachloroethane
15.154 Styrene
15.764 p-Bromofluorobenzene
17.282 1,2,4-Trimethylbenzene
18.005 1,2-Dichlorobenzene
20.681 Naphthalene


+ TIC-B Scan Air09_072321015.D (448142-003,271019,50x,PDF:1,C10093)
SV17S (15 July 2021) – PID = 97,173 ppb
Counts
x10^6
4.810 Butane
5.728 Acetone
6.530 Methylene Chloride
7.526 MTBE
8.462 n-Hexane
9.147 1,2-Dichloroethane
10.090 Cyclohexane
11.008 n-Heptane
12.441 Toluene
13.182 1,2-Dibromoethane
14.245 Benzene, chloro-
15.161 Styrene
15.762 p-Bromofluorobenzene
16.271 2-Chlorotoluene
17.284 1,2,4-Trimethylbenzene
18.003 1,2-Dichlorobenzene
20.688 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air09_072621009.D (448142-005,271124,4x,PDF:1,C10425)
SV18S (15 July 2021) – PID = 29,327 ppb
Counts
x10^6
4.723 1,3-Butadiene
5.724 Acetone
6.526 Methylene Chloride
7.530 1,1-Dichloroethane
8.454 n-Hexane
9.154 1,2-Dichloroethane
10.063 Cyclohexane
10.745 Trichloroethene
11.563 4-Methyl-2-Pentanone
12.441 Toluene
13.543 Tetrachloroethene
14.191 1,1,1,2-Tetrachloroethane
15.275 o-Xylene
15.762 p-Bromofluorobenzene
16.464 2-Chlorotoluene
17.284 1,2,4-Trimethylbenzene
18.005 1,2-Dichlorobenzene
20.685 Naphthalene
Acquisition Time (min)

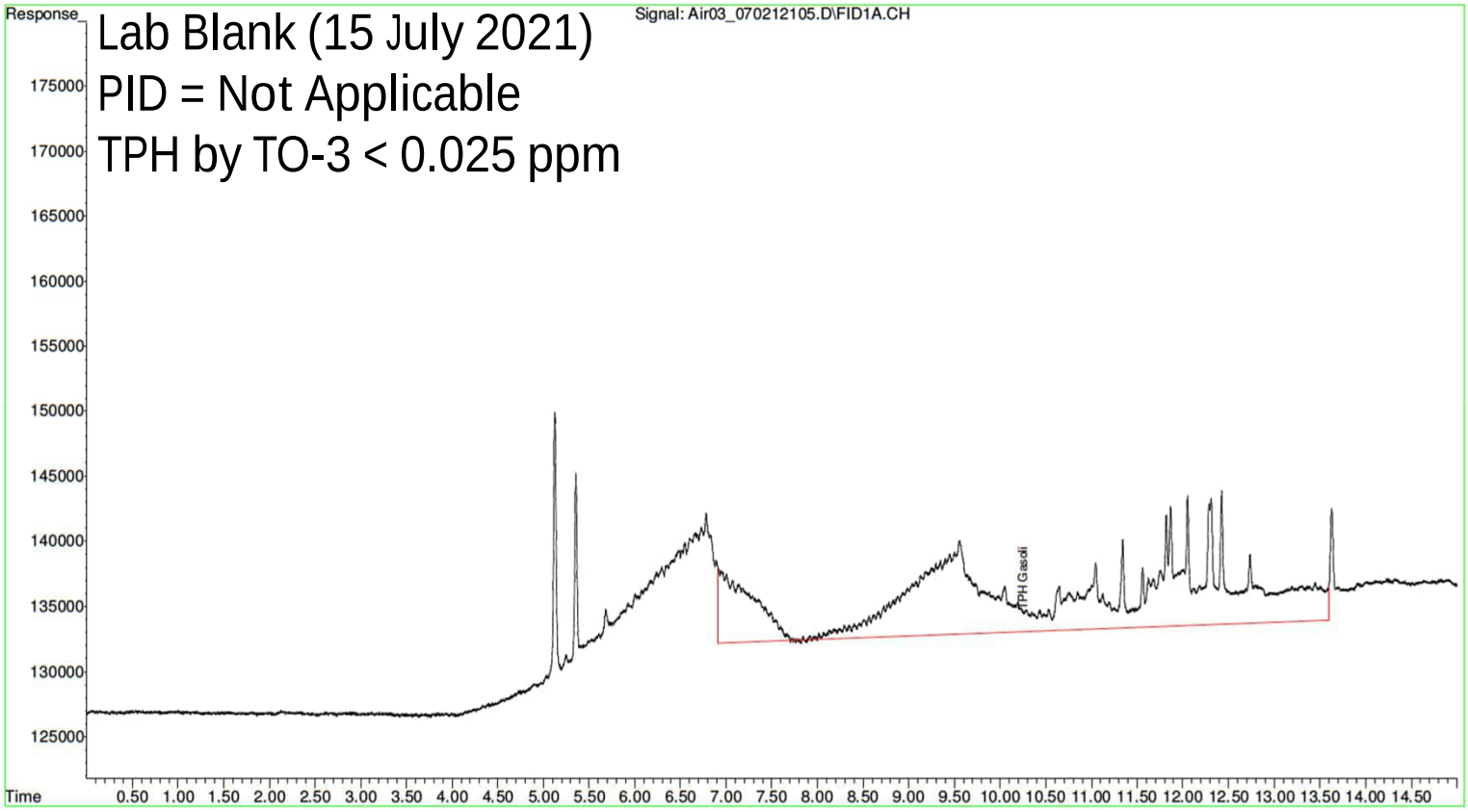

+ TIC-B Scan Air09_072321019.D (448142-006,271019,2x,PDF:1,C10282)
SV18D (15 July 2021) – PID = 4,595 ppb
Counts
x10^6
4.512 Freon 114
5.719 Acetone
6.817 3-Chloropropene
7.528 1,1-Dichloroethane
8.444 Ethyl Acetate
9.156 1,2-Dichloroethane
10.074 Cyclohexane
11.011 n-Heptane
12.438 Toluene
13.541 Tetrachloroethene
14.764 m,p-Xylenes
15.764 p-Bromofluorobenzene
17.285 1,2,4-Trimethylbenzene
18.012 1,2-Dichlorobenzene
20.685 Naphthalene
Acquisition Time (min)

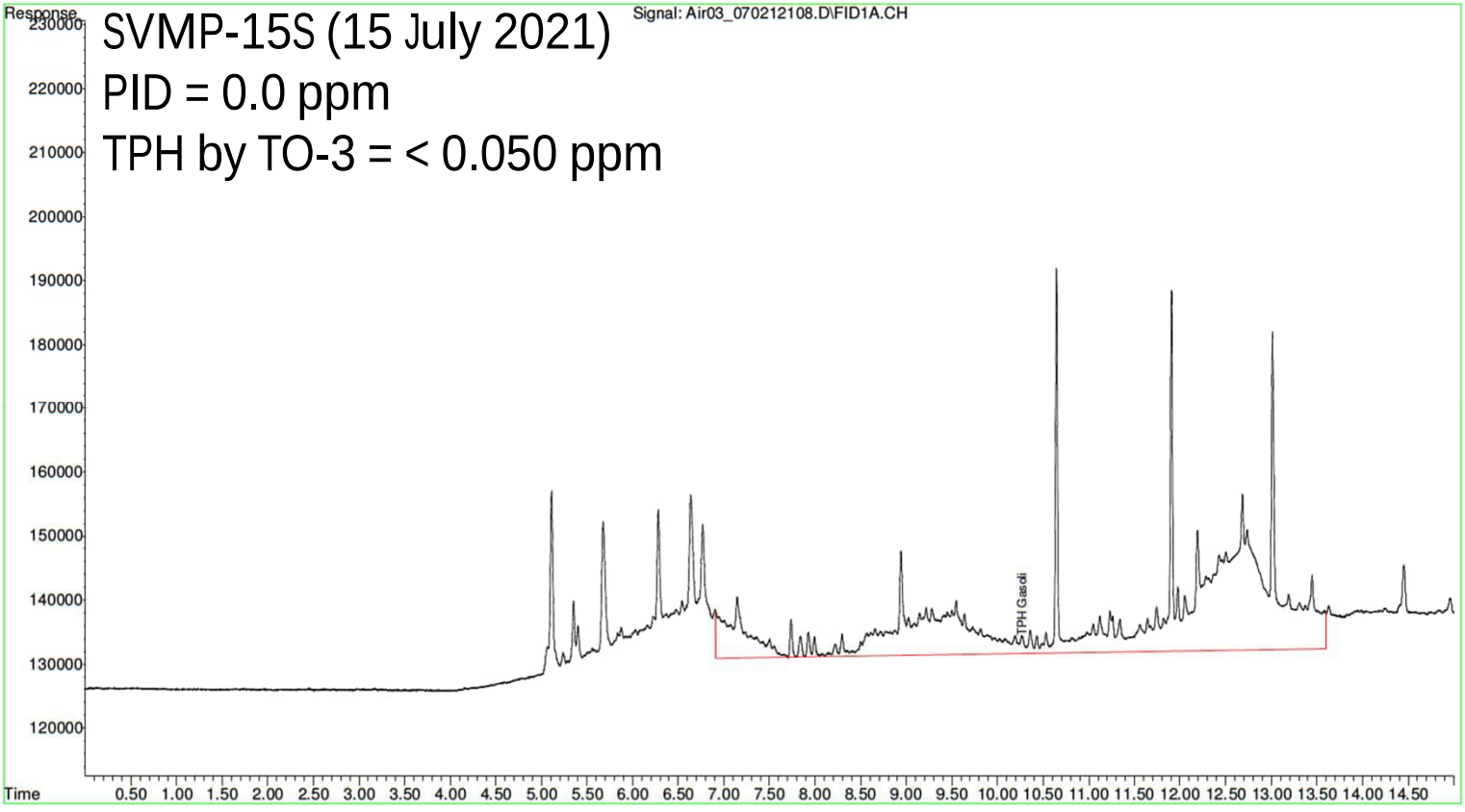

+ TIC-B Scan Air09_072321020.D (448142-007,271019,20x,PDF:1,C10441)
SV20M (15 July 2021) – PID = 1,731 ppb
Counts
x10^6
4.516 Freon 114
5.262 Ethanol
5.923 Isopropanol (IPA)
6.537 Methylene Chloride
7.544 trans-1,2-Dichloroethene
8.438 cis-1,2-Dichloroethene
9.404 1,1,1-Trichloroethane
10.106 Cyclohexane
11.093 n-Heptane
12.441 Toluene
13.182 1,2-Dibromoethane
14.171 1,1,1,2-Tetrachloroethane
15.352 n-Nonane
15.762 p-Bromofluorobenzene
17.287 1,2,4-Trimethylbenzene
18.007 1,2-Dichlorobenzene
20.679 Naphthalene

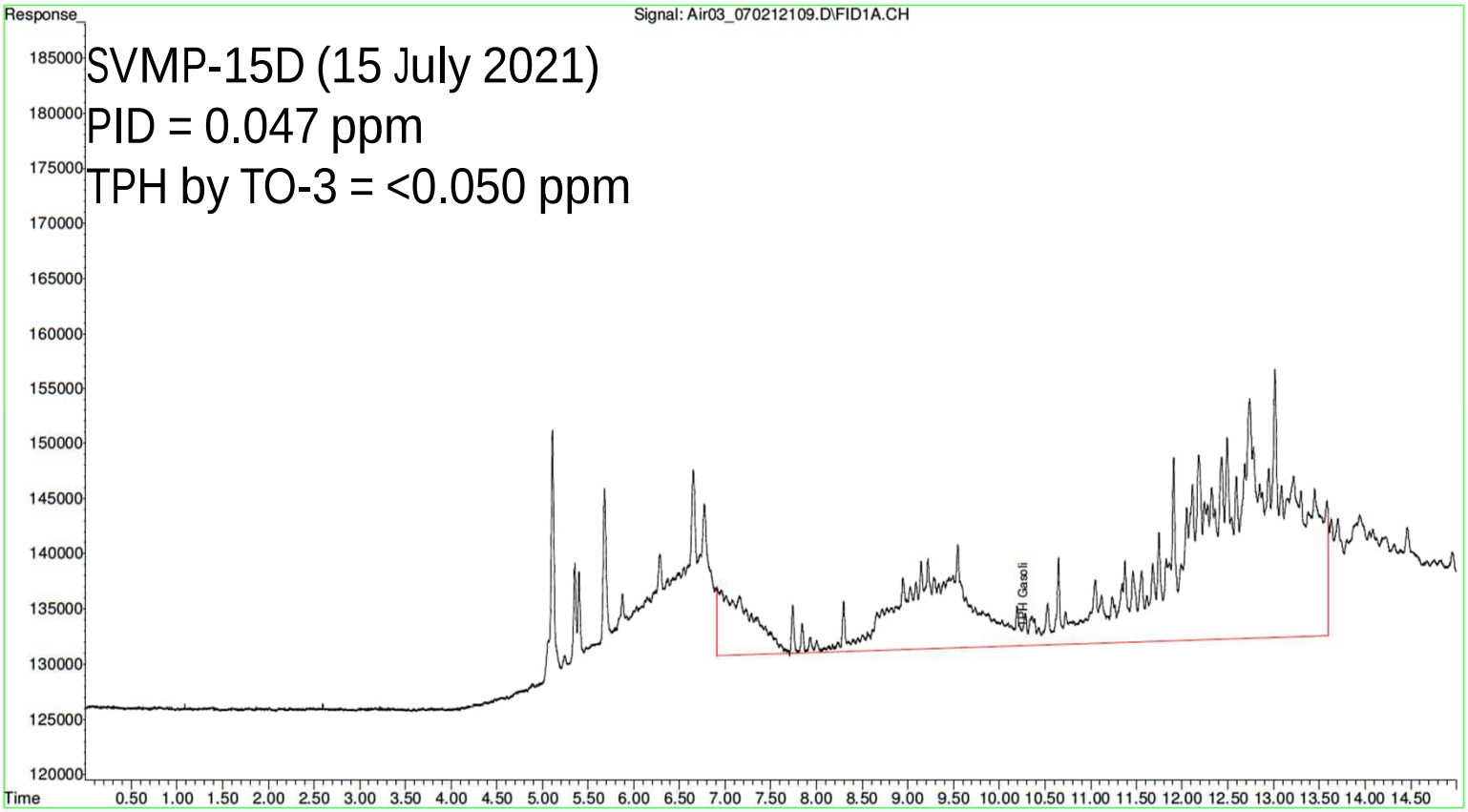

+ TIC-B Scan Air09_072321021.D (448142-008,271019,2x,PDF:1,C10429)
SV20D (15 July 2021) – PID = 962 ppb
Counts
x10^6
4.509 Freon 114
5.726 Acetone
6.514 Tert-butyl alcohol (TBA)
7.528 trans-1,2-Dichloroethene
8.446 Ethyl Acetate
9.160 1,2-Dichloroethane
10.095 Cyclohexane
11.011 n-Heptane
12.443 Toluene
13.543 Tetrachloroethene
14.770 m,p-Xylenes
15.764 p-Bromofluorobenzene
16.775 1,3,5-Trimethylbenzene
17.434 Benzyl chloride
20.685 Naphthalene
Acquisition Time (min)

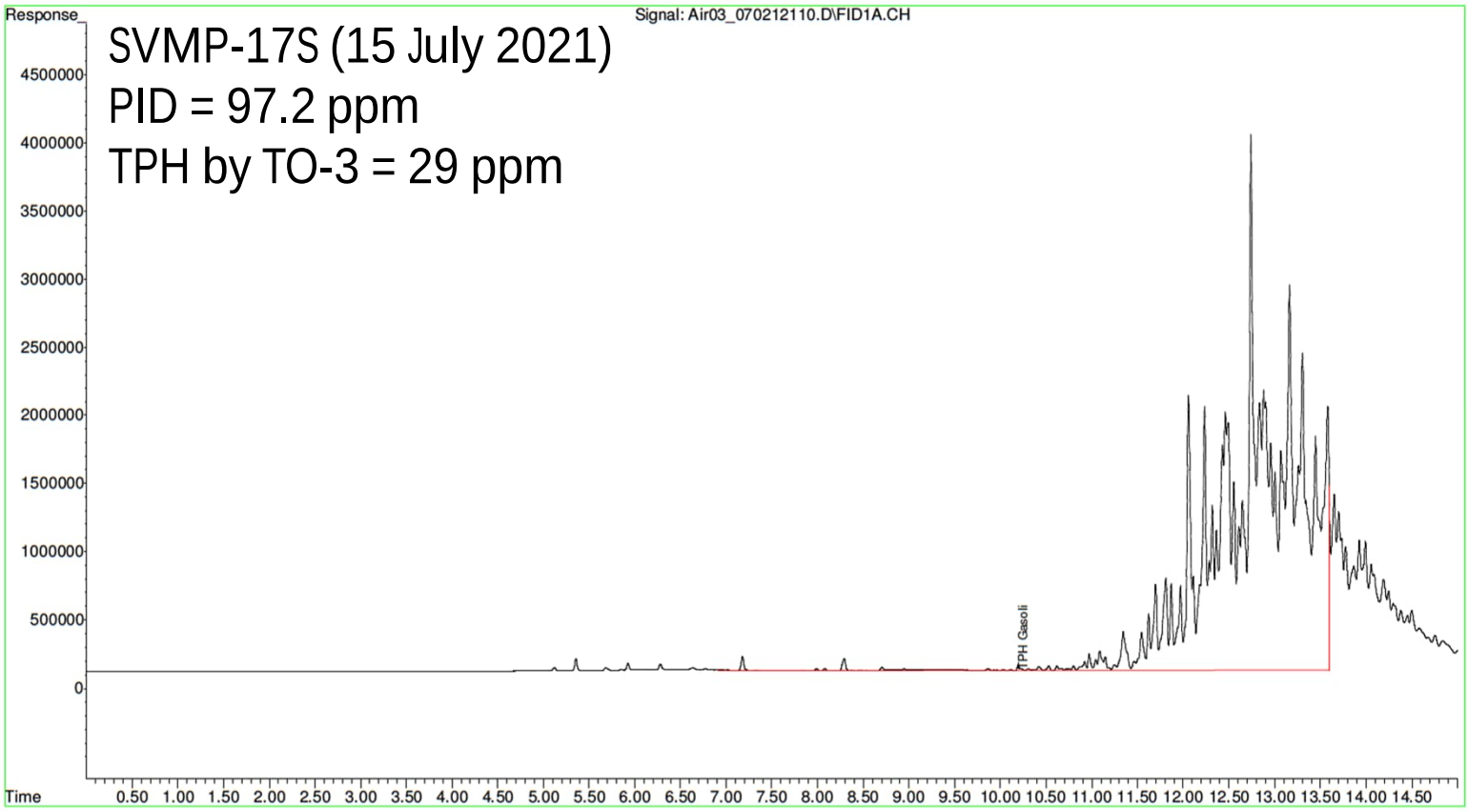
July 2021 Soil Vapor Samples

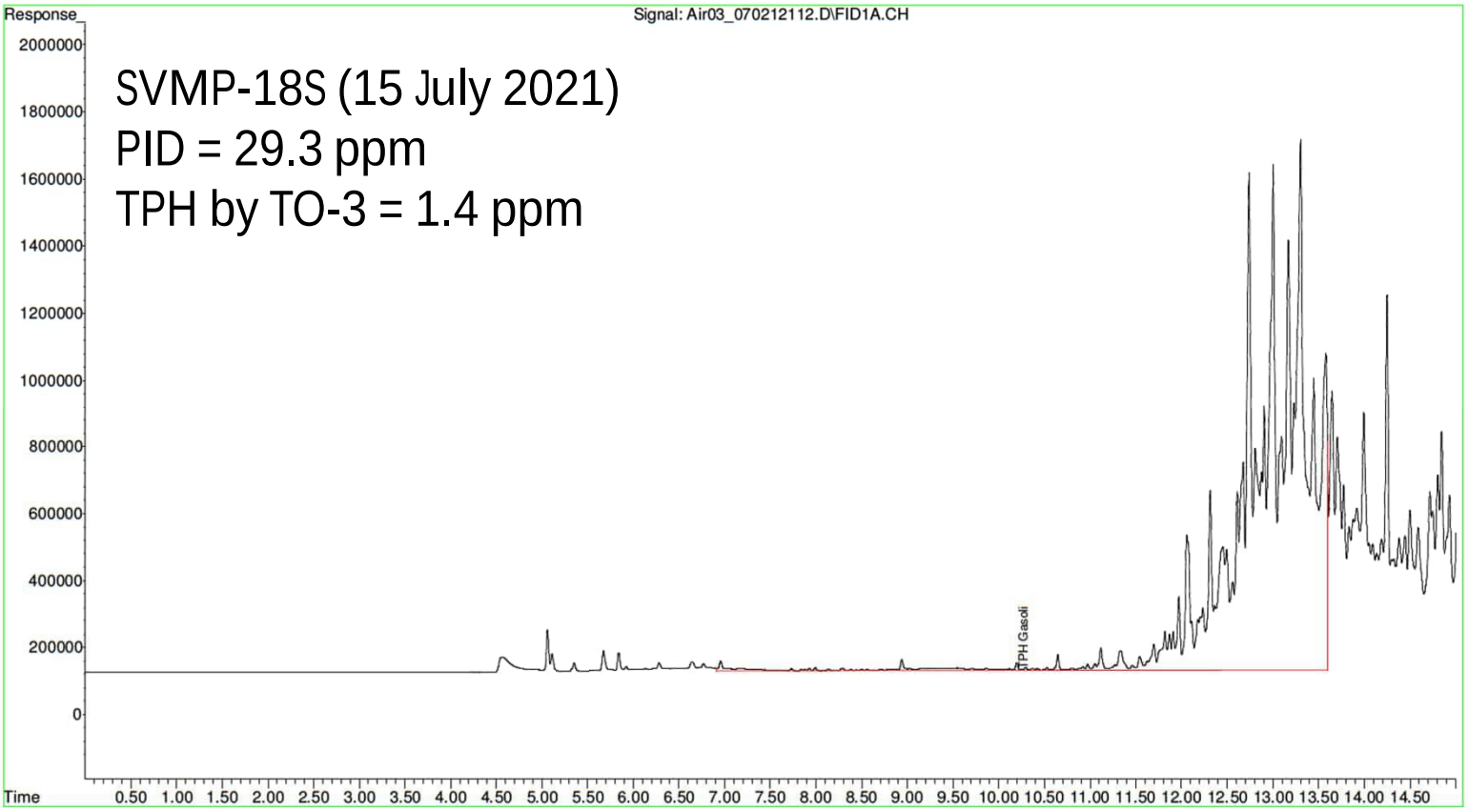
FID Chromatograms


Lab Blank (15 July 2021)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
Response
Signal: Air03_070212105.D\FID1A.CH
175000
170000
165000
160000
155000
150000
145000
140000
135000
130000
125000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

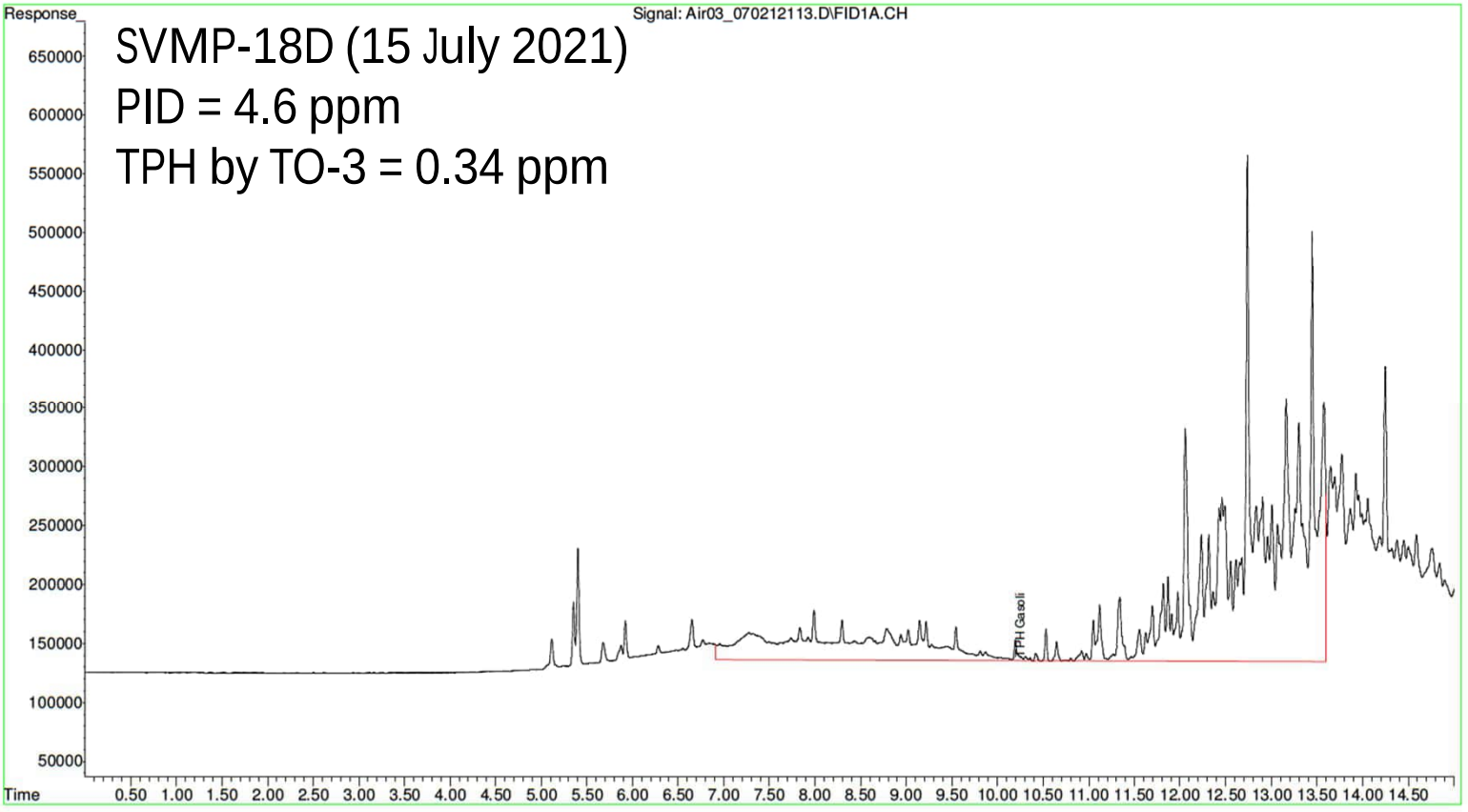

SVMP-15S (15 July 2021)
PID = 0.0 ppm
TPH by TO-3 = < 0.050 ppm
Response
Signal: Air03_070212108.D\FID1A.CH
230000
220000
210000
200000
190000
180000
170000
160000
150000
140000
130000
120000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50


Response_
Signal: Air03_070212109.D\FID1A.CH
SVMP-15D (15 July 2021)
PID = 0.047 ppm
TPH by TO-3 = <0.050 ppm
185000
180000
175000
170000
165000
160000
155000
150000
145000
140000
135000
130000
125000
120000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

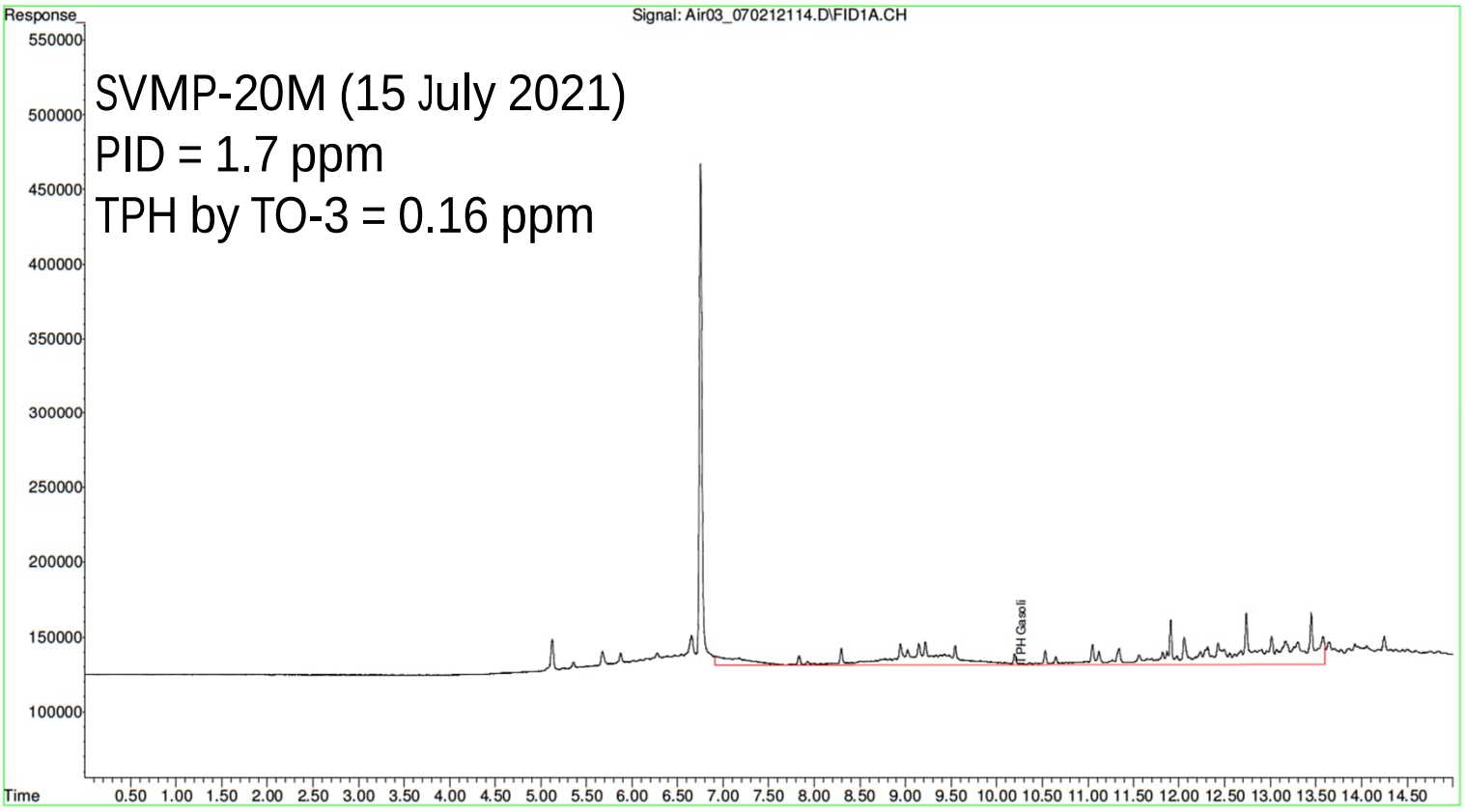

Response_
Signal: Air03_070212110.D\FID1A.CH
SVMP-17S (15 July 2021)
PID = 97.2 ppm
TPH by TO-3 = 29 ppm
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

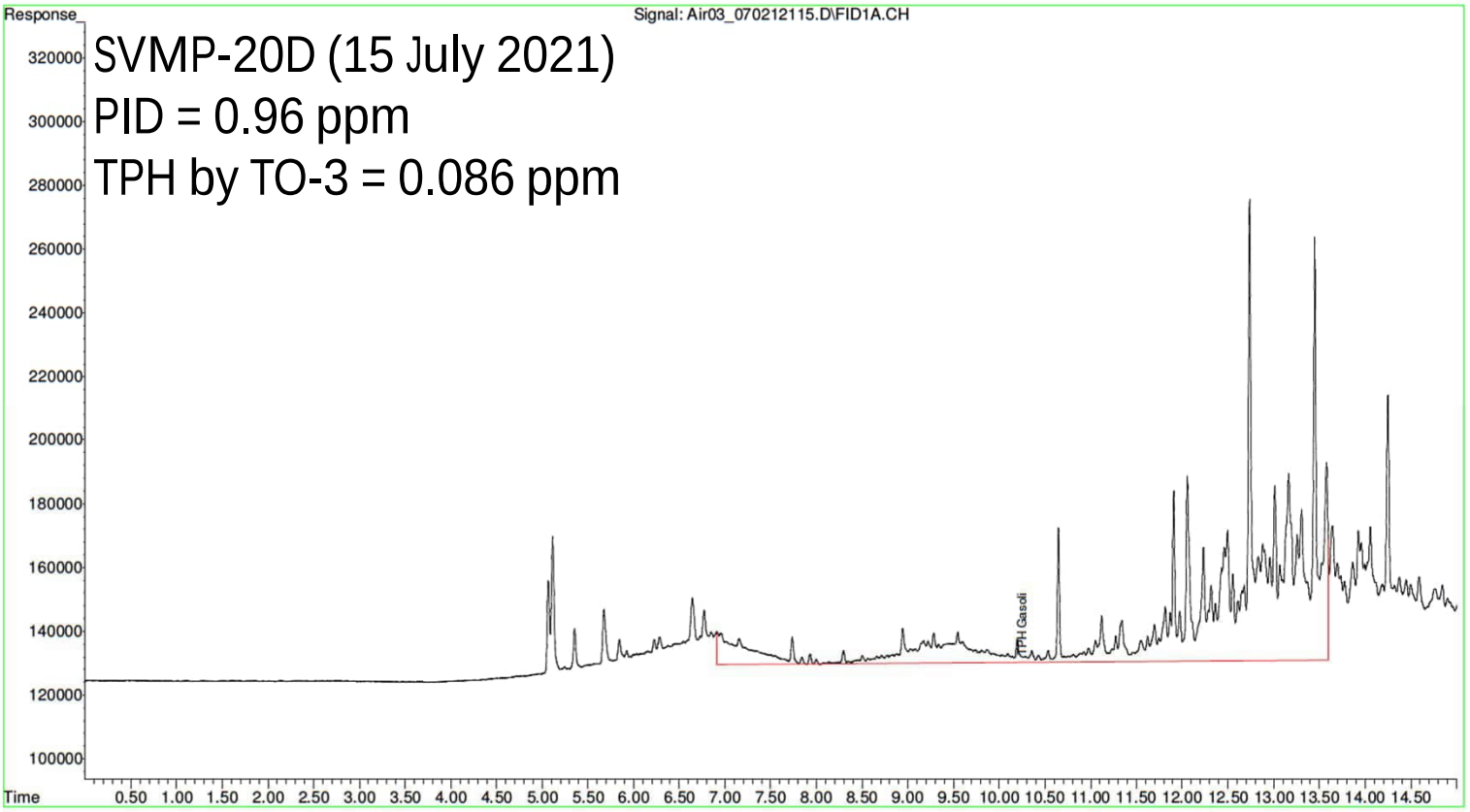


SVMP-18S (15 July 2021)
PID = 29.3 ppm
TPH by TO-3 = 1.4 ppm



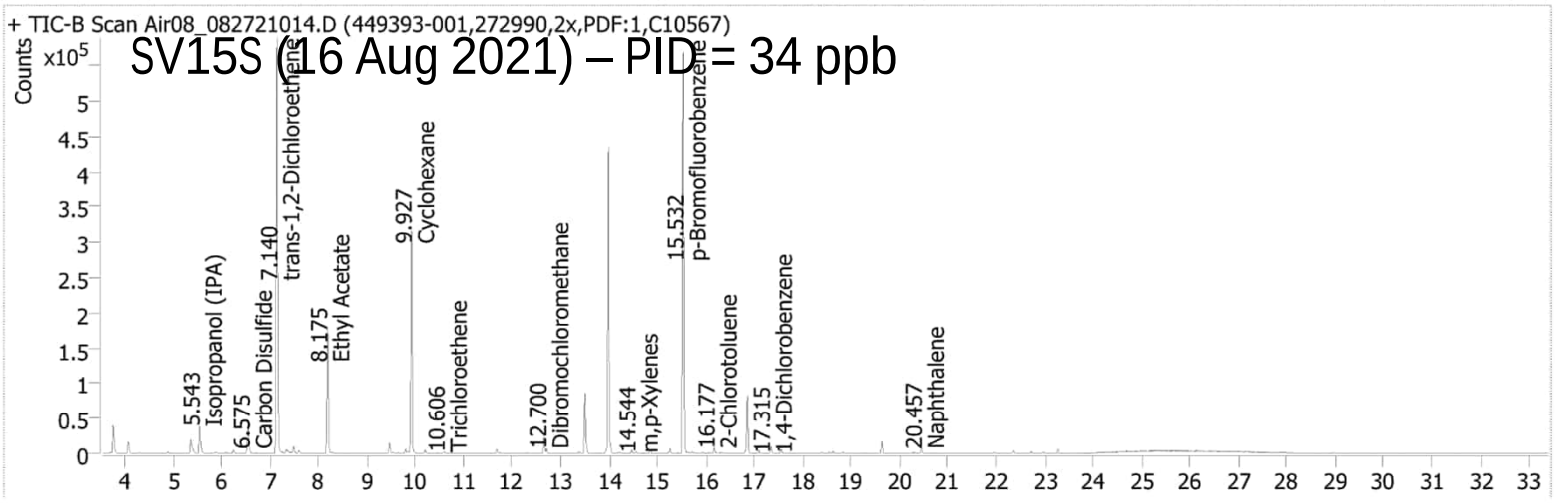
SVMP-18D (15 July 2021)
PID = 4.6 ppm
TPH by TO-3 = 0.34 ppm

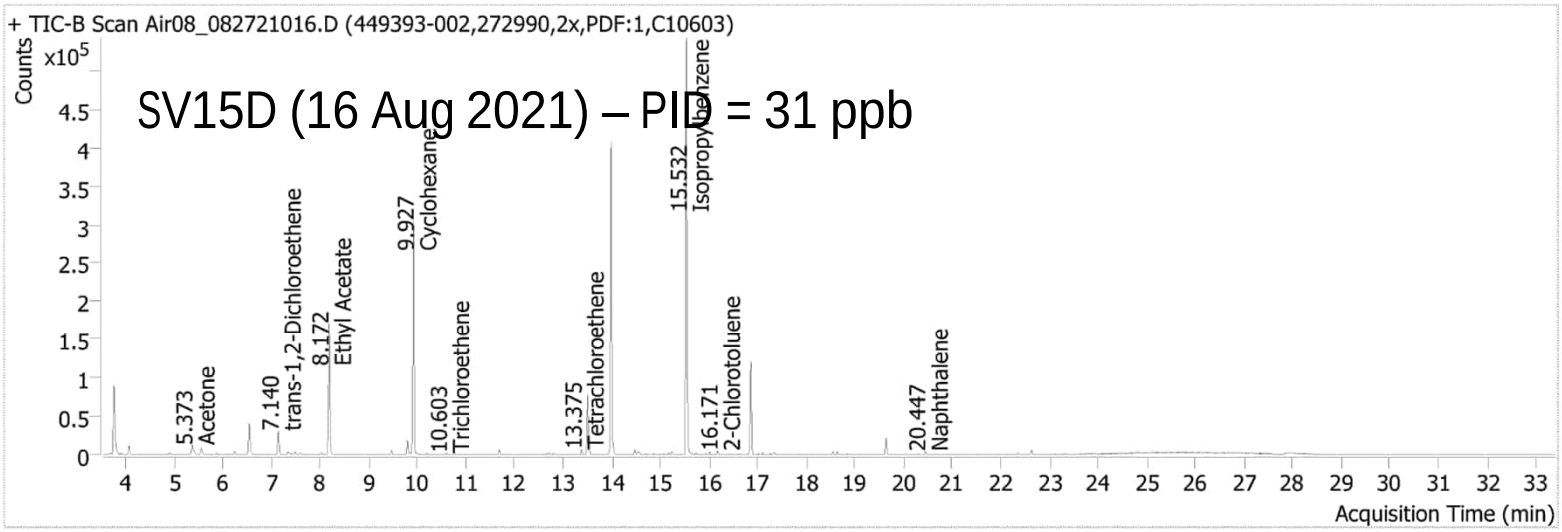

Response
Signal: Air03_070212114.D\FID1A.CH
SVMP-20M (15 July 2021)
PID = 1.7 ppm
TPH by TO-3 = 0.16 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

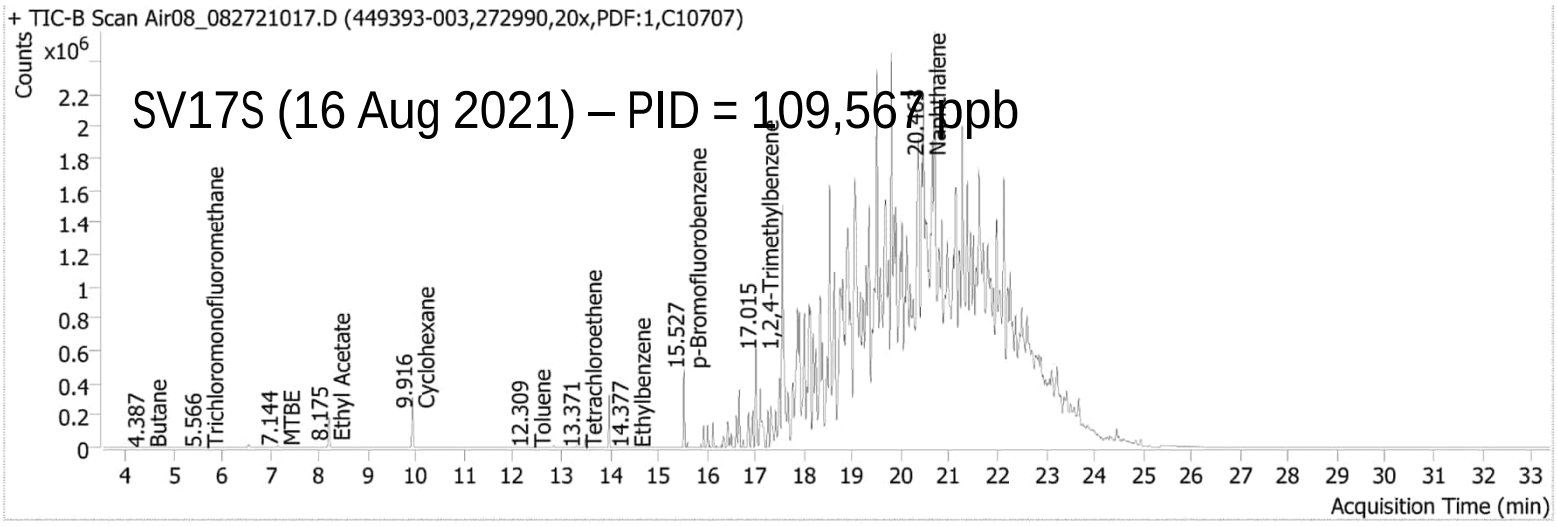

Response
Signal: Air03_070212115.D\FID1A.CH
SVMP-20D (15 July 2021)
PID = 0.96 ppm
TPH by TO-3 = 0.086 ppm
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50

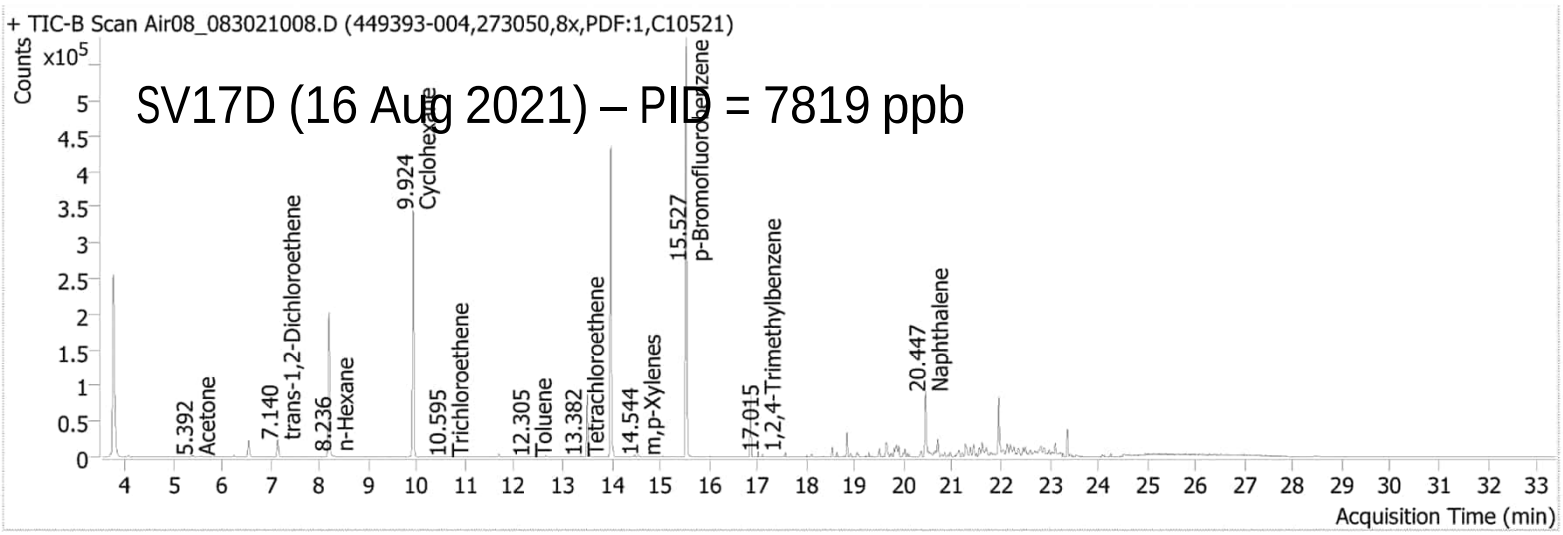
August 2021 Soil Vapor Samples

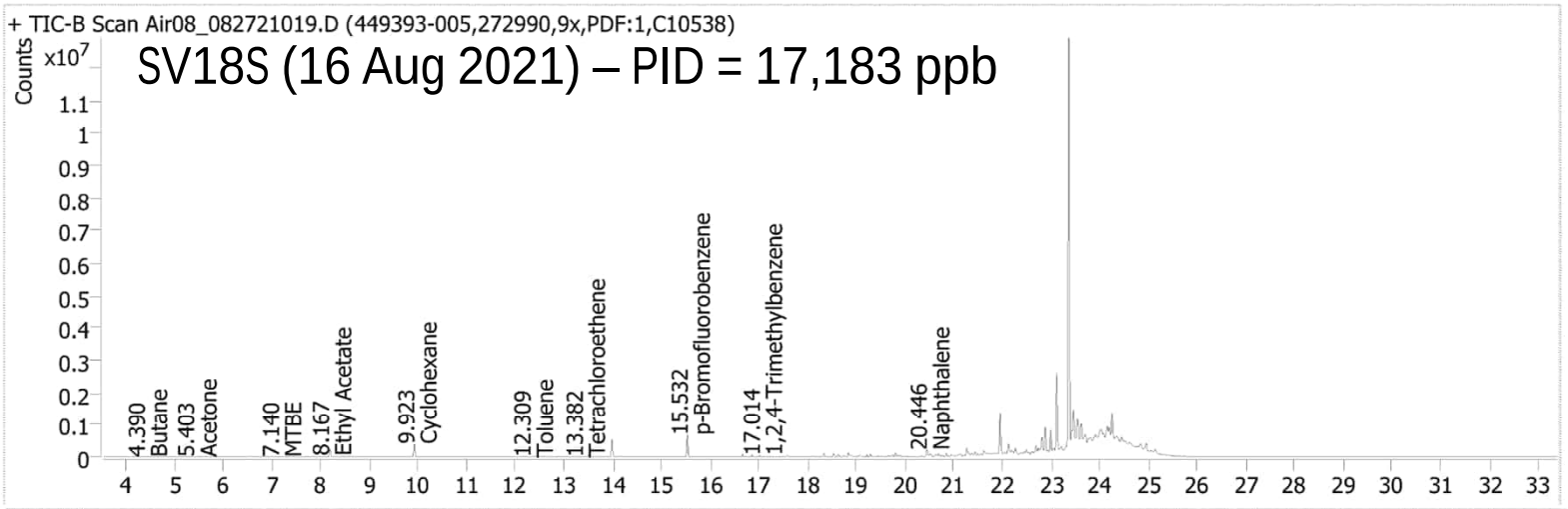
Mass Spec Chromatograms

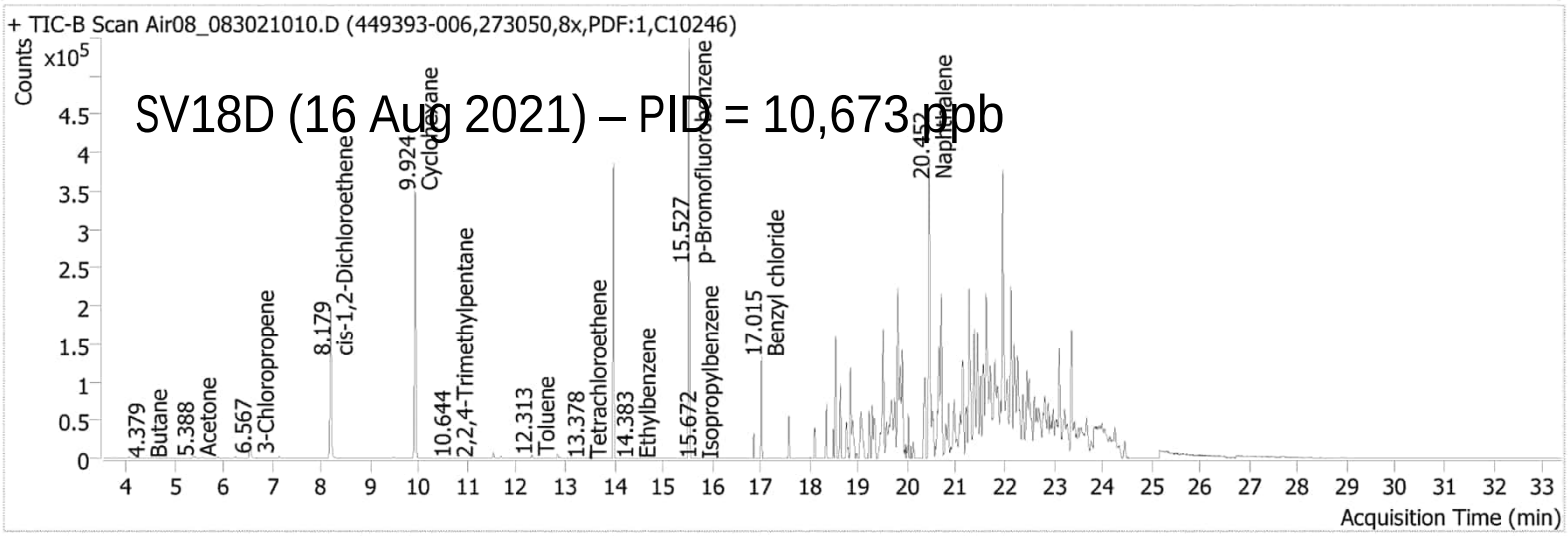

+ TIC-B Scan Air08_082721014.D (449393-001,272990,2x,PDF:1,C10567)
SV15S (16 Aug 2021) – PID = 34 ppb
Counts
x10^5
5.543 Isopropanol (IPA)
6.575 Carbon Disulfide
7.140 trans-1,2-Dichloroethene
8.175 Ethyl Acetate
9.927 Cyclohexane
10.606 Trichloroethene
12.700 Dibromochloromethane
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene
16.177 2-Chlorotoluene
17.315 1,4-Dichlorobenzene
20.457 Naphthalene

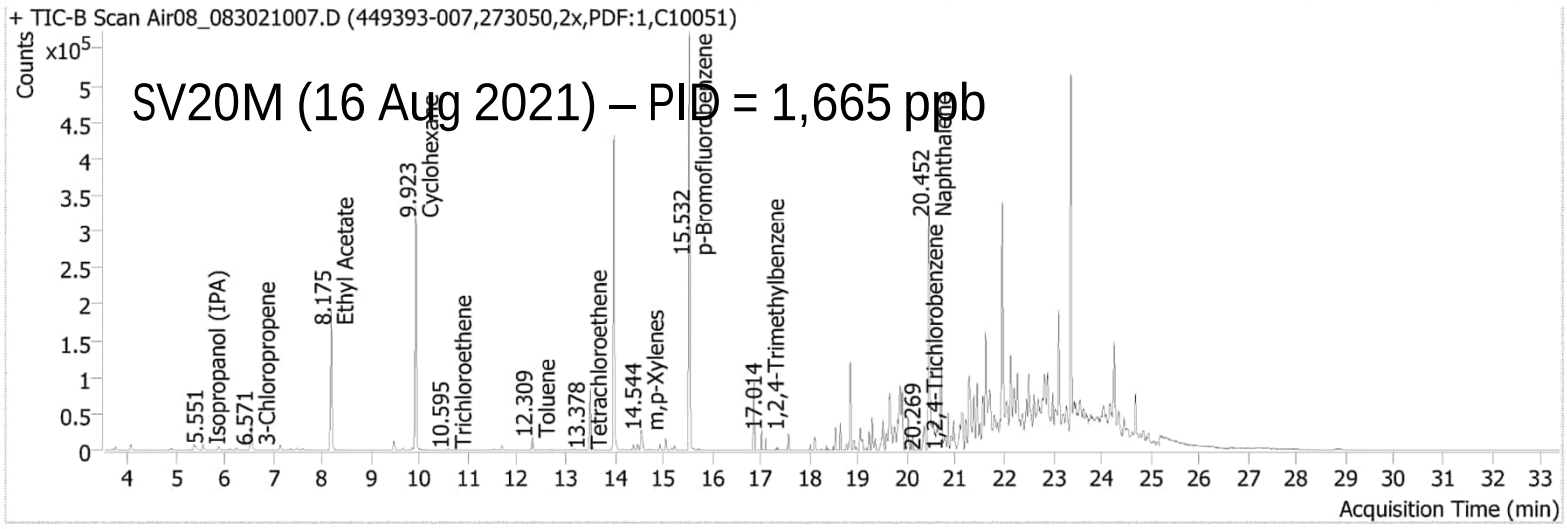

+ TIC-B Scan Air08_082721016.D (449393-002,272990,2x,PDF:1,C10603)
SV15D (16 Aug 2021) – PID = 31 ppb
Counts
x10^5
5.373 Acetone
7.140 trans-1,2-Dichloroethene
8.172 Ethyl Acetate
9.927 Cyclohexane
10.603 Trichloroethene
13.375 Tetrachloroethene
15.532 Isopropylbenzene
16.171 2-Chlorotoluene
20.447 Naphthalene
Acquisition Time (min)

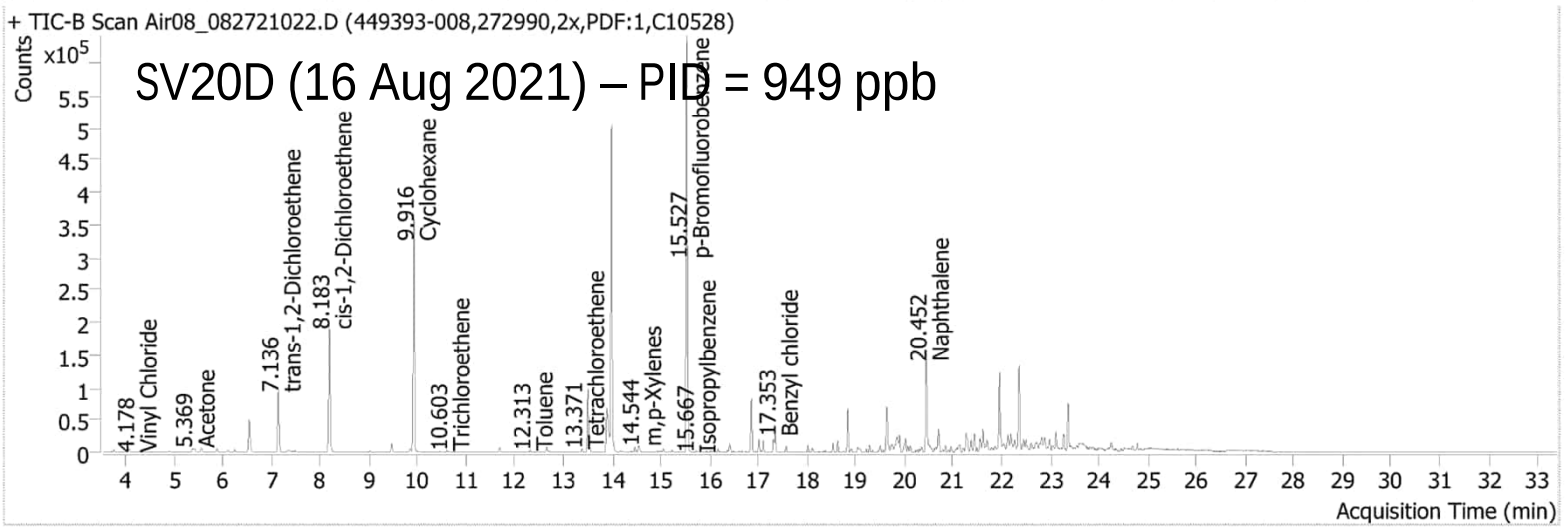

+ TIC-B Scan Air08_082721017.D (449393-003,272990,20x,PDF:1,C10707)
SV17S (16 Aug 2021) – PID = 109,561 ppb
Counts
x10^6
4.387 Butane
5.566 Trichloromonofluoromethane
7.144 MTBE
8.175 Ethyl Acetate
9.916 Cyclohexane
12.309 Toluene
13.371 Tetrachloroethene
14.377 Ethylbenzene
15.527 p-Bromofluorobenzene
17.015 1,2,4-Trimethylbenzene
20.763 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_083021008.D (449393-004,273050,8x,PDF:1,C10521)
SV17D (16 Aug 2021) – PID = 7819 ppb
Counts
x10^5
5.392 Acetone
7.140 trans-1,2-Dichloroethene
8.236 n-Hexane
9.924 Cyclohexane
10.595 Trichloroethene
12.305 Toluene
13.382 Tetrachloroethene
14.544 m,p-Xylenes
15.527 p-Bromofluorobenzene
17.015 1,2,4-Trimethylbenzene
20.447 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_082721019.D (449393-005,272990,9x,PDF:1,C10538)
SV18S (16 Aug 2021) – PID = 17,183 ppb
Counts
x10^7
4.390 Butane
5.403 Acetone
7.140 MTBE
8.167 Ethyl Acetate
9.923 Cyclohexane
12.309 Toluene
13.382 Tetrachloroethene
15.532 p-Bromofluorobenzene
17.014 1,2,4-Trimethylbenzene
20.446 Naphthalene

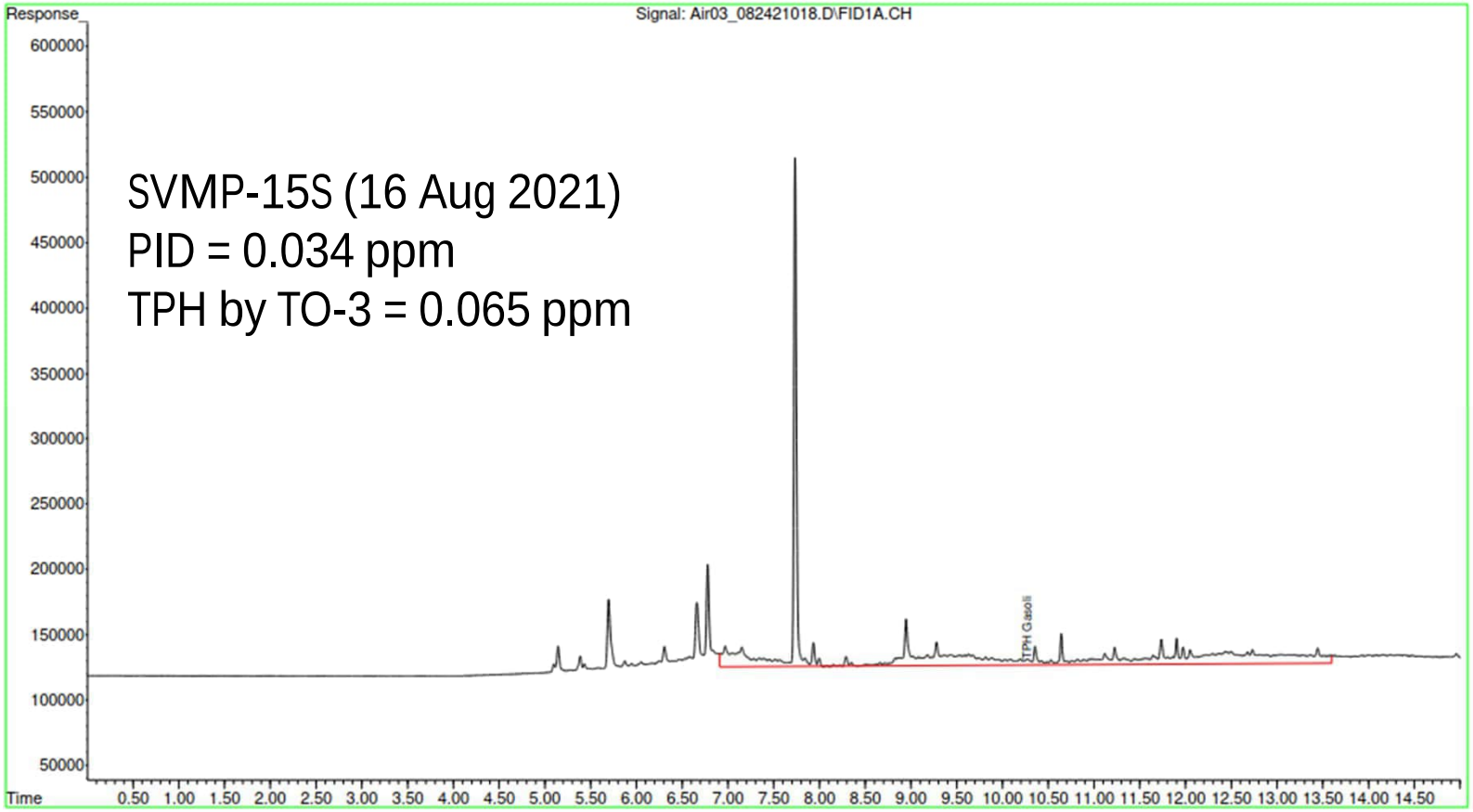

+ TIC-B Scan Air08_083021010.D (449393-006,273050,8x,PDF:1,C10246)
SV18D (16 Aug 2021) – PID = 10,673 ppb
Counts
x10^5
4.379 Butane
5.388 Acetone
6.567 3-Chloropropene
8.179 cis-1,2-Dichloroethene
9.924 Cyclohexane
10.644 2,2,4-Trimethylpentane
12.313 Toluene
13.378 Tetrachloroethene
14.383 Ethylbenzene
15.527 p-Bromofluorobenzene
15.672 Isopropylbenzene
17.015 Benzyl chloride
20.452 Naphthalene
Acquisition Time (min)

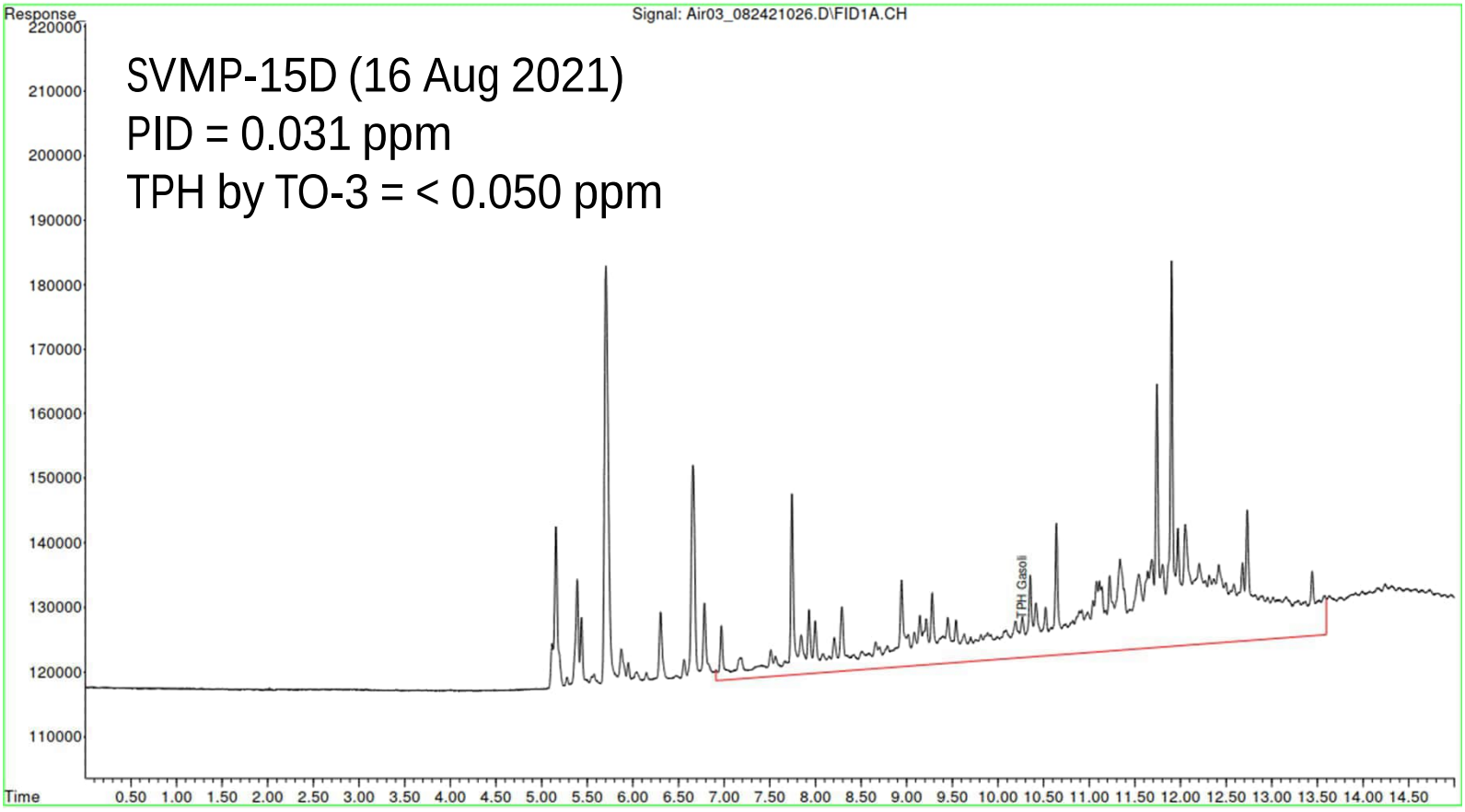

+ TIC-B Scan Air08_083021007.D (449393-007,273050,2x,PDF:1,C10051)
SV20M (16 Aug 2021) – PID = 1,665 ppb
Counts
x10^5
5.551 Isopropanol (IPA)
6.571 3-Chloropropene
8.175 Ethyl Acetate
9.923 Cyclohexane
10.595 Trichloroethene
12.309 Toluene
13.378 Tetrachloroethene
14.544 m,p-Xylenes
15.532 p-Bromofluorobenzene
17.014 1,2,4-Trimethylbenzene
20.269 1,2,4-Trichlorobenzene
20.452 Naphthalene
Acquisition Time (min)

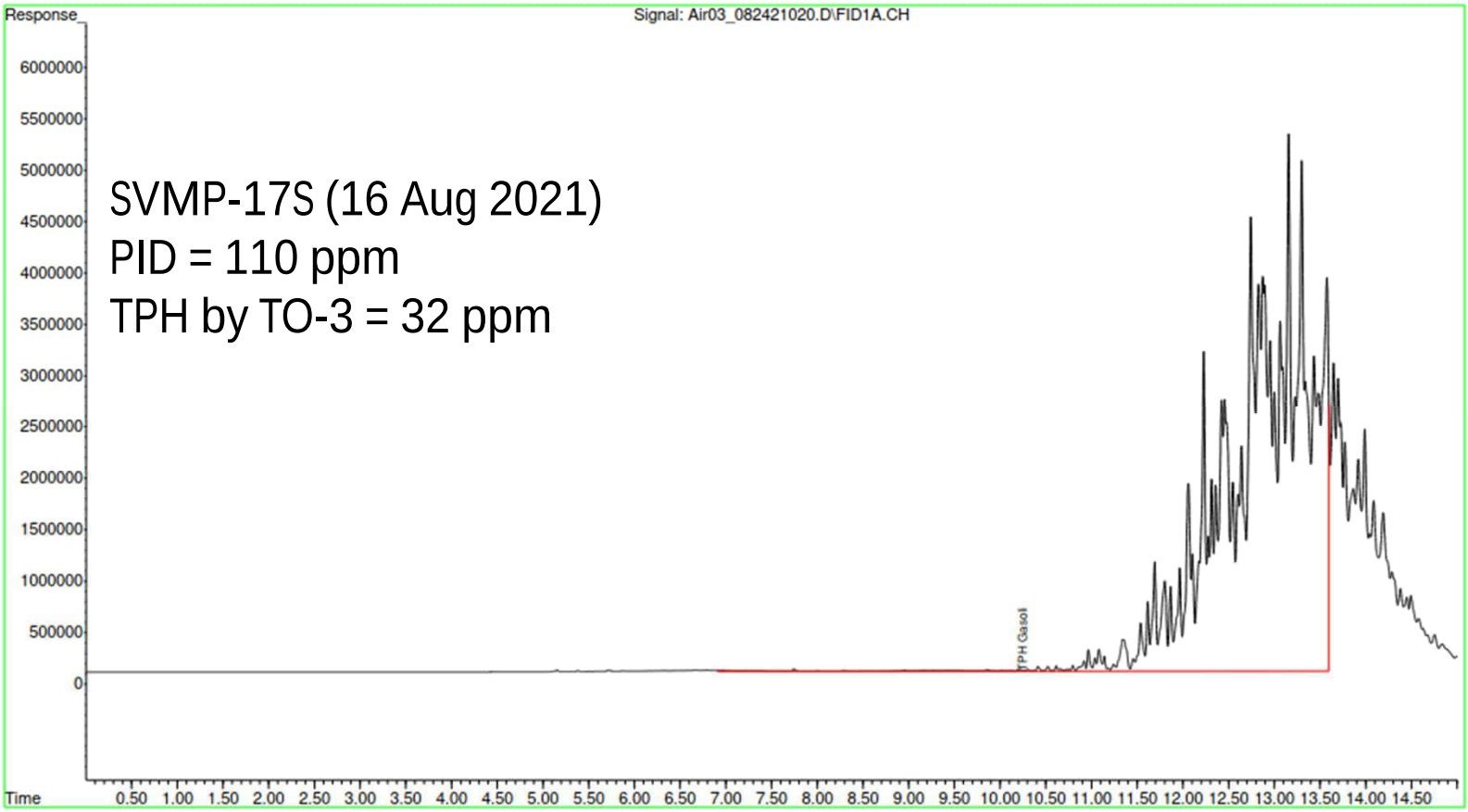

+ TIC-B Scan Air08_082721022.D (449393-008,272990,2x,PDF:1,C10528)
SV20D (16 Aug 2021) – PID = 949 ppb
Counts
x10^5
4.178 Vinyl Chloride
5.369 Acetone
7.136 trans-1,2-Dichloroethene
8.183 cis-1,2-Dichloroethene
9.916 Cyclohexane
10.603 Trichloroethene
12.313 Toluene
13.371 Tetrachloroethene
14.544 m,p-Xylenes
15.527 p-Bromofluorobenzene
15.667 Isopropylbenzene
17.353 Benzyl chloride
20.452 Naphthalene
Acquisition Time (min)

August 2021 Soil Vapor Samples

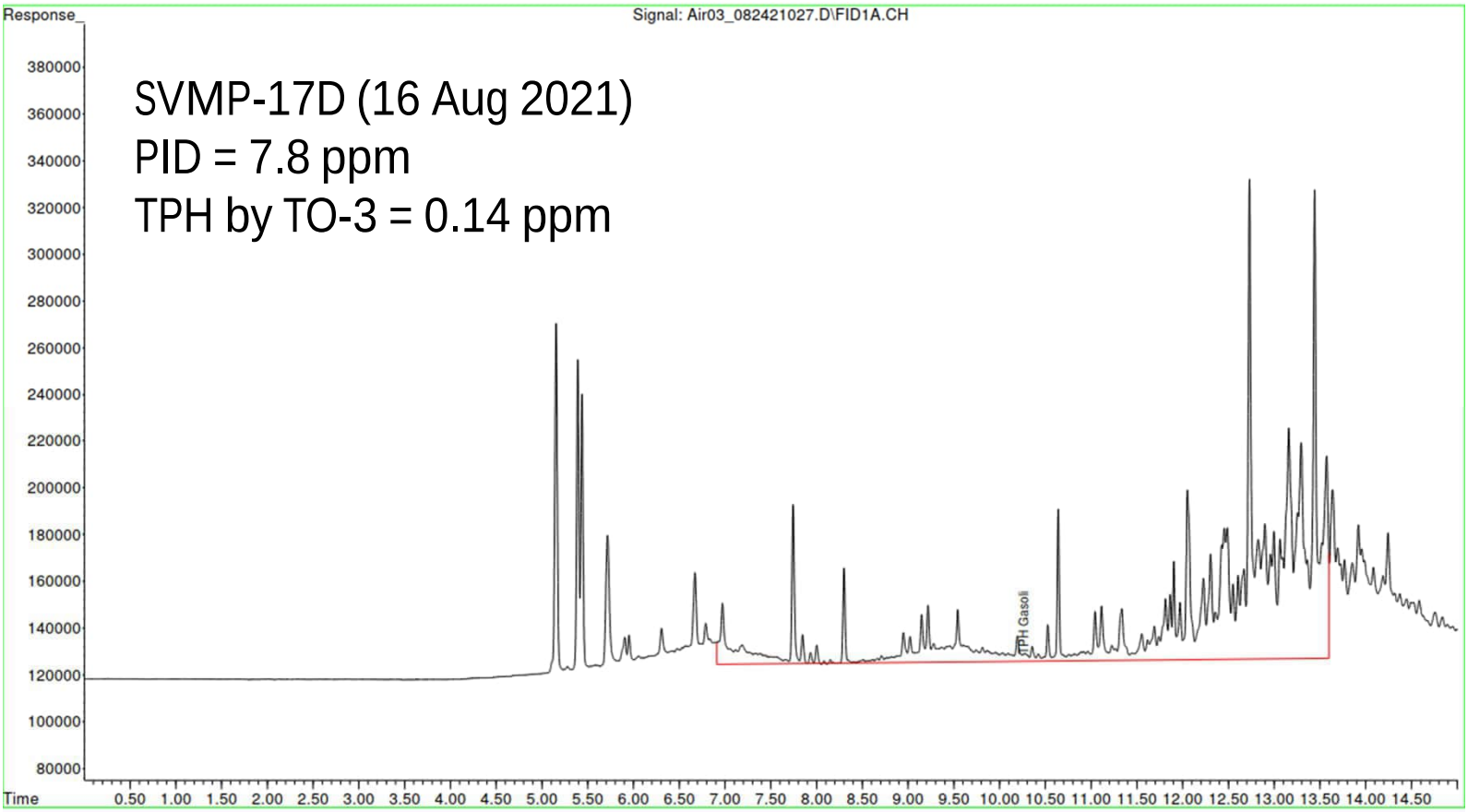
FID Chromatograms


Response_
Signal: Air03_082421018.D\FID1A.CH
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SVMP-15S (16 Aug 2021)
PID = 0.034 ppm
TPH by TO-3 = 0.065 ppm

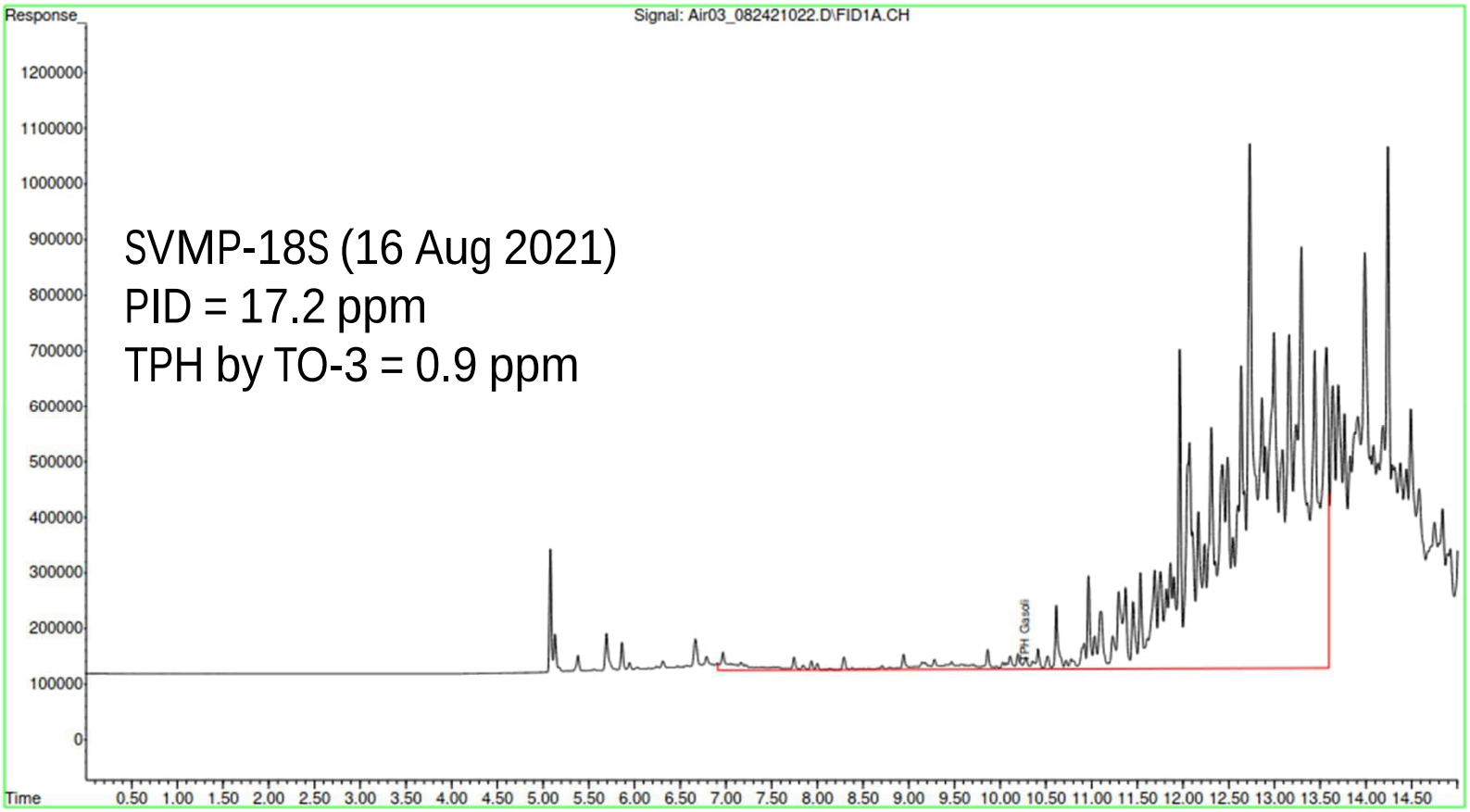

Response
Signal: Air03_082421026.D\FID1A.CH
220000
210000
200000
190000
180000
170000
160000
150000
140000
130000
120000
110000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SVMP-15D (16 Aug 2021)
PID = 0.031 ppm
TPH by TO-3 = < 0.050 ppm



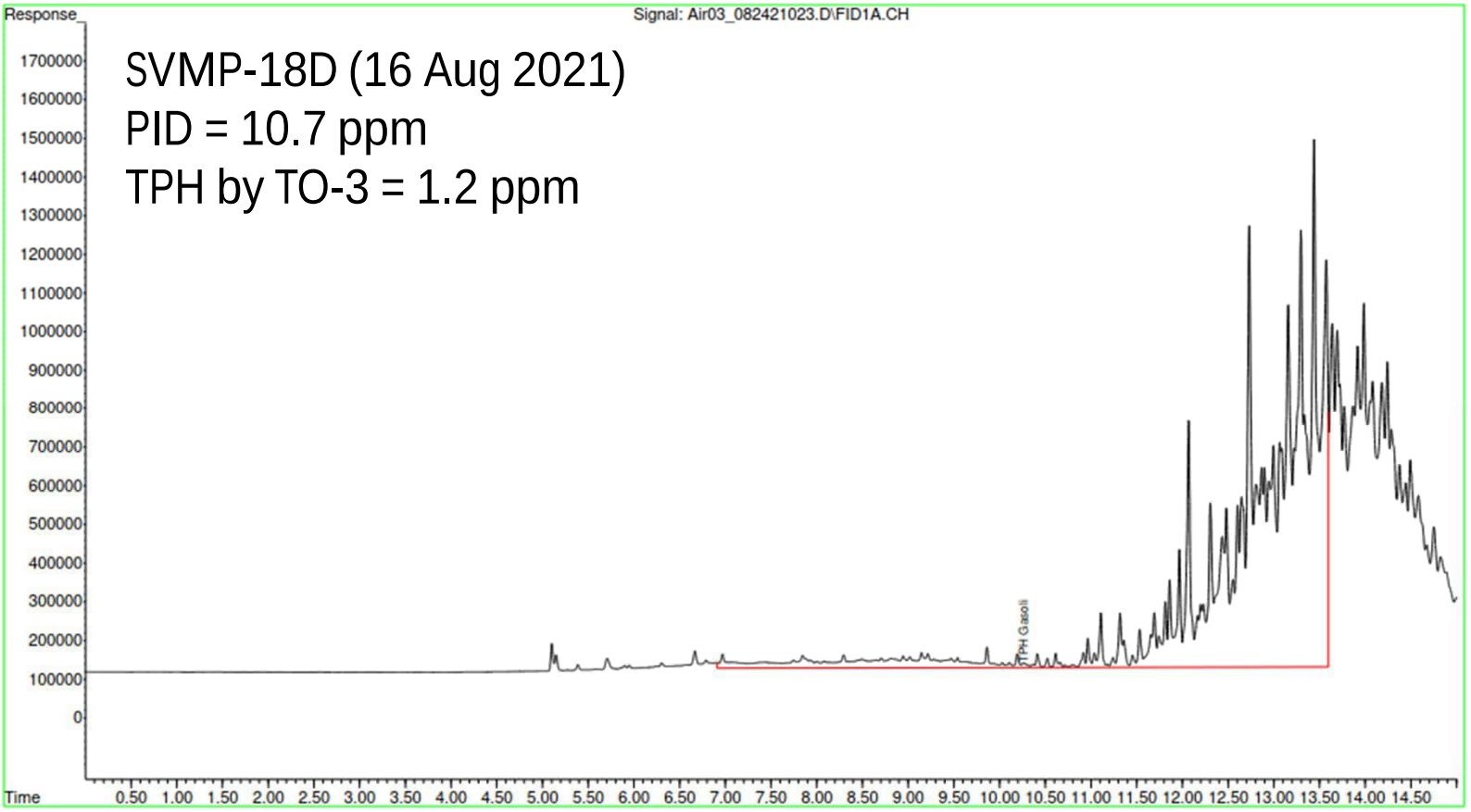
SVMP-17S (16 Aug 2021)
PID = 110 ppm
TPH by TO-3 = 32 ppm



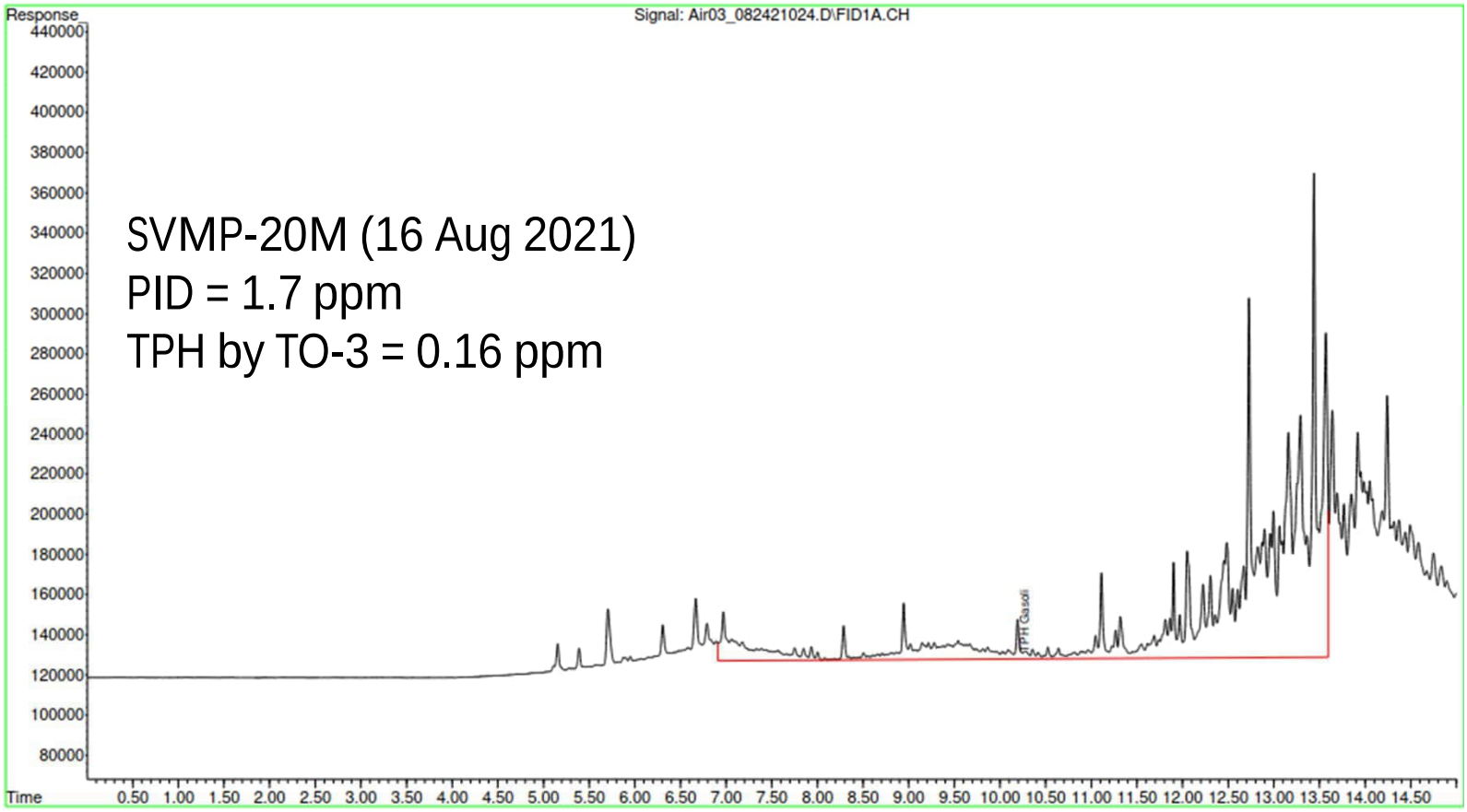
SVMP-17D (16 Aug 2021)
PID = 7.8 ppm
TPH by TO-3 = 0.14 ppm

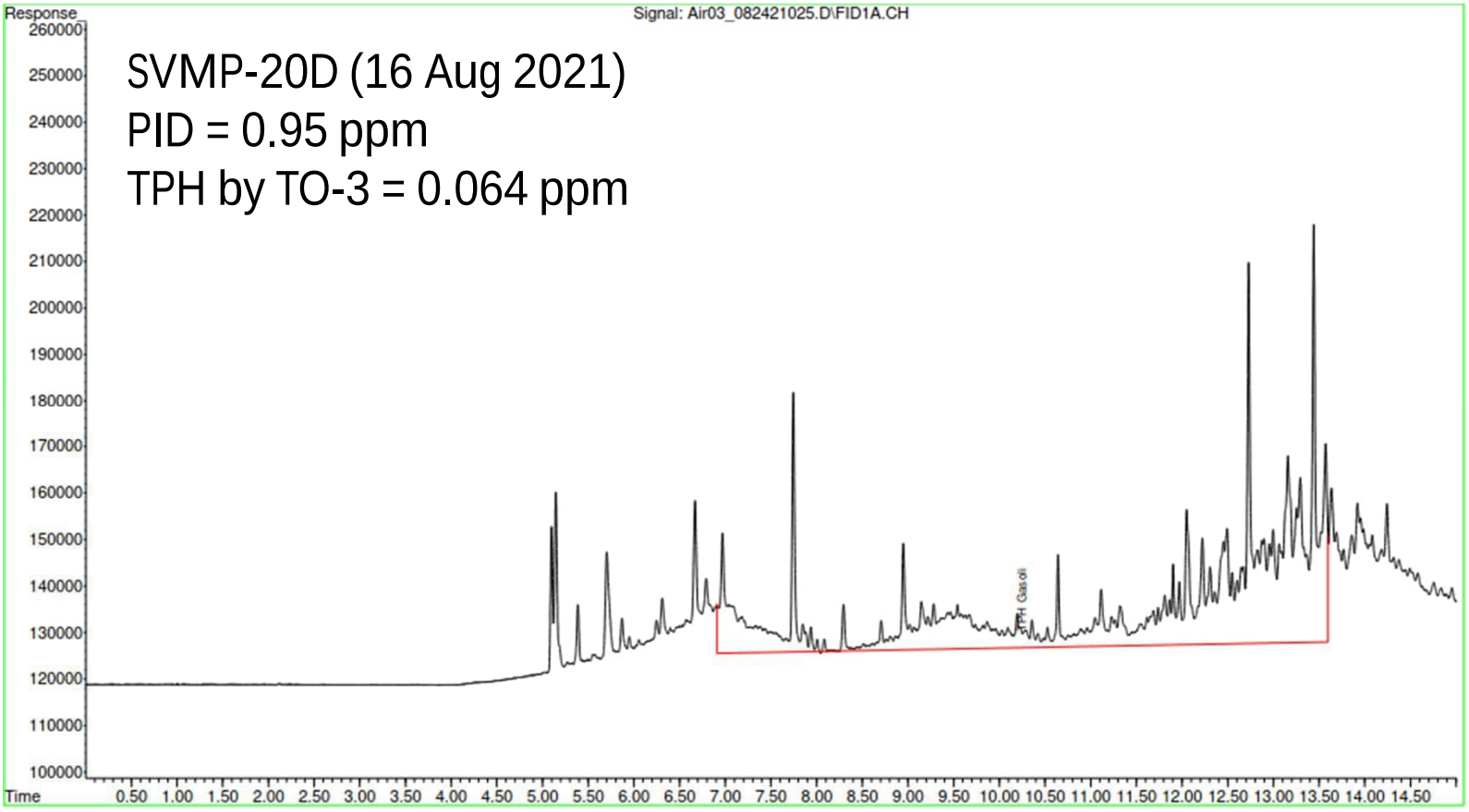


SVMP-18S (16 Aug 2021)
PID = 17.2 ppm
TPH by TO-3 = 0.9 ppm



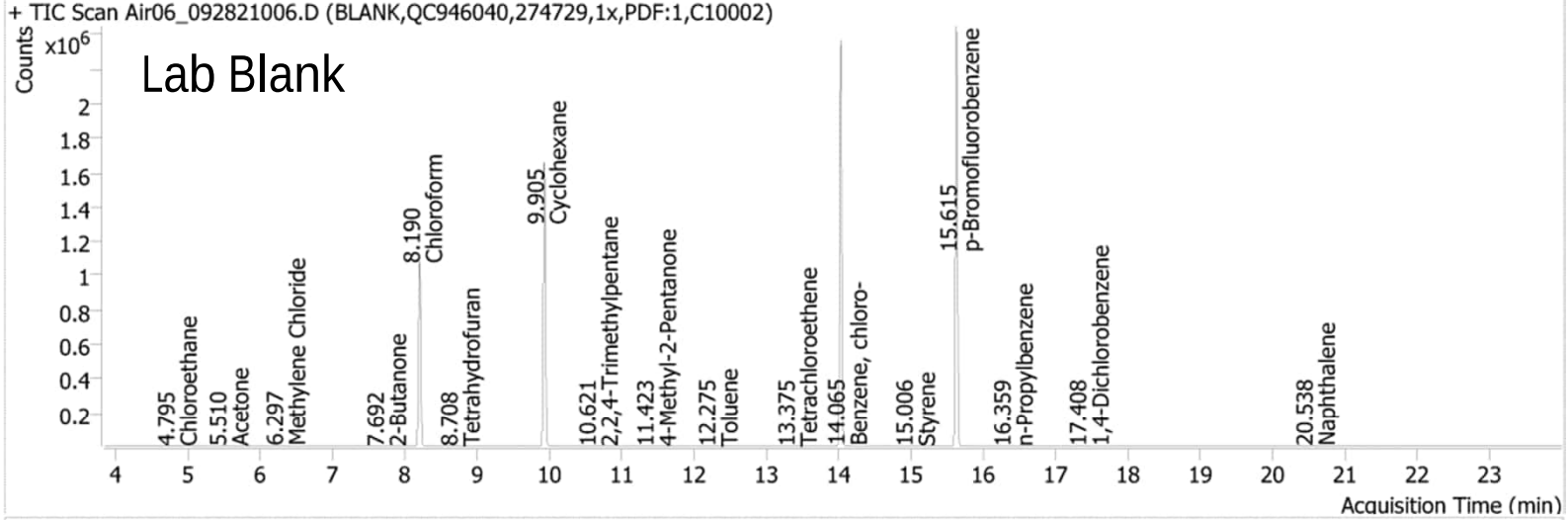
SVMP-18D (16 Aug 2021)
PID = 10.7 ppm
TPH by TO-3 = 1.2 ppm

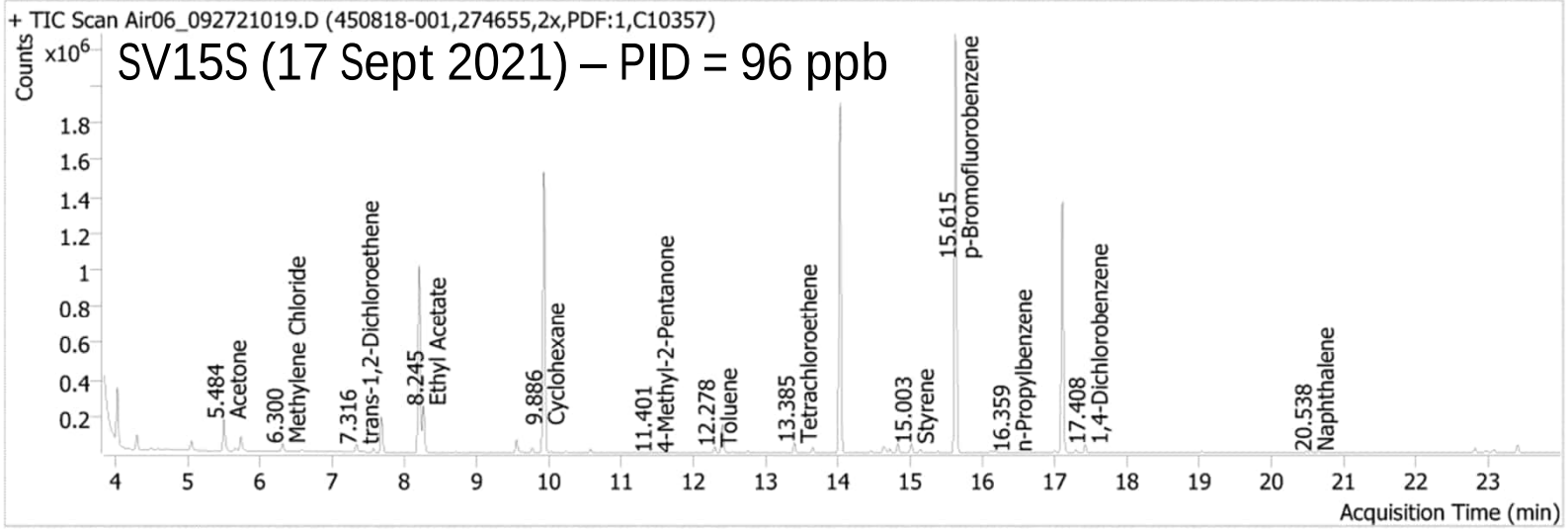

Response
Signal: Air03_082421024.D\FID1A.CH
SVMP-20M (16 Aug 2021)
PID = 1.7 ppm
TPH by TO-3 = 0.16 ppm
TPH Gasoli
Time

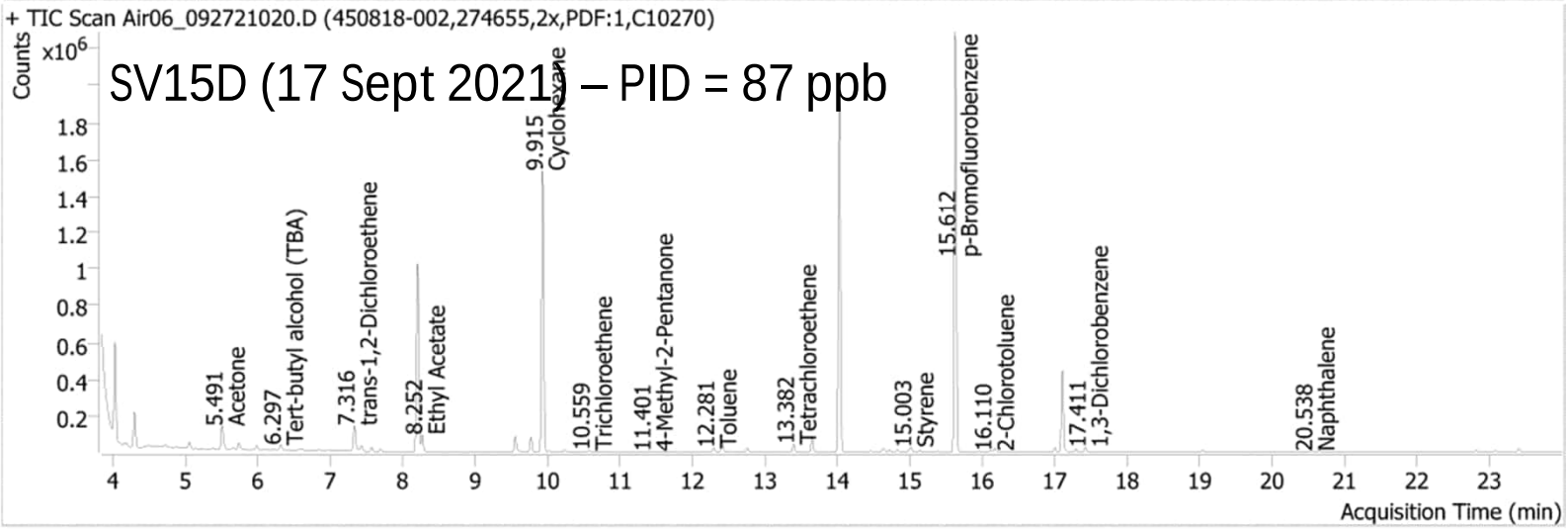

Response
Signal: Air03_082421025.D\FID1A.CH
SVMP-20D (16 Aug 2021)
PID = 0.95 ppm
TPH by TO-3 = 0.064 ppm
TPH Gasoli
Time

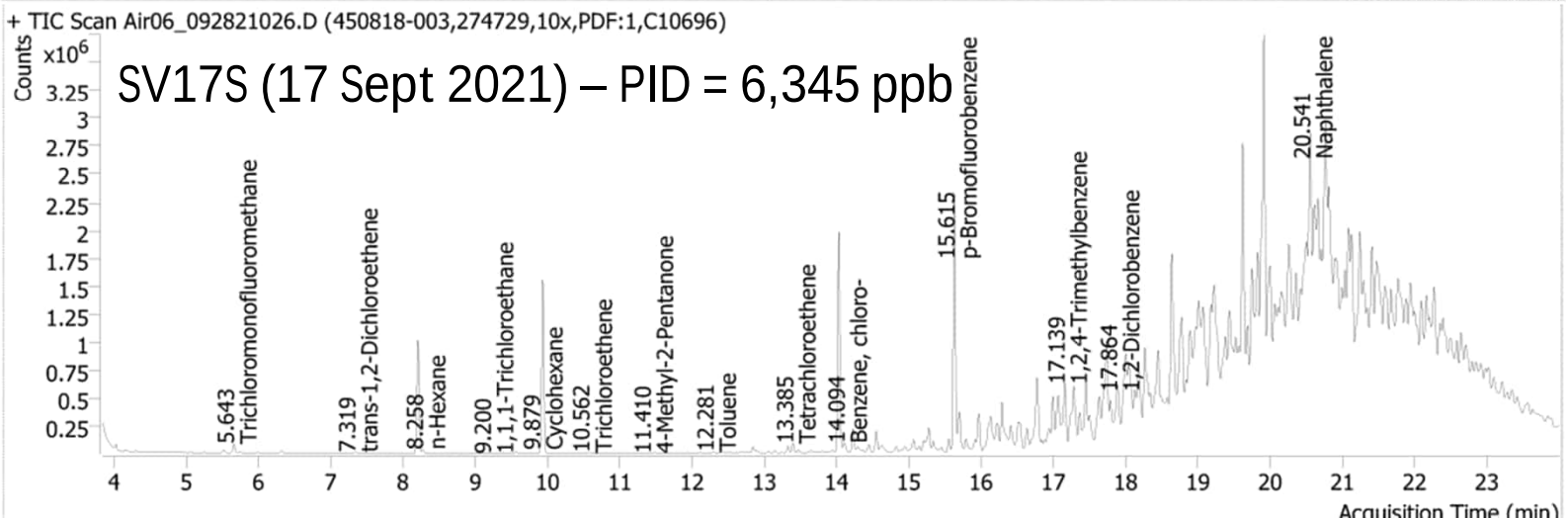
September 2021
Soil Vapor Samples

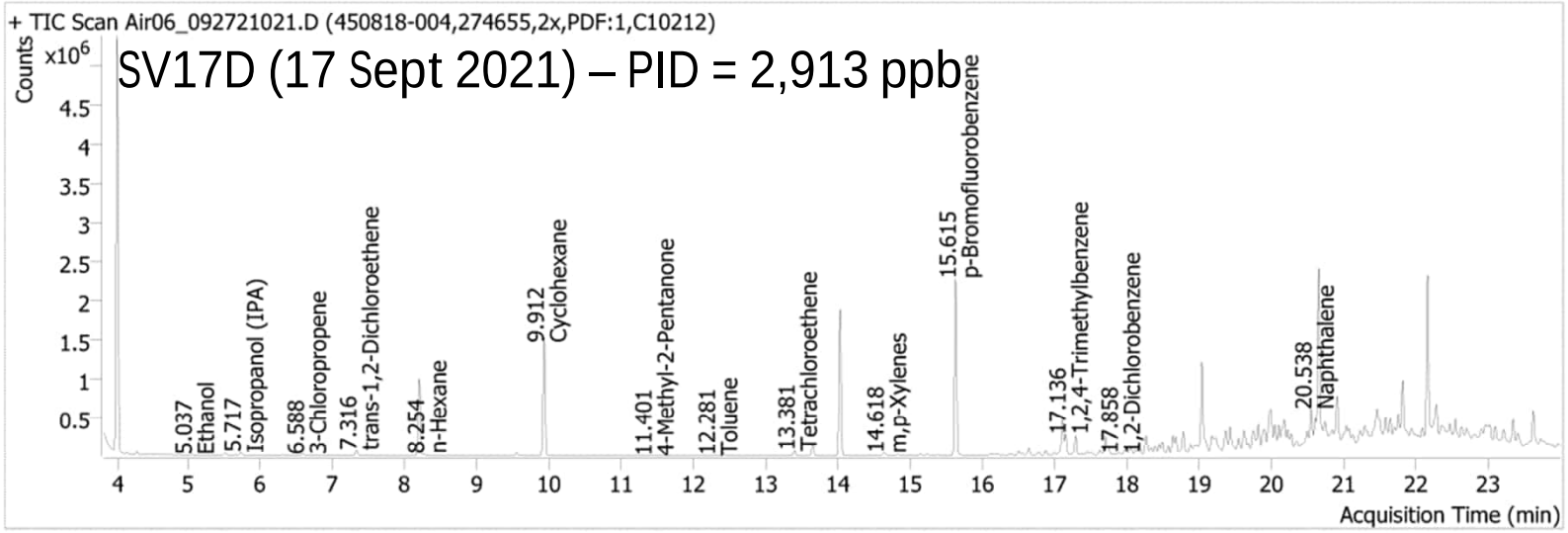
Mass Spec Chromatograms

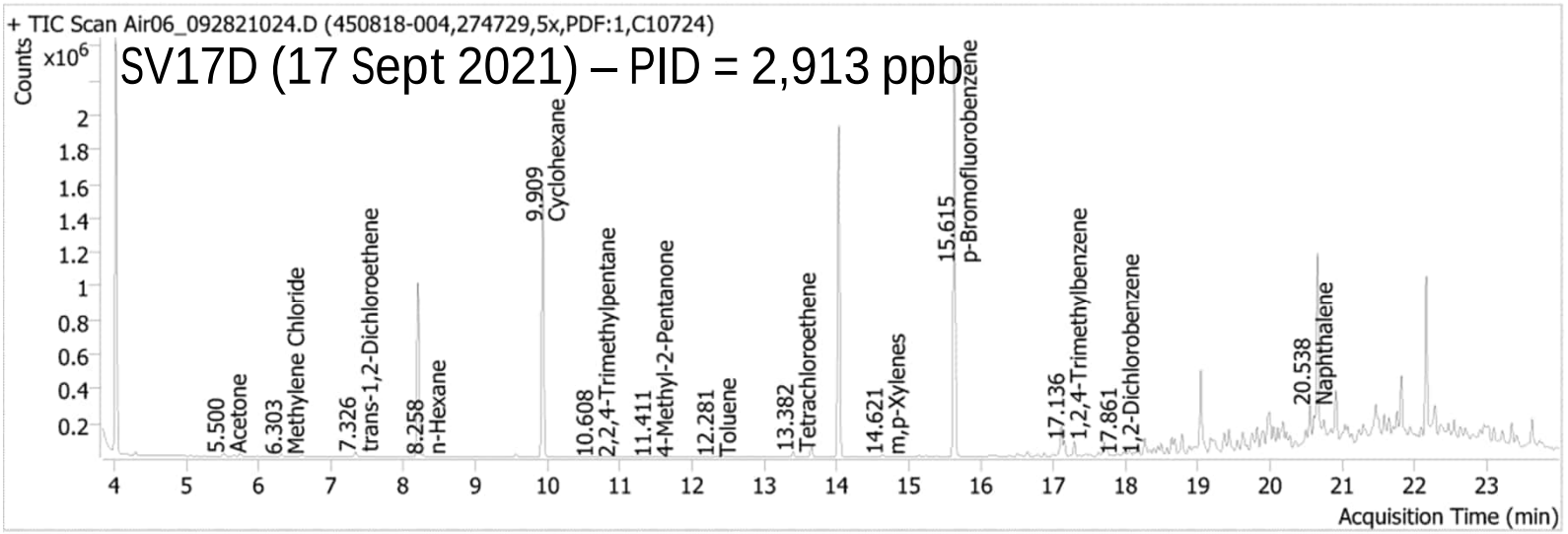

+ TIC Scan Air06_092821006.D (BLANK,QC946040,274729,1x,PDF:1,C10002)
Lab Blank
Counts
x10^6
4.795 Chloroethane
5.510 Acetone
6.297 Methylene Chloride
7.692 2-Butanone
8.190 Chloroform
8.708 Tetrahydrofuran
9.905 Cyclohexane
10.621 2,2,4-Trimethylpentane
11.423 4-Methyl-2-Pentanone
12.275 Toluene
13.375 Tetrachloroethene
14.065 Benzene, chloro-
15.006 Styrene
15.615 p-Bromofluorobenzene
16.359 n-Propylbenzene
17.408 1,4-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

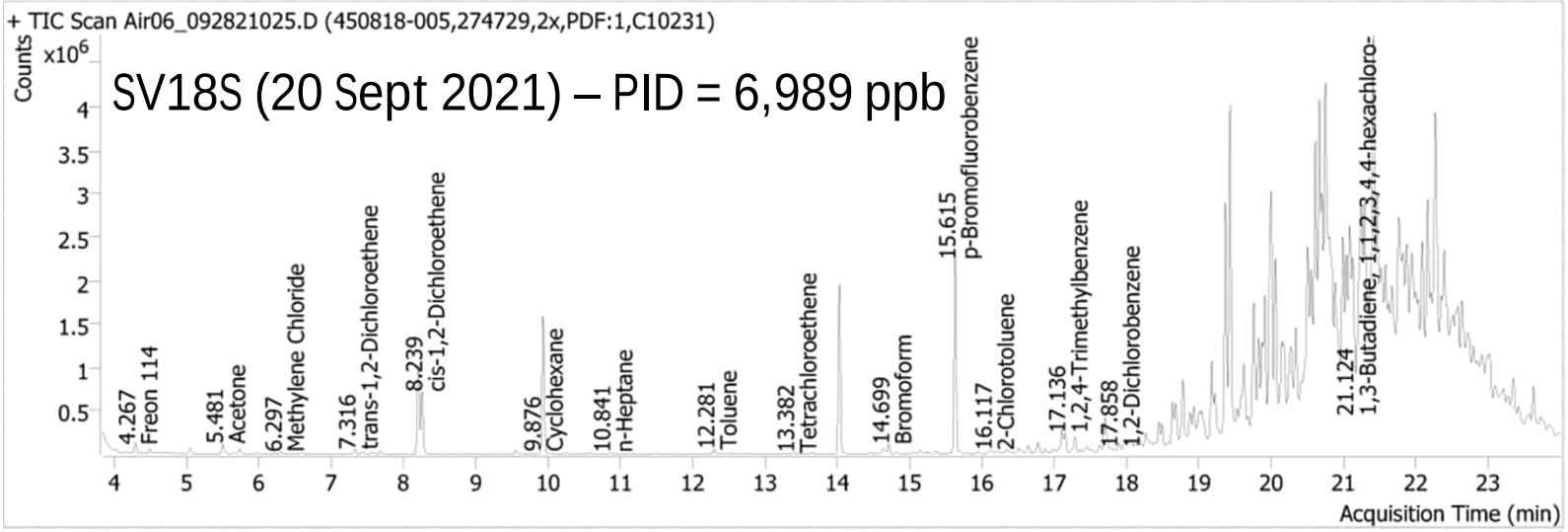

+ TIC Scan Air06_092721019.D (450818-001,274655,2x,PDF:1,C10357)
SV15S (17 Sept 2021) – PID = 96 ppb
Counts
x10^6
5.484 Acetone
6.300 Methylene Chloride
7.316 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.886 Cyclohexane
11.401 4-Methyl-2-Pentanone
12.278 Toluene
13.385 Tetrachloroethene
15.003 Styrene
15.615 p-Bromofluorobenzene
16.359 n-Propylbenzene
17.408 1,4-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

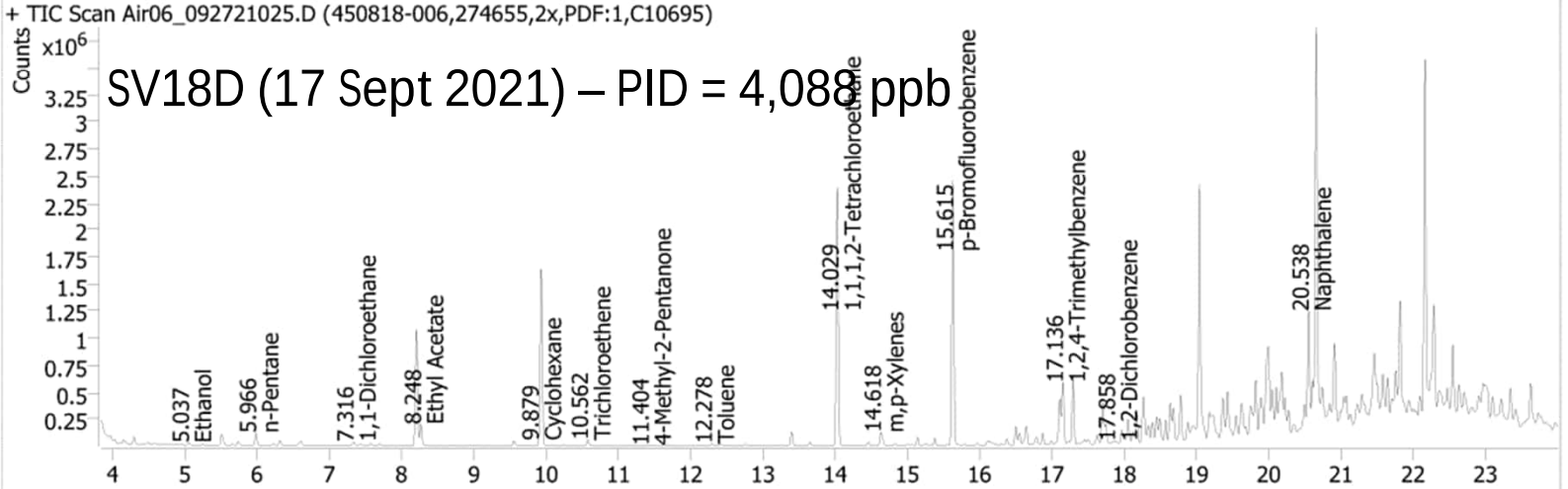

+ TIC Scan Air06_092721020.D (450818-002,274655,2x,PDF:1,C10270)
SV15D (17 Sept 2021) – PID = 87 ppb
Counts
x10^6
5.491 Acetone
6.297 Tert-butyl alcohol (TBA)
7.316 trans-1,2-Dichloroethene
8.252 Ethyl Acetate
9.915 Cyclohexane
10.559 Trichloroethene
11.401 4-Methyl-2-Pentanone
12.281 Toluene
13.382 Tetrachloroethene
15.003 Styrene
15.612 p-Bromofluorobenzene
16.110 2-Chlorotoluene
17.411 1,3-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

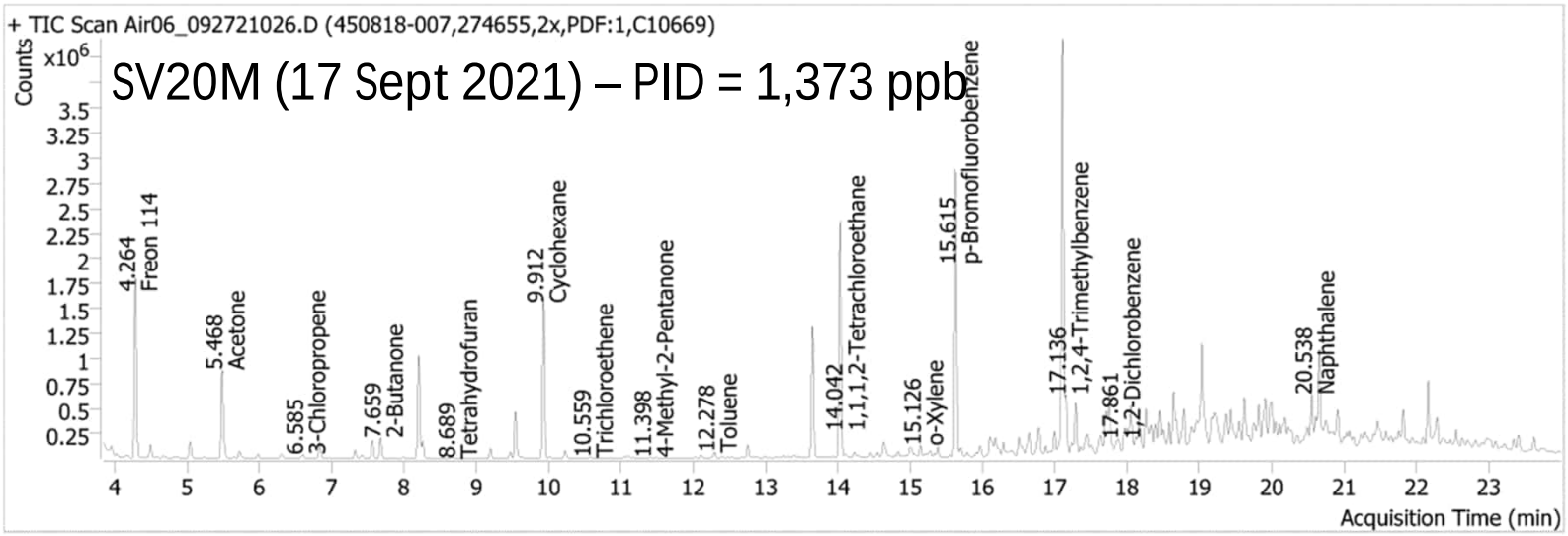

+ TIC Scan Air06_092821026.D (450818-003,274729,10x,PDF:1,C10696)
SV17S (17 Sept 2021) – PID = 6,345 ppb
Counts
x10^6
5.643 Trichloromonofluoromethane
7.319 trans-1,2-Dichloroethene
8.258 n-Hexane
9.200 1,1,1-Trichloroethane
9.879 Cyclohexane
10.562 Trichloroethene
11.410 4-Methyl-2-Pentanone
12.281 Toluene
13.385 Tetrachloroethene
14.094 Benzene, chloro-
15.615 p-Bromofluorobenzene
17.139 1,2,4-Trimethylbenzene
17.864 1,2-Dichlorobenzene
20.541 Naphthalene
Acquisition Time (min)

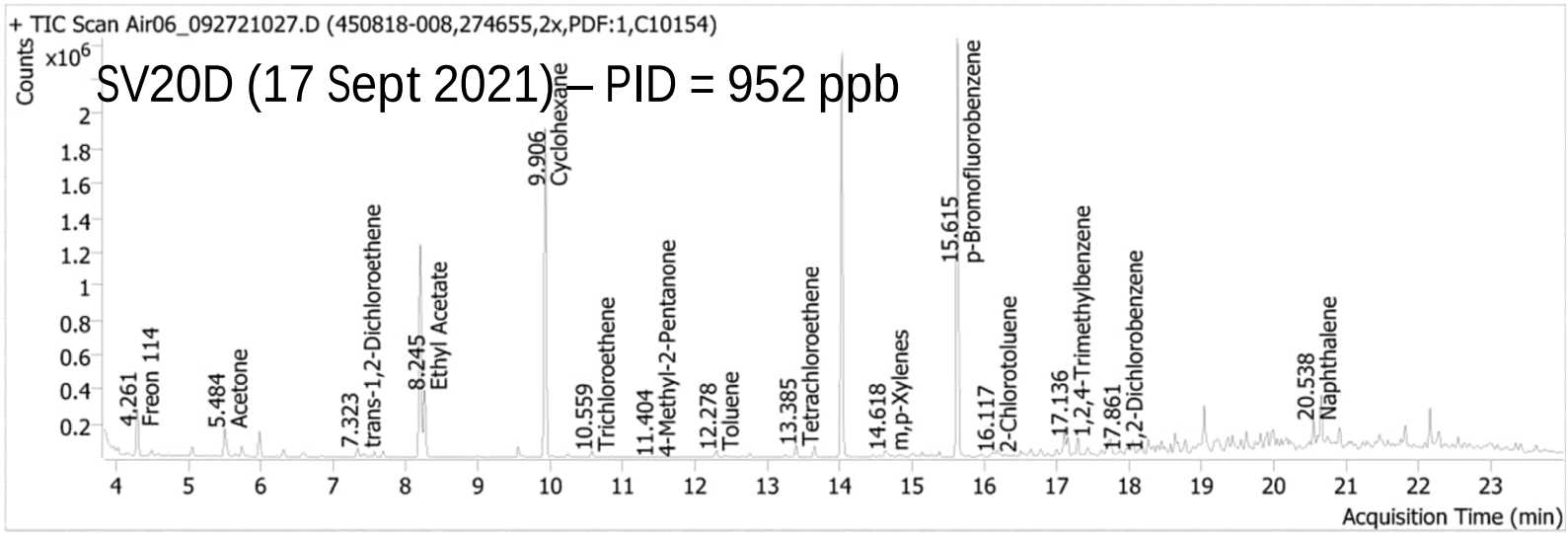

+ TIC Scan Air06_092721021.D (450818-004,274655,2x,PDF:1,C10212)
SV17D (17 Sept 2021) – PID = 2,913 ppb
Counts
x10^6
5.037 Ethanol
5.717 Isopropanol (IPA)
6.588 3-Chloropropene
7.316 trans-1,2-Dichloroethene
8.254 n-Hexane
9.912 Cyclohexane
11.401 4-Methyl-2-Pentanone
12.281 Toluene
13.381 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_092821024.D (450818-004,274729,5x,PDF:1,C10724)
SV17D (17 Sept 2021) – PID = 2,913 ppb
Counts
x10^6
5.500 Acetone
6.303 Methylene Chloride
7.326 trans-1,2-Dichloroethene
8.258 n-Hexane
9.909 Cyclohexane
10.608 2,2,4-Trimethylpentane
11.411 4-Methyl-2-Pentanone
12.281 Toluene
13.382 Tetrachloroethene
14.621 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_092821025.D (450818-005,274729,2x,PDF:1,C10231)
SV18S (20 Sept 2021) – PID = 6,989 ppb
Counts
x10^6
4.267 Freon 114
5.481 Acetone
6.297 Methylene Chloride
7.316 trans-1,2-Dichloroethene
8.239 cis-1,2-Dichloroethene
9.876 Cyclohexane
10.841 n-Heptane
12.281 Toluene
13.382 Tetrachloroethene
14.699 Bromoform
15.615 p-Bromofluorobenzene
16.117 2-Chlorotoluene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
21.124 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

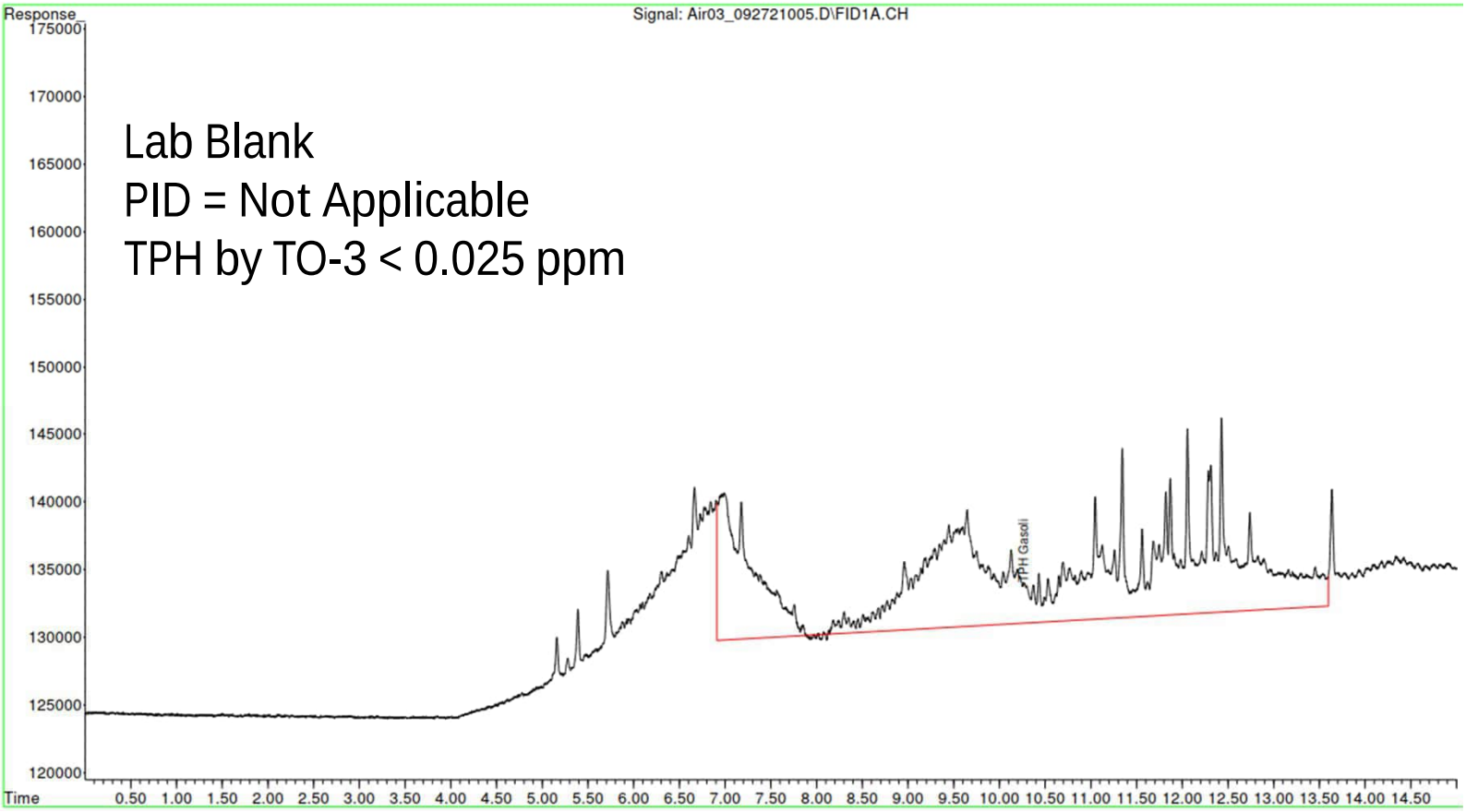

+ TIC Scan Air06_092721025.D (450818-006,274655,2x,PDF:1,C10695)
SV18D (17 Sept 2021) – PID = 4,088 ppb
Counts
x10^6
5.037 Ethanol
5.966 n-Pentane
7.316 1,1-Dichloroethane
8.248 Ethyl Acetate
9.879 Cyclohexane
10.562 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.278 Toluene
14.029 1,1,1,2-Tetrachloroethane
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.538 Naphthalene

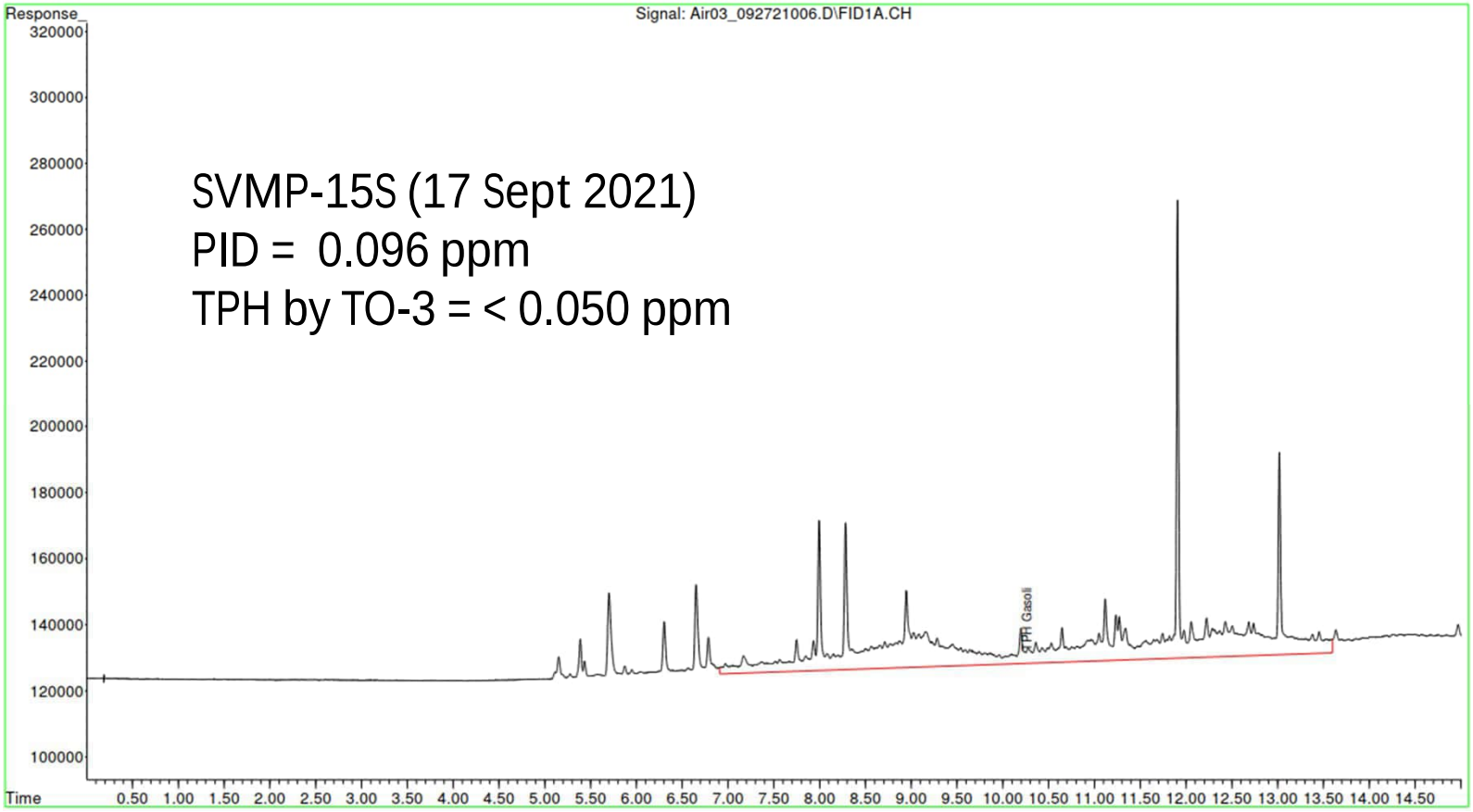

+ TIC Scan Air06_092721026.D (450818-007,274655,2x,PDF:1,C10669)
SV20M (17 Sept 2021) – PID = 1,373 ppb
Counts
x10^6
4.264 Freon 114
5.468 Acetone
6.585 3-Chloropropene
7.659 2-Butanone
8.689 Tetrahydrofuran
9.912 Cyclohexane
10.559 Trichloroethene
11.398 4-Methyl-2-Pentanone
12.278 Toluene
14.042 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

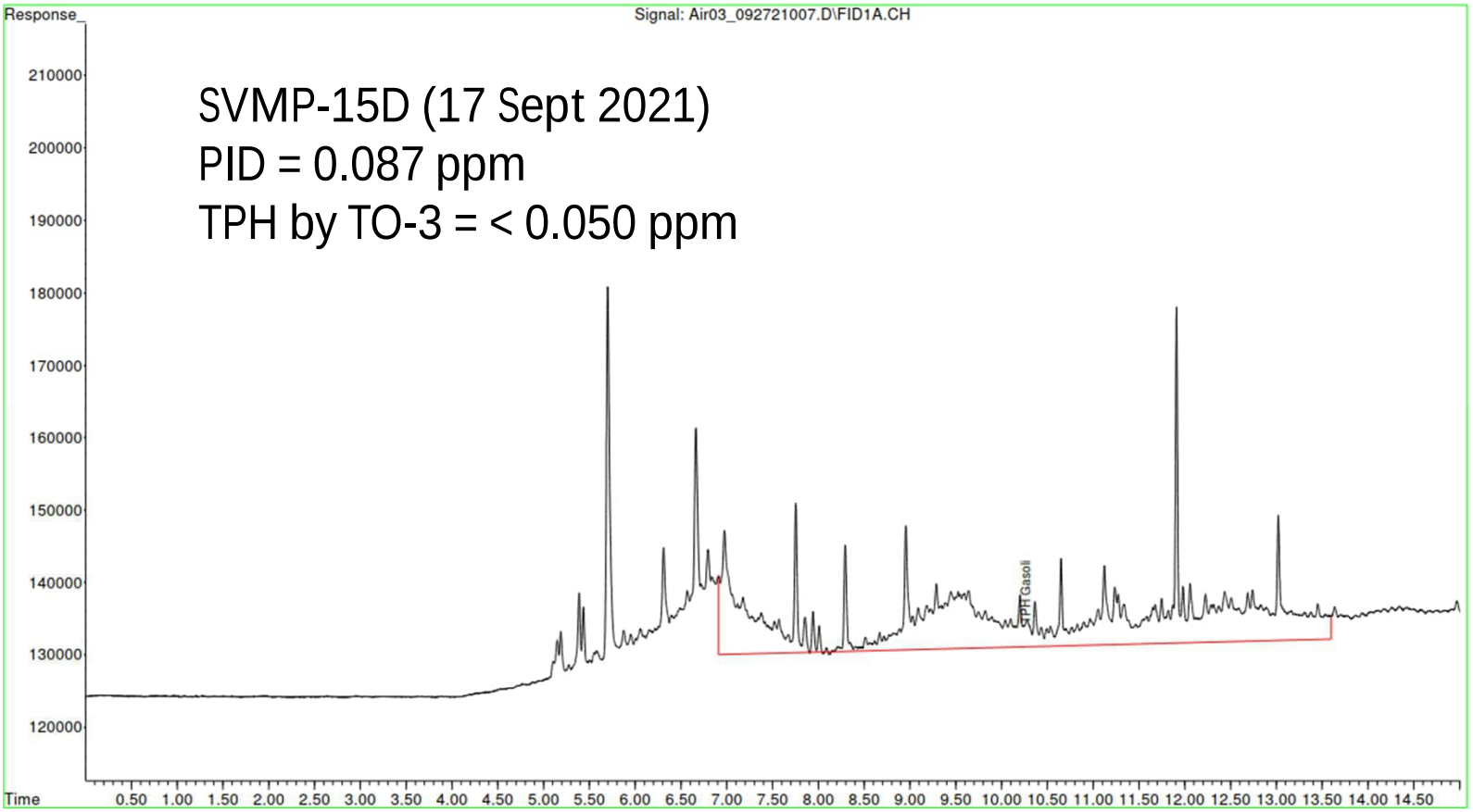

+ TIC Scan Air06_092721027.D (450818-008,274655,2x,PDF:1,C10154)
SV20D (17 Sept 2021) – PID = 952 ppb
Counts
x10^6
4.261 Freon 114
5.484 Acetone
7.323 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.906 Cyclohexane
10.559 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.278 Toluene
13.385 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
16.117 2-Chlorotoluene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

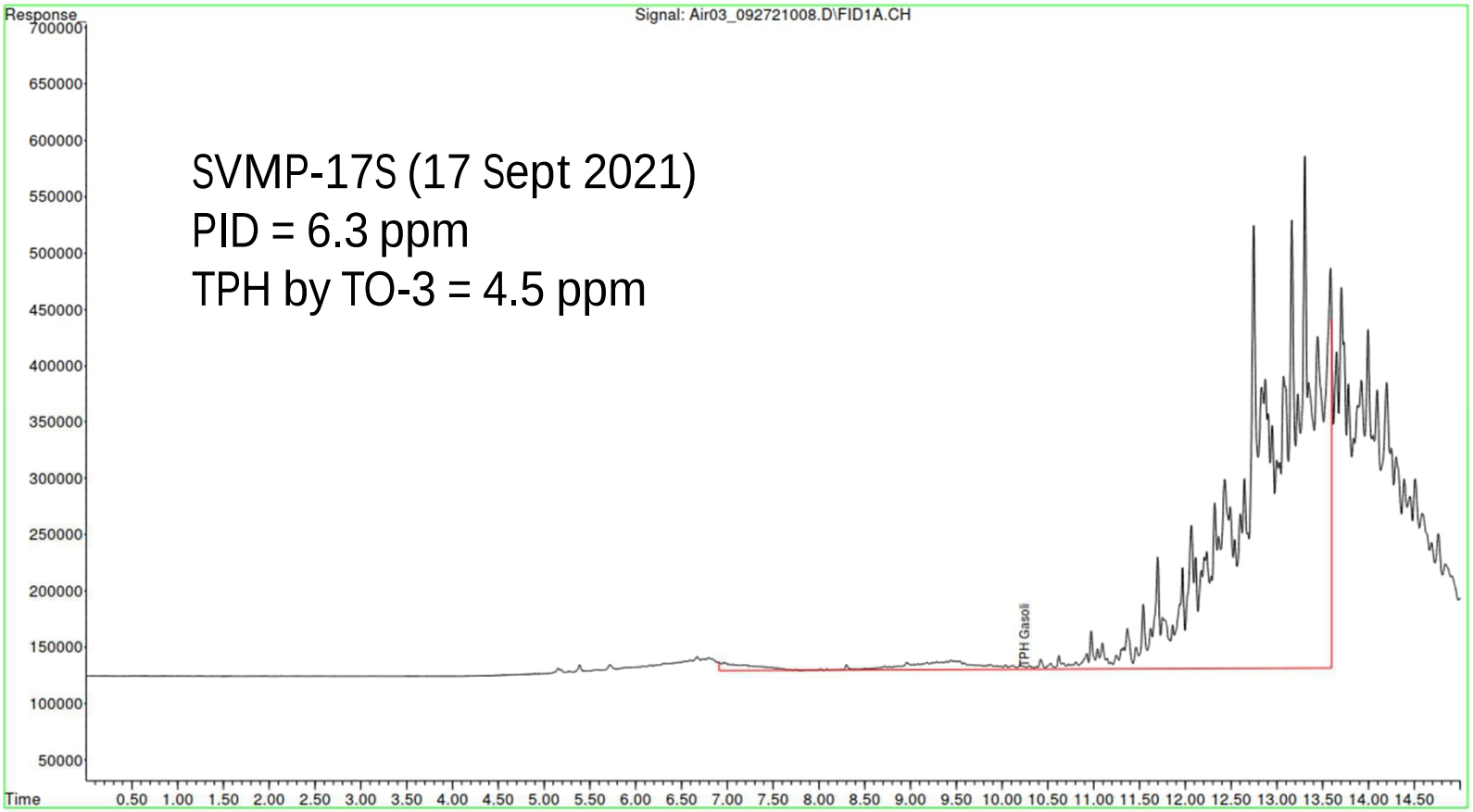
September 2021
Soil Vapor Samples

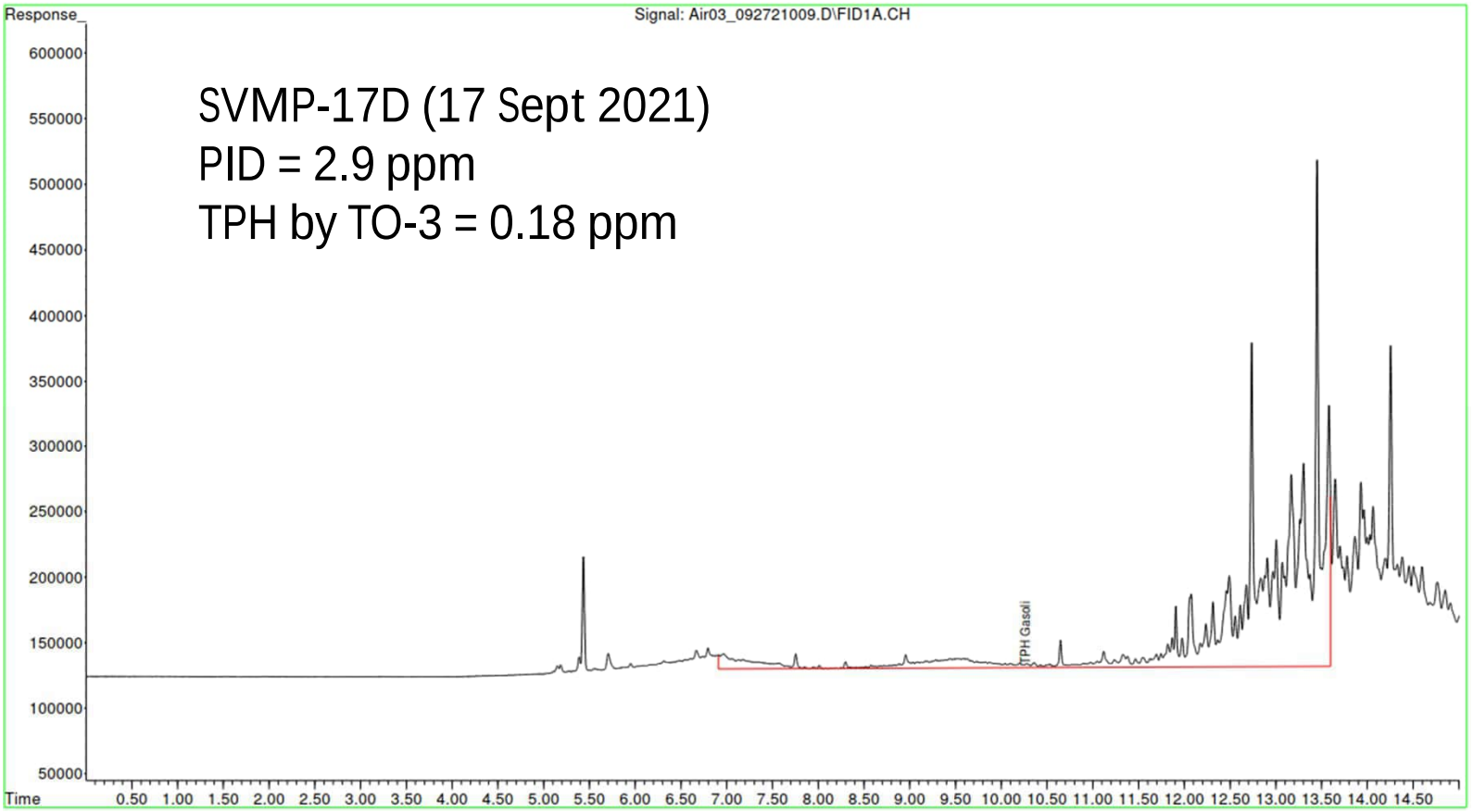
FID Chromatograms

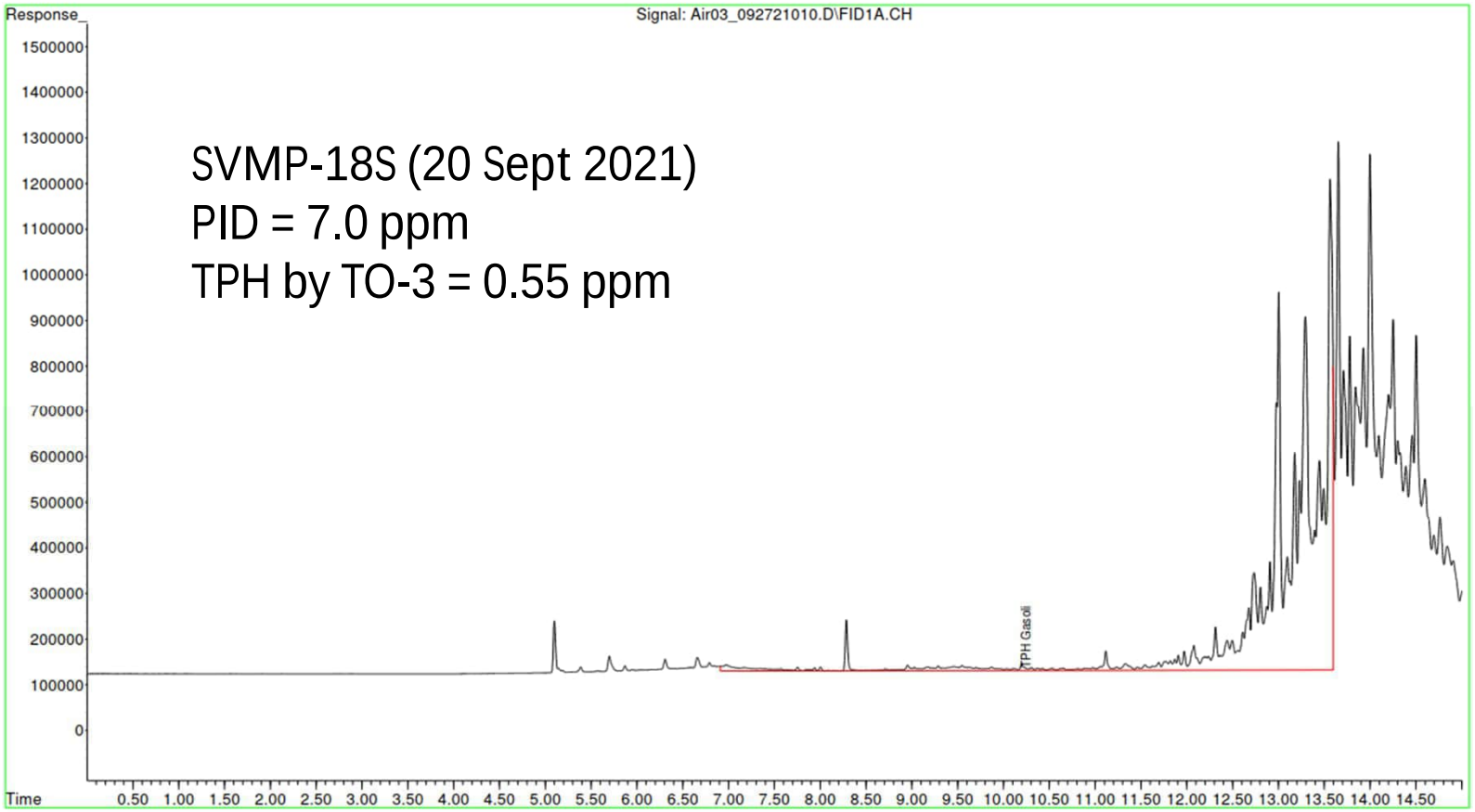

Response
Signal: Air03_092721005.D\FID1A.CH
175000
170000
165000
160000
155000
150000
145000
140000
135000
130000
125000
120000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm


Response_
Signal: Air03_092721006.D\FID1A.CH
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SVMP-15S (17 Sept 2021)
PID = 0.096 ppm
TPH by TO-3 = < 0.050 ppm

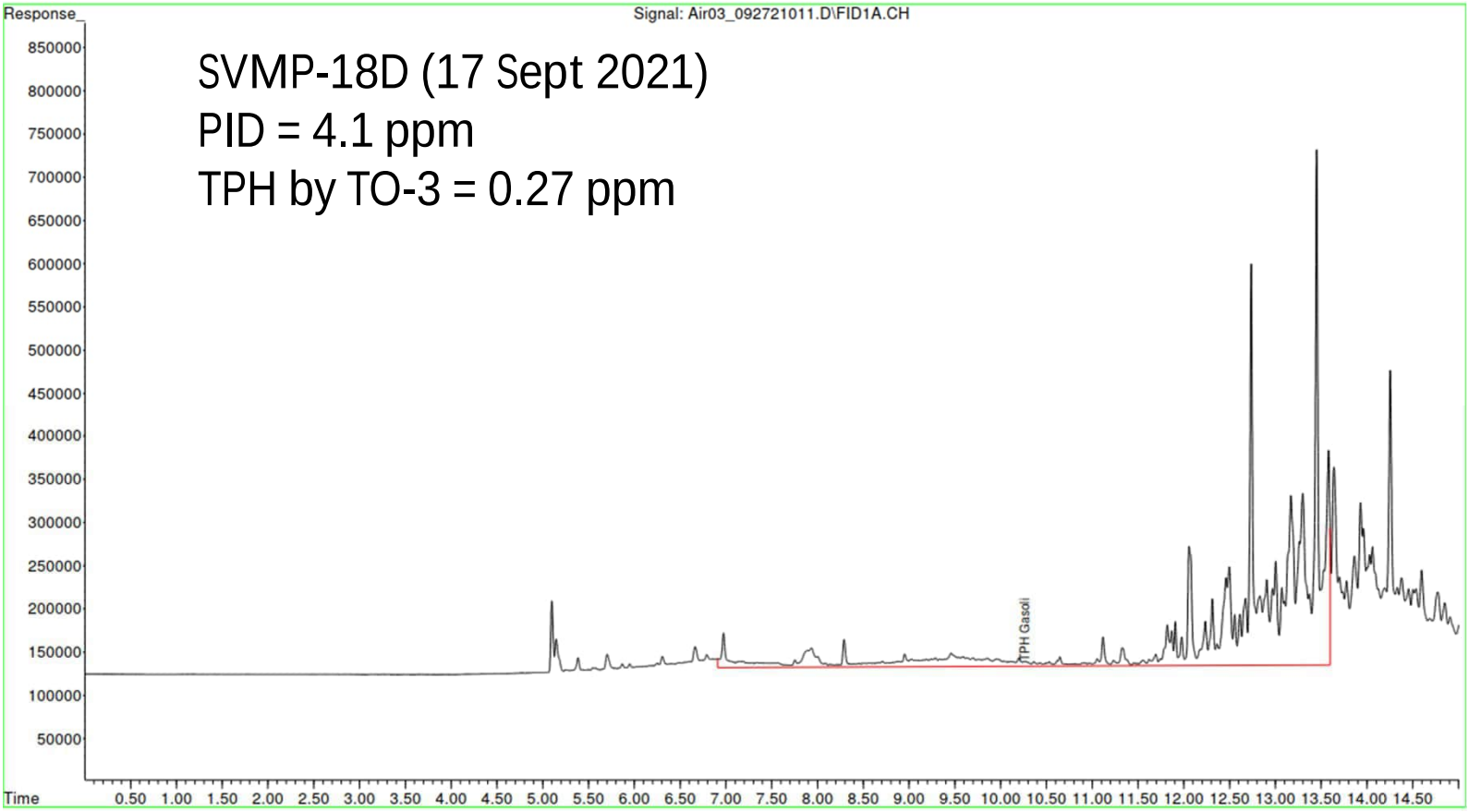

Response_
Signal: Air03_092721007.D\FID1A.CH
210000
200000
190000
180000
170000
160000
150000
140000
130000
120000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SVMP-15D (17 Sept 2021)
PID = 0.087 ppm
TPH by TO-3 = < 0.050 ppm


Response_
Signal: Air03_092721008.D\FID1A.CH
SVMP-17S (17 Sept 2021)
PID = 6.3 ppm
TPH by TO-3 = 4.5 ppm
TPH Gasoli
Time

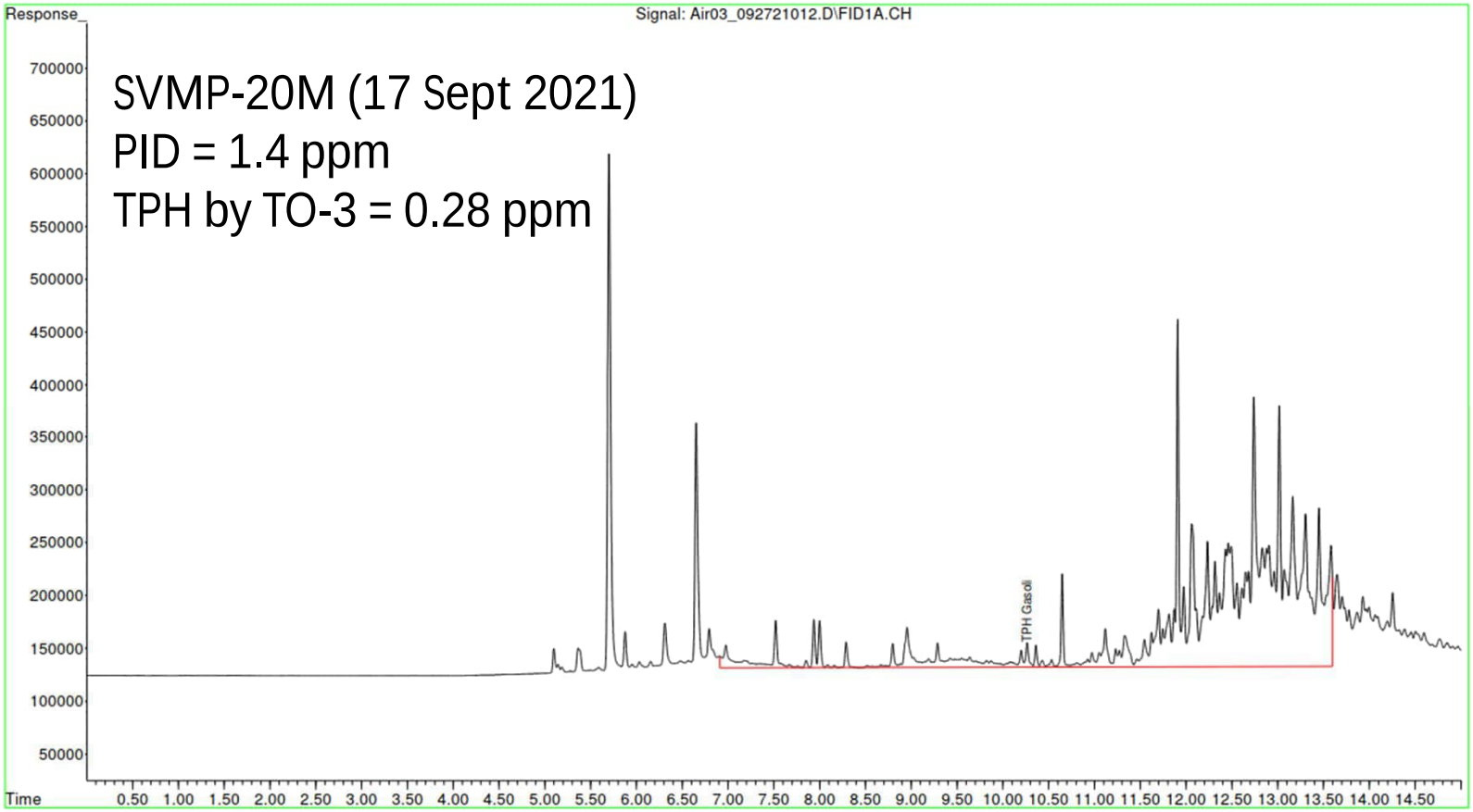

Response_
Signal: Air03_092721009.D\FID1A.CH
SVMP-17D (17 Sept 2021)
PID = 2.9 ppm
TPH by TO-3 = 0.18 ppm
TPH Gasoli
Time

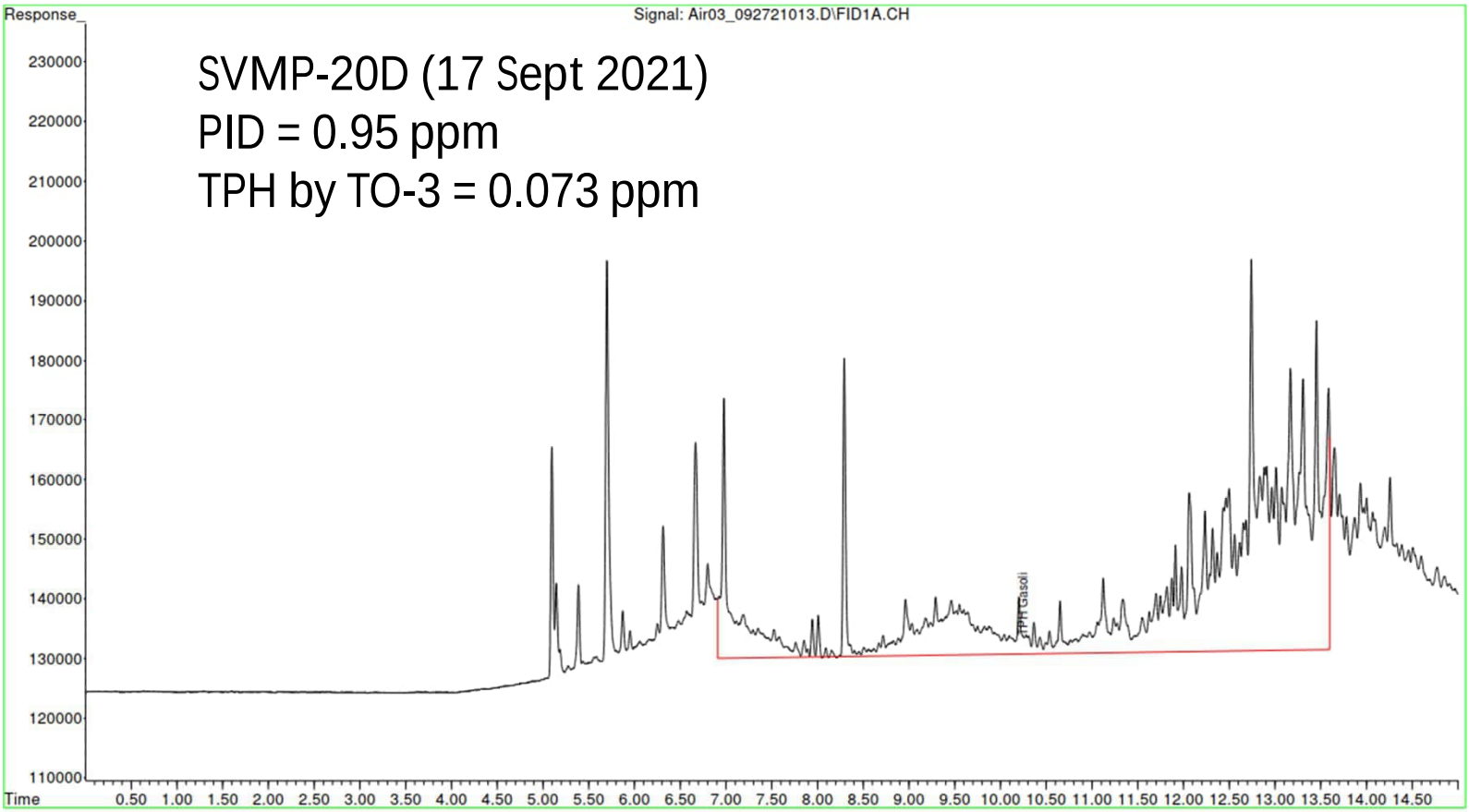


SVMP-18S (20 Sept 2021)
PID = 7.0 ppm
TPH by TO-3 = 0.55 ppm



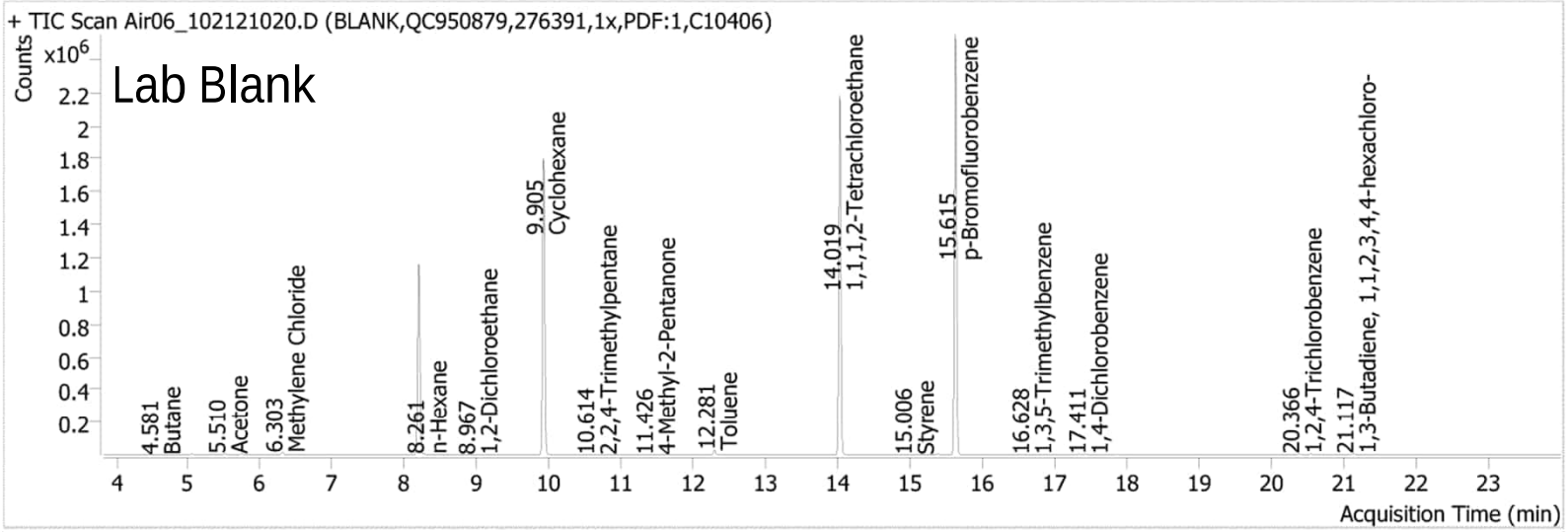
SVMP-18D (17 Sept 2021)
PID = 4.1 ppm
TPH by TO-3 = 0.27 ppm

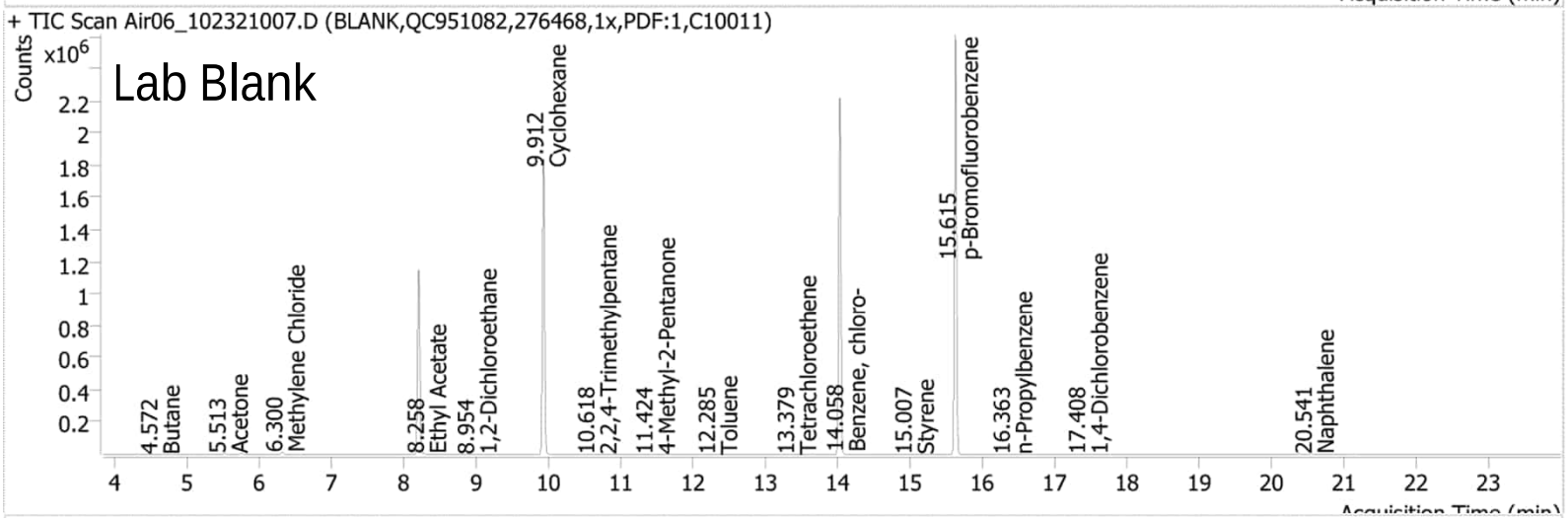

Response_
Signal: Air03_092721012.D\FID1A.CH
SVMP-20M (17 Sept 2021)
PID = 1.4 ppm
TPH by TO-3 = 0.28 ppm
TPH Gasoli
Time

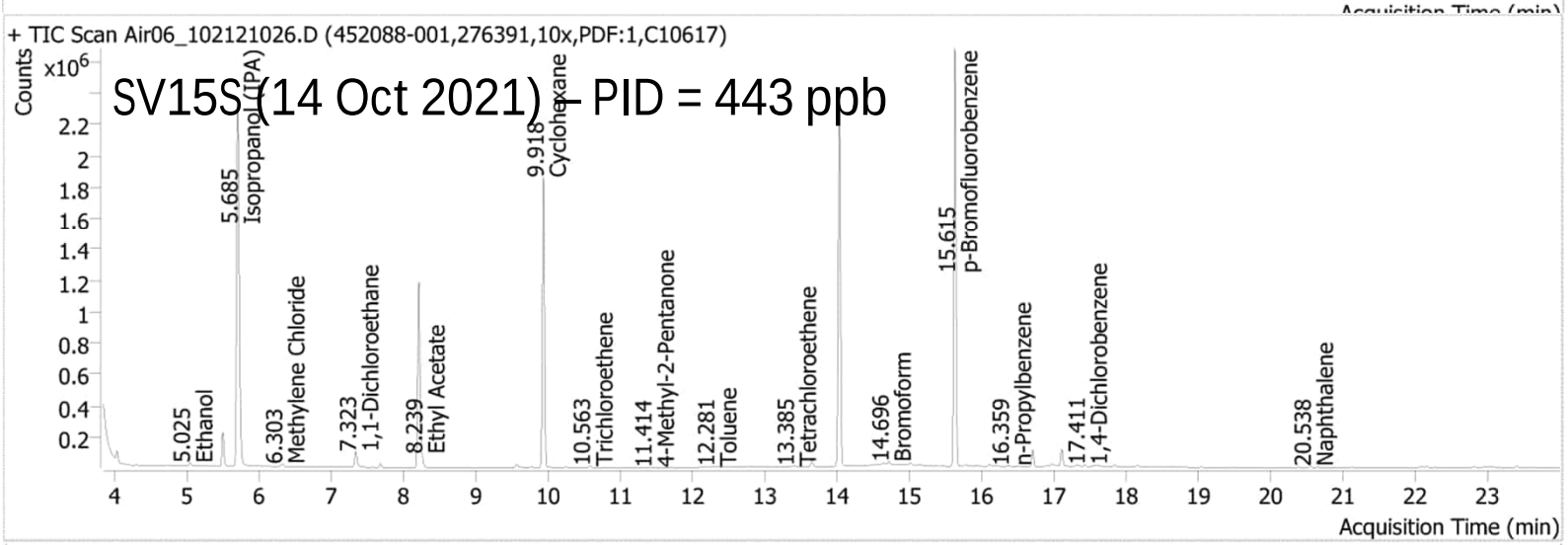

Response_
Signal: Air03_092721013.D\FID1A.CH
SVMP-20D (17 Sept 2021)
PID = 0.95 ppm
TPH by TO-3 = 0.073 ppm
TPH Gasoli
Time

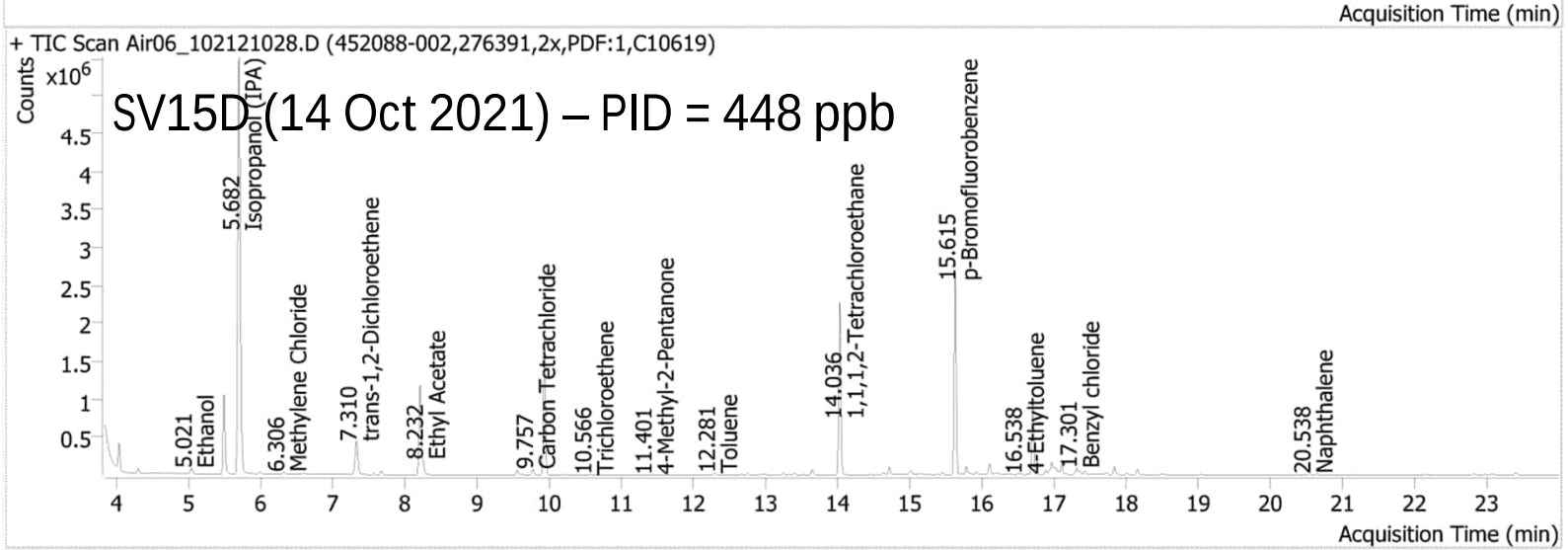
October 2021
Soil Vapor Samples

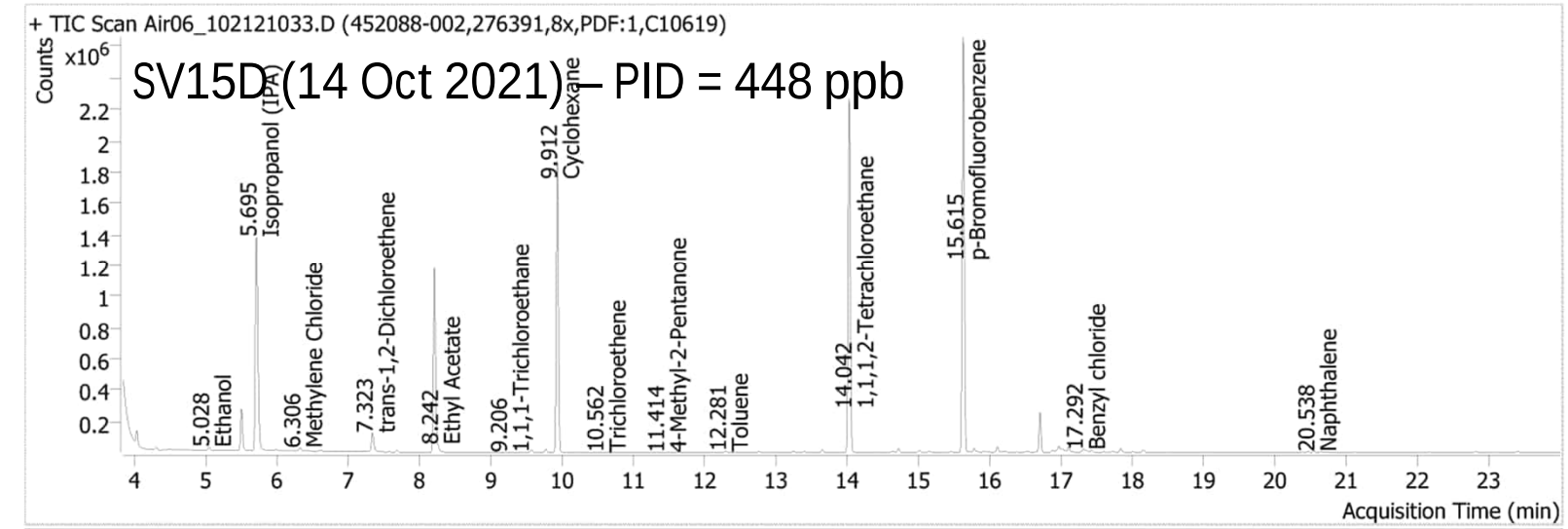
Mass Spec Chromatograms

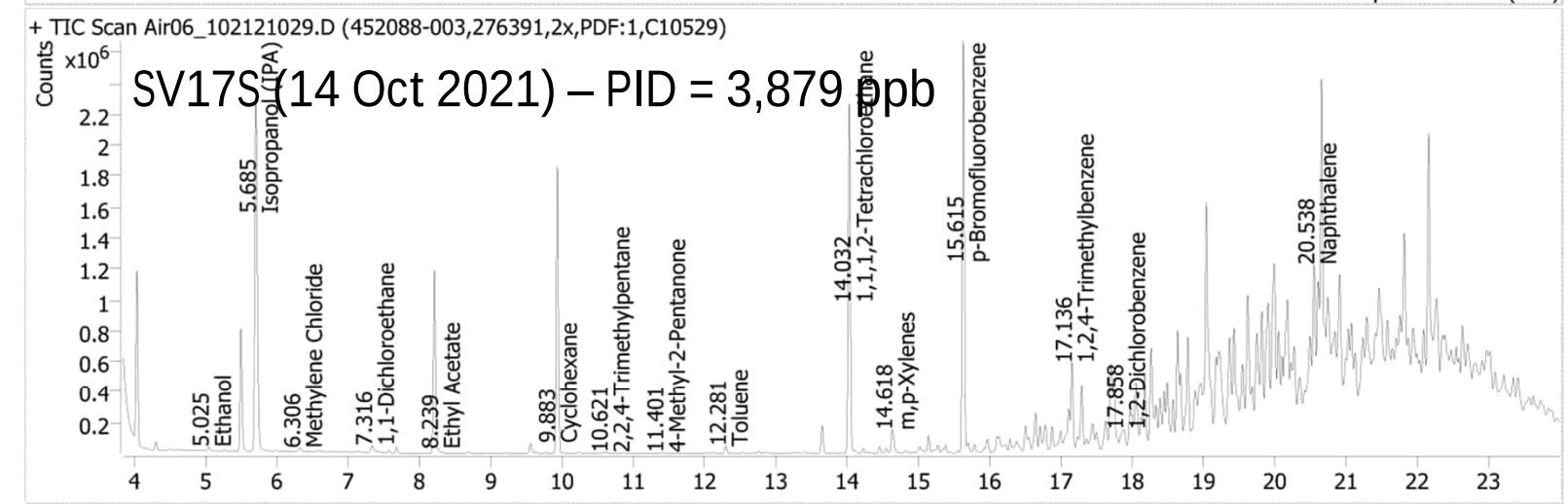

+ TIC Scan Air06_102121020.D (BLANK,QC950879,276391,1x,PDF:1,C10406)
Lab Blank
Counts
x10^6
4.581 Butane
5.510 Acetone
6.303 Methylene Chloride
8.261 n-Hexane
8.967 1,2-Dichloroethane
9.905 Cyclohexane
10.614 2,2,4-Trimethylpentane
11.426 4-Methyl-2-Pentanone
12.281 Toluene
14.019 1,1,1,2-Tetrachloroethane
15.006 Styrene
15.615 p-Bromofluorobenzene
16.628 1,3,5-Trimethylbenzene
17.411 1,4-Dichlorobenzene
20.366 1,2,4-Trichlorobenzene
21.117 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

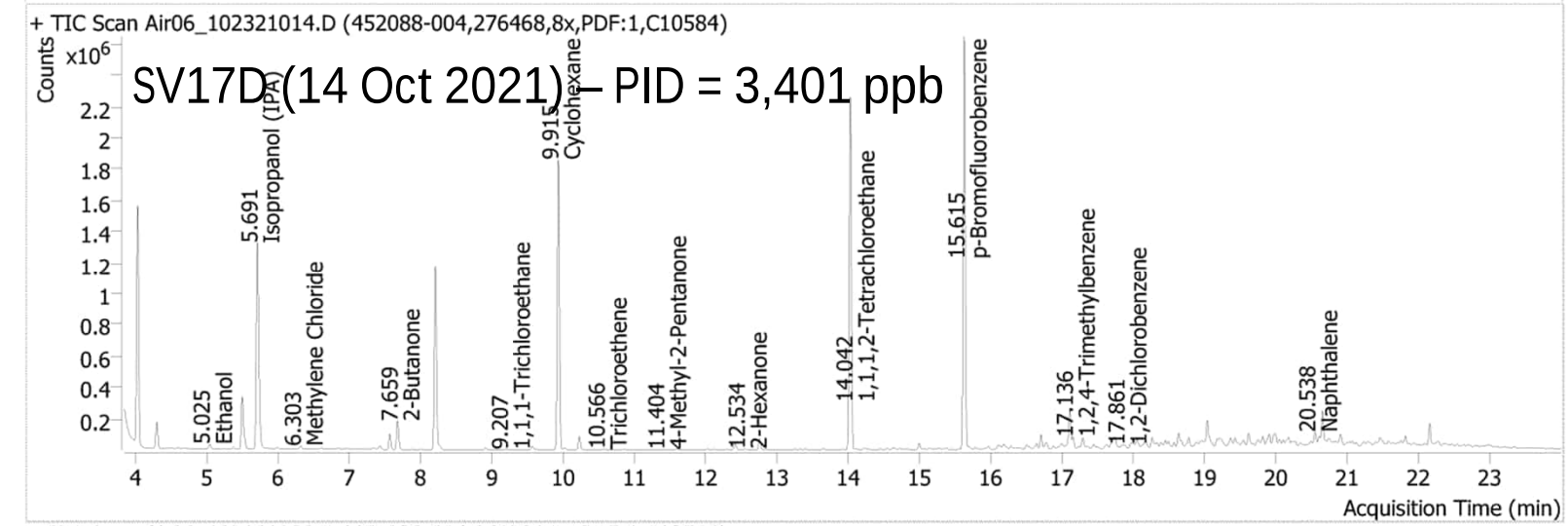

+ TIC Scan Air06_102321007.D (BLANK,QC951082,276468,1x,PDF:1,C10011)
Lab Blank
Counts
x10^6
4.572 Butane
5.513 Acetone
6.300 Methylene Chloride
8.258 Ethyl Acetate
8.954 1,2-Dichloroethane
9.912 Cyclohexane
10.618 2,2,4-Trimethylpentane
11.424 4-Methyl-2-Pentanone
12.285 Toluene
13.379 Tetrachloroethene
14.058 Benzene, chloro-
15.007 Styrene
15.615 p-Bromofluorobenzene
16.363 n-Propylbenzene
17.408 1,4-Dichlorobenzene
20.541 Naphthalene

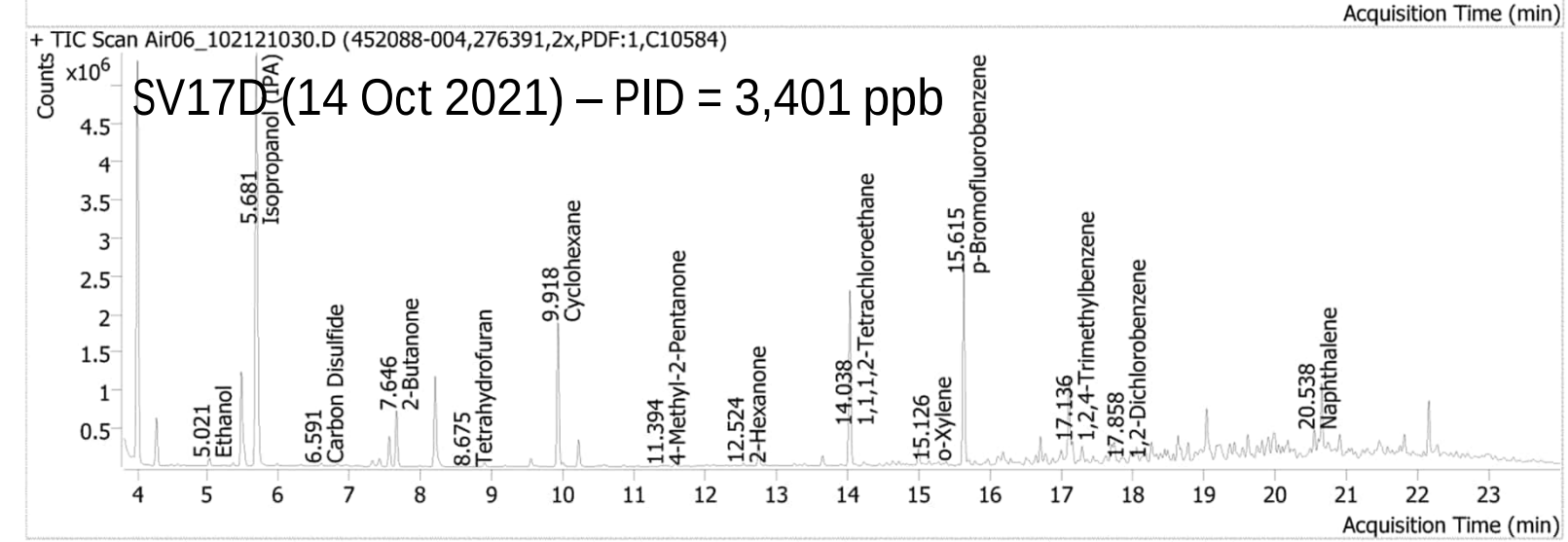

+ TIC Scan Air06_102121026.D (452088-001,276391,10x,PDF:1,C10617)
SV15S (14 Oct 2021) – PID = 443 ppb
Counts
x10^6
5.025 Ethanol
5.685 Isopropanol (IPA)
6.303 Methylene Chloride
7.323 1,1-Dichloroethane
8.239 Ethyl Acetate
9.918 Cyclohexane
10.563 Trichloroethene
11.414 4-Methyl-2-Pentanone
12.281 Toluene
13.385 Tetrachloroethene
14.696 Bromoform
15.615 p-Bromofluorobenzene
16.359 n-Propylbenzene
17.411 1,4-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

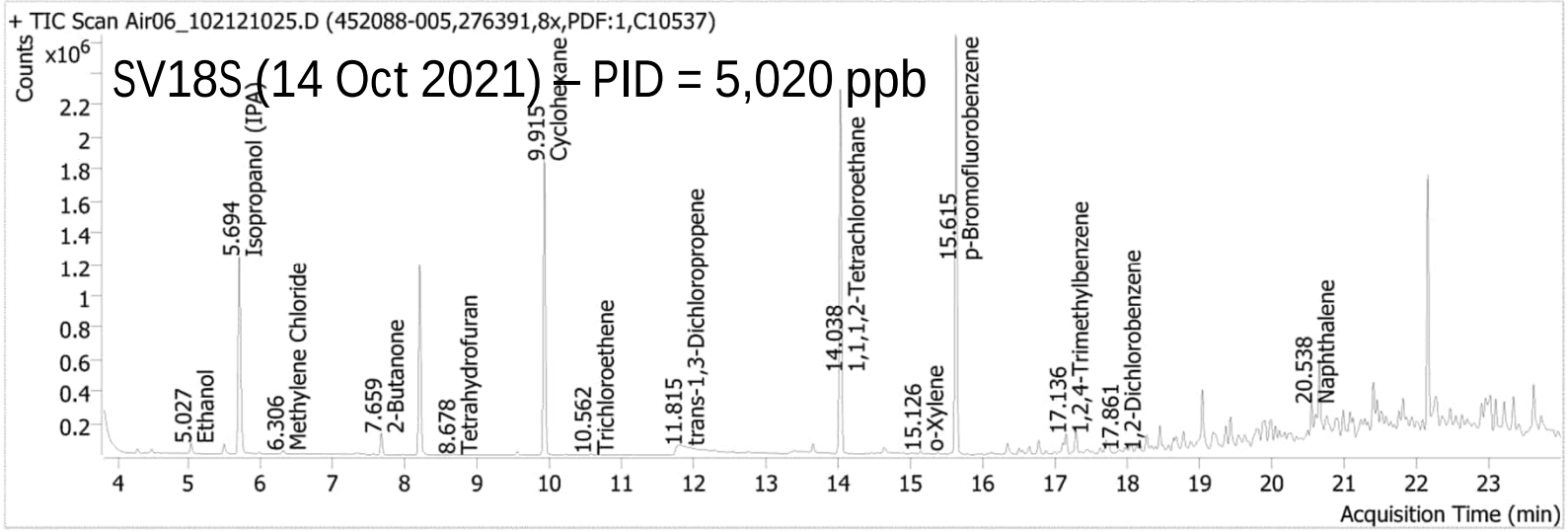

+ TIC Scan Air06_102121028.D (452088-002,276391,2x,PDF:1,C10619)
SV15D (14 Oct 2021) – PID = 448 ppb
Counts
x10^6
5.021 Ethanol
5.682 Isopropanol (IPA)
6.306 Methylene Chloride
7.310 trans-1,2-Dichloroethene
8.232 Ethyl Acetate
9.757 Carbon Tetrachloride
10.566 Trichloroethene
11.401 4-Methyl-2-Pentanone
12.281 Toluene
14.036 1,1,1,2-Tetrachloroethane
15.615 p-Bromofluorobenzene
16.538 4-Ethyltoluene
17.301 Benzyl chloride
20.538 Naphthalene
Acquisition Time (min)

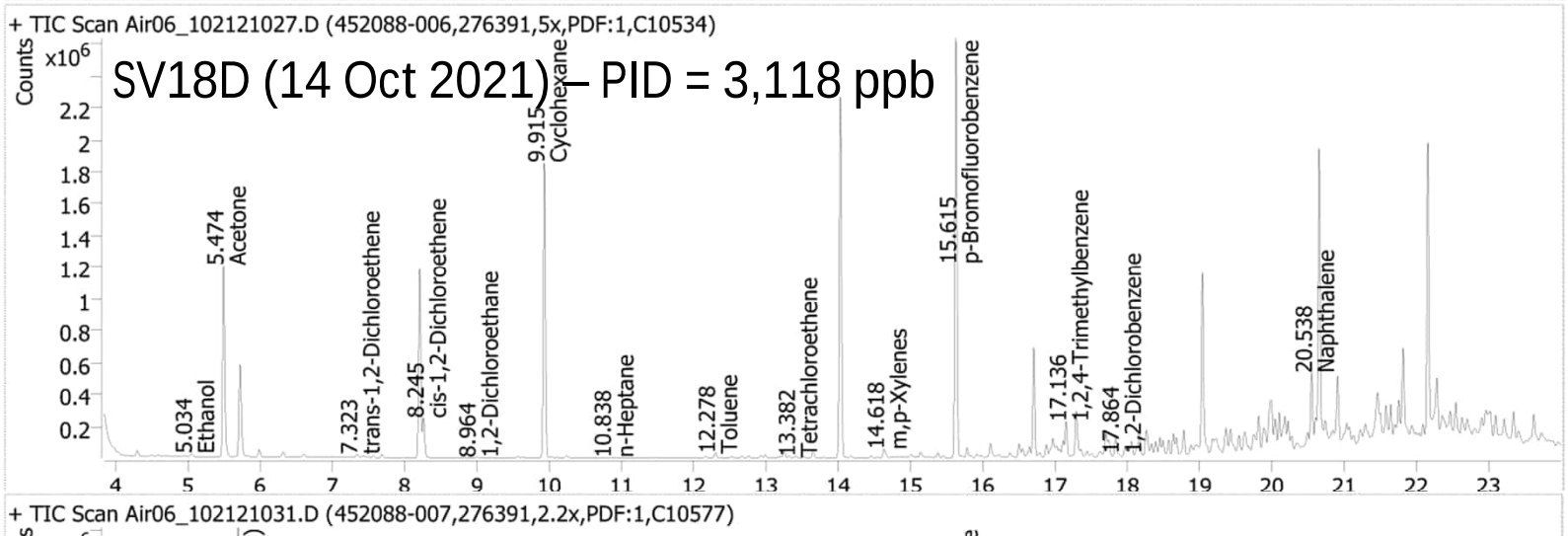

+ TIC Scan Air06_102121033.D (452088-002,276391,8x,PDF:1,C10619)
SV15D (14 Oct 2021) – PID = 448 ppb
Counts
x10^6
5.028 Ethanol
5.695 Isopropanol (IPA)
6.306 Methylene Chloride
7.323 trans-1,2-Dichloroethene
8.242 Ethyl Acetate
9.206 1,1,1-Trichloroethane
9.912 Cyclohexane
10.562 Trichloroethene
11.414 4-Methyl-2-Pentanone
12.281 Toluene
14.042 1,1,1,2-Tetrachloroethane
15.615 p-Bromofluorobenzene
17.292 Benzyl chloride
20.538 Naphthalene
Acquisition Time (min)

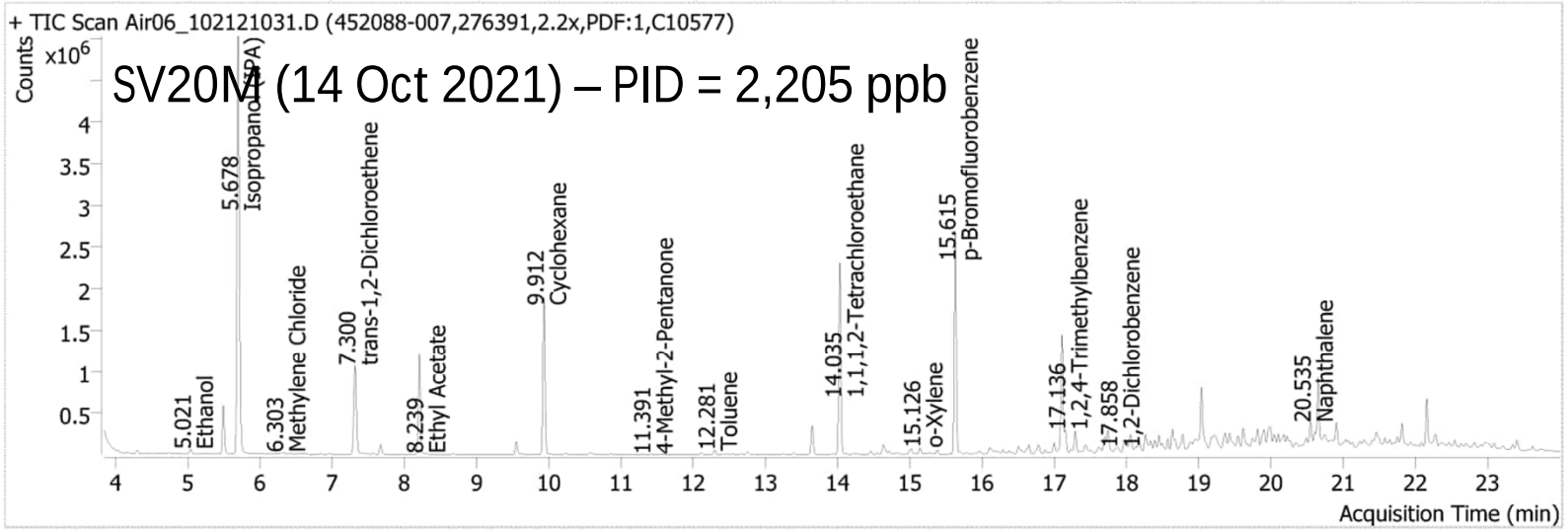

+ TIC Scan Air06_102121029.D (452088-003,276391,2x,PDF:1,C10529)
SV17S (14 Oct 2021) – PID = 3,879 ppb
Counts
x10^6
5.025 Ethanol
5.685 Isopropanol (IPA)
6.306 Methylene Chloride
7.316 1,1-Dichloroethane
8.239 Ethyl Acetate
9.883 Cyclohexane
10.621 2,2,4-Trimethylpentane
11.401 4-Methyl-2-Pentanone
12.281 Toluene
14.032 1,1,1,2-Tetrachloroethane
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.538 Naphthalene

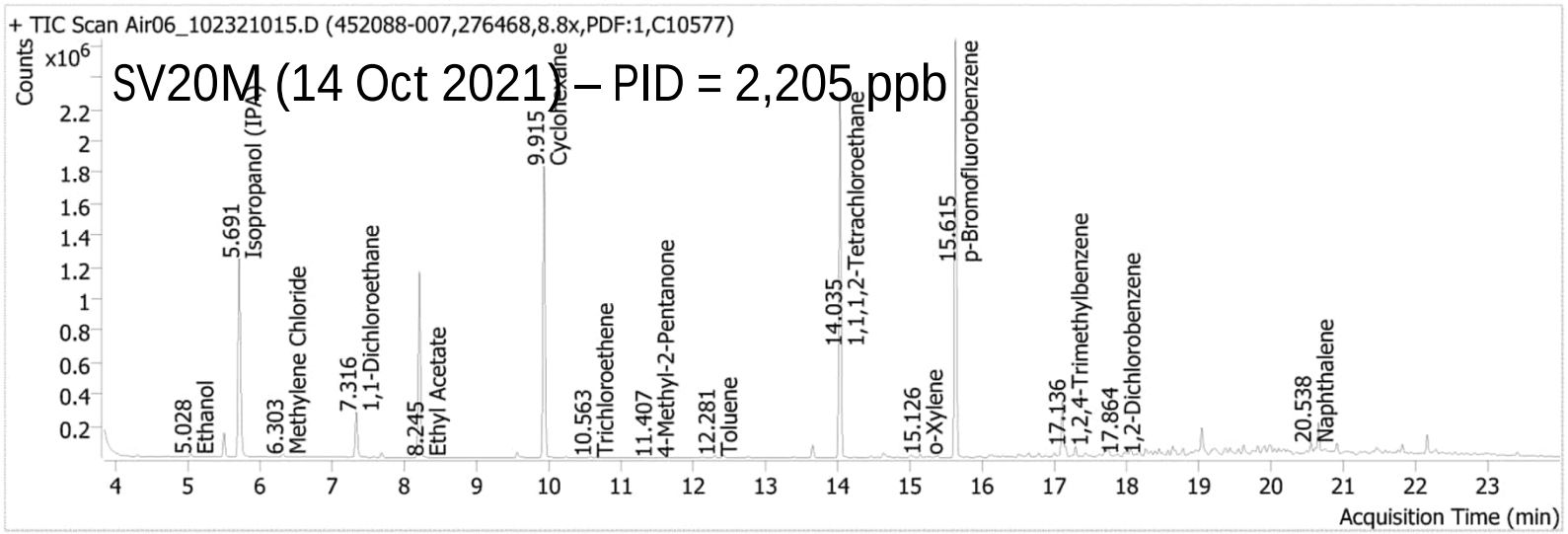

+ TIC Scan Air06_102321014.D (452088-004,276468,8x,PDF:1,C10584)
SV17D (14 Oct 2021) – PID = 3,401 ppb
Counts
x10^6
5.025 Ethanol
5.691 Isopropanol (IPA)
6.303 Methylene Chloride
7.659 2-Butanone
9.207 1,1,1-Trichloroethane
9.915 Cyclohexane
10.566 Trichloroethene
11.404 4-Methyl-2-Pentanone
12.534 2-Hexanone
14.042 1,1,1,2-Tetrachloroethane
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

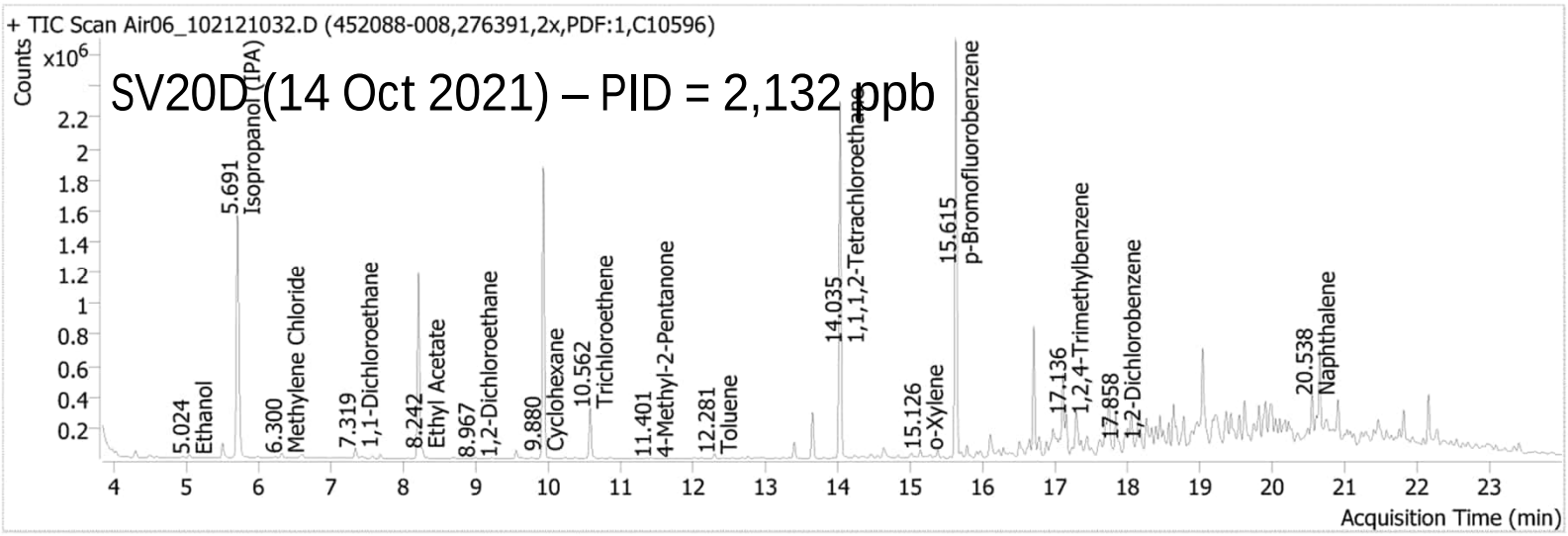

+ TIC Scan Air06_102121030.D (452088-004,276391,2x,PDF:1,C10584)
SV17D (14 Oct 2021) – PID = 3,401 ppb
Counts
x10^6
5.021 Ethanol
5.681 Isopropanol (IPA)
6.591 Carbon Disulfide
7.646 2-Butanone
8.675 Tetrahydrofuran
9.918 Cyclohexane
11.394 4-Methyl-2-Pentanone
12.524 2-Hexanone
14.038 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_102121025.D (452088-005,276391,8x,PDF:1,C10537)
SV18S (14 Oct 2021) – PID = 5,020 ppb
Counts
x10^6
5.027 Ethanol
5.694 Isopropanol (IPA)
6.306 Methylene Chloride
7.659 2-Butanone
8.678 Tetrahydrofuran
9.915 Cyclohexane
10.562 Trichloroethene
11.815 trans-1,3-Dichloropropene
14.038 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_102121027.D (452088-006,276391,5x,PDF:1,C10534)
SV18D (14 Oct 2021) – PID = 3,118 ppb
Counts
x10^6
5.034 Ethanol
5.474 Acetone
7.323 trans-1,2-Dichloroethene
8.245 cis-1,2-Dichloroethene
8.964 1,2-Dichloroethane
9.915 Cyclohexane
10.838 n-Heptane
12.278 Toluene
13.382 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.864 1,2-Dichlorobenzene
20.538 Naphthalene

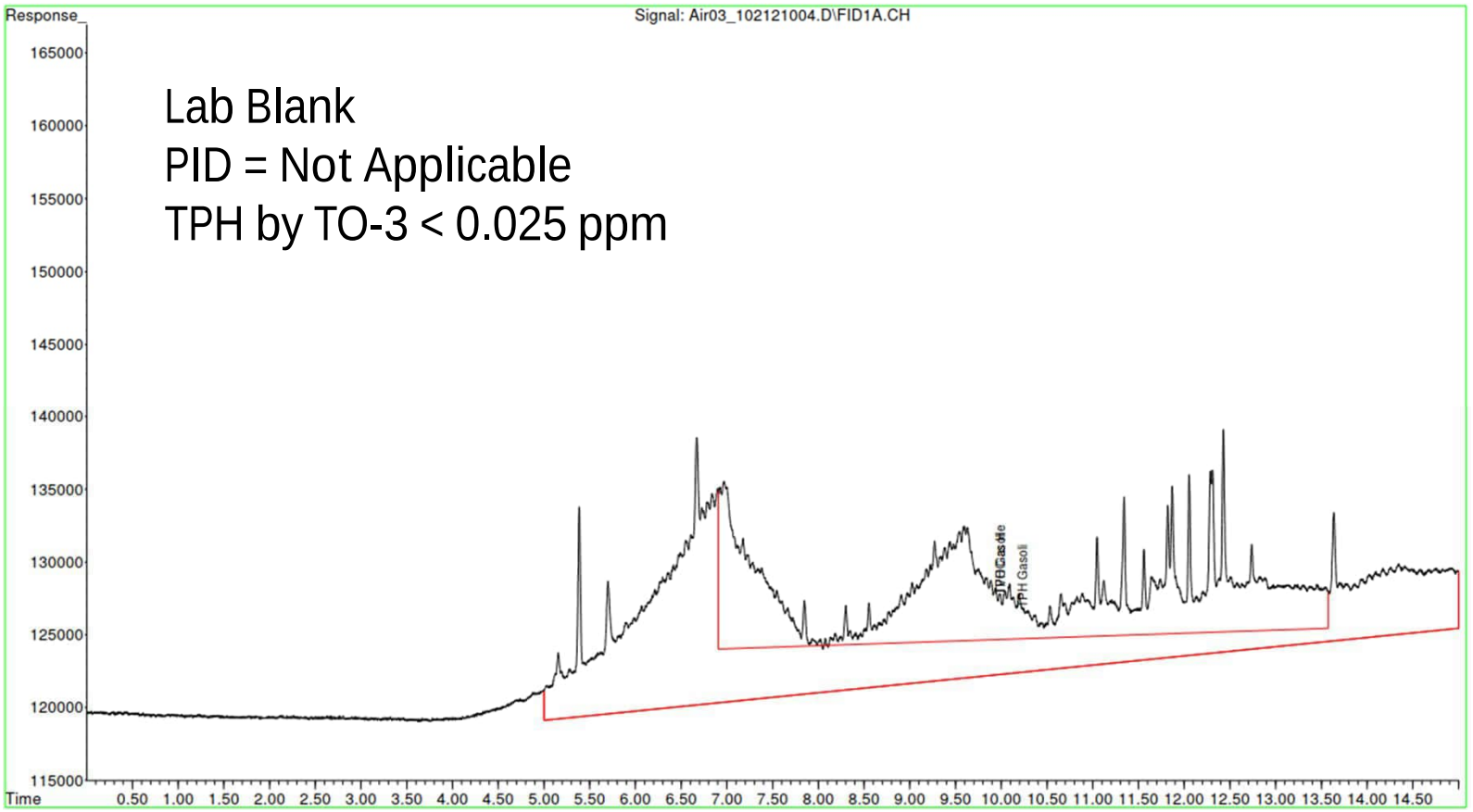

+ TIC Scan Air06_102121031.D (452088-007,276391,2.2x,PDF:1,C10577)
SV20M (14 Oct 2021) – PID = 2,205 ppb
Counts
x10^6
5.021 Ethanol
5.678 Isopropanol (IPA)
6.303 Methylene Chloride
7.300 trans-1,2-Dichloroethene
8.239 Ethyl Acetate
9.912 Cyclohexane
11.391 4-Methyl-2-Pentanone
12.281 Toluene
14.035 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.535 Naphthalene
Acquisition Time (min)

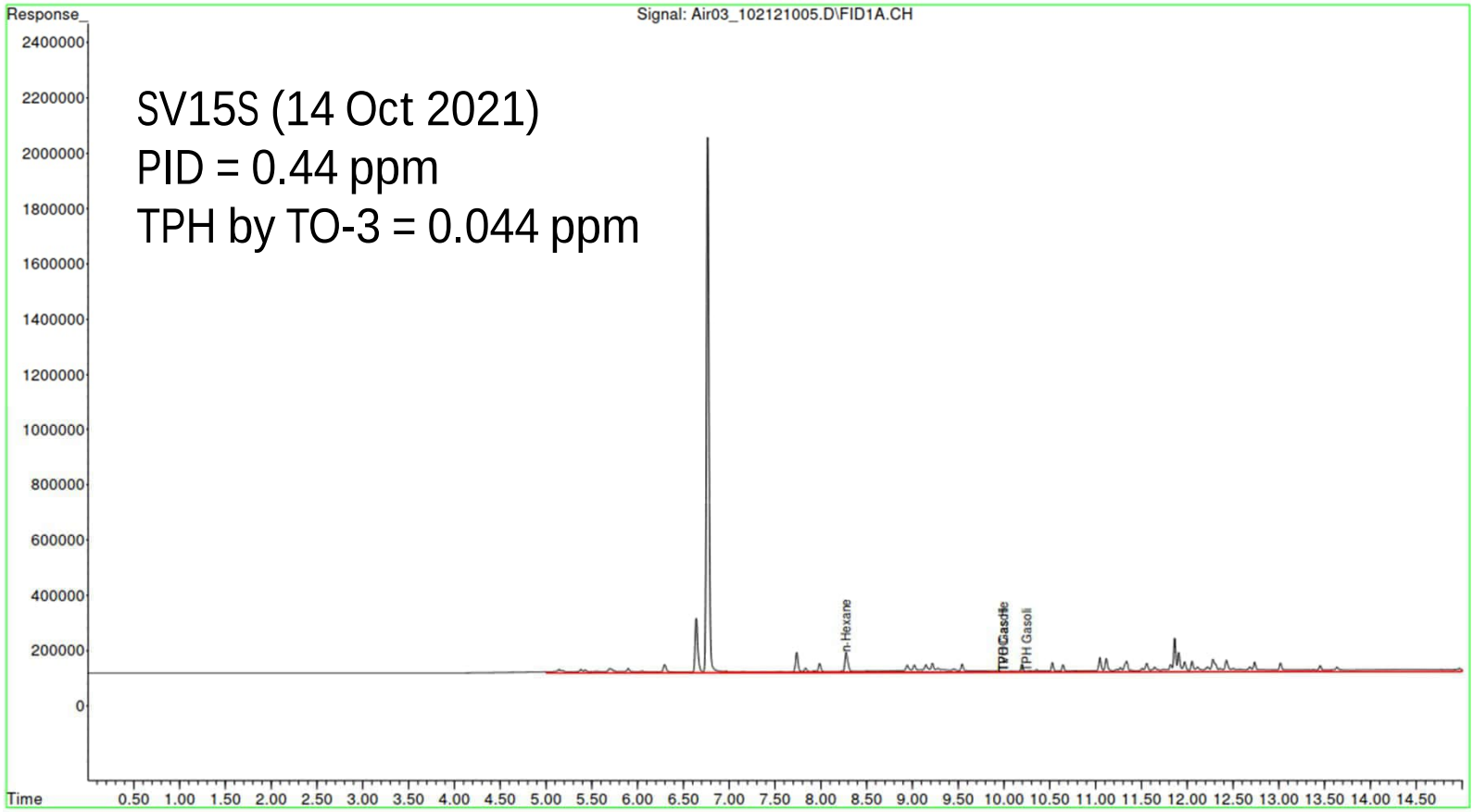

+ TIC Scan Air06_102321015.D (452088-007,276468,8.8x,PDF:1,C10577)
SV20M (14 Oct 2021) – PID = 2,205 ppb
Counts
x10^6
5.028 Ethanol
5.691 Isopropanol (IPA)
6.303 Methylene Chloride
7.316 1,1-Dichloroethane
8.245 Ethyl Acetate
9.915 Cyclohexane
10.563 Trichloroethene
11.407 4-Methyl-2-Pentanone
12.281 Toluene
14.035 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.864 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

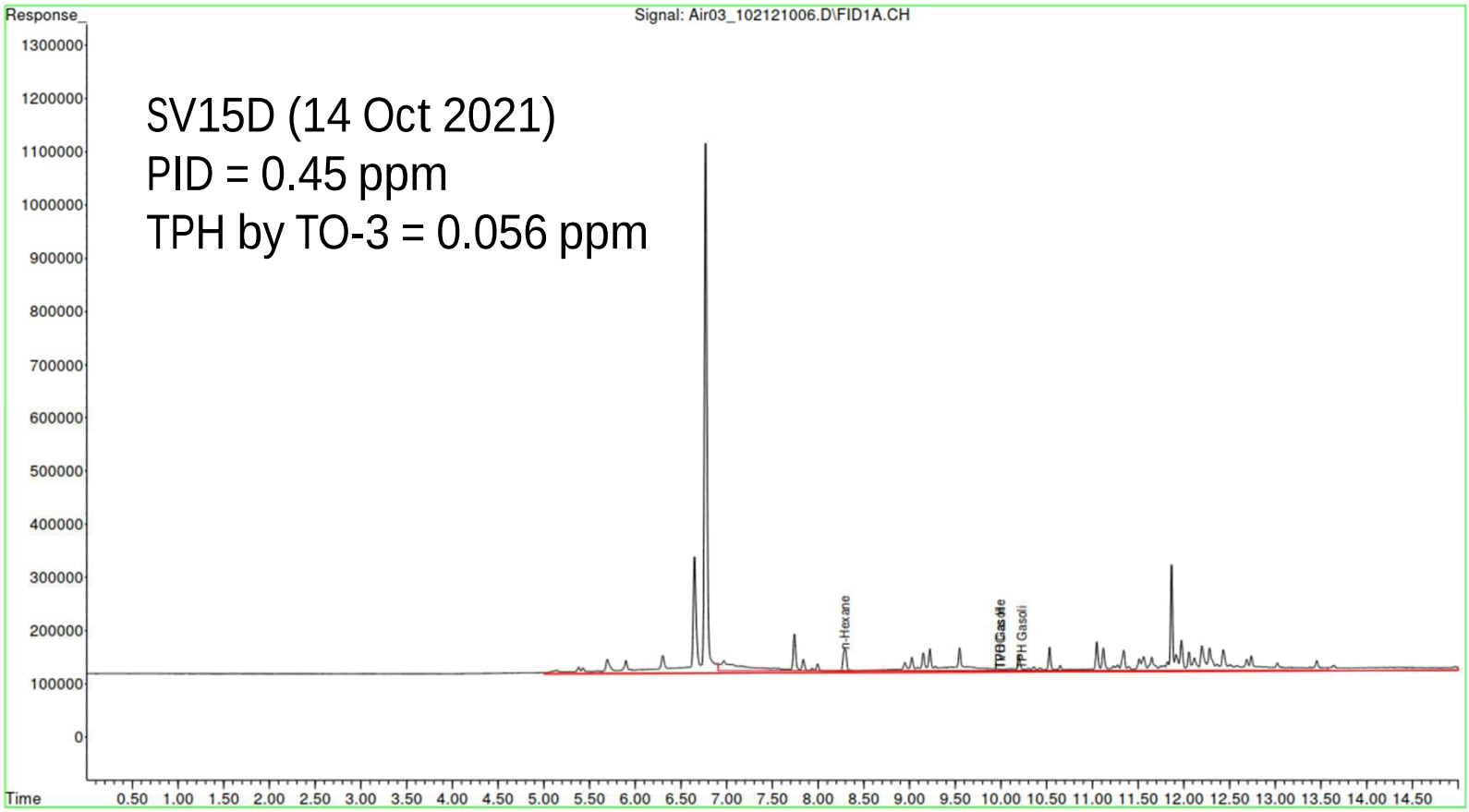

+ TIC Scan Air06_102121032.D (452088-008,276391,2x,PDF:1,C10596)
Counts
x10^6
SV20D (14 Oct 2021) – PID = 2,132 ppb
5.024 Ethanol
5.691 Isopropanol (IPA)
6.300 Methylene Chloride
7.319 1,1-Dichloroethane
8.242 Ethyl Acetate
8.967 1,2-Dichloroethane
9.880 Cyclohexane
10.562 Trichloroethene
11.401 4-Methyl-2-Pentanone
12.281 Toluene
14.035 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

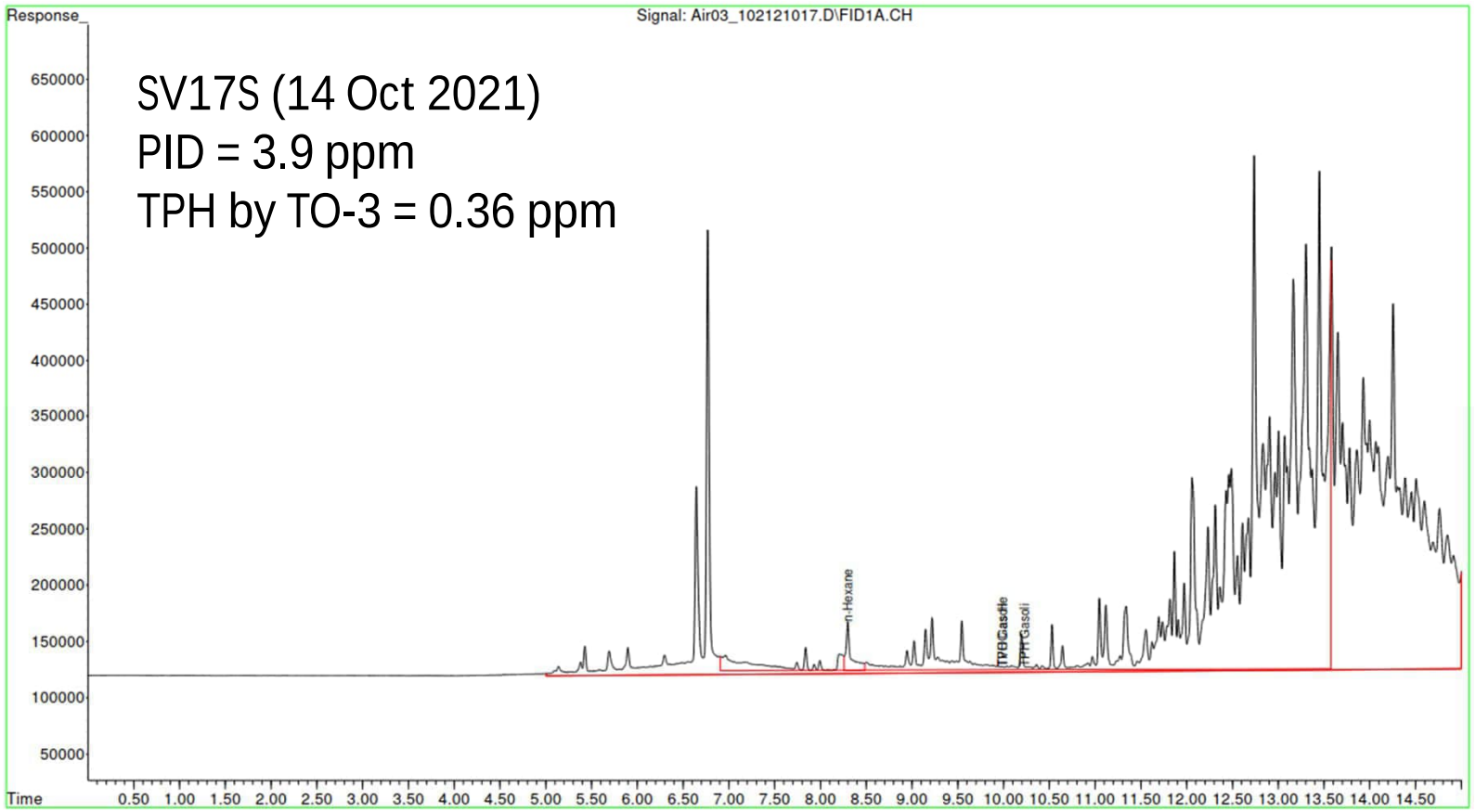
October 2021
Soil Vapor Samples

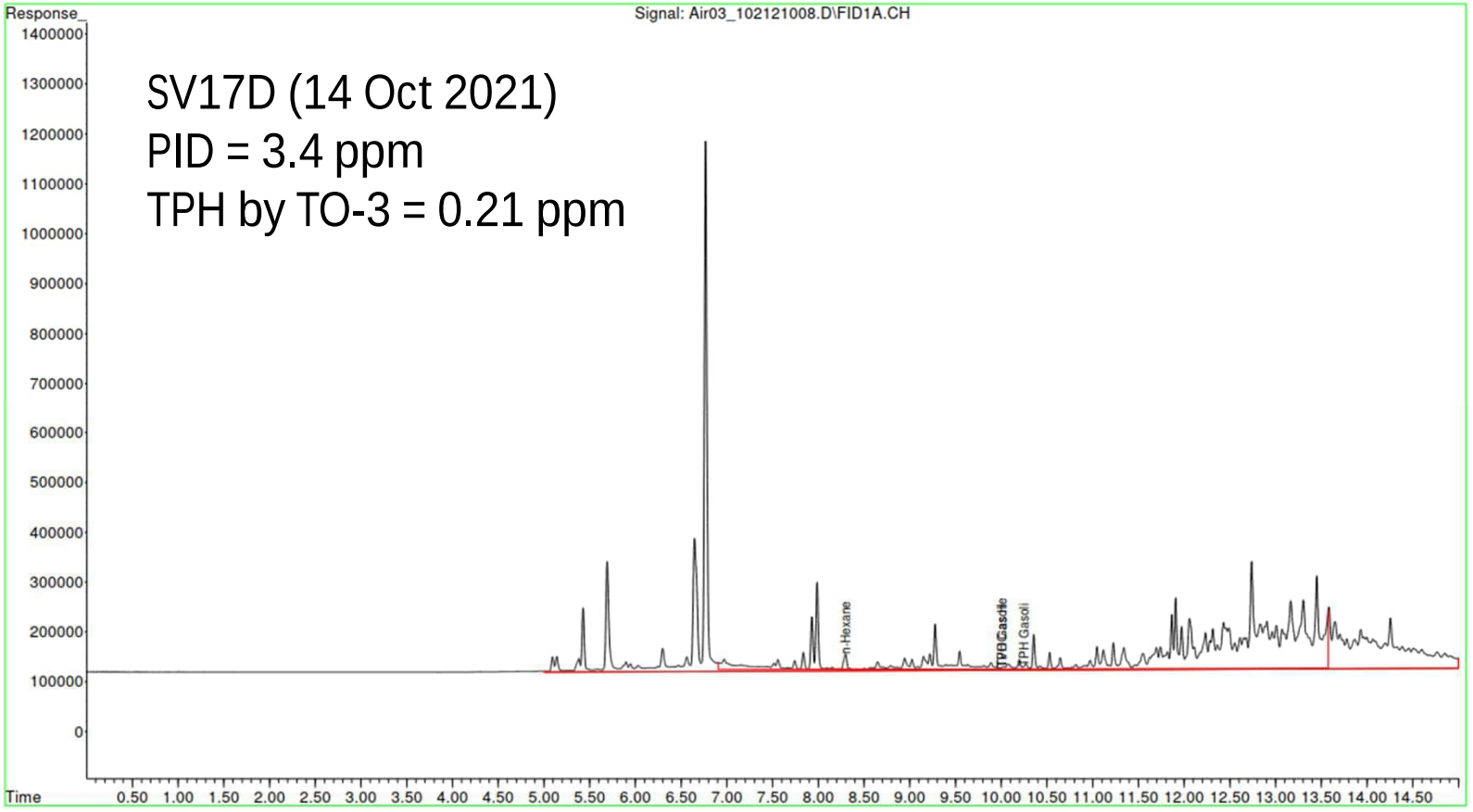
FID Chromatograms

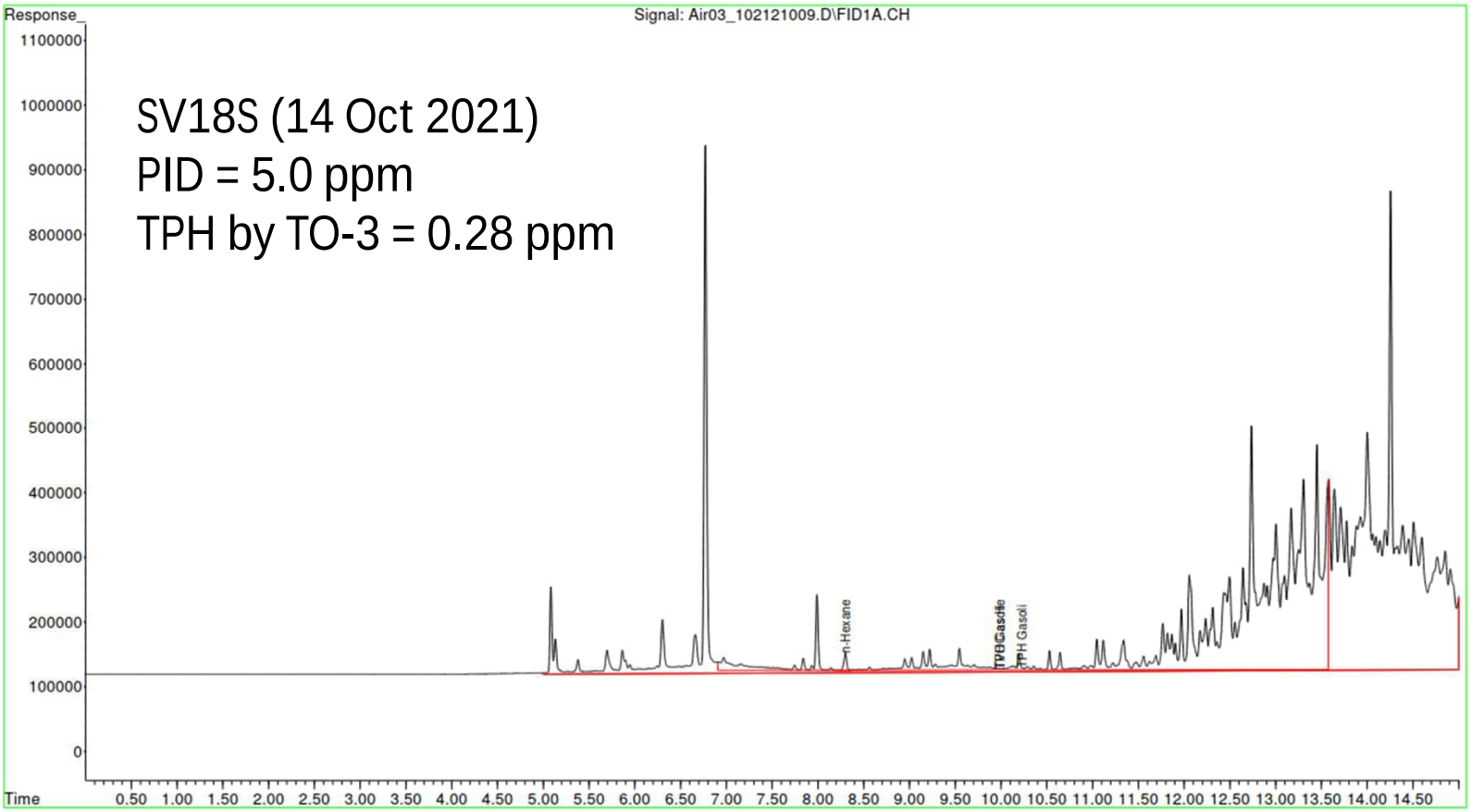

Response_
Signal: Air03_102121004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
TPH Gasoli
Time

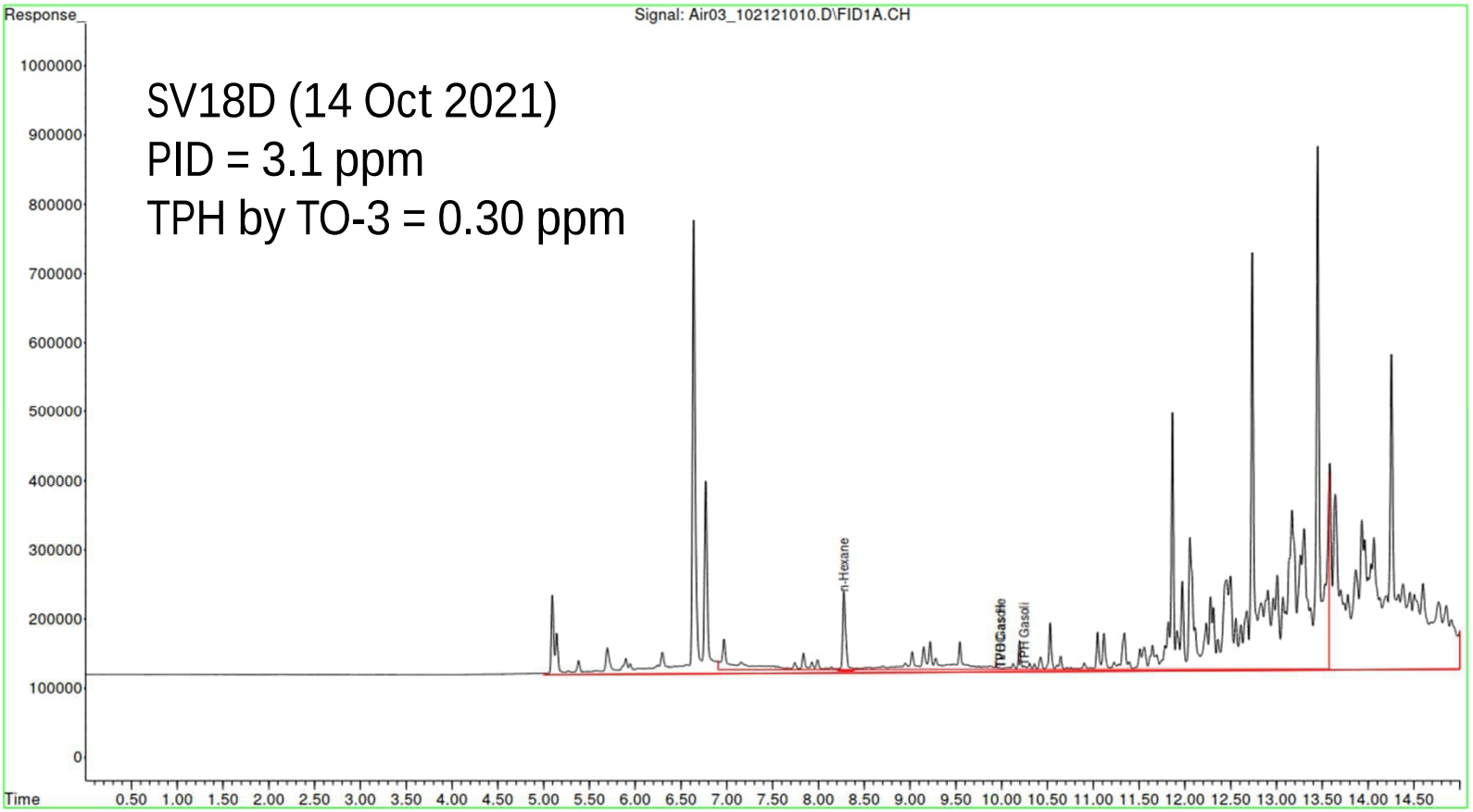

Response_
Signal: Air03_102121005.D\FID1A.CH
SV15S (14 Oct 2021)
PID = 0.44 ppm
TPH by TO-3 = 0.044 ppm
n-Hexane
TPH Gasoli
Time

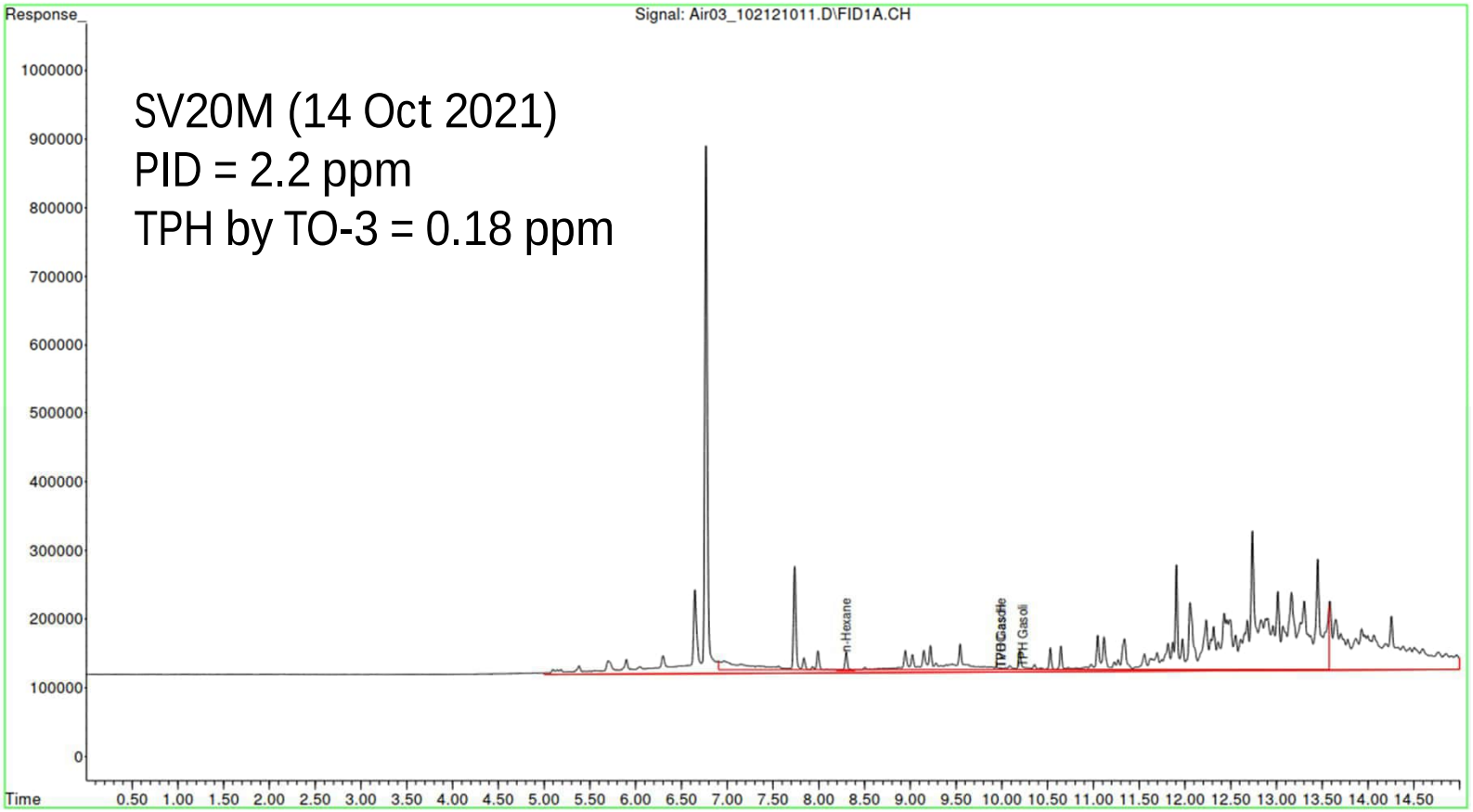

Response_
Signal: Air03_102121006.D\FID1A.CH
SV15D (14 Oct 2021)
PID = 0.45 ppm
TPH by TO-3 = 0.056 ppm
n-Hexane
TPH Gasoli
Time

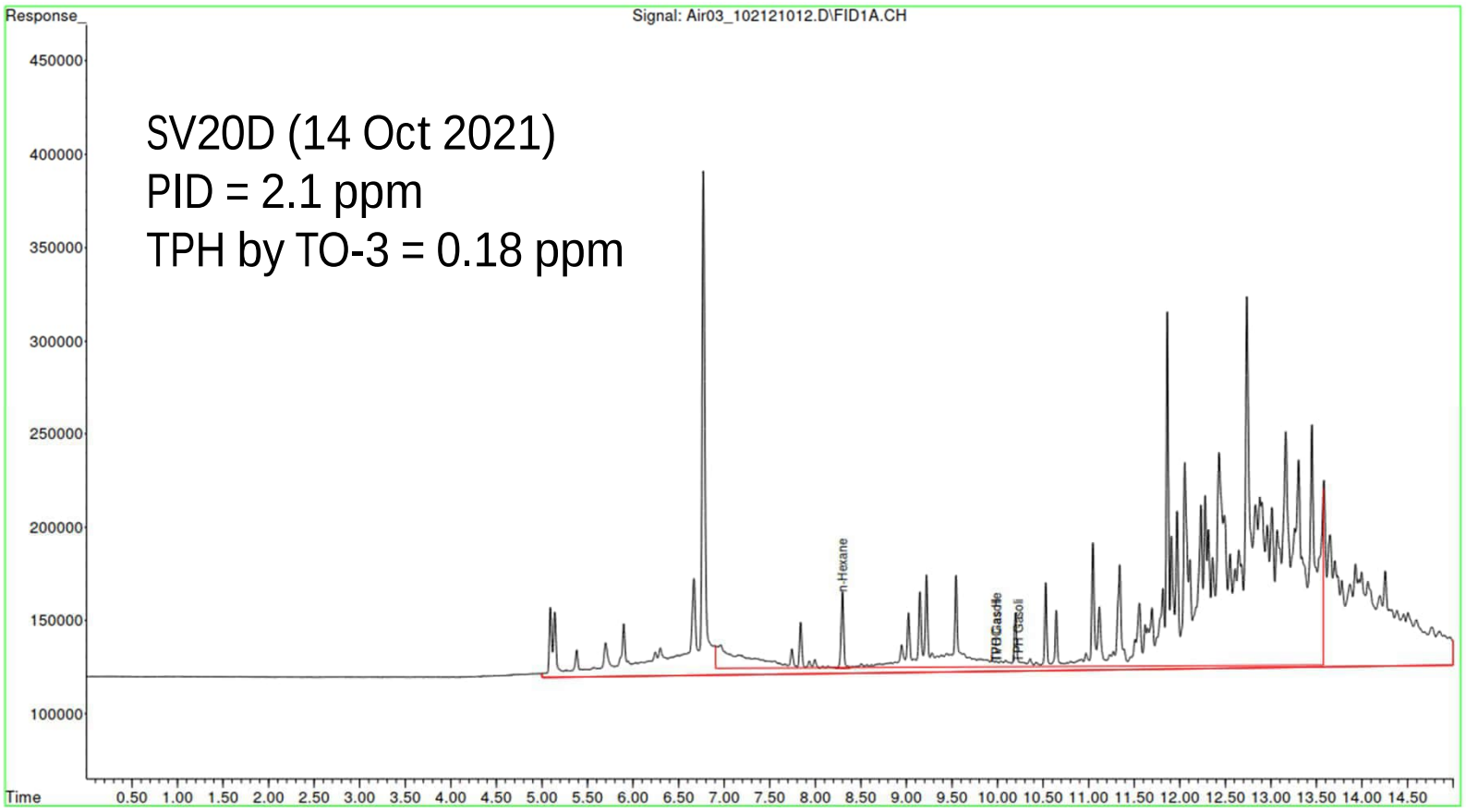

Response_
Signal: Air03_102121017.D\FID1A.CH
SV17S (14 Oct 2021)
PID = 3.9 ppm
TPH by TO-3 = 0.36 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: Air03_102121008.D\FID1A.CH
SV17D (14 Oct 2021)
PID = 3.4 ppm
TPH by TO-3 = 0.21 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time


Response_
Signal: Air03_102121009.D\FID1A.CH
SV18S (14 Oct 2021)
PID = 5.0 ppm
TPH by TO-3 = 0.28 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time

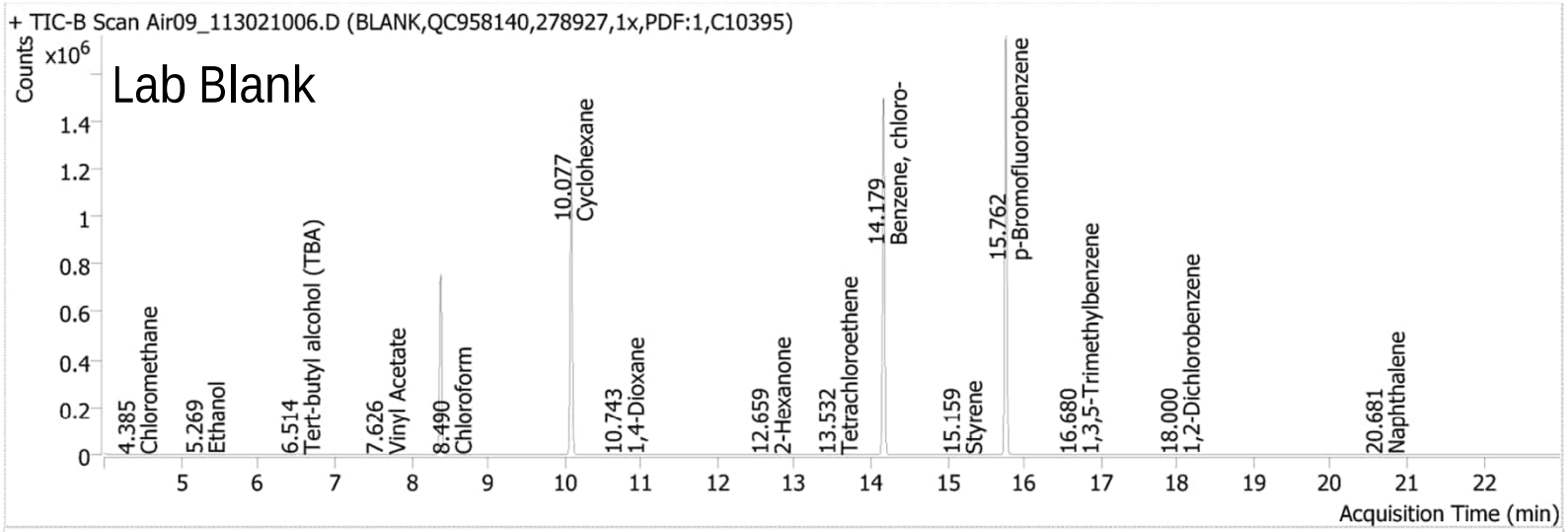

Response_
Signal: Air03_102121010.D\FID1A.CH
SV18D (14 Oct 2021)
PID = 3.1 ppm
TPH by TO-3 = 0.30 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time

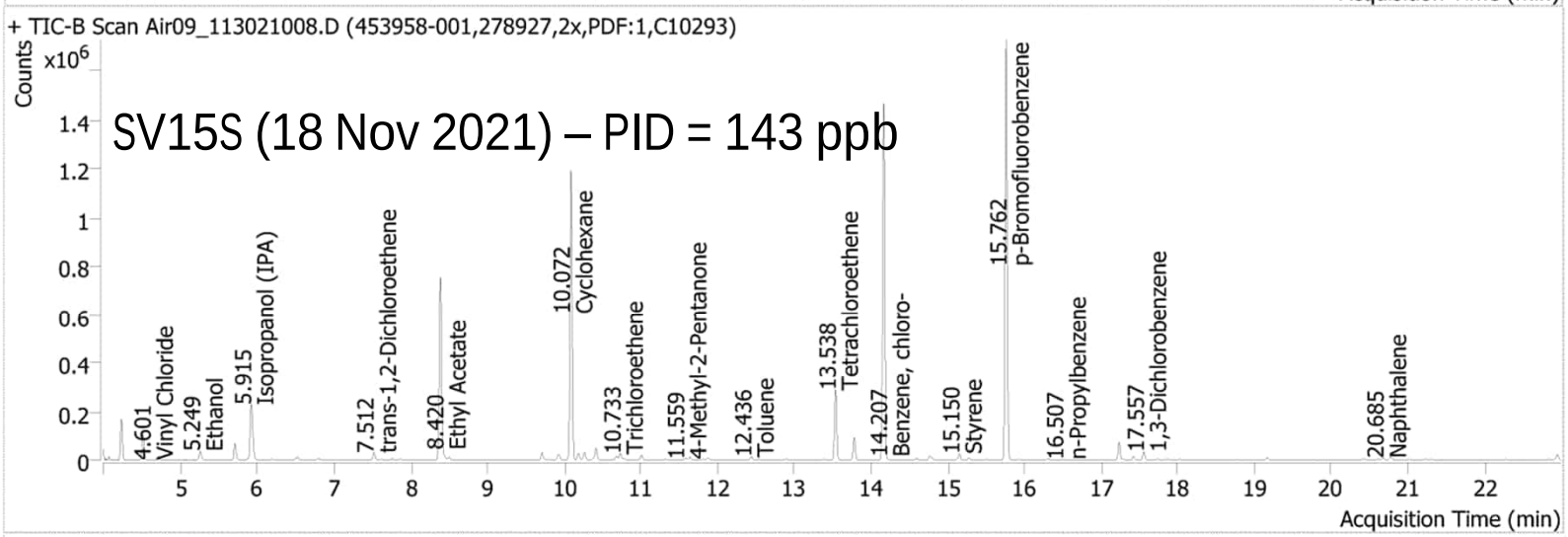

Response_
Signal: Air03_102121011.D\FID1A.CH
SV20M (14 Oct 2021)
PID = 2.2 ppm
TPH by TO-3 = 0.18 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time

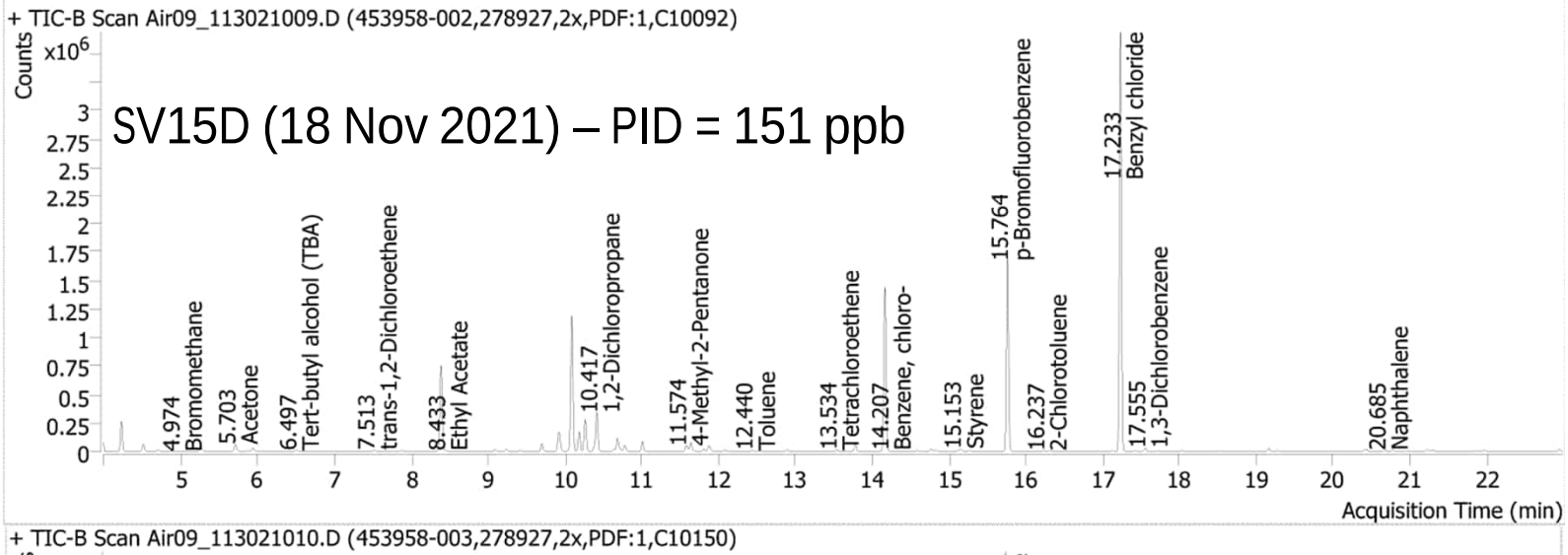

Response_
Signal: Air03_102121012.D\FID1A.CH
450000
400000
350000
300000
250000
200000
150000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
n-Hexane
SV20D (14 Oct 2021)
PID = 2.1 ppm
TPH by TO-3 = 0.18 ppm

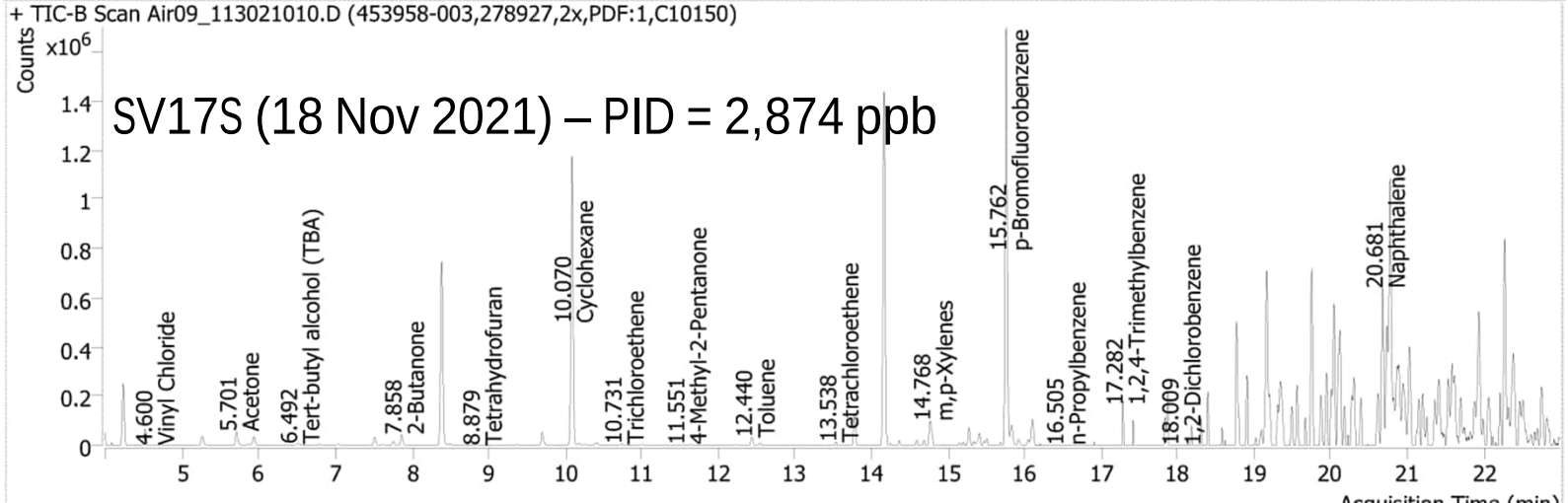
November 2021
Soil Vapor Samples

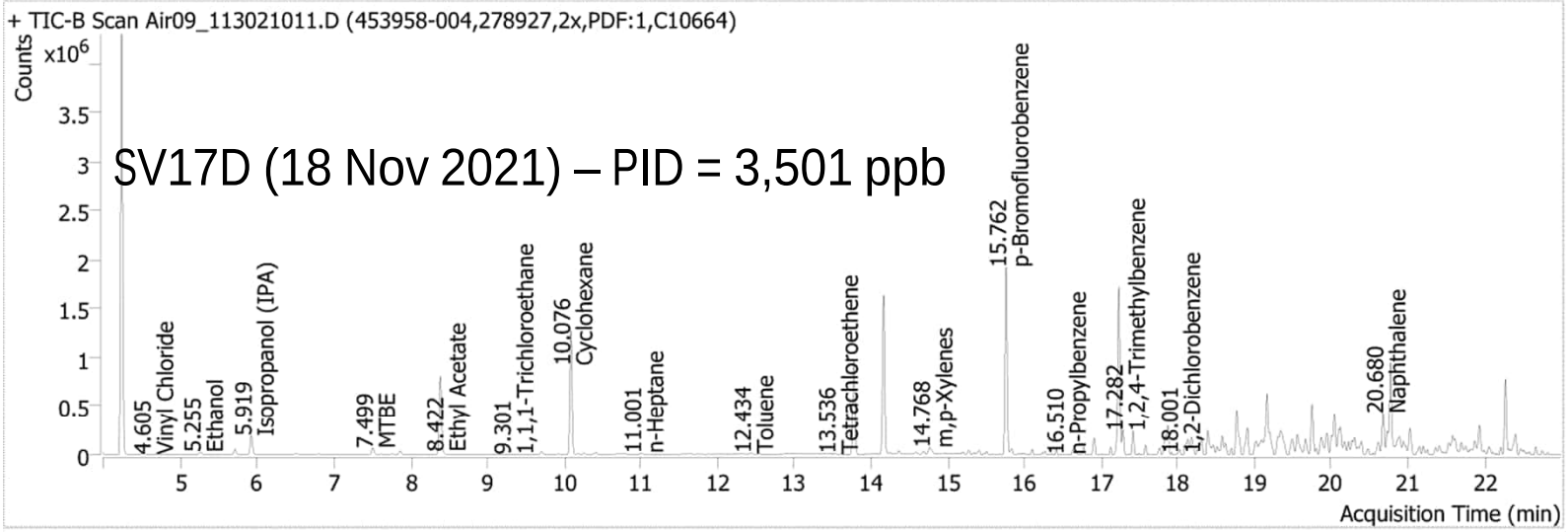
Mass Spec Chromatograms

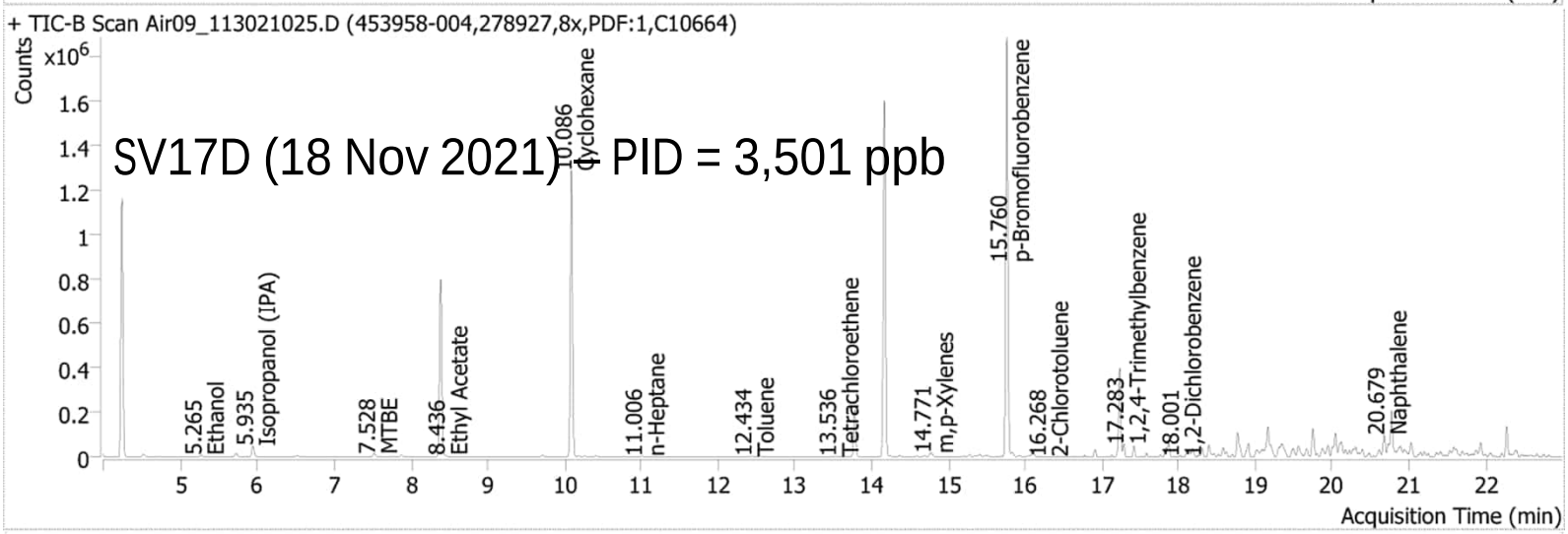

+ TIC-B Scan Air09_113021006.D (BLANK,QC958140,278927,1x,PDF:1,C10395)
Lab Blank
Counts
x10^6
4.385 Chloromethane
5.269 Ethanol
6.514 Tert-butyl alcohol (TBA)
7.626 Vinyl Acetate
8.490 Chloroform
10.077 Cyclohexane
10.743 1,4-Dioxane
12.659 2-Hexanone
13.532 Tetrachloroethene
14.179 Benzene, chloro-
15.159 Styrene
15.762 p-Bromofluorobenzene
16.680 1,3,5-Trimethylbenzene
18.000 1,2-Dichlorobenzene
20.681 Naphthalene
Acquisition Time (min)

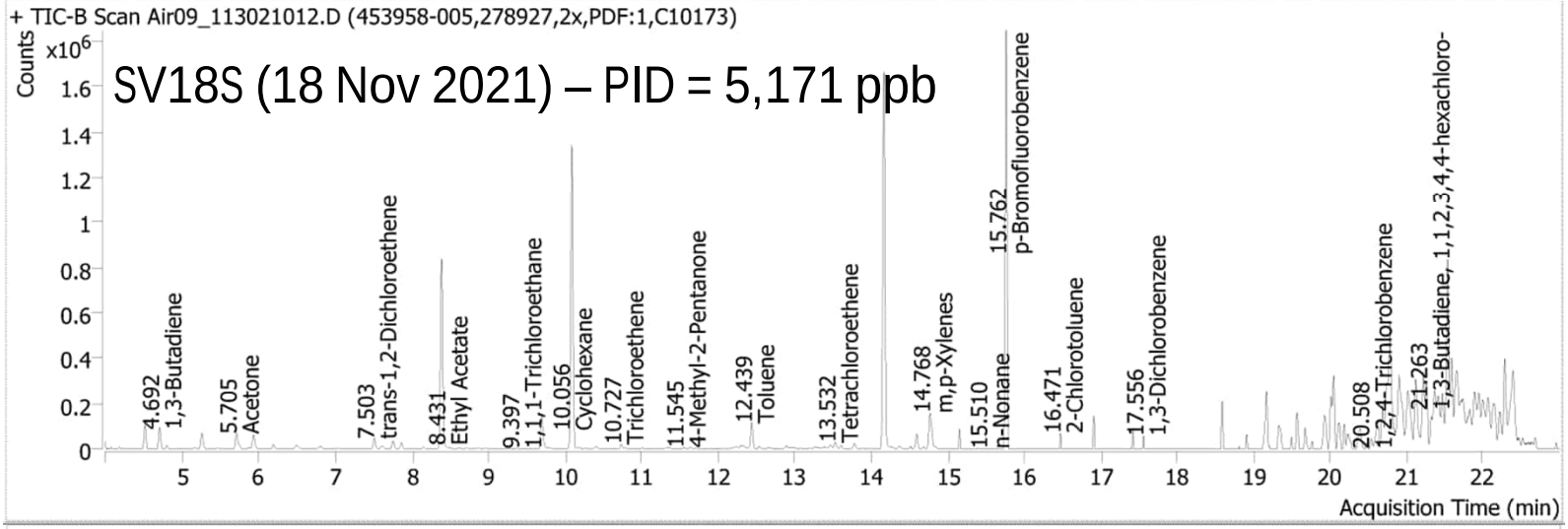

+ TIC-B Scan Air09_113021008.D (453958-001,278927,2x,PDF:1,C10293)
SV15S (18 Nov 2021) – PID = 143 ppb
Counts
x10^6
4.601 Vinyl Chloride
5.249 Ethanol
5.915 Isopropanol (IPA)
7.512 trans-1,2-Dichloroethene
8.420 Ethyl Acetate
10.072 Cyclohexane
10.733 Trichloroethene
11.559 4-Methyl-2-Pentanone
12.436 Toluene
13.538 Tetrachloroethene
14.207 Benzene, chloro-
15.150 Styrene
15.762 p-Bromofluorobenzene
16.507 n-Propylbenzene
17.557 1,3-Dichlorobenzene
20.685 Naphthalene
Acquisition Time (min)

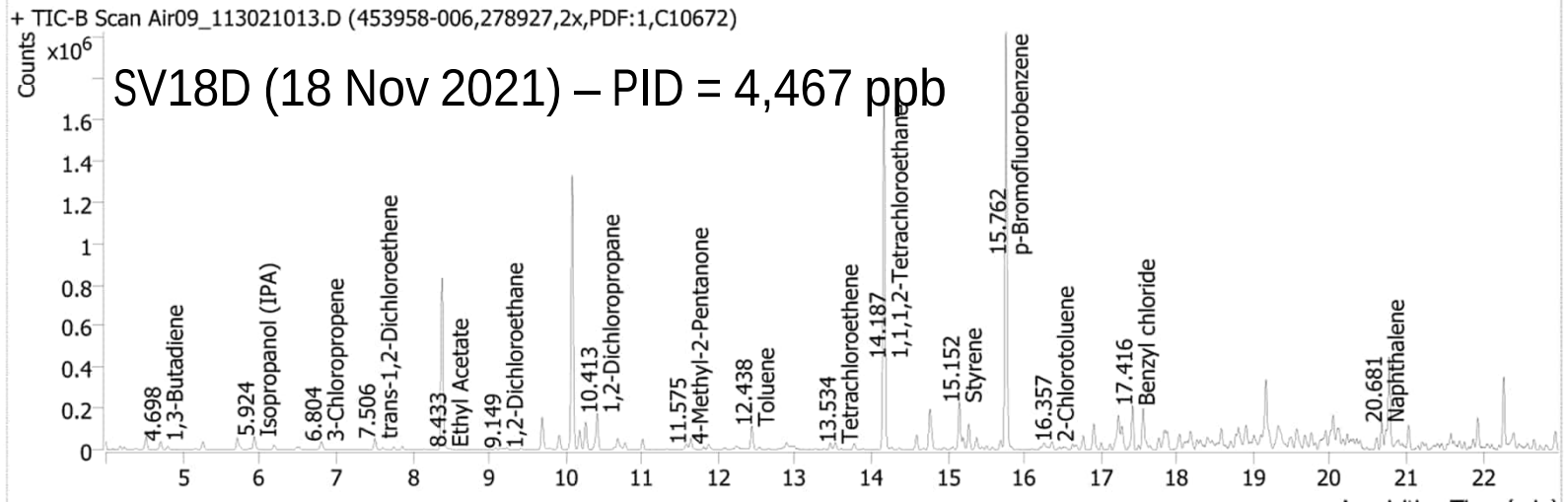

+ TIC-B Scan Air09_113021009.D (453958-002,278927,2x,PDF:1,C10092)
SV15D (18 Nov 2021) – PID = 151 ppb
Counts
x10^6
4.974 Bromomethane
5.703 Acetone
6.497 Tert-butyl alcohol (TBA)
7.513 trans-1,2-Dichloroethene
8.433 Ethyl Acetate
10.417 1,2-Dichloropropane
11.574 4-Methyl-2-Pentanone
12.440 Toluene
13.534 Tetrachloroethene
14.207 Benzene, chloro-
15.153 Styrene
15.764 p-Bromofluorobenzene
16.237 2-Chlorotoluene
17.233 Benzyl chloride
17.555 1,3-Dichlorobenzene
20.685 Naphthalene
Acquisition Time (min)

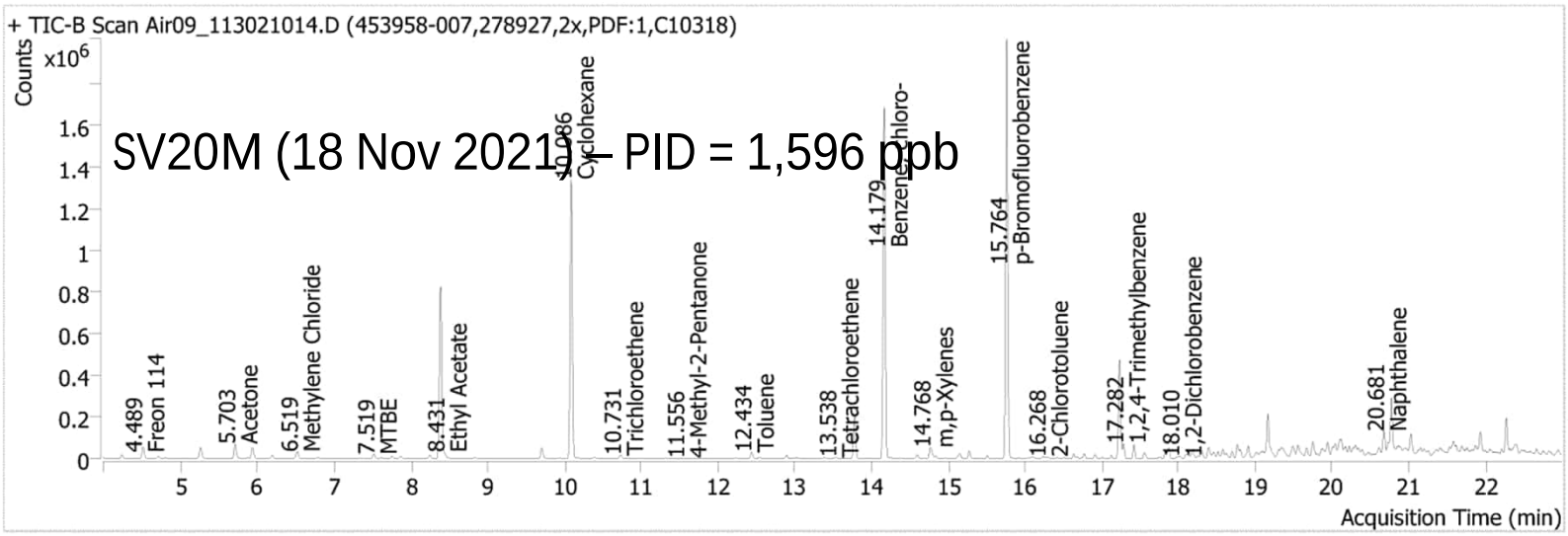

+ TIC-B Scan Air09_113021010.D (453958-003,278927,2x,PDF:1,C10150)
SV17S (18 Nov 2021) – PID = 2,874 ppb
Counts
x10^6
4.600 Vinyl Chloride
5.701 Acetone
6.492 Tert-butyl alcohol (TBA)
7.858 2-Butanone
8.879 Tetrahydrofuran
10.070 Cyclohexane
10.731 Trichloroethene
11.551 4-Methyl-2-Pentanone
12.440 Toluene
13.538 Tetrachloroethene
14.768 m,p-Xylenes
15.762 p-Bromofluorobenzene
16.505 n-Propylbenzene
17.282 1,2,4-Trimethylbenzene
18.009 1,2-Dichlorobenzene
20.681 Naphthalene
Acquisition Time (min)

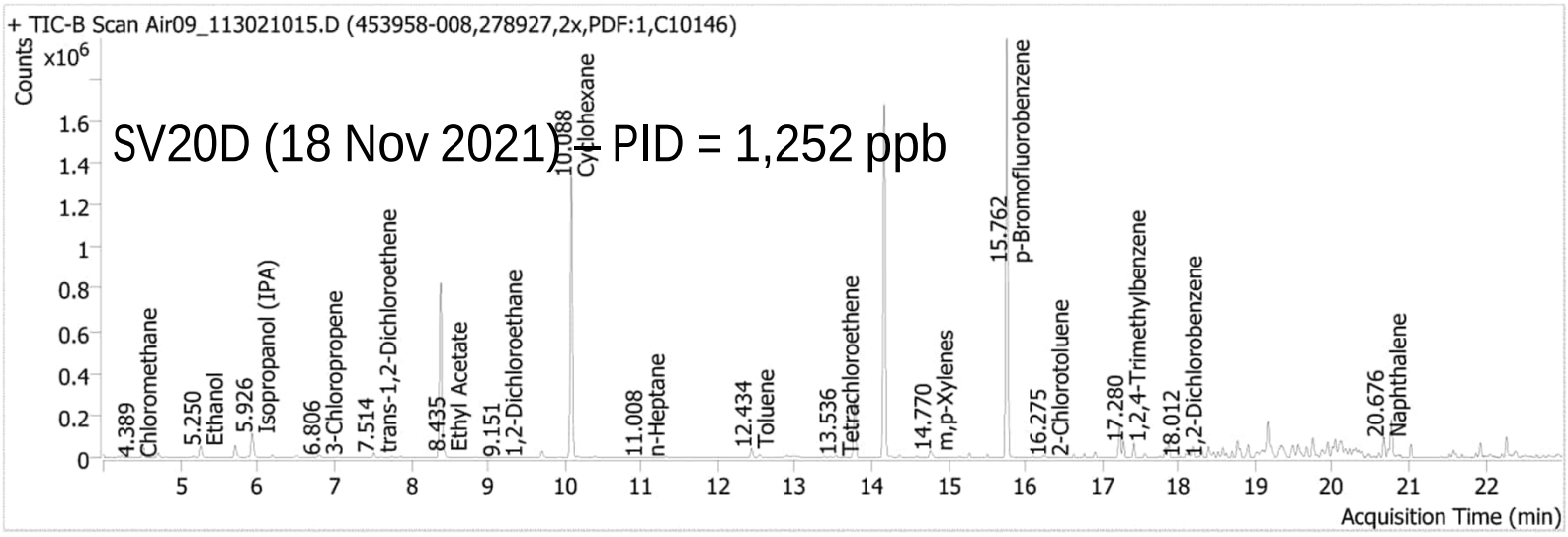

+ TIC-B Scan Air09_113021011.D (453958-004,278927,2x,PDF:1,C10664)
SV17D (18 Nov 2021) – PID = 3,501 ppb
Counts
x10^6
4.605 Vinyl Chloride
5.255 Ethanol
5.919 Isopropanol (IPA)
7.499 MTBE
8.422 Ethyl Acetate
9.301 1,1,1-Trichloroethane
10.076 Cyclohexane
11.001 n-Heptane
12.434 Toluene
13.536 Tetrachloroethene
14.768 m,p-Xylenes
15.762 p-Bromofluorobenzene
16.510 n-Propylbenzene
17.282 1,2,4-Trimethylbenzene
18.001 1,2-Dichlorobenzene
20.680 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air09_113021025.D (453958-004,278927,8x,PDF:1,C10664)
SV17D (18 Nov 2021) – PID = 3,501 ppb
Counts
x10^6
5.265 Ethanol
5.935 Isopropanol (IPA)
7.528 MTBE
8.436 Ethyl Acetate
10.086 Cyclohexane
11.006 n-Heptane
12.434 Toluene
13.536 Tetrachloroethene
14.771 m,p-Xylenes
15.760 p-Bromofluorobenzene
16.268 2-Chlorotoluene
17.283 1,2,4-Trimethylbenzene
18.001 1,2-Dichlorobenzene
20.679 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air09_113021012.D (453958-005,278927,2x,PDF:1,C10173)
SV18S (18 Nov 2021) – PID = 5,171 ppb
Counts
x10^6
4.692 1,3-Butadiene
5.705 Acetone
7.503 trans-1,2-Dichloroethene
8.431 Ethyl Acetate
9.397 1,1,1-Trichloroethane
10.056 Cyclohexane
10.727 Trichloroethene
11.545 4-Methyl-2-Pentanone
12.439 Toluene
13.532 Tetrachloroethene
14.768 m,p-Xylenes
15.510 n-Nonane
15.762 p-Bromofluorobenzene
16.471 2-Chlorotoluene
17.556 1,3-Dichlorobenzene
20.508 1,2,4-Trichlorobenzene
21.263 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

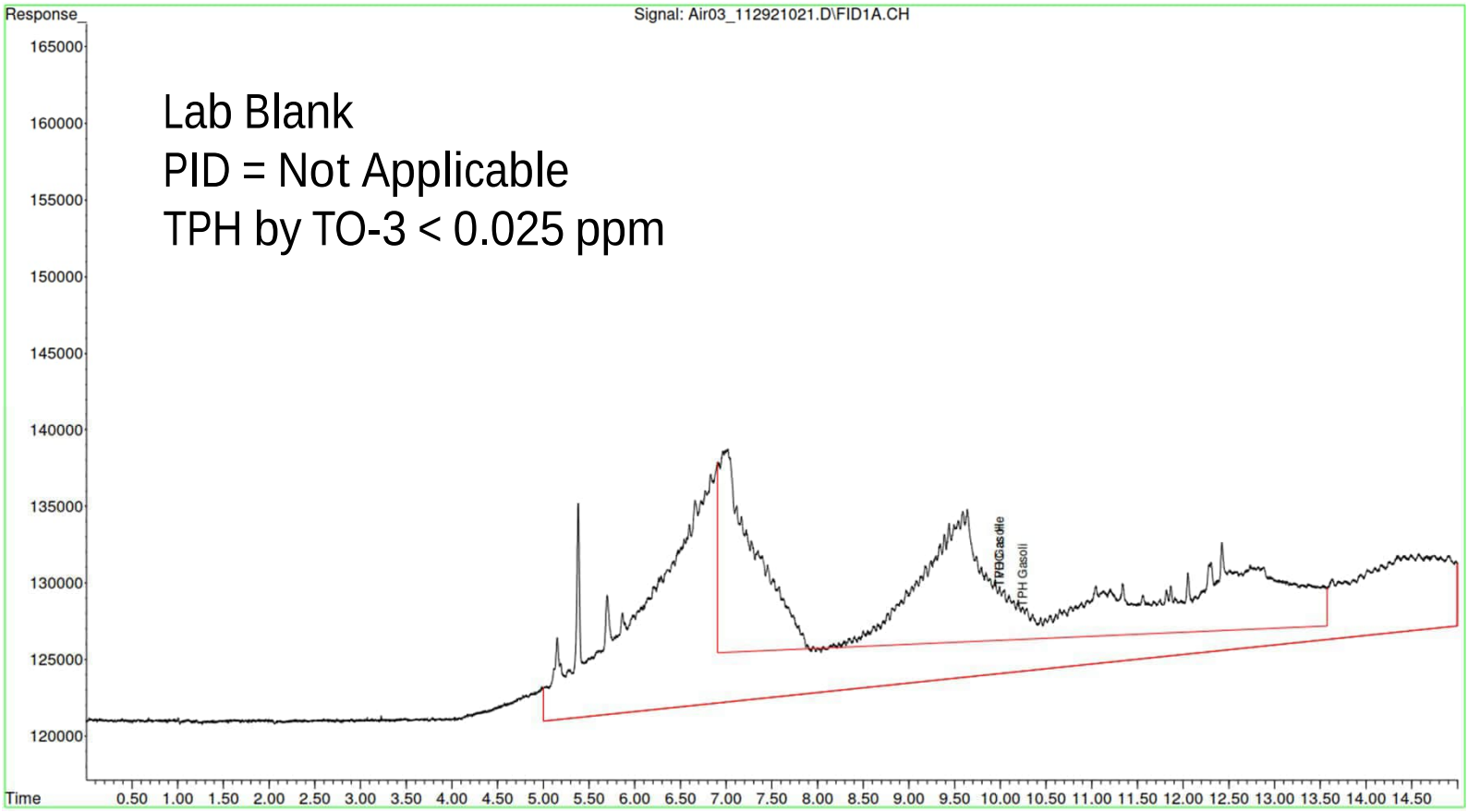

+ TIC-B Scan Air09_113021013.D (453958-006,278927,2x,PDF:1,C10672)
SV18D (18 Nov 2021) – PID = 4,467 ppb
Counts
x10^6
4.698 1,3-Butadiene
5.924 Isopropanol (IPA)
6.804 3-Chloropropene
7.506 trans-1,2-Dichloroethene
8.433 Ethyl Acetate
9.149 1,2-Dichloroethane
10.413 1,2-Dichloropropane
11.575 4-Methyl-2-Pentanone
12.438 Toluene
13.534 Tetrachloroethene
14.187 1,1,1,2-Tetrachloroethane
15.152 Styrene
15.762 p-Bromofluorobenzene
16.357 2-Chlorotoluene
17.416 Benzyl chloride
20.681 Naphthalene

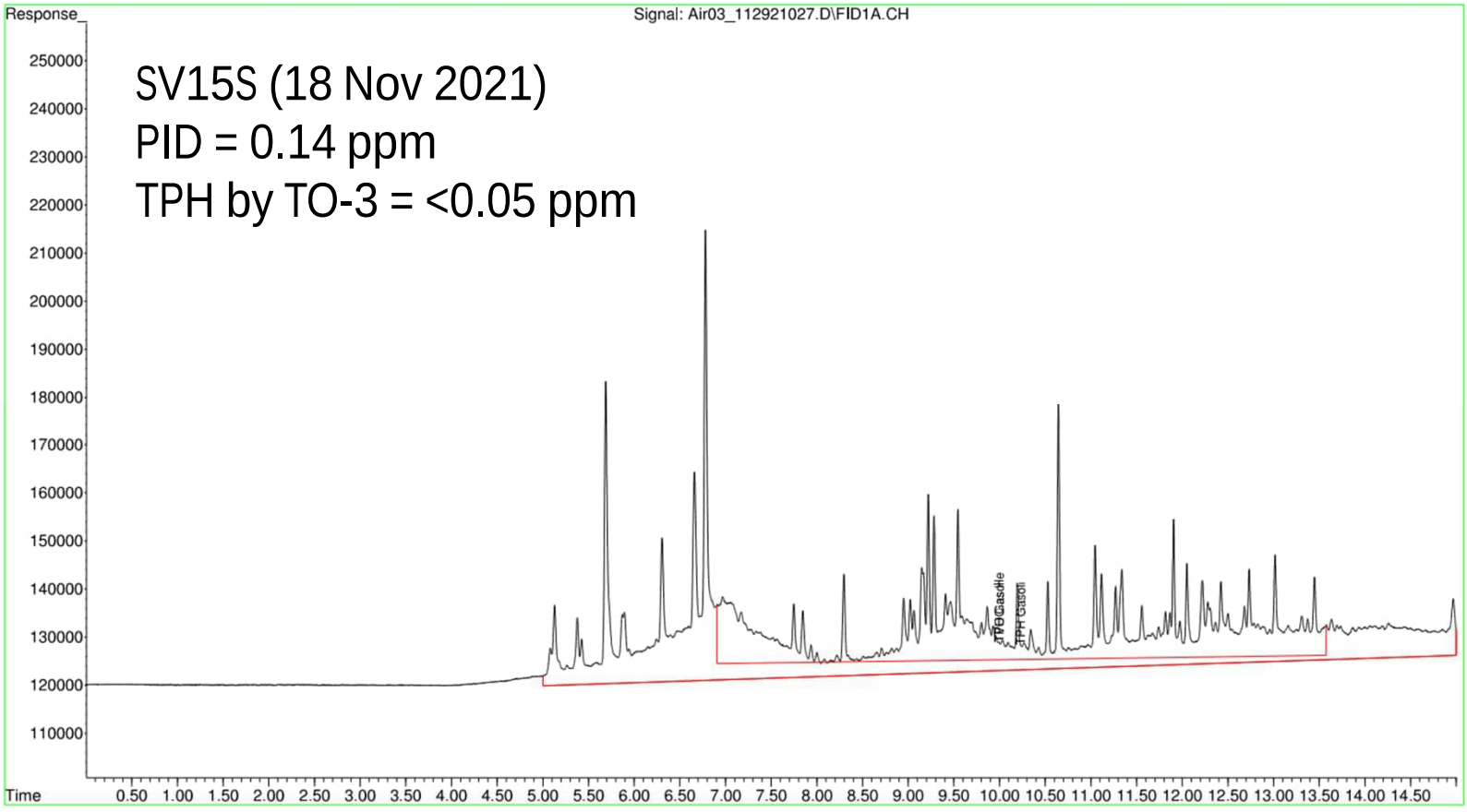

+ TIC-B Scan Air09_113021014.D (453958-007,278927,2x,PDF:1,C10318)
Counts
x10^6
SV20M (18 Nov 2021) – PID = 1,596 ppb
4.489 Freon 114
5.703 Acetone
6.519 Methylene Chloride
7.519 MTBE
8.431 Ethyl Acetate
10.086 Cyclohexane
10.731 Trichloroethene
11.556 4-Methyl-2-Pentanone
12.434 Toluene
13.538 Tetrachloroethene
14.179 Benzene, chloro-
14.768 m,p-Xylenes
15.764 p-Bromofluorobenzene
16.268 2-Chlorotoluene
17.282 1,2,4-Trimethylbenzene
18.010 1,2-Dichlorobenzene
20.681 Naphthalene
Acquisition Time (min)

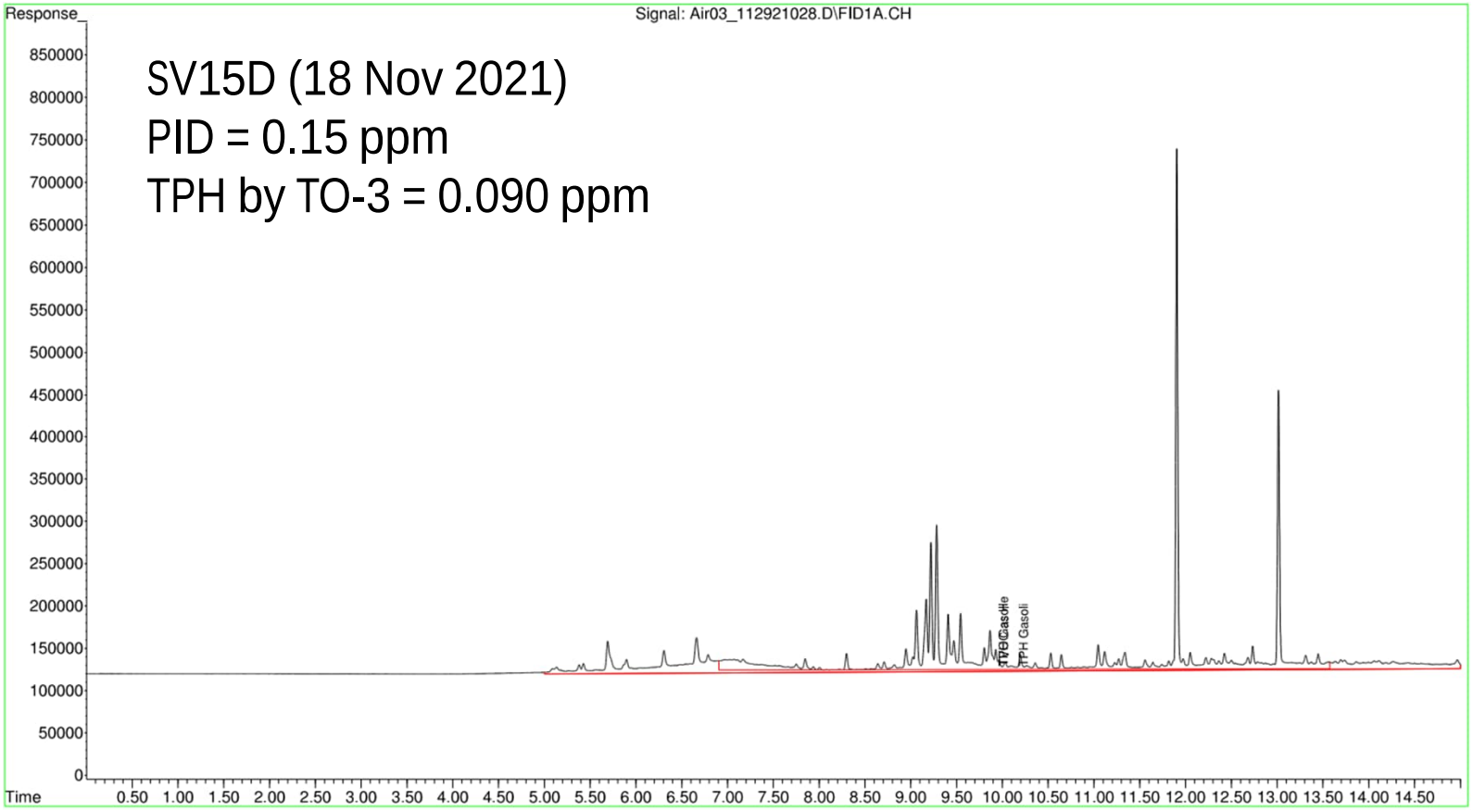

+ TIC-B Scan Air09_113021015.D (453958-008,278927,2x,PDF:1,C10146)
Counts
x10^6
SV20D (18 Nov 2021) – PID = 1,252 ppb
4.389 Chloromethane
5.250 Ethanol
5.926 Isopropanol (IPA)
6.806 3-Chloropropene
7.514 trans-1,2-Dichloroethene
8.435 Ethyl Acetate
9.151 1,2-Dichloroethane
10.088 Cyclohexane
11.008 n-Heptane
12.434 Toluene
13.536 Tetrachloroethene
14.770 m,p-Xylenes
15.762 p-Bromofluorobenzene
16.275 2-Chlorotoluene
17.280 1,2,4-Trimethylbenzene
18.012 1,2-Dichlorobenzene
20.676 Naphthalene
Acquisition Time (min)

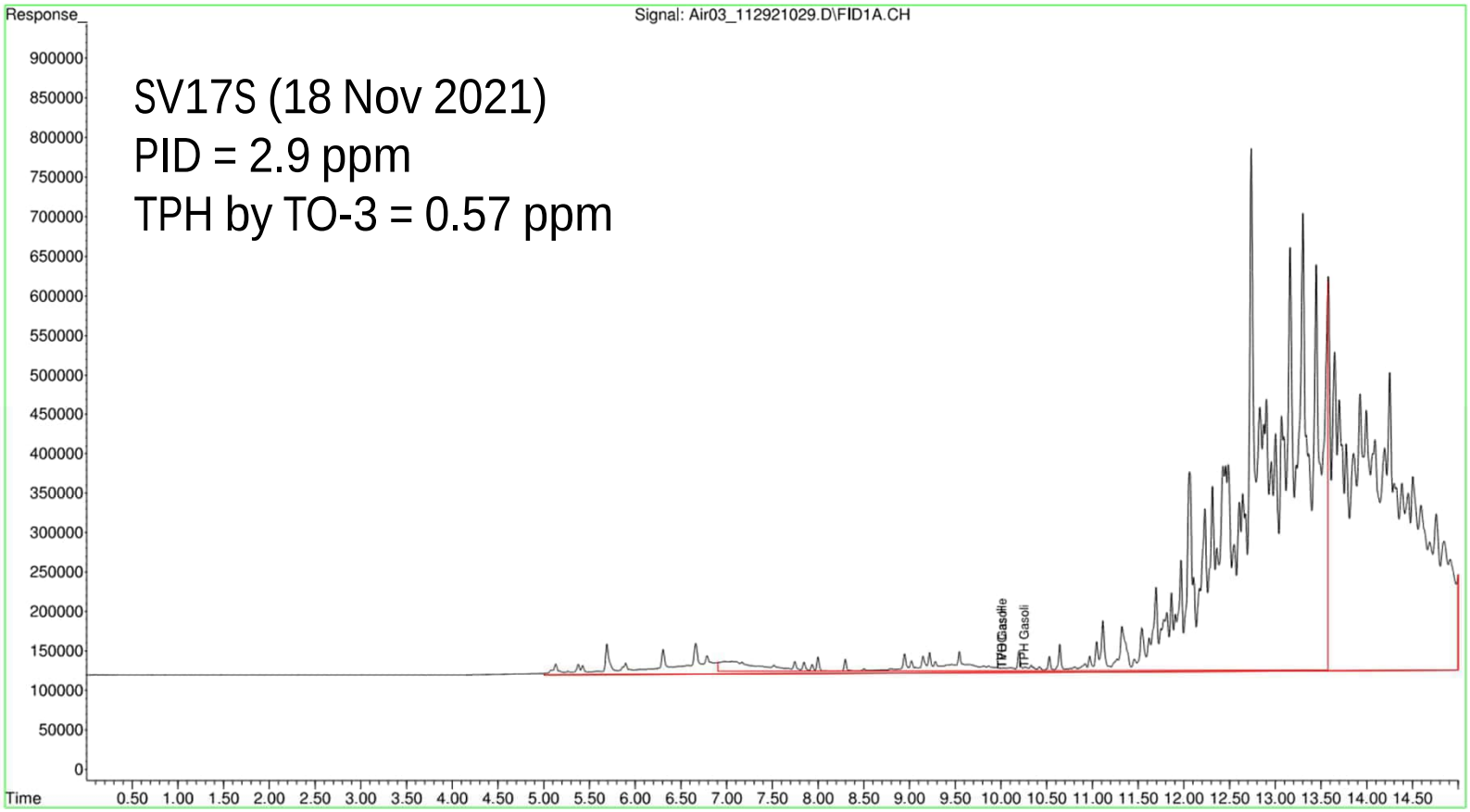
November 2021
Soil Vapor Samples

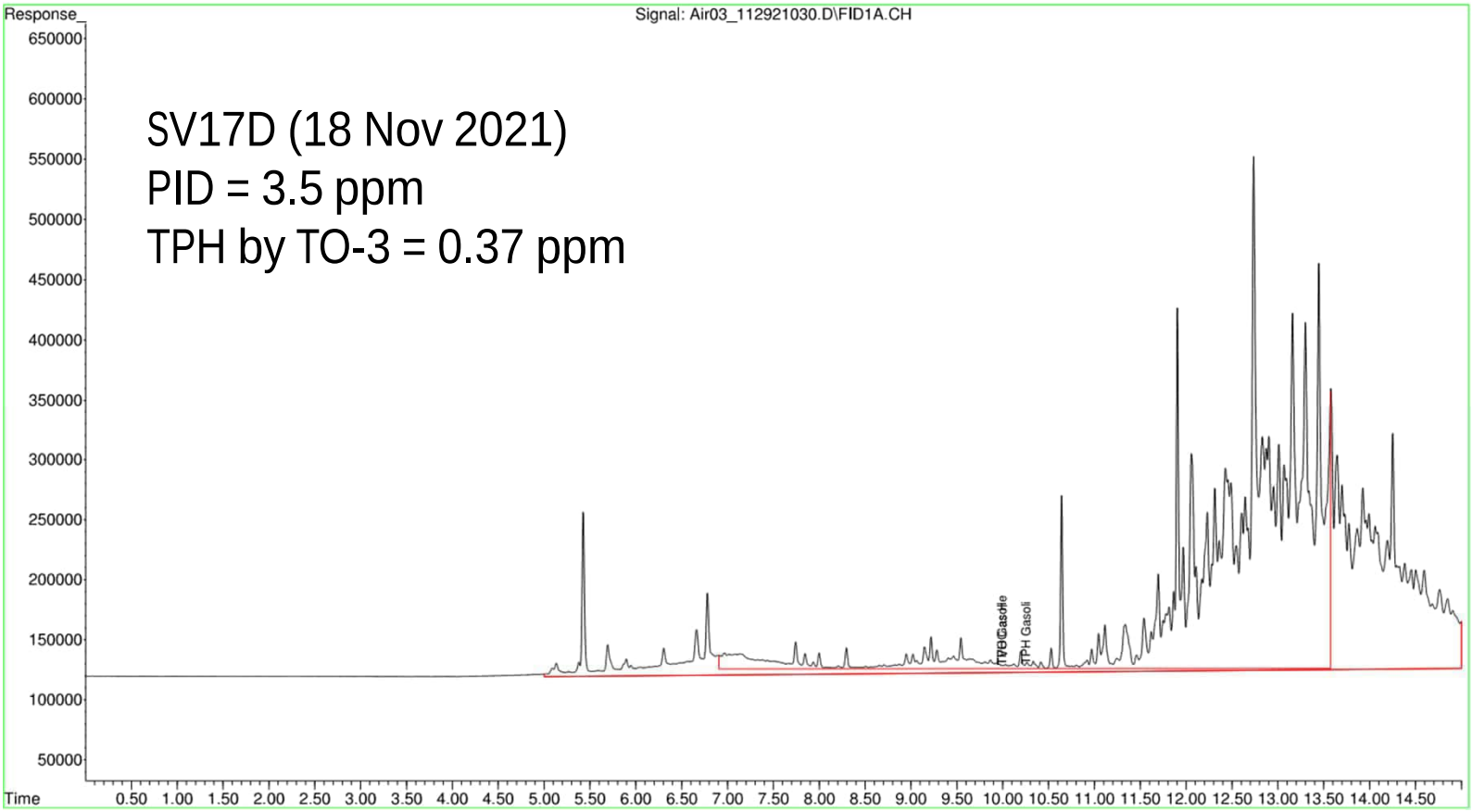
FID Chromatograms

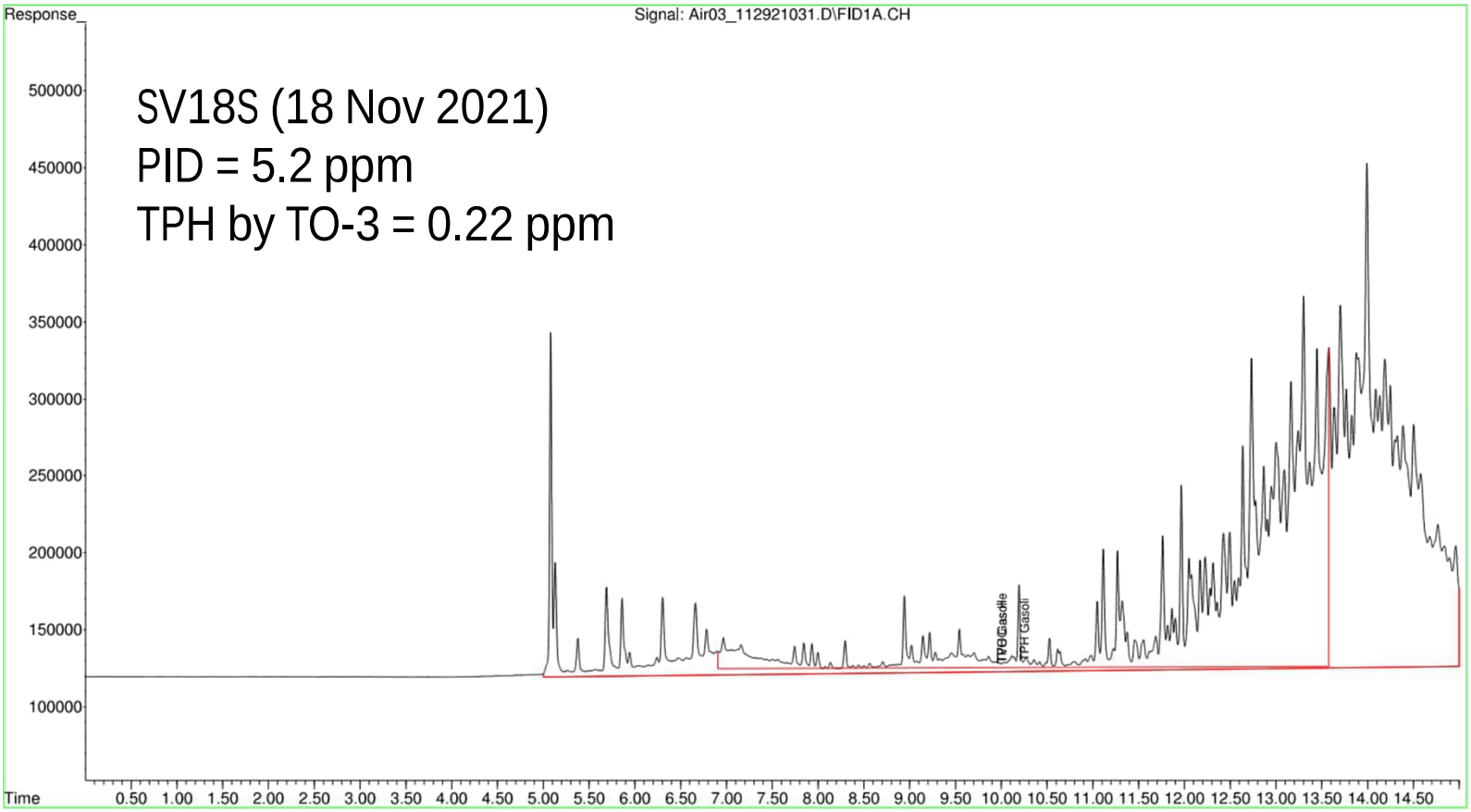

Response_
Signal: Air03_112921021.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
TPH Gasoil
Time

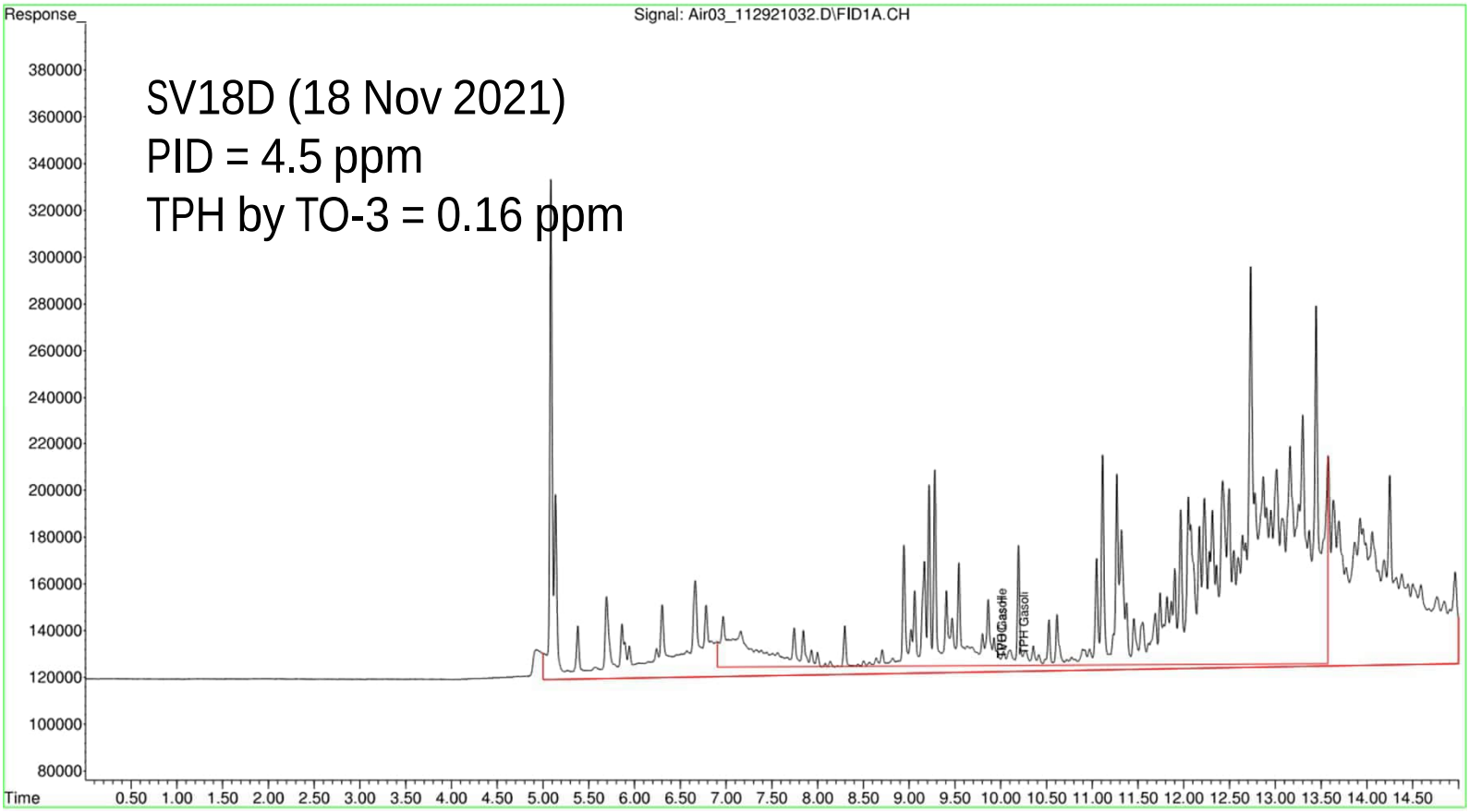

Response_
Signal: Air03_112921027.D\FID1A.CH
SV15S (18 Nov 2021)
PID = 0.14 ppm
TPH by TO-3 = <0.05 ppm
TPH Gasoil
Time

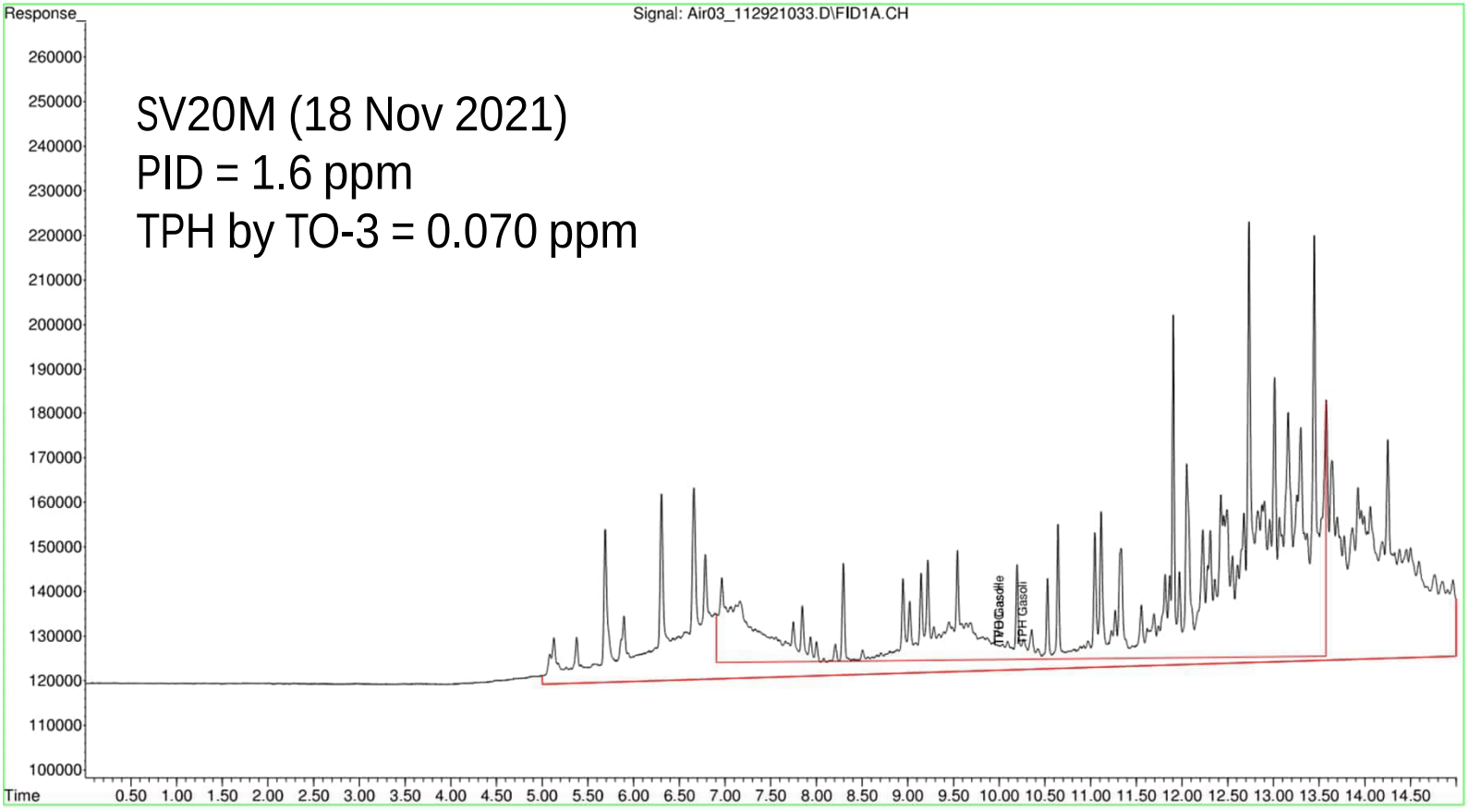

Response_
Signal: Air03_112921028.D\FID1A.CH
SV15D (18 Nov 2021)
PID = 0.15 ppm
TPH by TO-3 = 0.090 ppm
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli

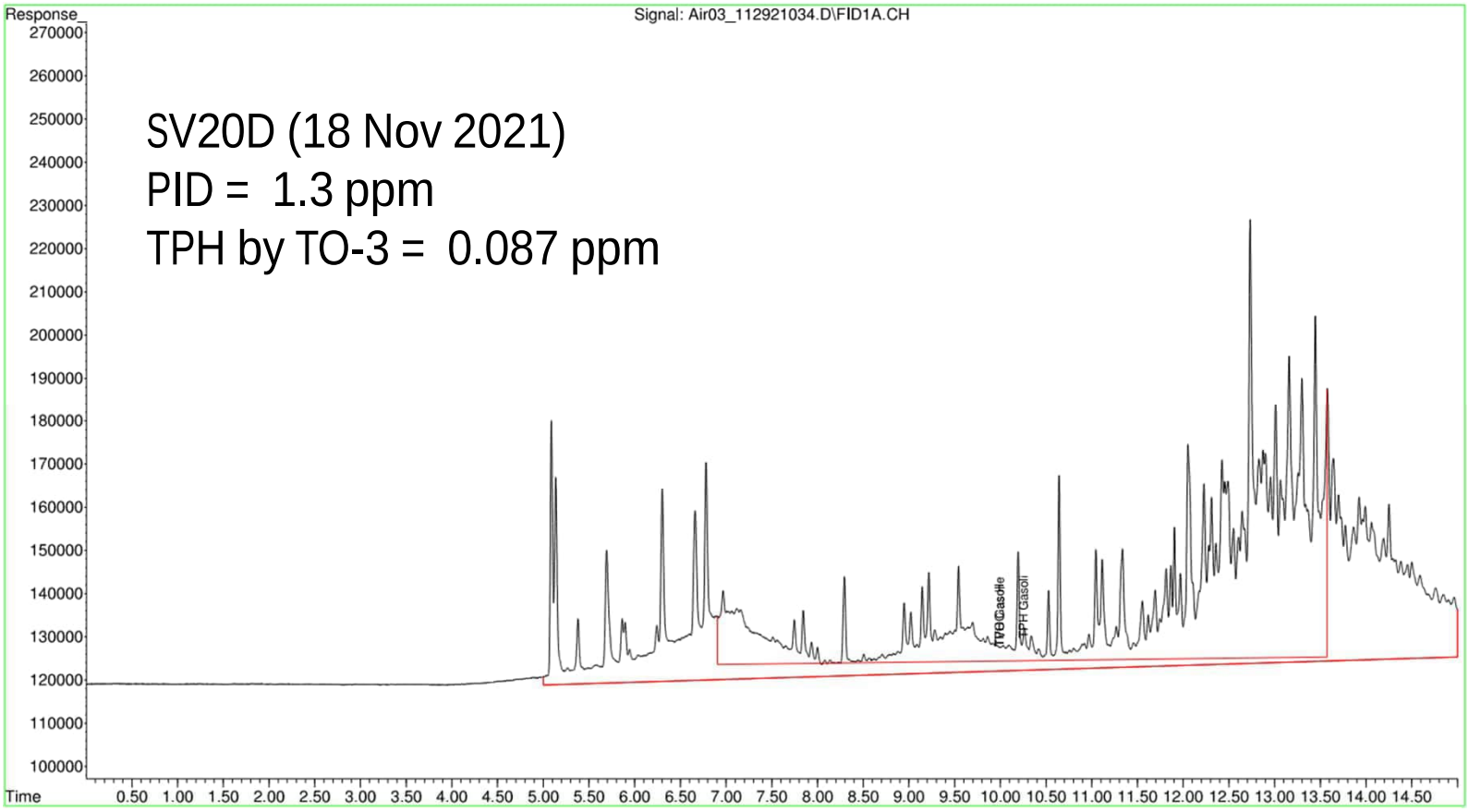

Response_
Signal: Air03_112921029.D\FID1A.CH
SV17S (18 Nov 2021)
PID = 2.9 ppm
TPH by TO-3 = 0.57 ppm
900000
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli


Response_
Signal: Air03_112921030.D\FID1A.CH
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SV17D (18 Nov 2021)
PID = 3.5 ppm
TPH by TO-3 = 0.37 ppm


Response_
Signal: Air03_112921031.D\FID1A.CH
500000
450000
400000
350000
300000
250000
200000
150000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50 12.00 12.50 13.00 13.50 14.00 14.50
TPH Gasoli
SV18S (18 Nov 2021)
PID = 5.2 ppm
TPH by TO-3 = 0.22 ppm


Response_
Signal: Air03_112921032.D\FID1A.CH
SV18D (18 Nov 2021)
PID = 4.5 ppm
TPH by TO-3 = 0.16 ppm
TPH Gasoil
TPH Gasoil
Time

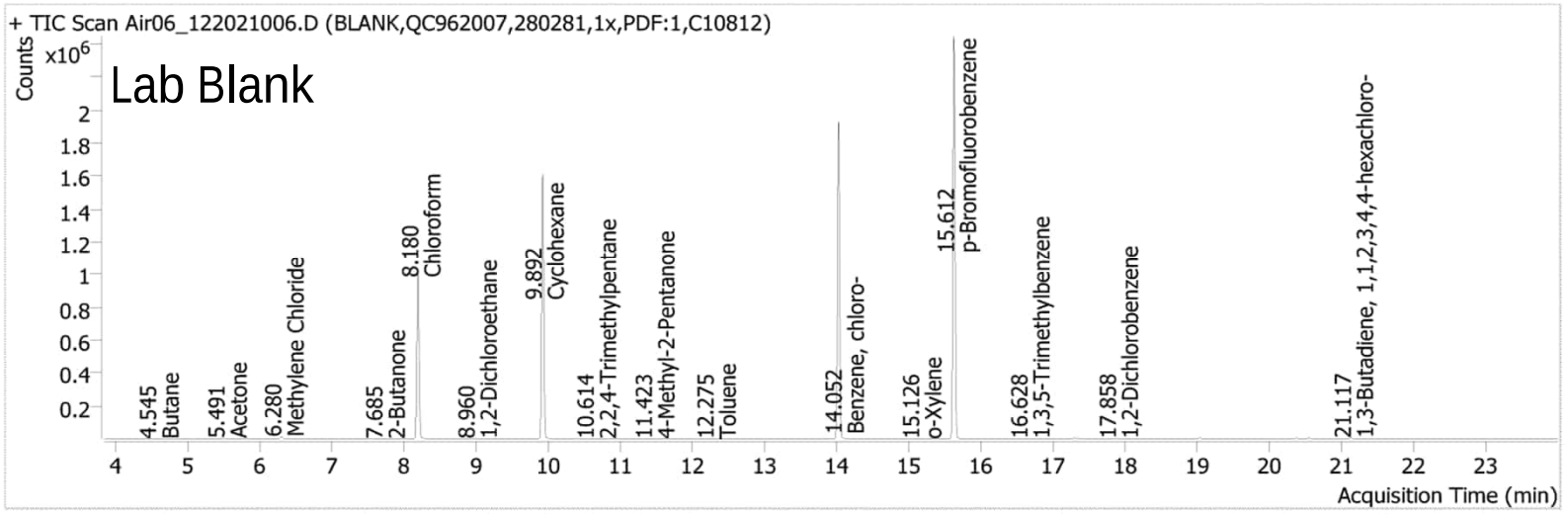

Response_
Signal: Air03_112921033.D\FID1A.CH
SV20M (18 Nov 2021)
PID = 1.6 ppm
TPH by TO-3 = 0.070 ppm
TPH Gasoil
TPH Gasoil
Time

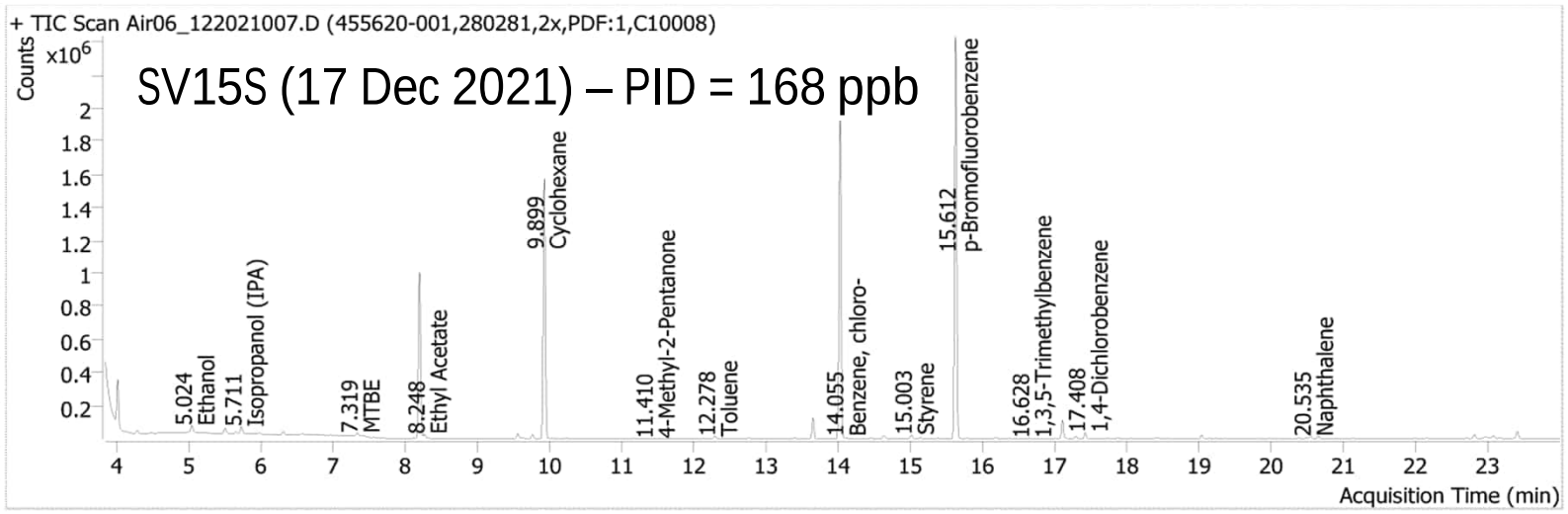


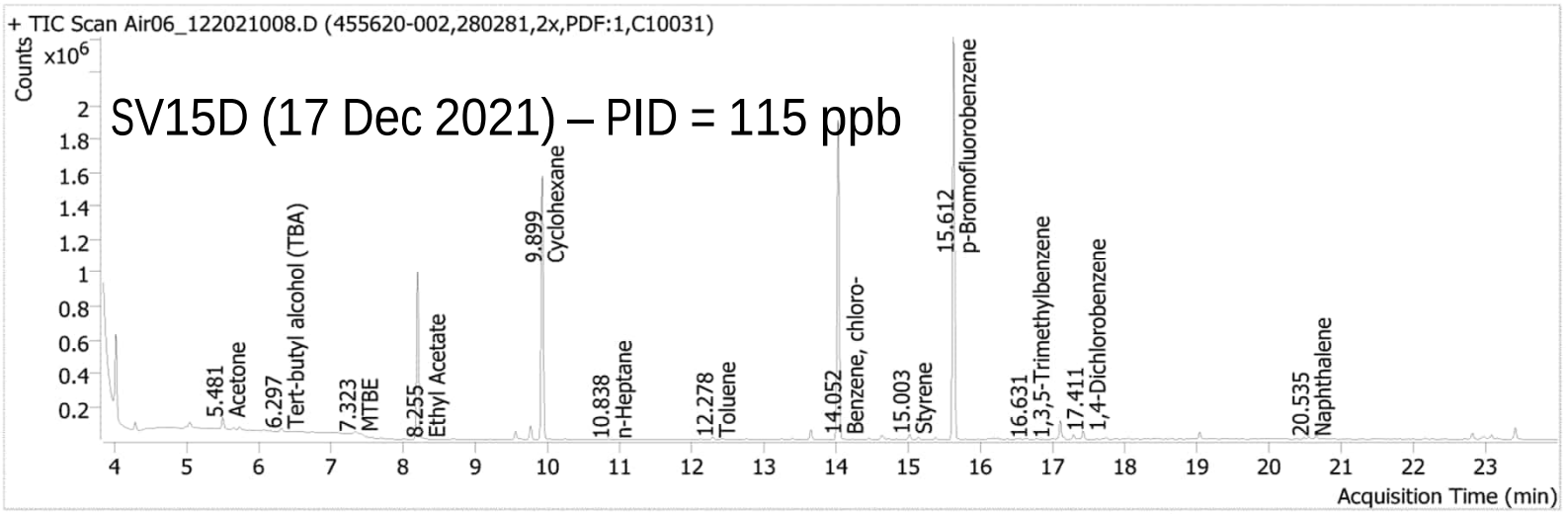
SV20D (18 Nov 2021)
PID = 1.3 ppm
TPH by TO-3 = 0.087 ppm

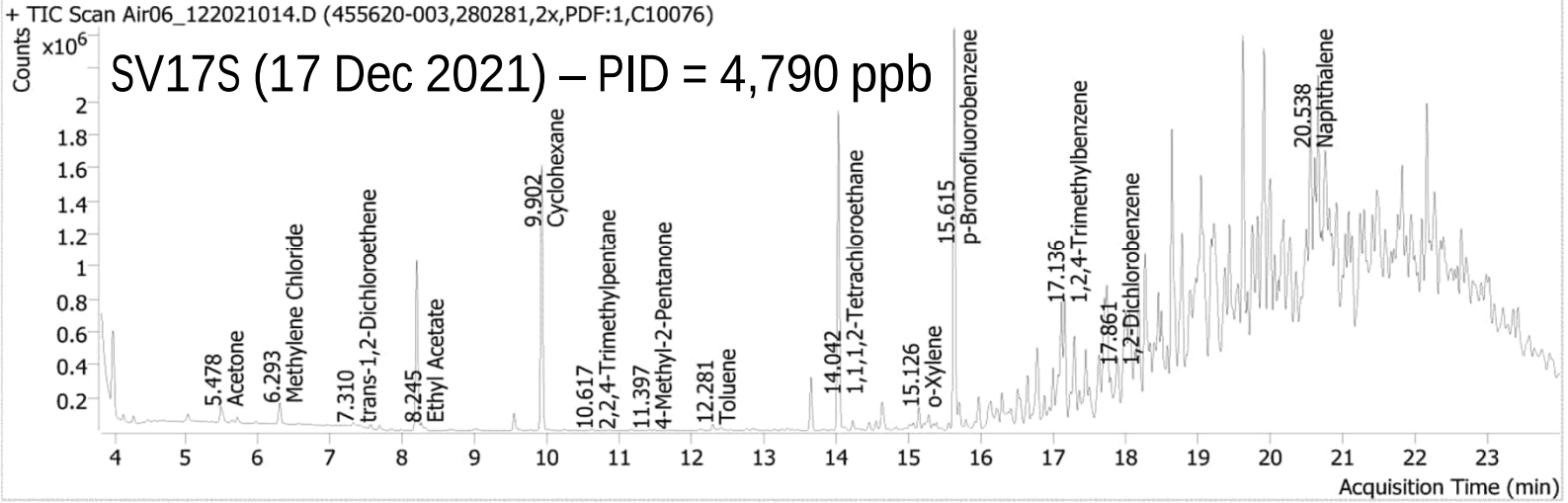
December 2021
Soil Vapor Samples

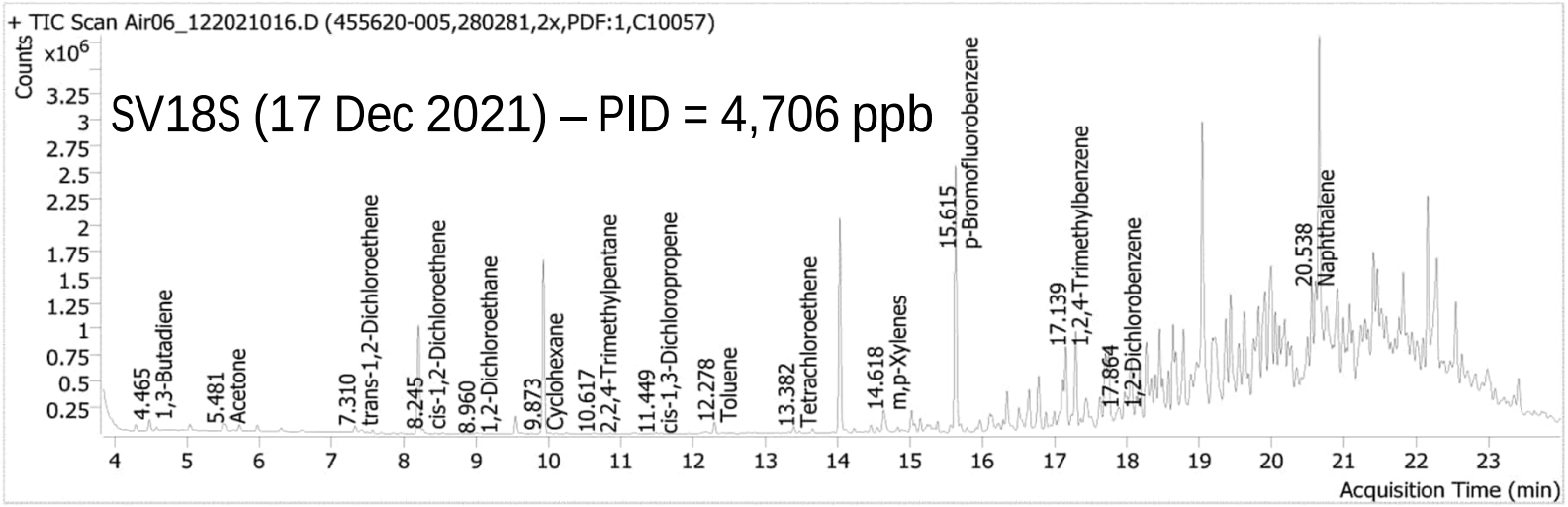
Mass Spec Chromatograms

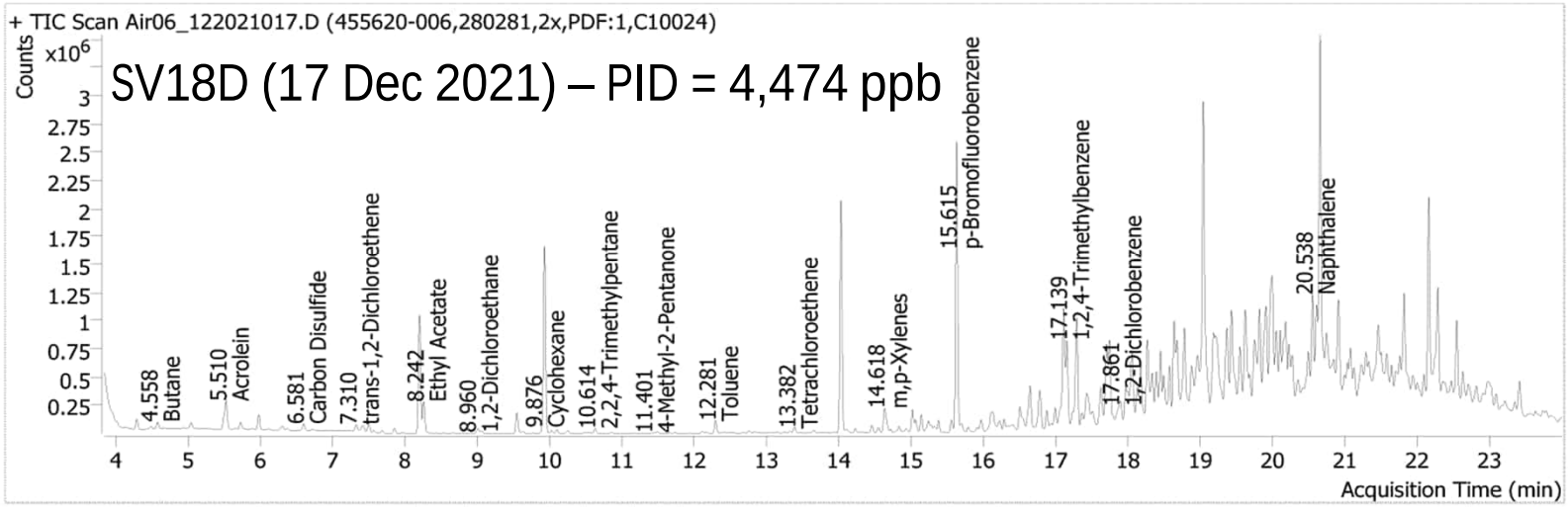

+ TIC Scan Air06_122021006.D (BLANK,QC962007,280281,1x,PDF:1,C10812)
Lab Blank
Counts
x10^6
4.545 Butane
5.491 Acetone
6.280 Methylene Chloride
7.685 2-Butanone
8.180 Chloroform
8.960 1,2-Dichloroethane
9.892 Cyclohexane
10.614 2,2,4-Trimethylpentane
11.423 4-Methyl-2-Pentanone
12.275 Toluene
14.052 Benzene, chloro-
15.126 o-Xylene
15.612 p-Bromofluorobenzene
16.628 1,3,5-Trimethylbenzene
17.858 1,2-Dichlorobenzene
21.117 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

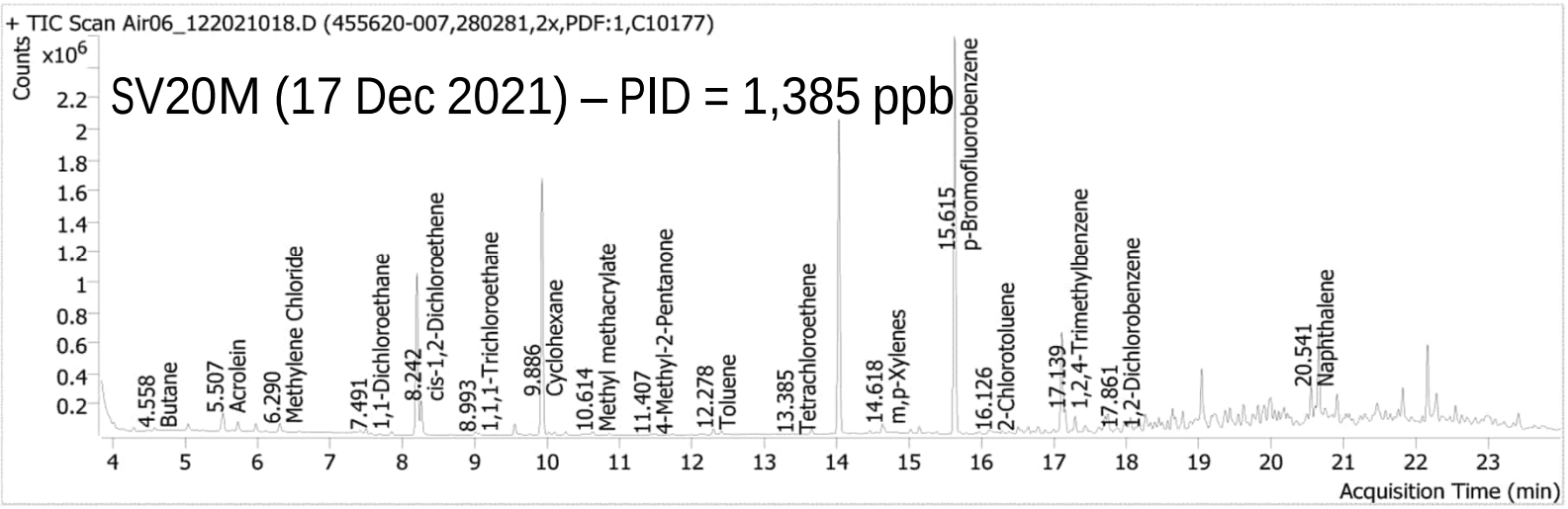

+ TIC Scan Air06_122021007.D (455620-001,280281,2x,PDF:1,C10008)
SV15S (17 Dec 2021) – PID = 168 ppb
Counts
x10^6
5.024 Ethanol
5.711 Isopropanol (IPA)
7.319 MTBE
8.248 Ethyl Acetate
9.899 Cyclohexane
11.410 4-Methyl-2-Pentanone
12.278 Toluene
14.055 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.628 1,3,5-Trimethylbenzene
17.408 1,4-Dichlorobenzene
20.535 Naphthalene
Acquisition Time (min)

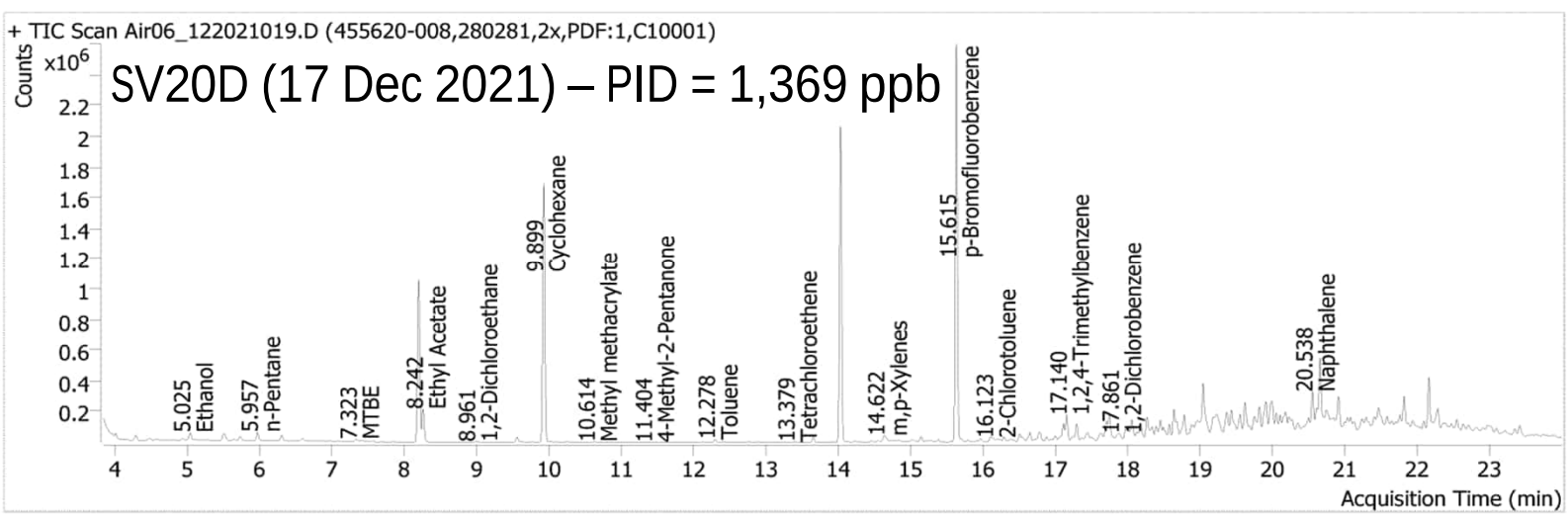

+ TIC Scan Air06_122021008.D (455620-002,280281,2x,PDF:1,C10031)
SV15D (17 Dec 2021) – PID = 115 ppb
Counts
x10^6
5.481 Acetone
6.297 Tert-butyl alcohol (TBA)
7.323 MTBE
8.255 Ethyl Acetate
9.899 Cyclohexane
10.838 n-Heptane
12.278 Toluene
14.052 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.631 1,3,5-Trimethylbenzene
17.411 1,4-Dichlorobenzene
20.535 Naphthalene
Acquisition Time (min)

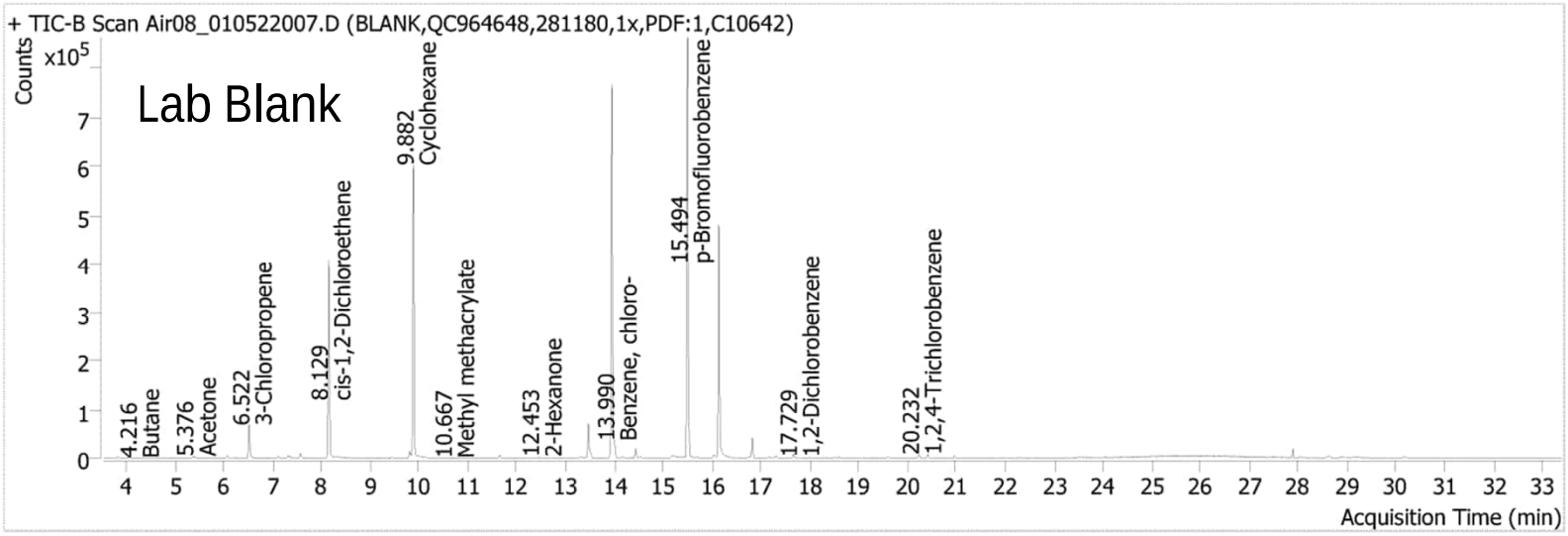

+ TIC Scan Air06_122021014.D (455620-003,280281,2x,PDF:1,C10076)
SV17S (17 Dec 2021) – PID = 4,790 ppb
Counts
x10^6
5.478 Acetone
6.293 Methylene Chloride
7.310 trans-1,2-Dichloroethene
8.245 Ethyl Acetate
9.902 Cyclohexane
10.617 2,2,4-Trimethylpentane
11.397 4-Methyl-2-Pentanone
12.281 Toluene
14.042 1,1,1,2-Tetrachloroethane
15.126 o-Xylene
15.615 p-Bromofluorobenzene
17.136 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)

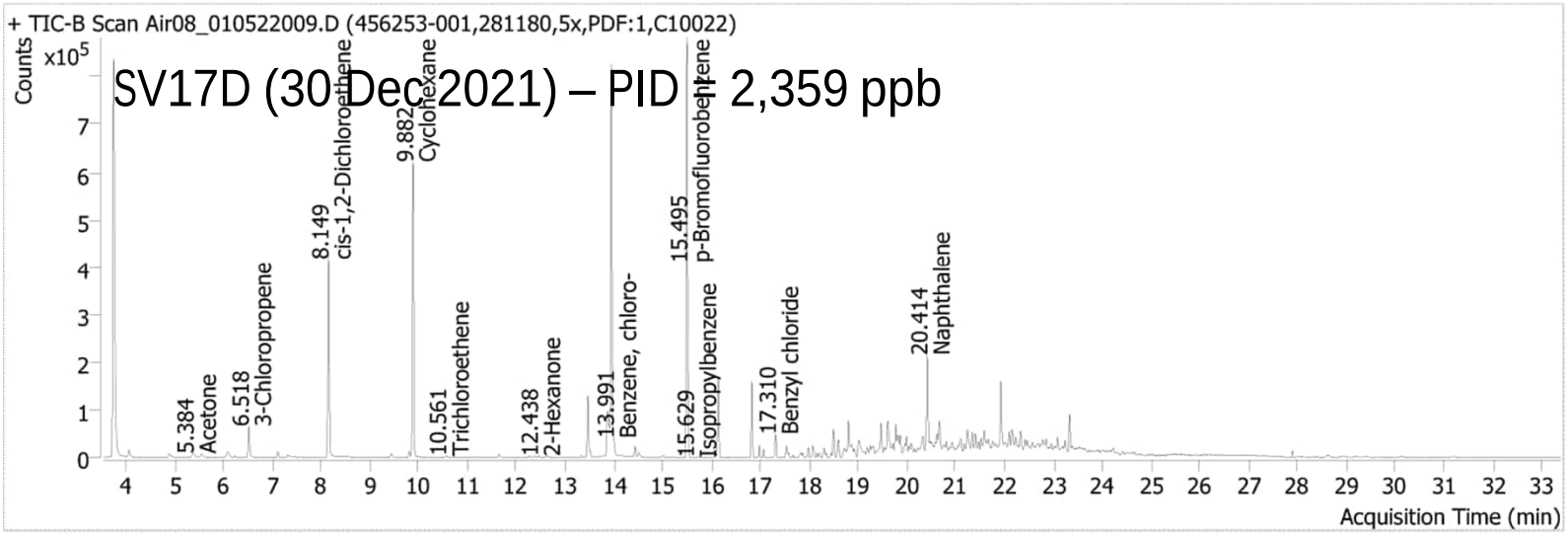

+ TIC Scan Air06_122021016.D (455620-005,280281,2x,PDF:1,C10057)
SV18S (17 Dec 2021) – PID = 4,706 ppb
Counts
x10^6
4.465 1,3-Butadiene
5.481 Acetone
7.310 trans-1,2-Dichloroethene
8.245 cis-1,2-Dichloroethene
8.960 1,2-Dichloroethane
9.873 Cyclohexane
10.617 2,2,4-Trimethylpentane
11.449 cis-1,3-Dichloropropene
12.278 Toluene
13.382 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.139 1,2,4-Trimethylbenzene
17.864 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_122021017.D (455620-006,280281,2x,PDF:1,C10024)
SV18D (17 Dec 2021) – PID = 4,474 ppb
Counts
x10^6
4.558 Butane
5.510 Acrolein
6.581 Carbon Disulfide
7.310 trans-1,2-Dichloroethene
8.242 Ethyl Acetate
8.960 1,2-Dichloroethane
9.876 Cyclohexane
10.614 2,2,4-Trimethylpentane
11.401 4-Methyl-2-Pentanone
12.281 Toluene
13.382 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
17.139 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_122021018.D (455620-007,280281,2x,PDF:1,C10177)
SV20M (17 Dec 2021) – PID = 1,385 ppb
Counts
x10^6
4.558 Butane
5.507 Acrolein
6.290 Methylene Chloride
7.491 1,1-Dichloroethane
8.242 cis-1,2-Dichloroethene
8.993 1,1,1-Trichloroethane
9.886 Cyclohexane
10.614 Methyl methacrylate
11.407 4-Methyl-2-Pentanone
12.278 Toluene
13.385 Tetrachloroethene
14.618 m,p-Xylenes
15.615 p-Bromofluorobenzene
16.126 2-Chlorotoluene
17.139 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.541 Naphthalene
Acquisition Time (min)

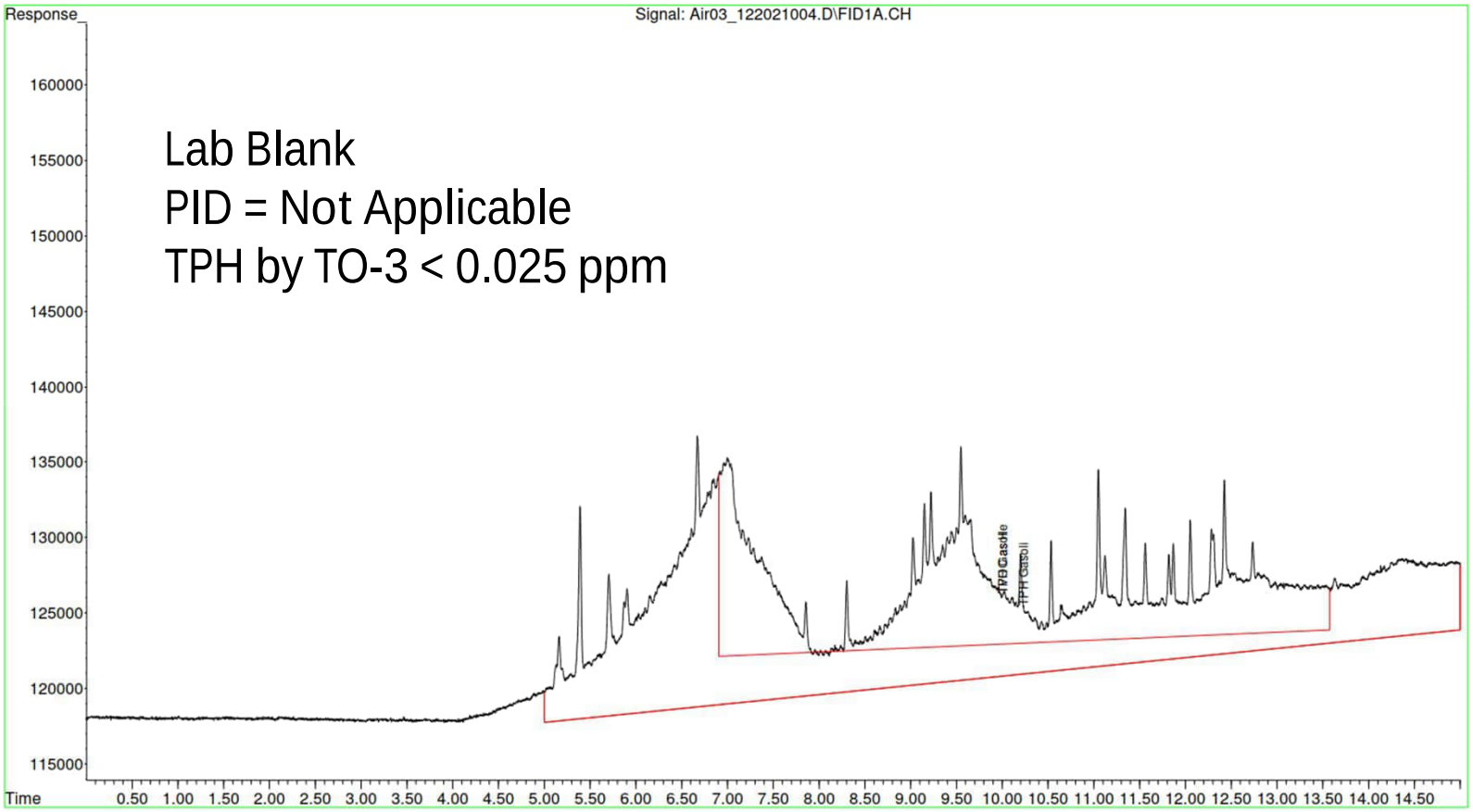

+ TIC Scan Air06_122021019.D (455620-008,280281,2x,PDF:1,C10001)
SV20D (17 Dec 2021) – PID = 1,369 ppb
Counts
x10^6
5.025 Ethanol
5.957 n-Pentane
7.323 MTBE
8.242 Ethyl Acetate
8.961 1,2-Dichloroethane
9.899 Cyclohexane
10.614 Methyl methacrylate
11.404 4-Methyl-2-Pentanone
12.278 Toluene
13.379 Tetrachloroethene
14.622 m,p-Xylenes
15.615 p-Bromofluorobenzene
16.123 2-Chlorotoluene
17.140 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.538 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_010522007.D (BLANK,QC964648,281180,1x,PDF:1,C10642)
Counts
x10^5
Lab Blank
4.216 Butane
5.376 Acetone
6.522 3-Chloropropene
8.129 cis-1,2-Dichloroethene
9.882 Cyclohexane
10.667 Methyl methacrylate
12.453 2-Hexanone
13.990 Benzene, chloro-
15.494 p-Bromofluorobenzene
17.729 1,2-Dichlorobenzene
20.232 1,2,4-Trichlorobenzene
Acquisition Time (min)

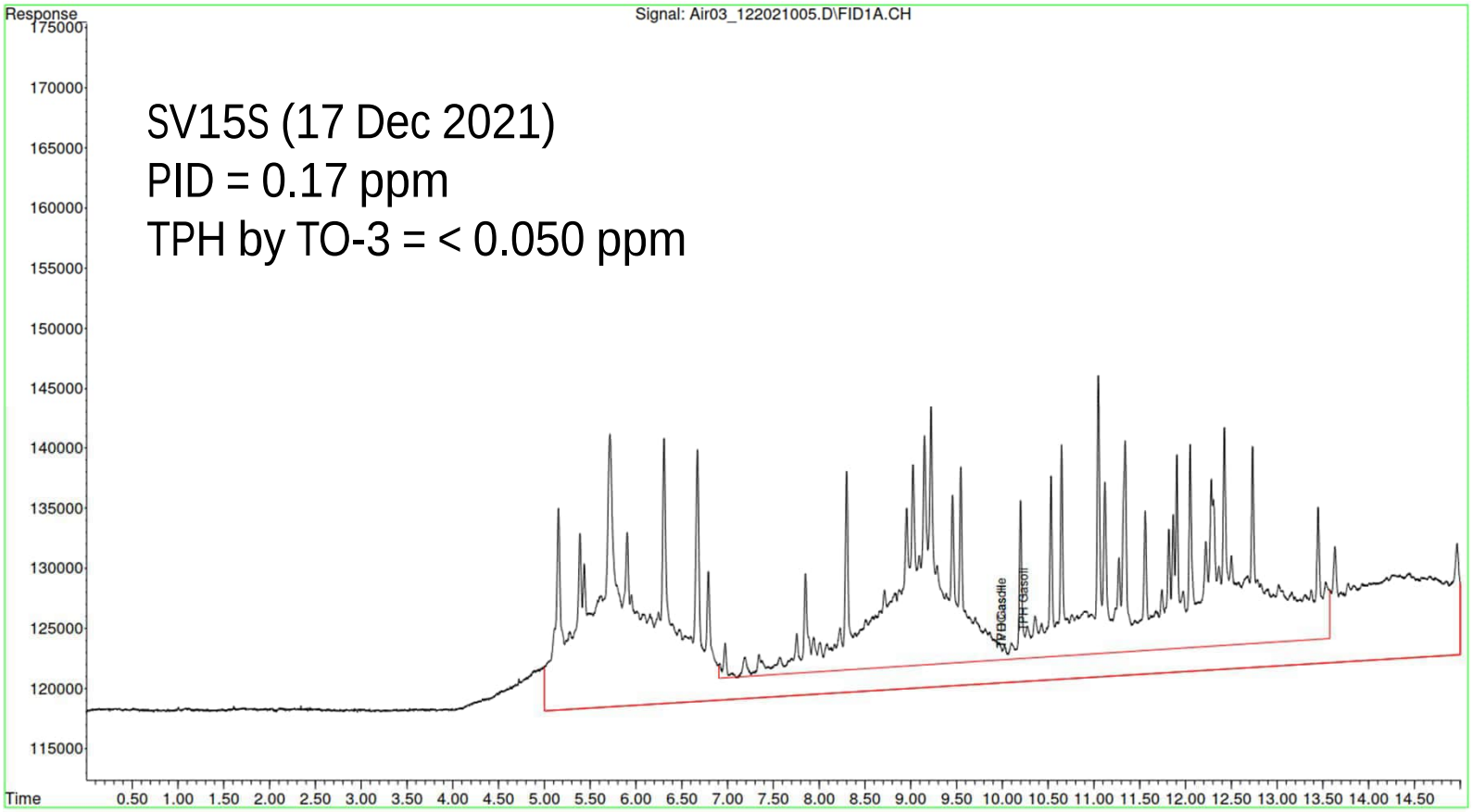

+ TIC-B Scan Air08_010522009.D (456253-001,281180,5x,PDF:1,C10022)
Counts
x10^5
SV17D (30 Dec 2021) – PID = 2,359 ppb
5.384 Acetone
6.518 3-Chloropropene
8.149 cis-1,2-Dichloroethene
9.882 Cyclohexane
10.561 Trichloroethene
12.438 2-Hexanone
13.991 Benzene, chloro-
15.495 p-Bromofluorobenzene
15.629 Isopropylbenzene
17.310 Benzyl chloride
20.414 Naphthalene
Acquisition Time (min)

December 2021
Soil Vapor Samples

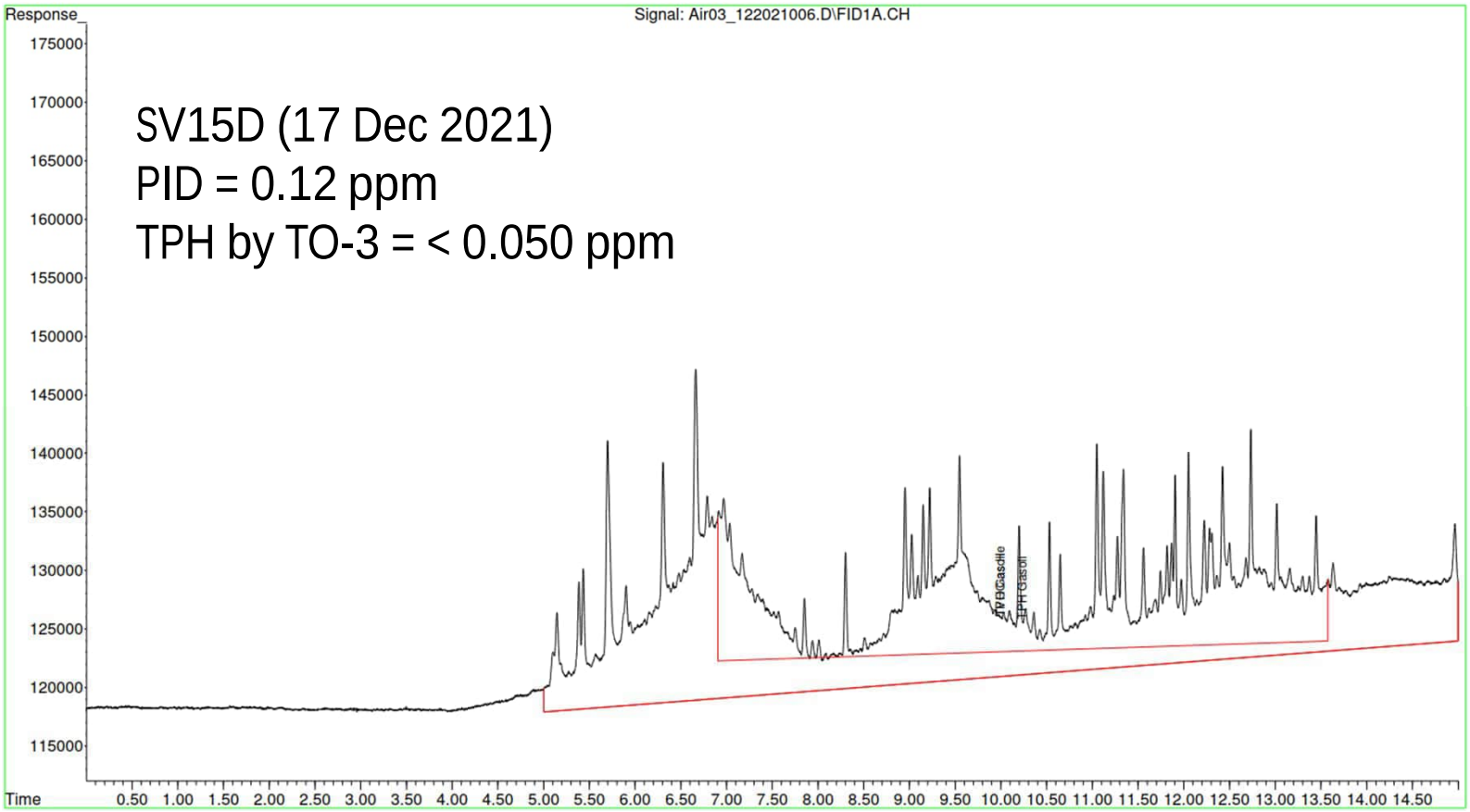
FID Chromatograms



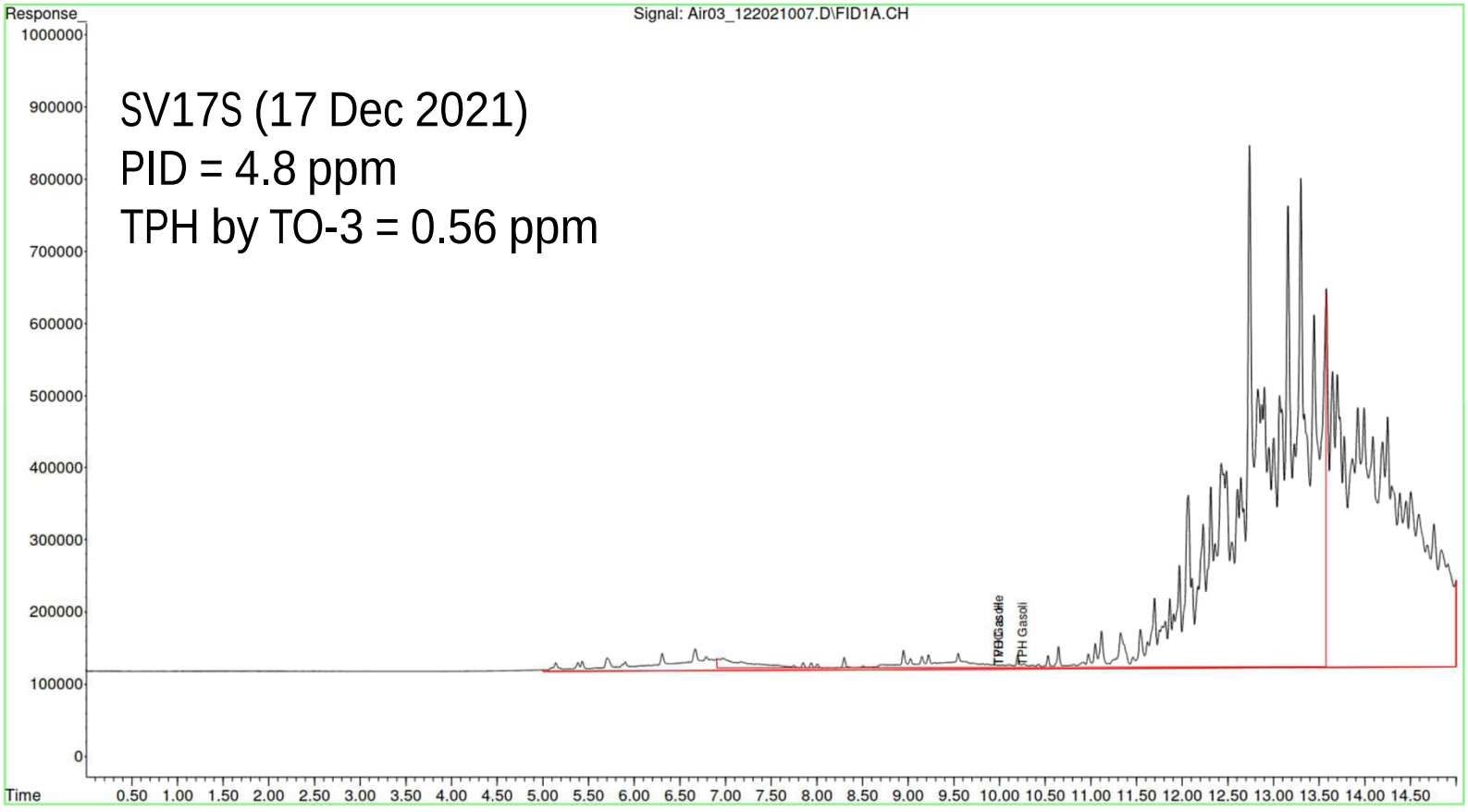
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm



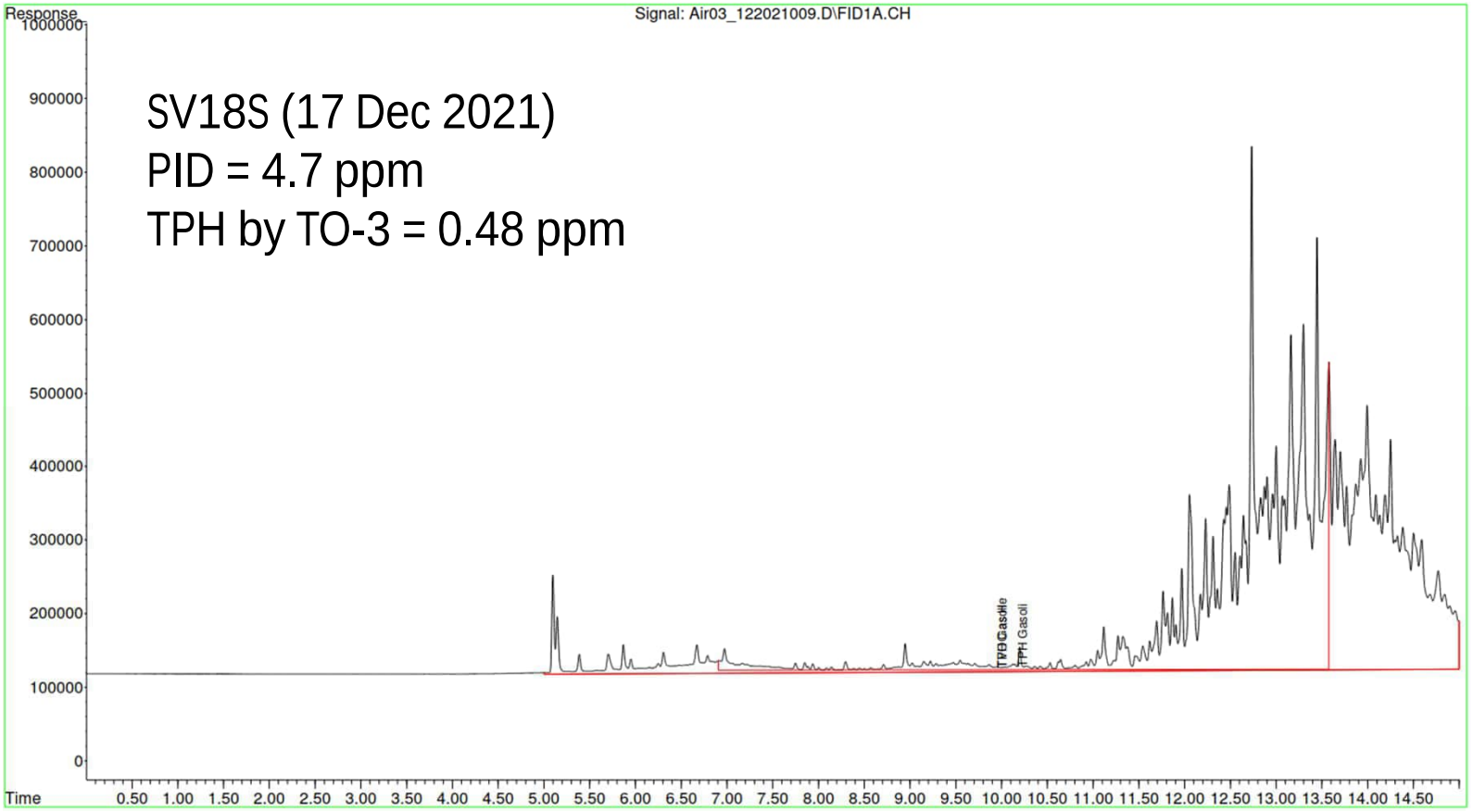
SV15S (17 Dec 2021)
PID = 0.17 ppm
TPH by TO-3 = < 0.050 ppm

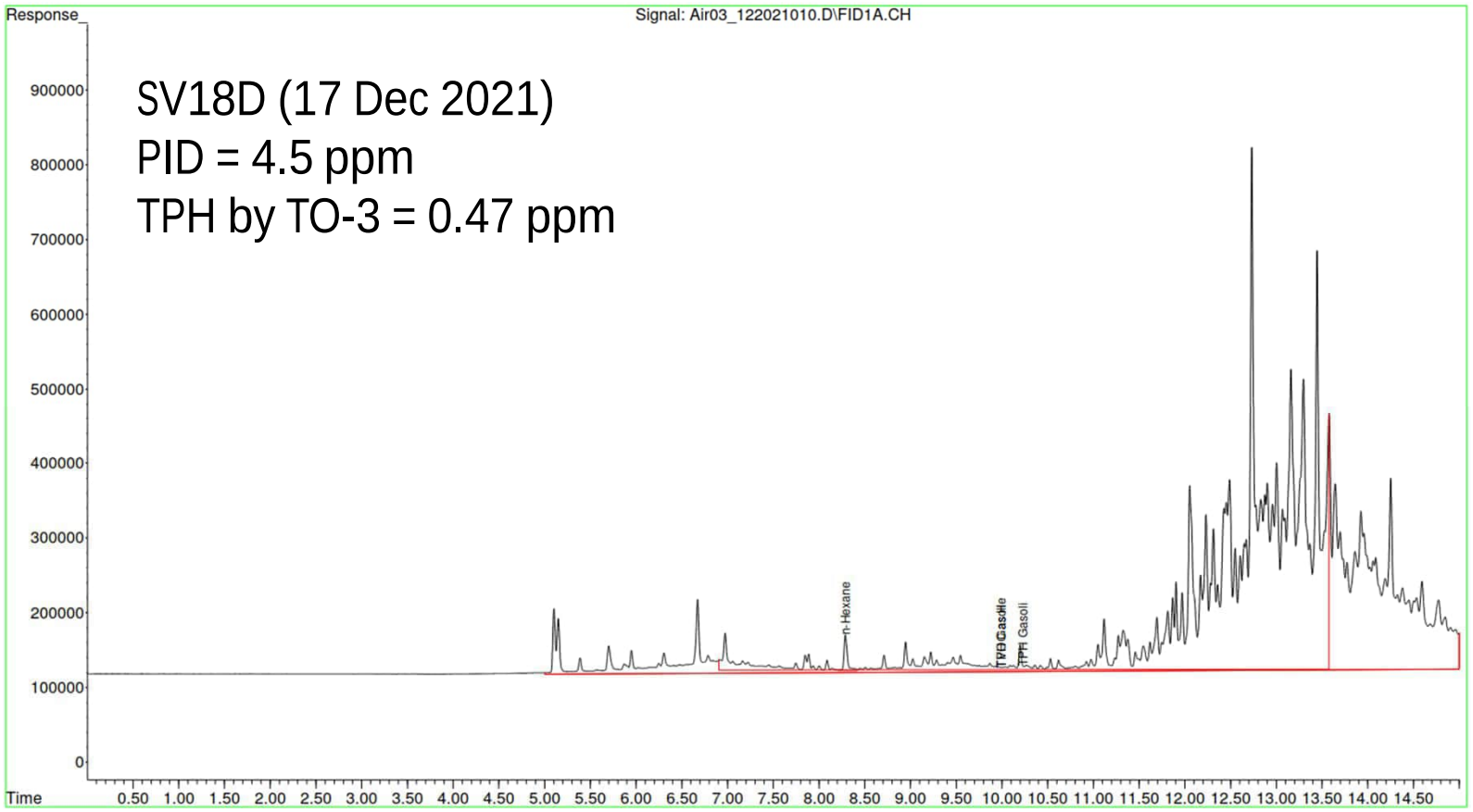


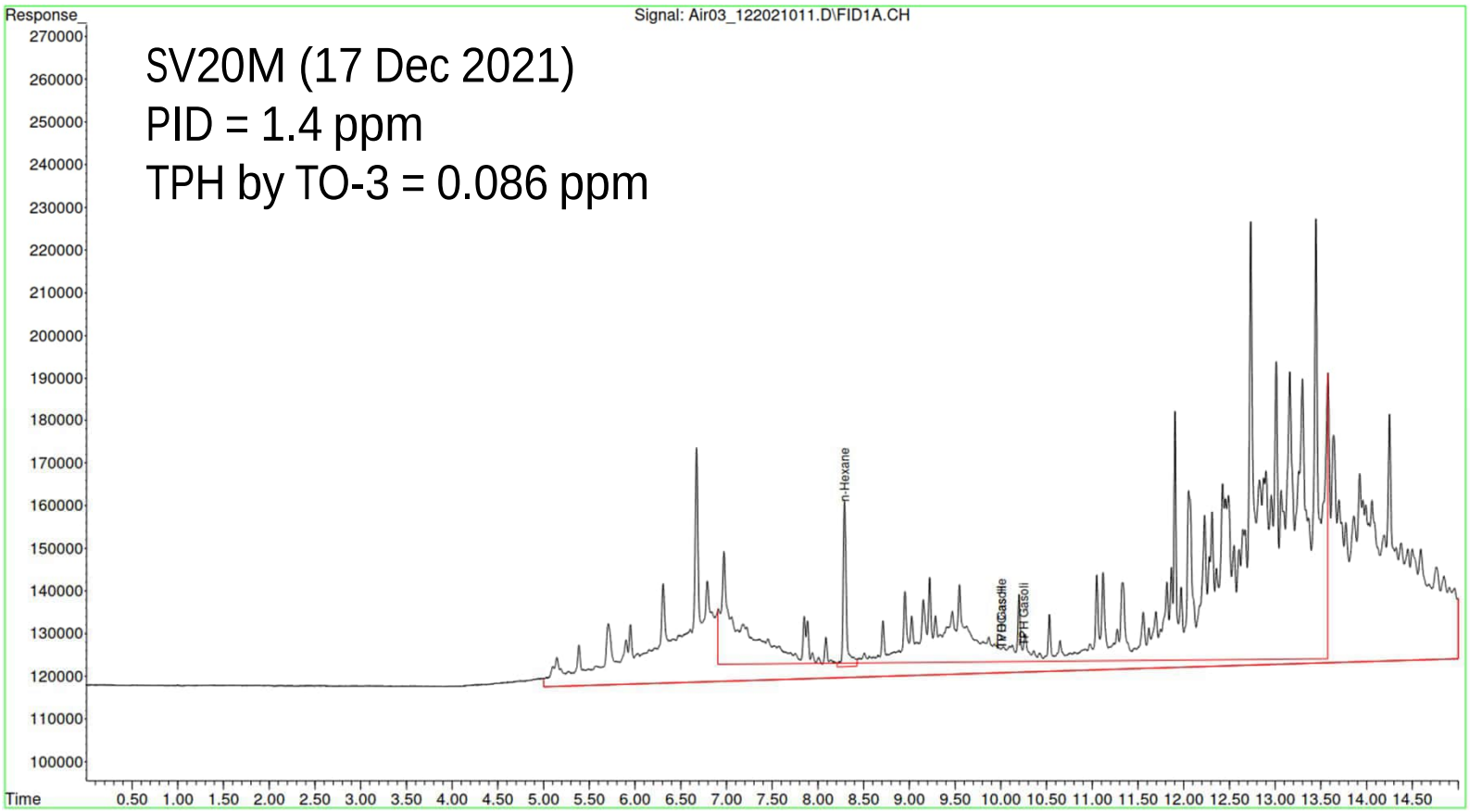
SV15D (17 Dec 2021)
PID = 0.12 ppm
TPH by TO-3 = < 0.050 ppm

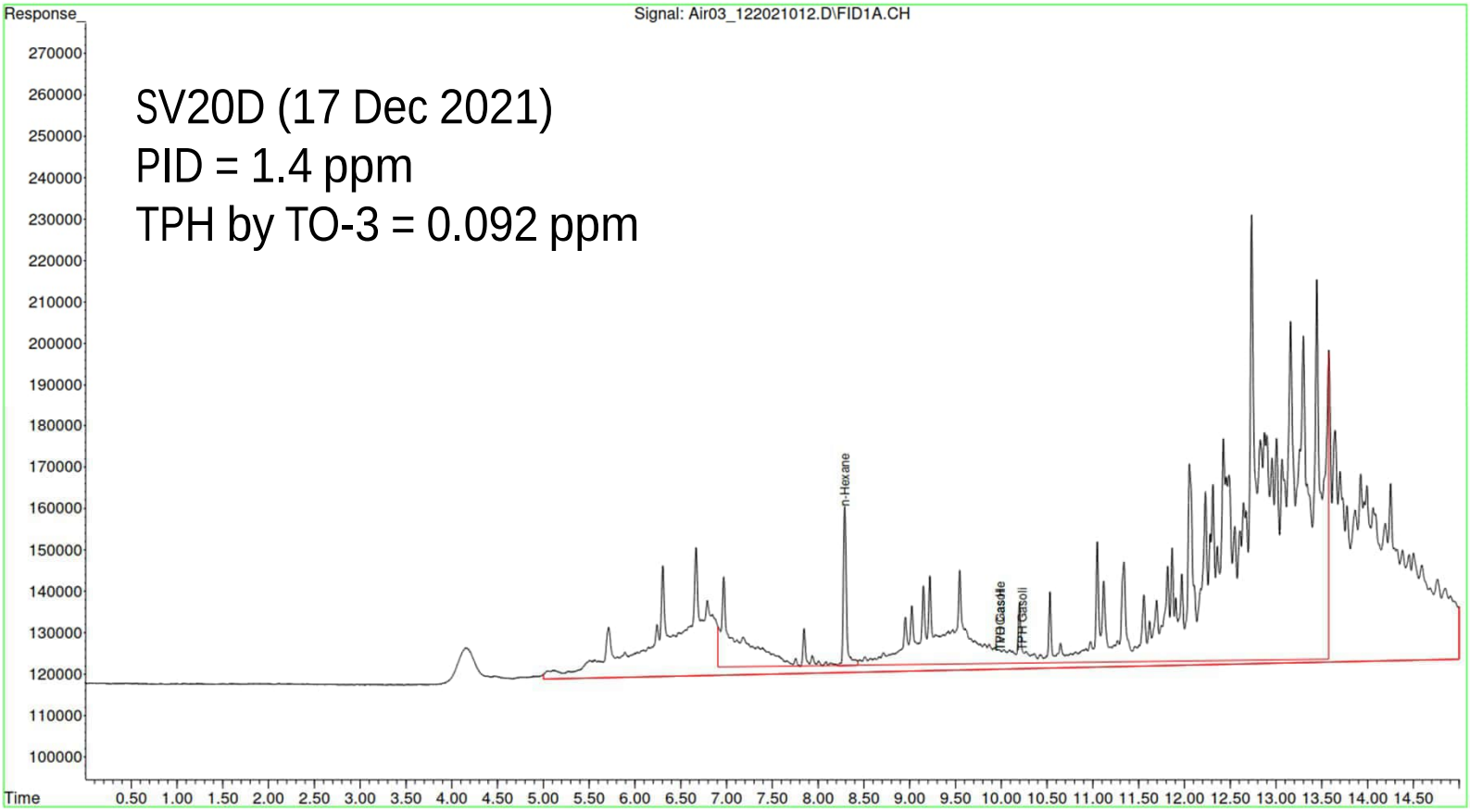


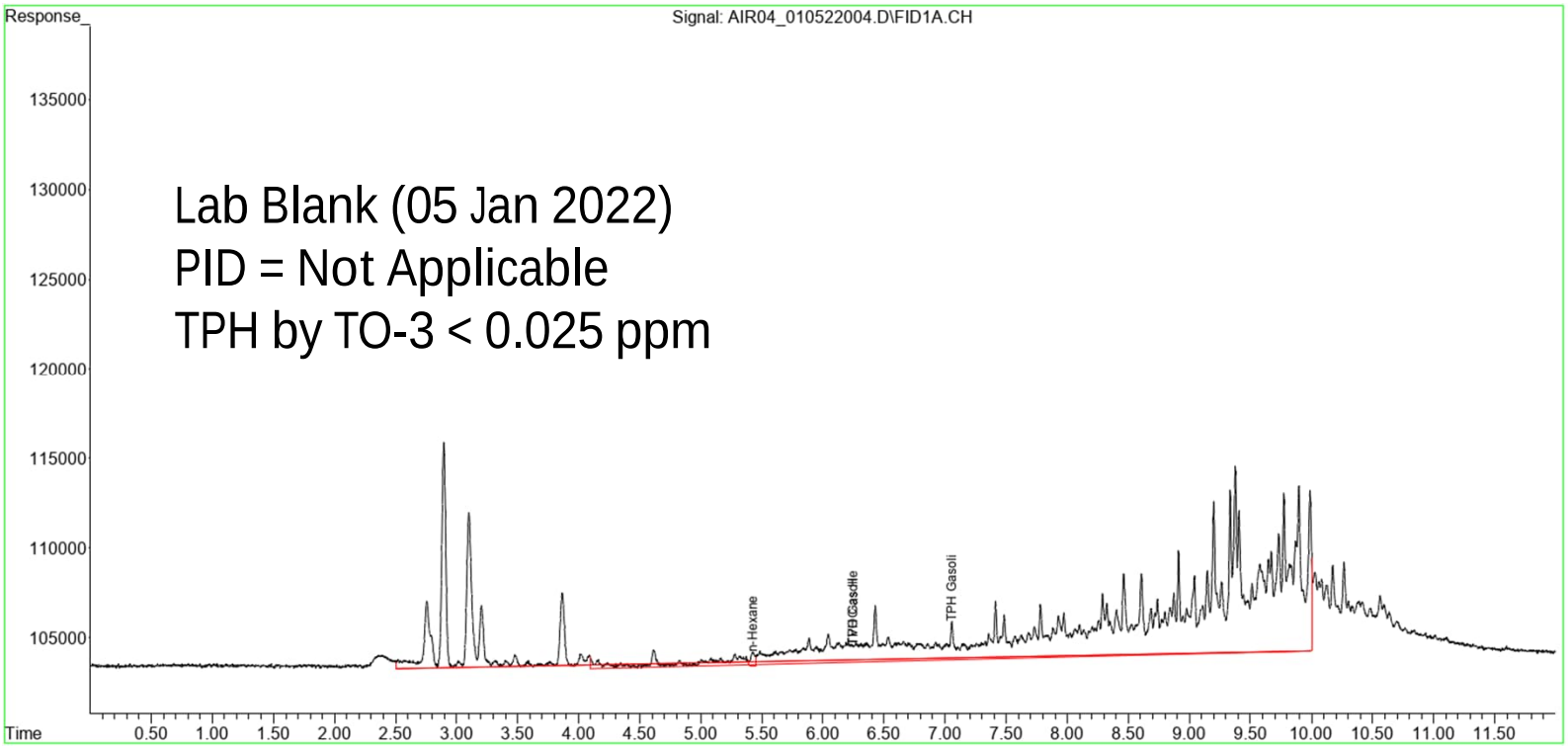
SV17S (17 Dec 2021)
PID = 4.8 ppm
TPH by TO-3 = 0.56 ppm

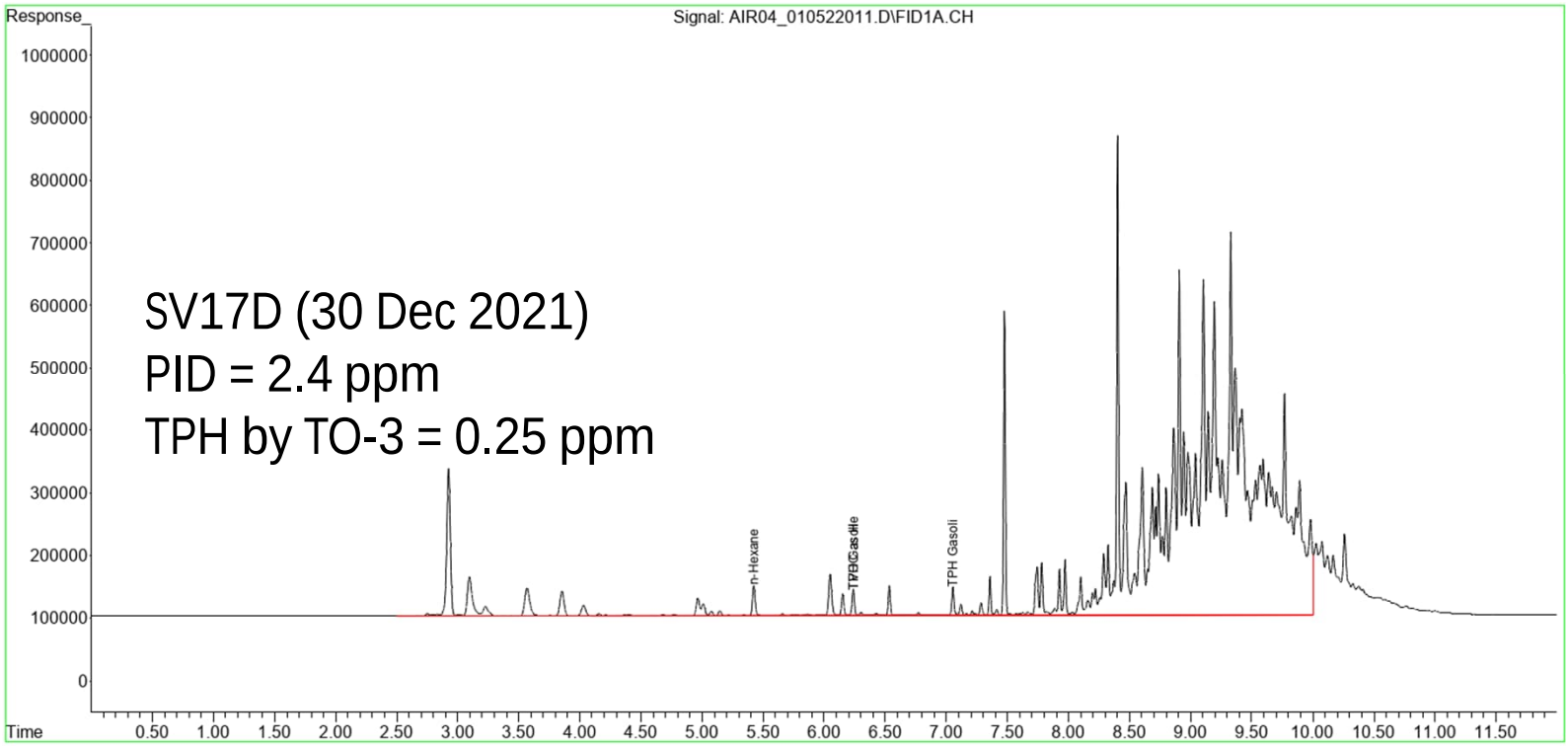

Response
Signal: Air03_122021009.D\FID1A.CH
SV18S (17 Dec 2021)
PID = 4.7 ppm
TPH by TO-3 = 0.48 ppm
TPH Gasoline
TPH Gasoil
Time


Response
Signal: Air03_122021010.D\FID1A.CH
SV18D (17 Dec 2021)
PID = 4.5 ppm
TPH by TO-3 = 0.47 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Response_
Signal: Air03_122021011.D\FID1A.CH
SV20M (17 Dec 2021)
PID = 1.4 ppm
TPH by TO-3 = 0.086 ppm
n-Hexane
Time

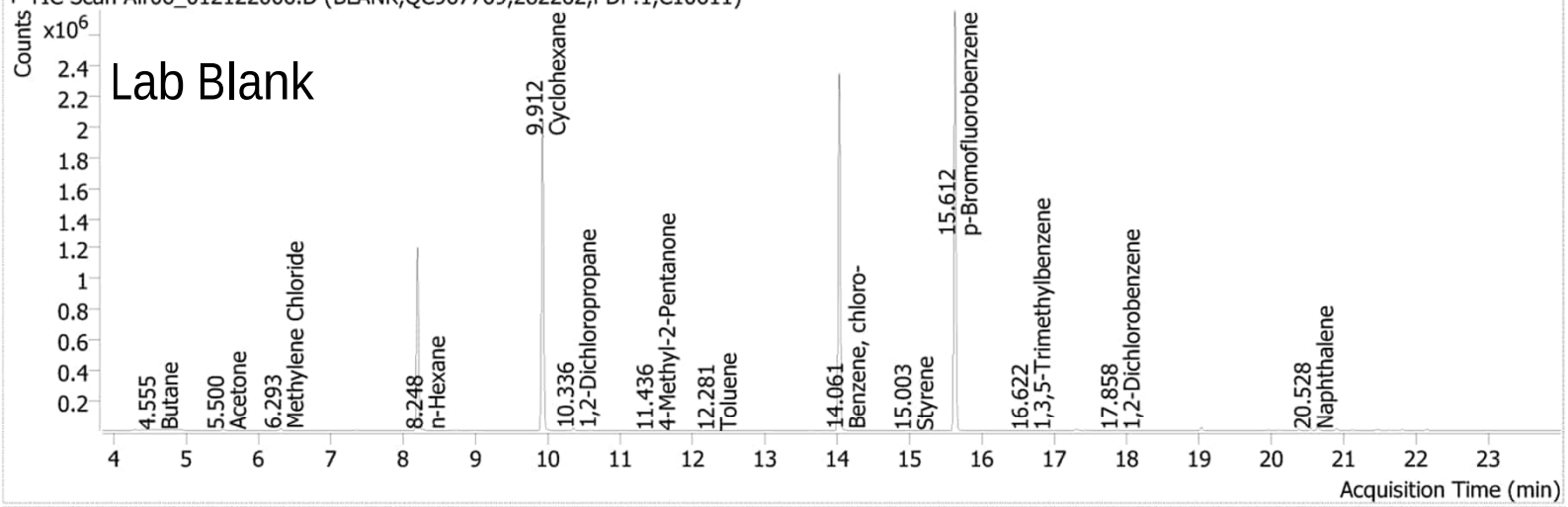

Response_
Signal: Air03_122021012.D\FID1A.CH
SV20D (17 Dec 2021)
PID = 1.4 ppm
TPH by TO-3 = 0.092 ppm
n-Hexane
Time

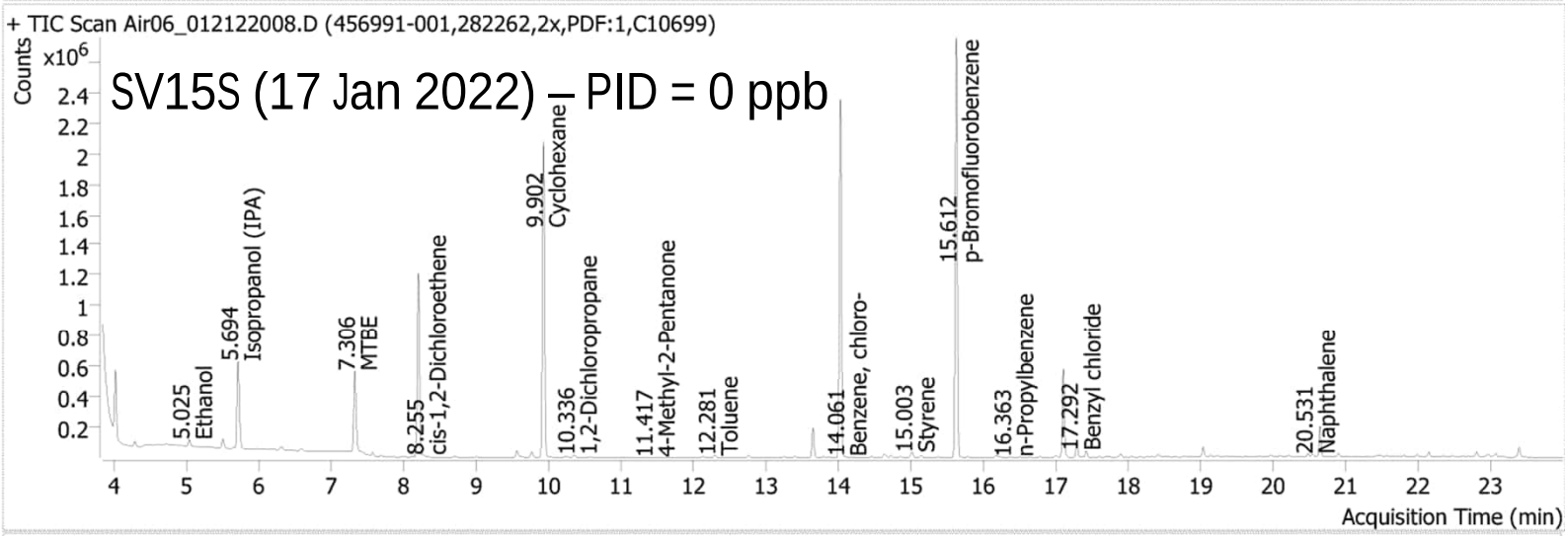

Response_
Signal: AIR04_010522004.D\FID1A.CH
135000
130000
125000
120000
115000
110000
105000
Lab Blank (05 Jan 2022)
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

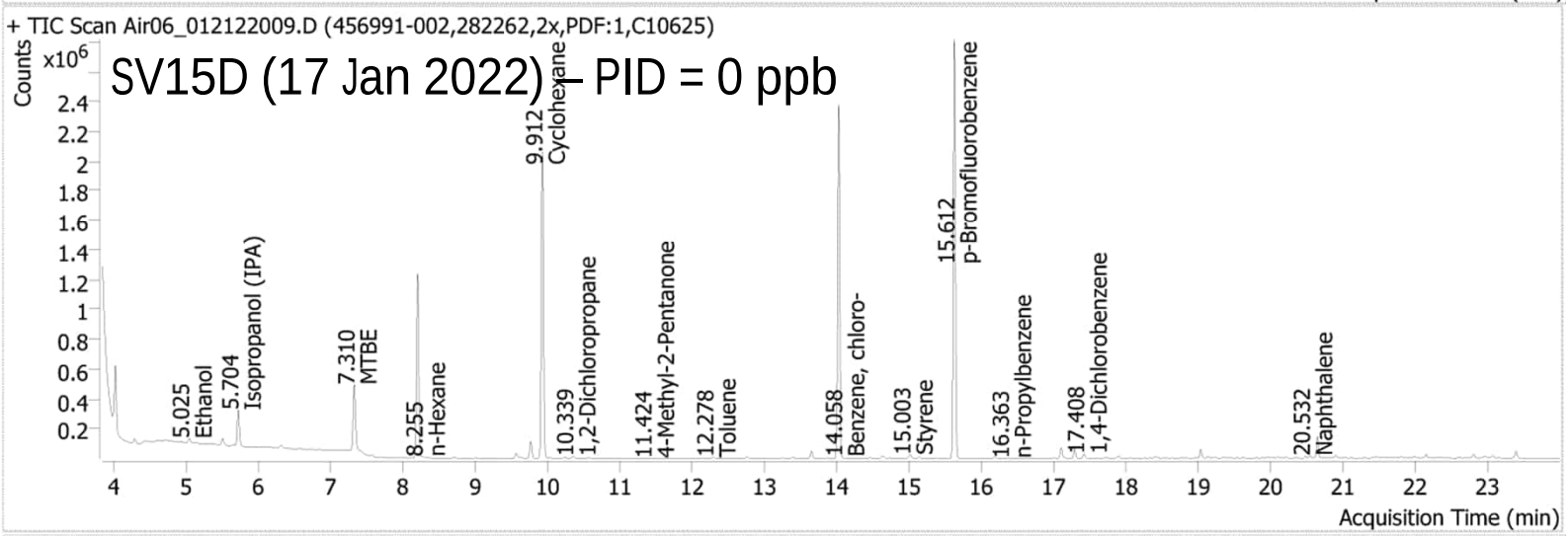

Response_
Signal: AIR04_010522011.D\FID1A.CH
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
SV17D (30 Dec 2021)
PID = 2.4 ppm
TPH by TO-3 = 0.25 ppm
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

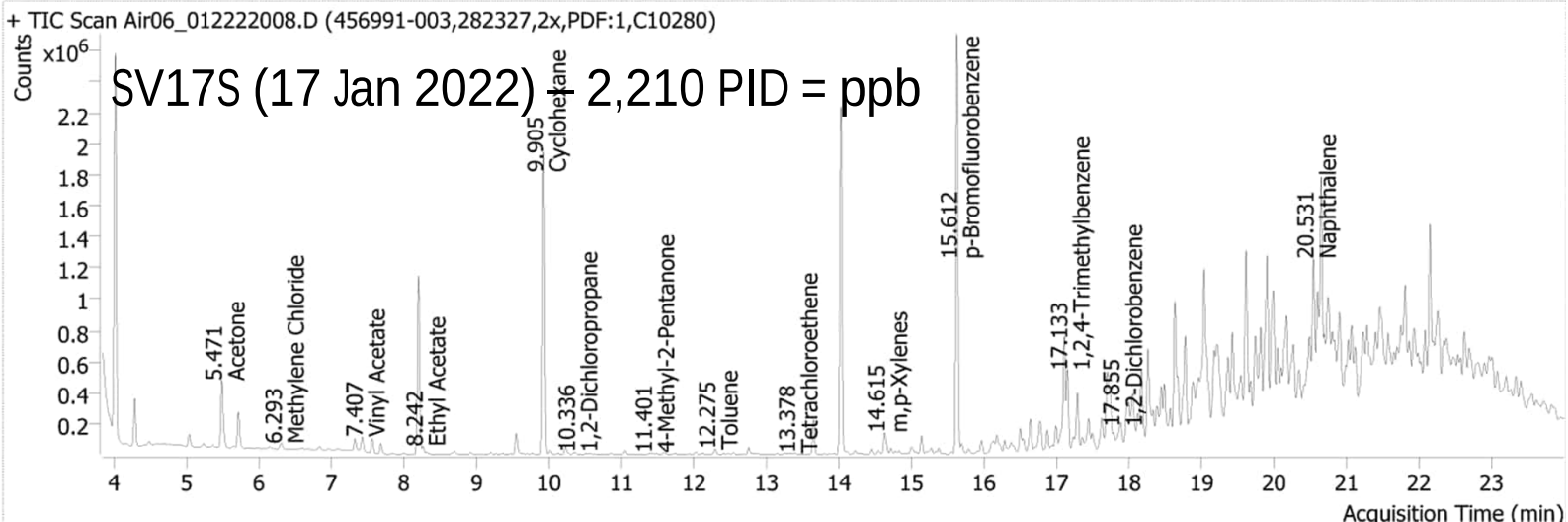
January 2022
Soil Vapor Samples

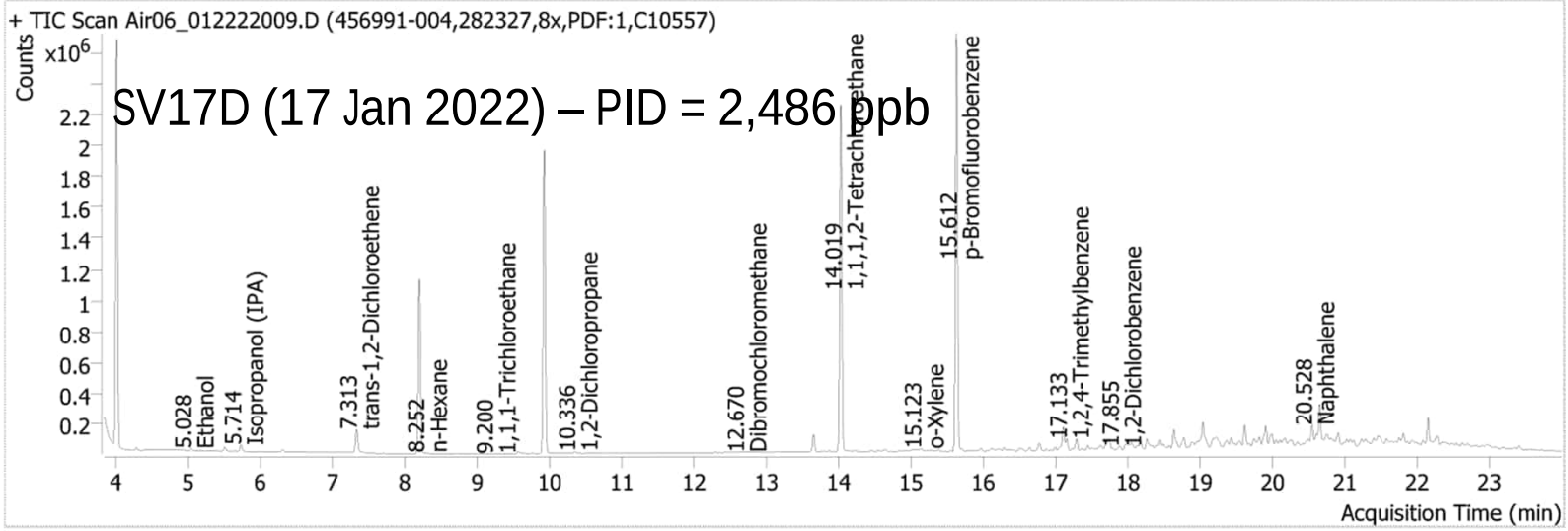
Mass Spec Chromatograms

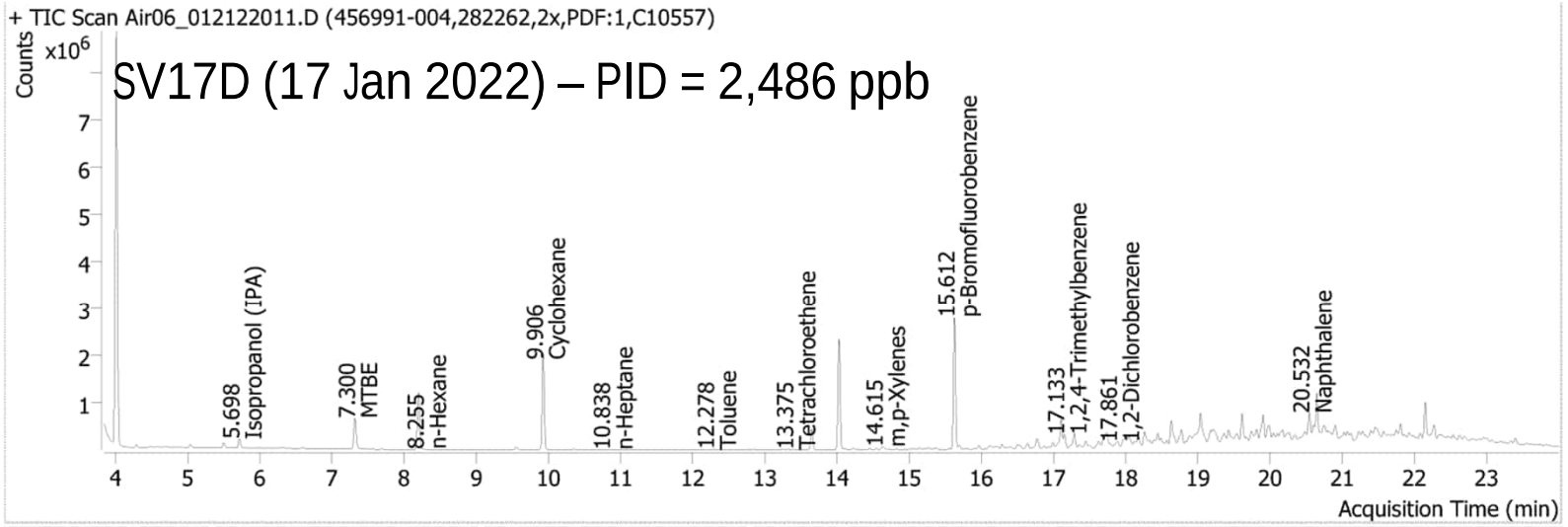

Lab Blank
Counts
x10^6
4.555 Butane
5.500 Acetone
6.293 Methylene Chloride
8.248 n-Hexane
9.912 Cyclohexane
10.336 1,2-Dichloropropane
11.436 4-Methyl-2-Pentanone
12.281 Toluene
14.061 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.622 1,3,5-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.528 Naphthalene
Acquisition Time (min)

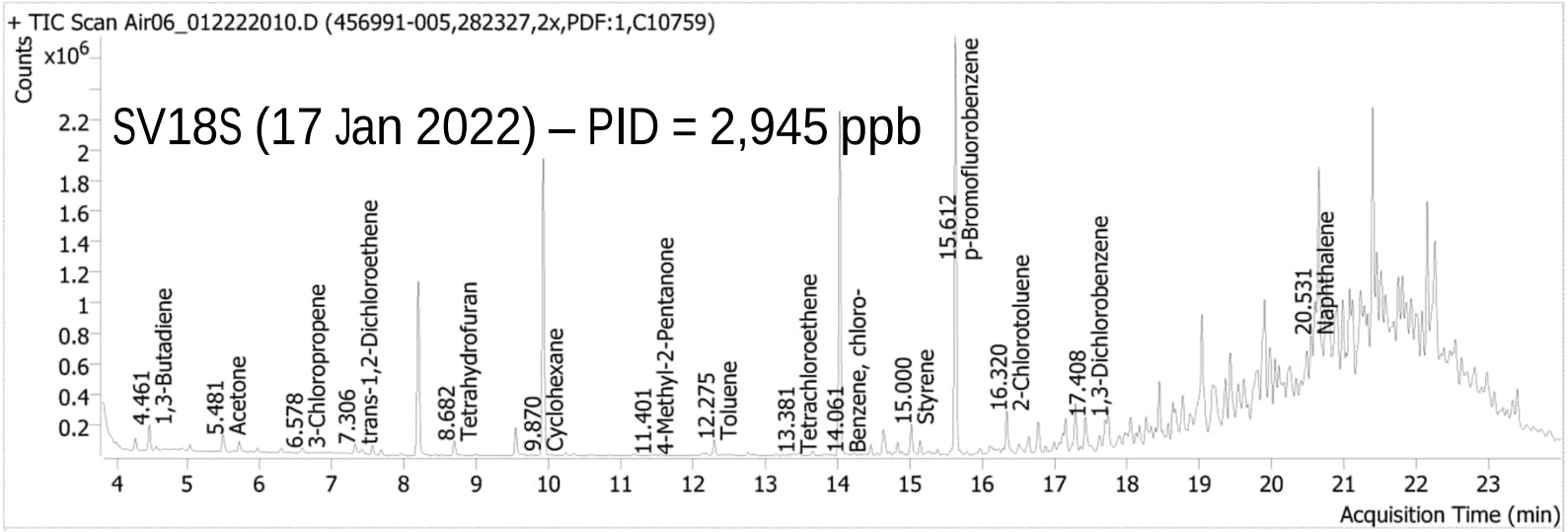

+ TIC Scan Air06_012122008.D (456991-001,282262,2x,PDF:1,C10699)
SV15S (17 Jan 2022) – PID = 0 ppb
Counts
x10^6
5.025 Ethanol
5.694 Isopropanol (IPA)
7.306 MTBE
8.255 cis-1,2-Dichloroethene
9.902 Cyclohexane
10.336 1,2-Dichloropropane
11.417 4-Methyl-2-Pentanone
12.281 Toluene
14.061 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.363 n-Propylbenzene
17.292 Benzyl chloride
20.531 Naphthalene
Acquisition Time (min)

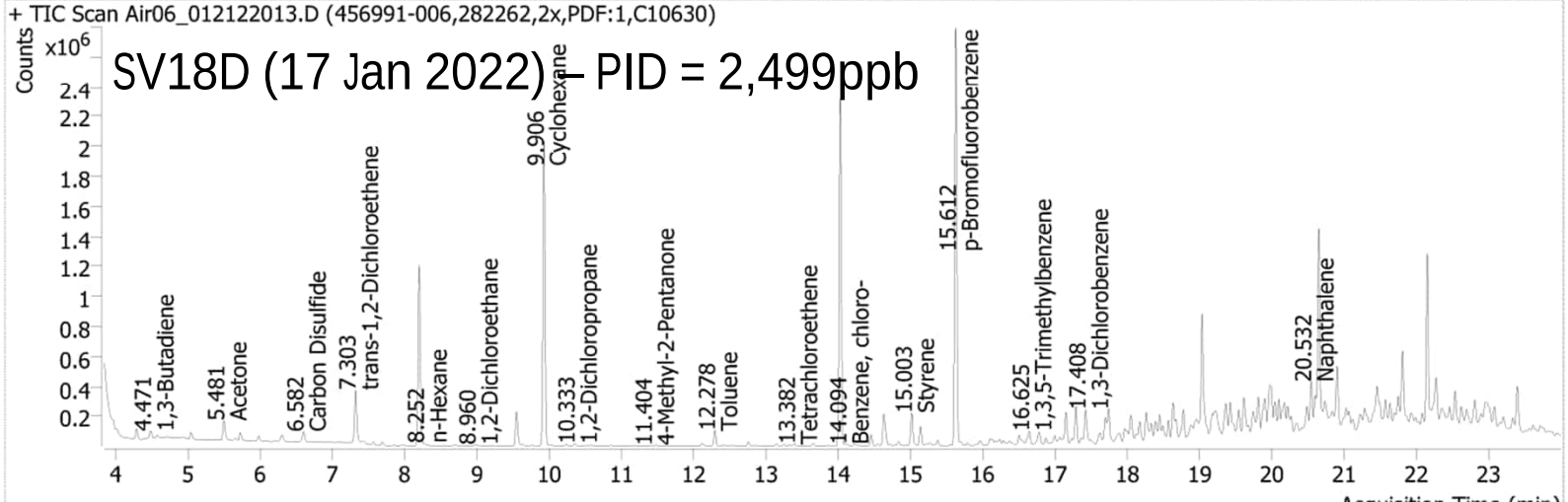

+ TIC Scan Air06_012122009.D (456991-002,282262,2x,PDF:1,C10625)
SV15D (17 Jan 2022) – PID = 0 ppb
Counts
x10^6
5.025 Ethanol
5.704 Isopropanol (IPA)
7.310 MTBE
8.255 n-Hexane
9.912 Cyclohexane
10.339 1,2-Dichloropropane
11.424 4-Methyl-2-Pentanone
12.278 Toluene
14.058 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.363 n-Propylbenzene
17.408 1,4-Dichlorobenzene
20.532 Naphthalene
Acquisition Time (min)

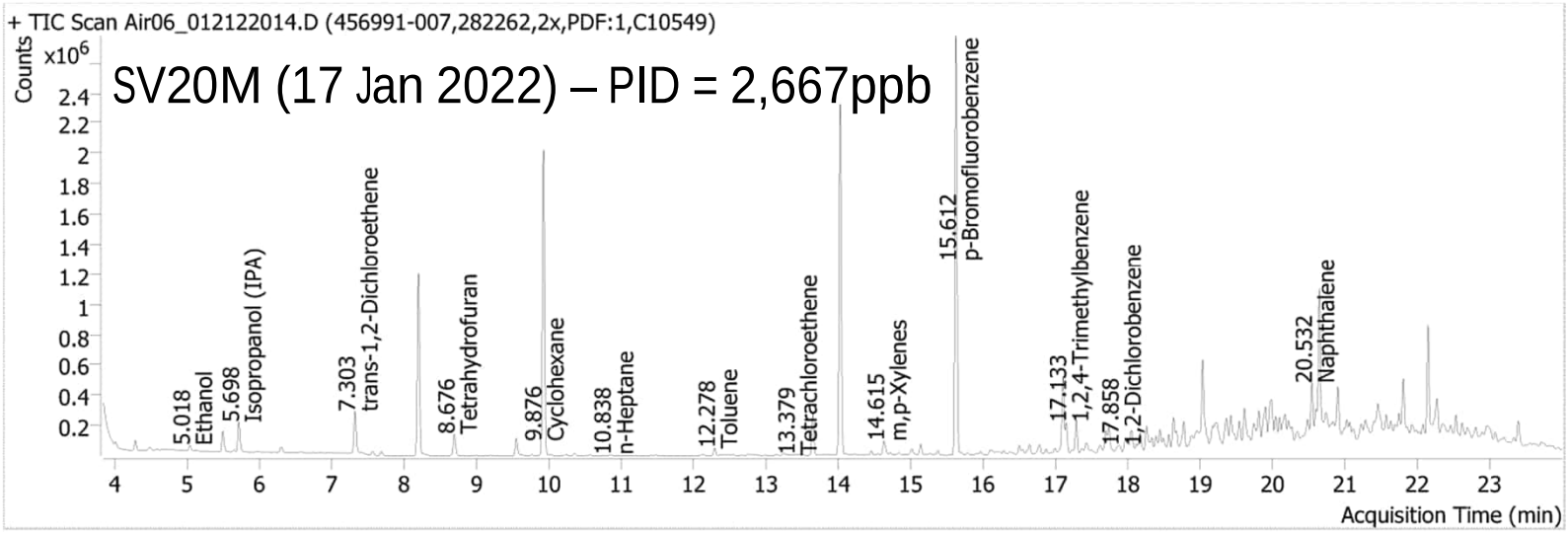

+ TIC Scan Air06_012222008.D (456991-003,282327,2x,PDF:1,C10280)
SV17S (17 Jan 2022) – 2,210 PID = ppb
Counts
x10^6
5.471 Acetone
6.293 Methylene Chloride
7.407 Vinyl Acetate
8.242 Ethyl Acetate
9.905 Cyclohexane
10.336 1,2-Dichloropropane
11.401 4-Methyl-2-Pentanone
12.275 Toluene
13.378 Tetrachloroethene
14.615 m,p-Xylenes
15.612 p-Bromofluorobenzene
17.133 1,2,4-Trimethylbenzene
17.855 1,2-Dichlorobenzene
20.531 Naphthalene
Acquisition Time (min)

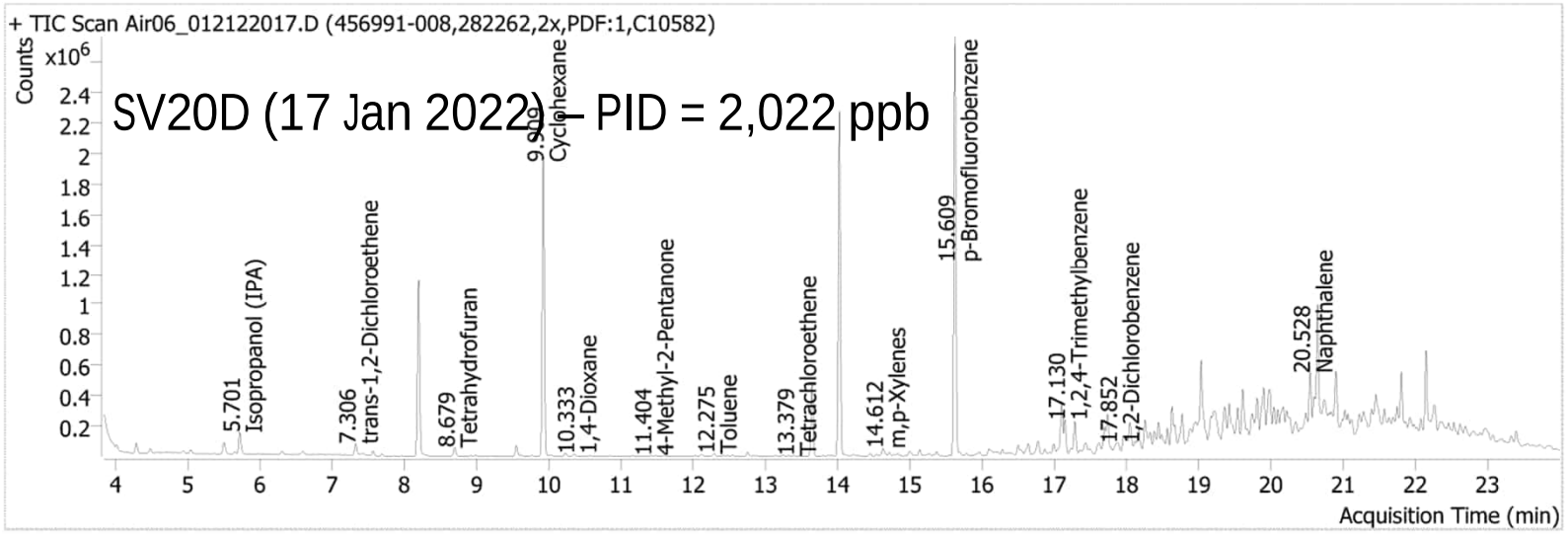

+ TIC Scan Air06_012222009.D (456991-004,282327,8x,PDF:1,C10557)
Counts
x10^6
SV17D (17 Jan 2022) – PID = 2,486 ppb
5.028 Ethanol
5.714 Isopropanol (IPA)
7.313 trans-1,2-Dichloroethene
8.252 n-Hexane
9.200 1,1,1-Trichloroethane
10.336 1,2-Dichloropropane
12.670 Dibromochloromethane
14.019 1,1,1,2-Tetrachloroethane
15.123 o-Xylene
15.612 p-Bromofluorobenzene
17.133 1,2,4-Trimethylbenzene
17.855 1,2-Dichlorobenzene
20.528 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_012122011.D (456991-004,282262,2x,PDF:1,C10557)
Counts
x10^6
SV17D (17 Jan 2022) – PID = 2,486 ppb
5.698 Isopropanol (IPA)
7.300 MTBE
8.255 n-Hexane
9.906 Cyclohexane
10.838 n-Heptane
12.278 Toluene
13.375 Tetrachloroethene
14.615 m,p-Xylenes
15.612 p-Bromofluorobenzene
17.133 1,2,4-Trimethylbenzene
17.861 1,2-Dichlorobenzene
20.532 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_012222010.D (456991-005,282327,2x,PDF:1,C10759)
Counts
x10^6
SV18S (17 Jan 2022) – PID = 2,945 ppb
4.461 1,3-Butadiene
5.481 Acetone
6.578 3-Chloropropene
7.306 trans-1,2-Dichloroethene
8.682 Tetrahydrofuran
9.870 Cyclohexane
11.401 4-Methyl-2-Pentanone
12.275 Toluene
13.381 Tetrachloroethene
14.061 Benzene, chloro-
15.000 Styrene
15.612 p-Bromofluorobenzene
16.320 2-Chlorotoluene
17.408 1,3-Dichlorobenzene
20.531 Naphthalene
Acquisition Time (min)

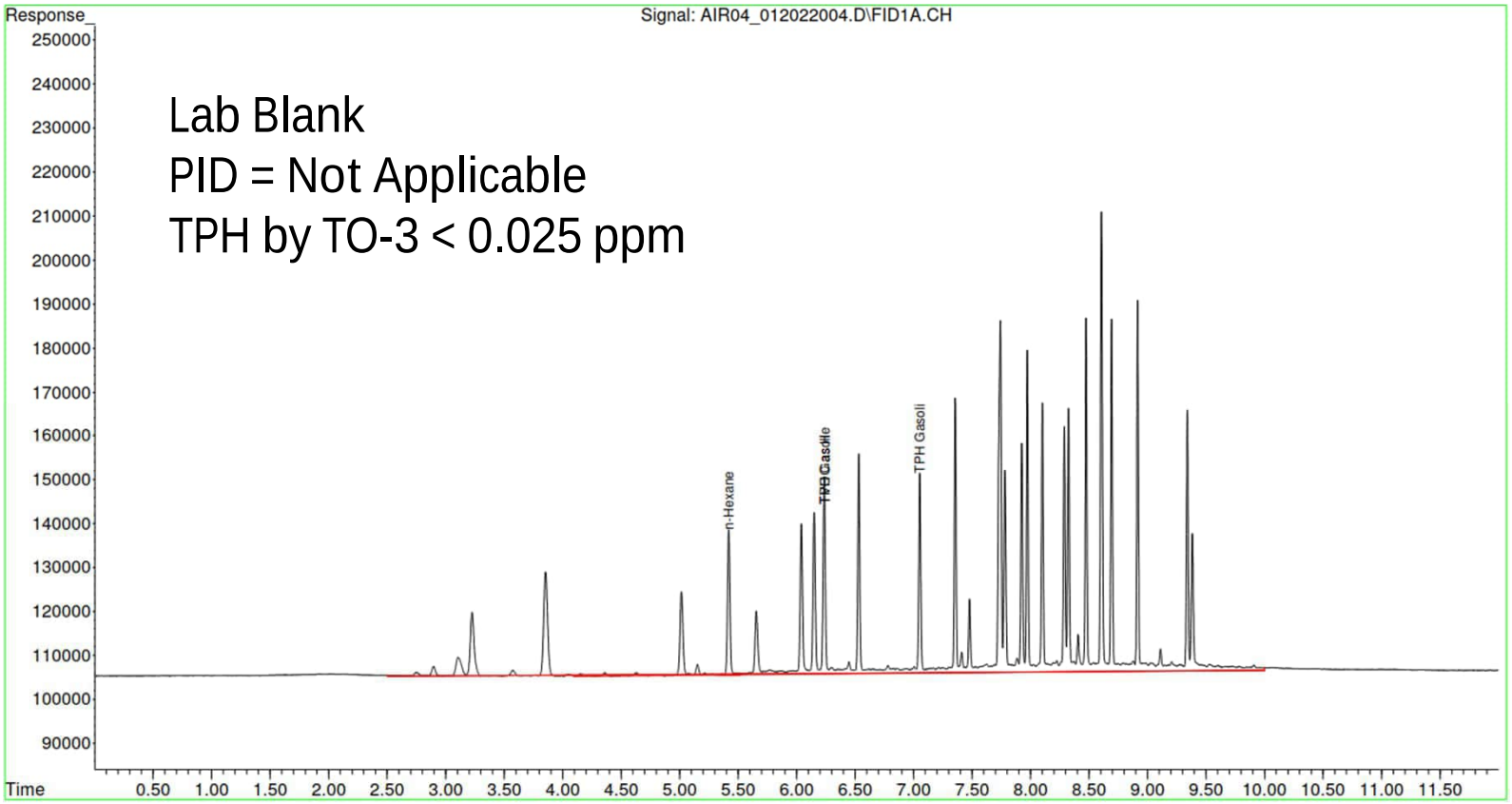

+ TIC Scan Air06_012122013.D (456991-006,282262,2x,PDF:1,C10630)
Counts
x10^6
SV18D (17 Jan 2022) – PID = 2,499ppb
4.471 1,3-Butadiene
5.481 Acetone
6.582 Carbon Disulfide
7.303 trans-1,2-Dichloroethene
8.252 n-Hexane
8.960 1,2-Dichloroethane
9.906 Cyclohexane
10.333 1,2-Dichloropropane
11.404 4-Methyl-2-Pentanone
12.278 Toluene
13.382 Tetrachloroethene
14.094 Benzene, chloro-
15.003 Styrene
15.612 p-Bromofluorobenzene
16.625 1,3,5-Trimethylbenzene
17.408 1,3-Dichlorobenzene
20.532 Naphthalene
Acquisition Time (min)

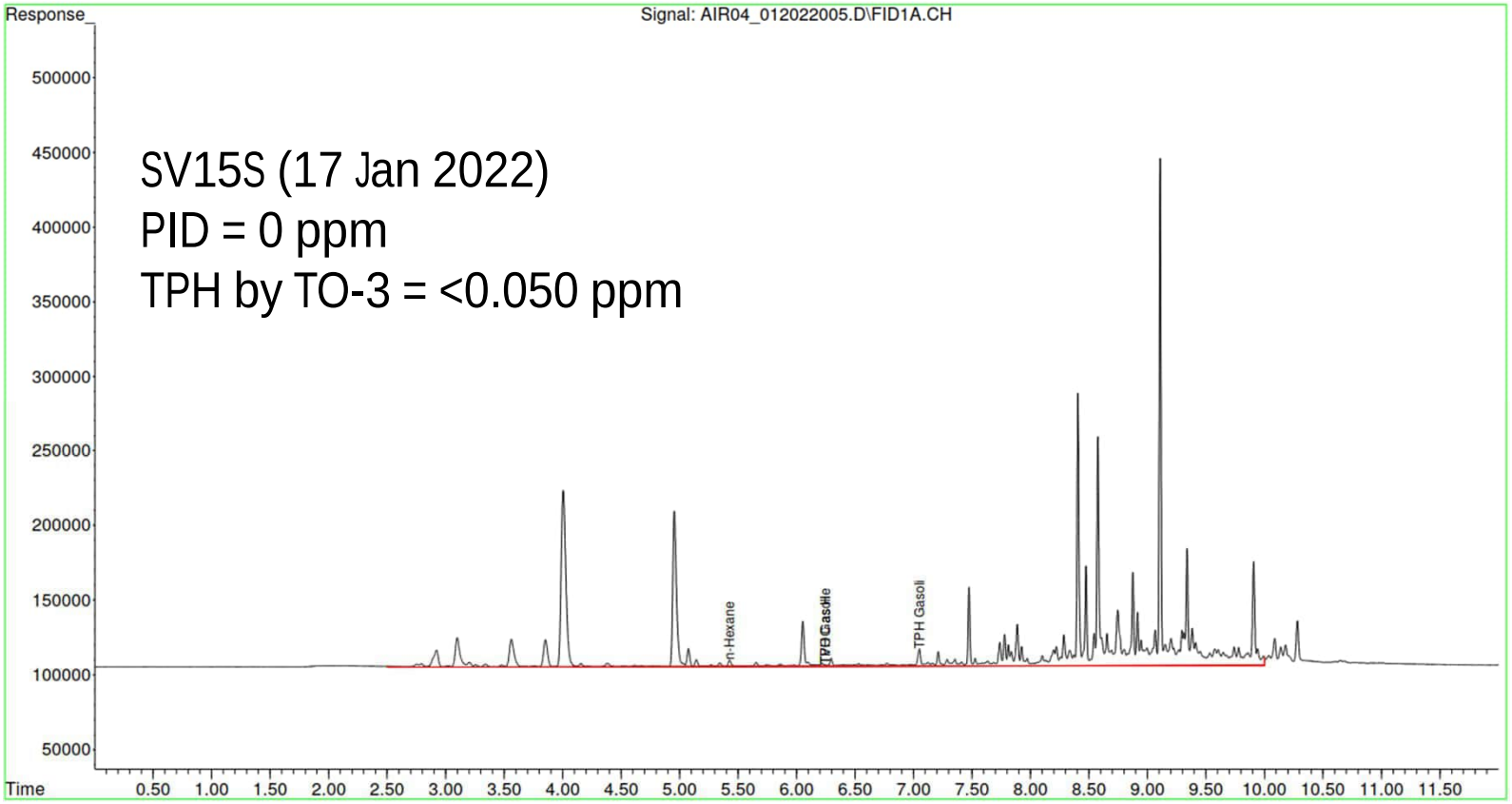

+ TIC Scan Air06_012122014.D (456991-007,282262,2x,PDF:1,C10549)
SV20M (17 Jan 2022) – PID = 2,667ppb
Counts
x10^6
5.018 Ethanol
5.698 Isopropanol (IPA)
7.303 trans-1,2-Dichloroethene
8.676 Tetrahydrofuran
9.876 Cyclohexane
10.838 n-Heptane
12.278 Toluene
13.379 Tetrachloroethene
14.615 m,p-Xylenes
15.612 p-Bromofluorobenzene
17.133 1,2,4-Trimethylbenzene
17.858 1,2-Dichlorobenzene
20.532 Naphthalene
Acquisition Time (min)

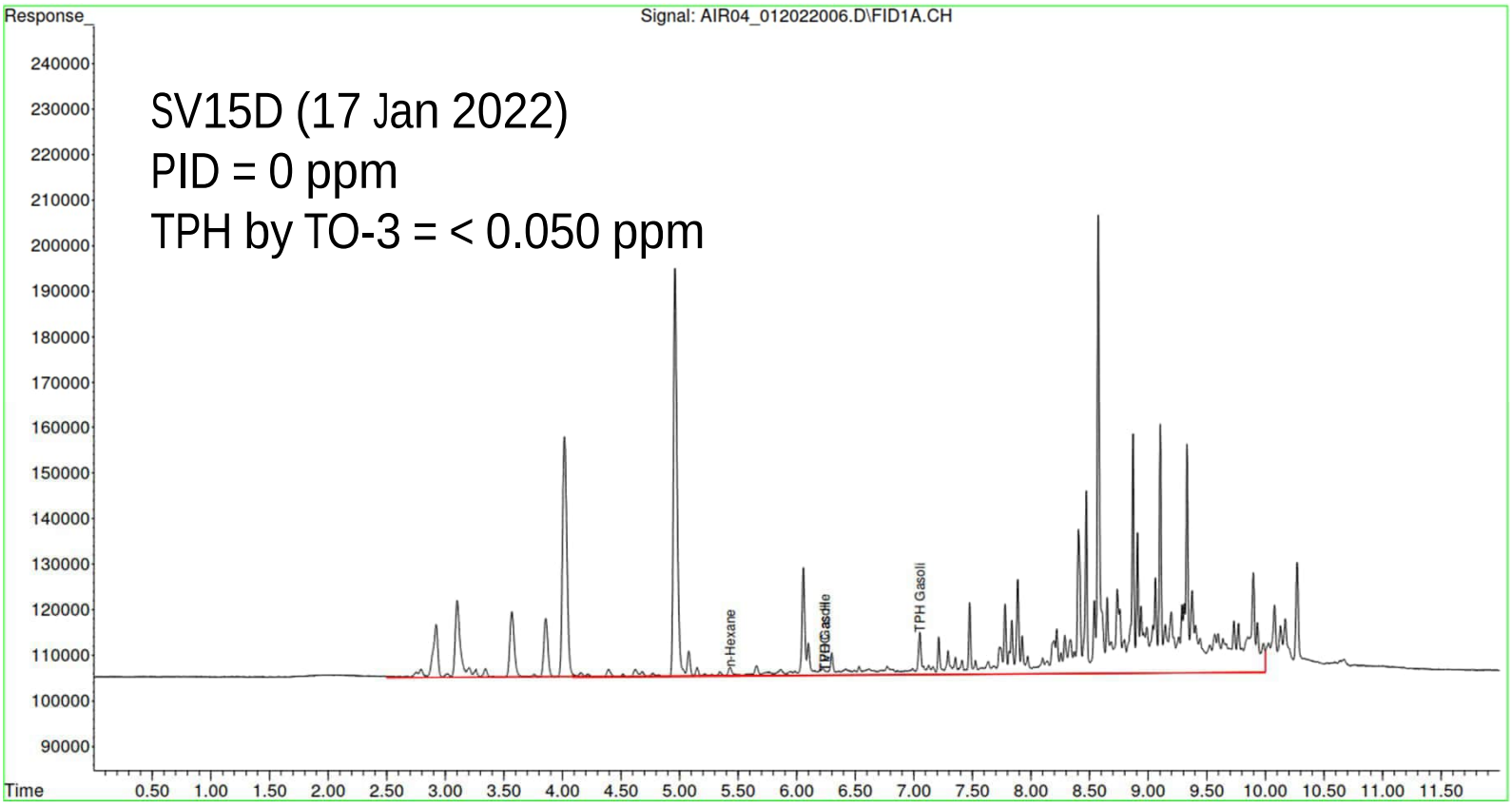

+ TIC Scan Air06_012122017.D (456991-008,282262,2x,PDF:1,C10582)
SV20D (17 Jan 2022) – PID = 2,022 ppb
Counts
x10^6
5.701 Isopropanol (IPA)
7.306 trans-1,2-Dichloroethene
8.679 Tetrahydrofuran
9.900 Cyclohexane
10.333 1,4-Dioxane
11.404 4-Methyl-2-Pentanone
12.275 Toluene
13.379 Tetrachloroethene
14.612 m,p-Xylenes
15.609 p-Bromofluorobenzene
17.130 1,2,4-Trimethylbenzene
17.852 1,2-Dichlorobenzene
20.528 Naphthalene
Acquisition Time (min)

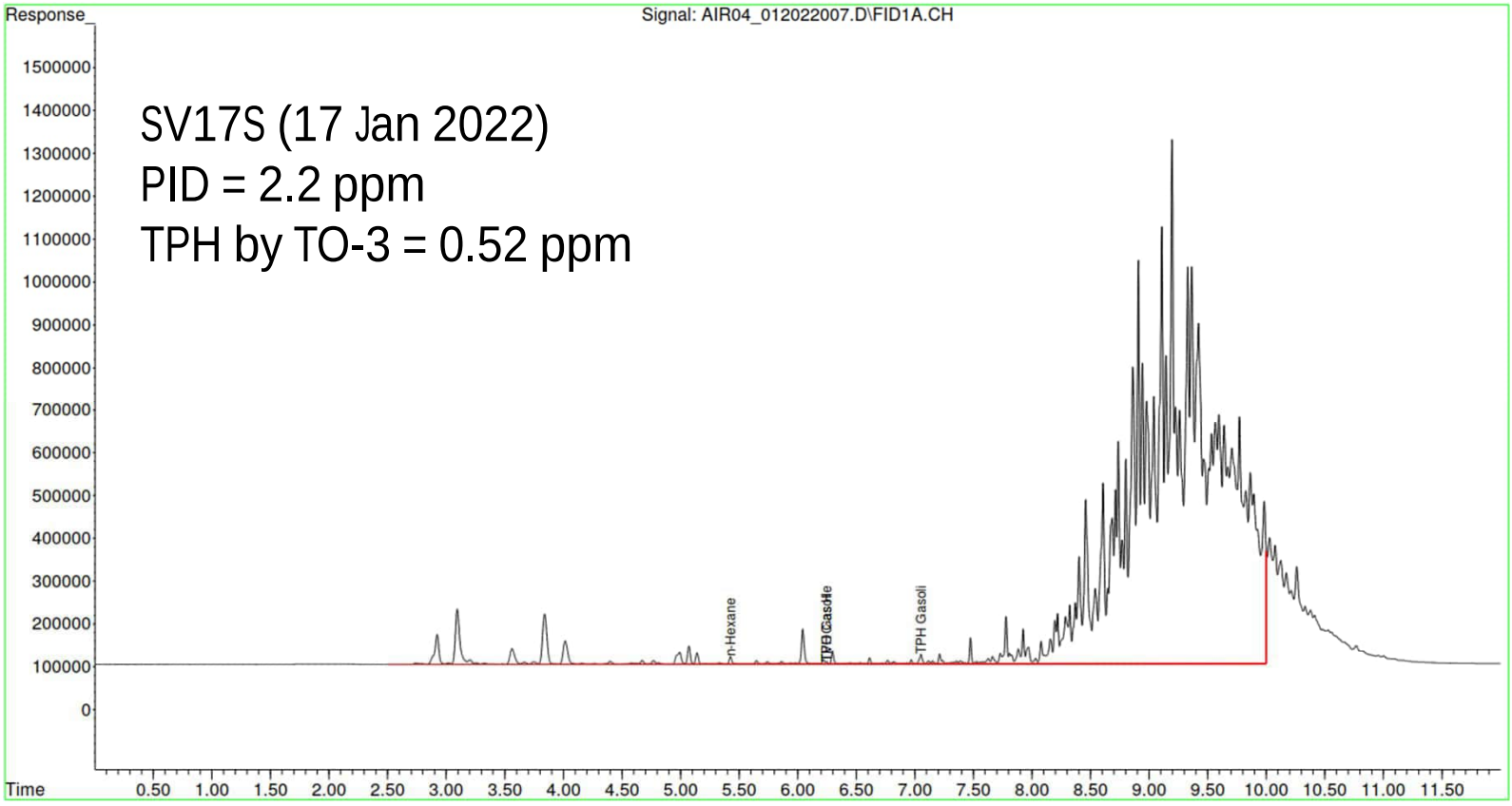
January 2022
Soil Vapor Samples

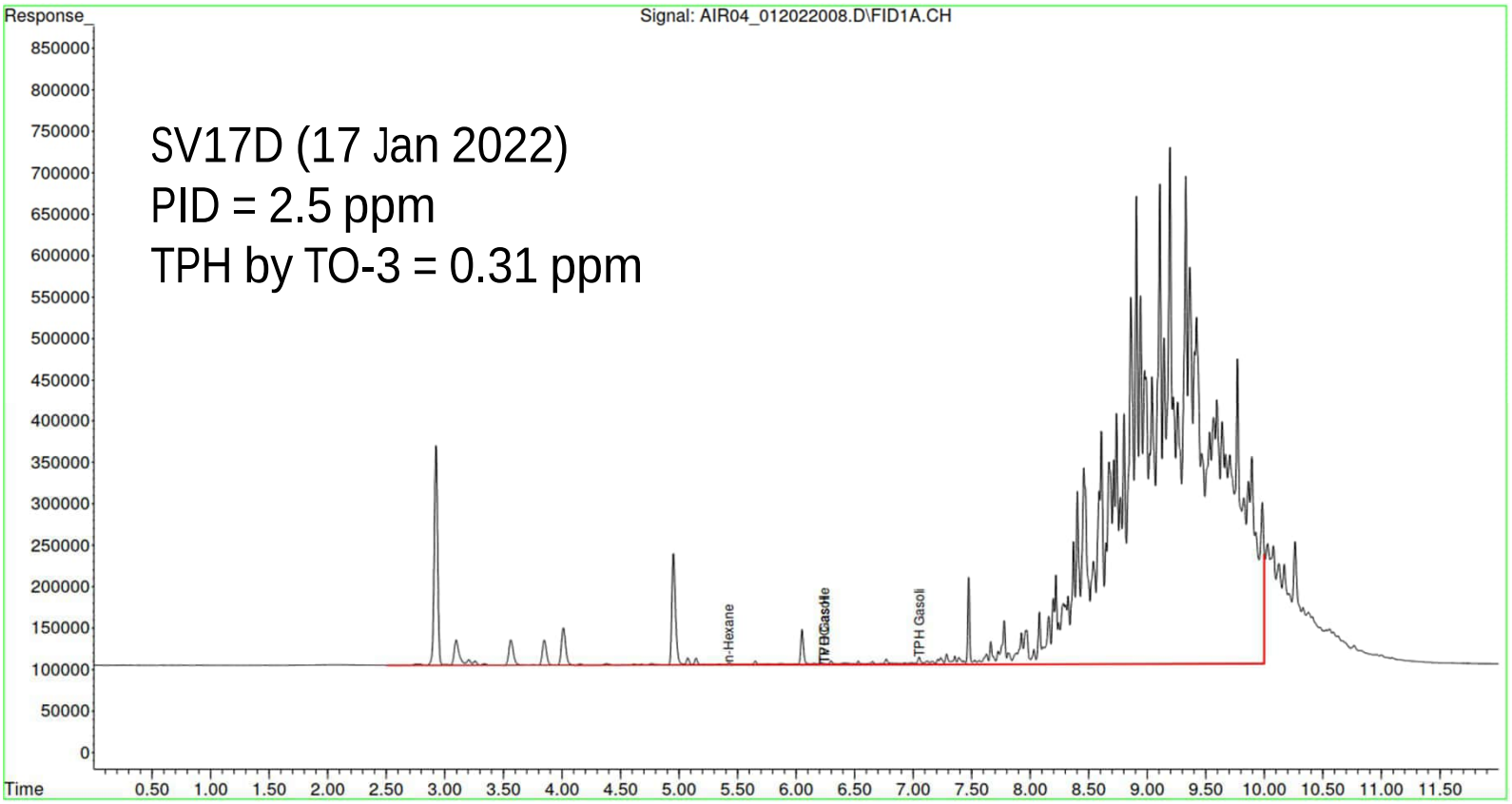
FID Chromatograms

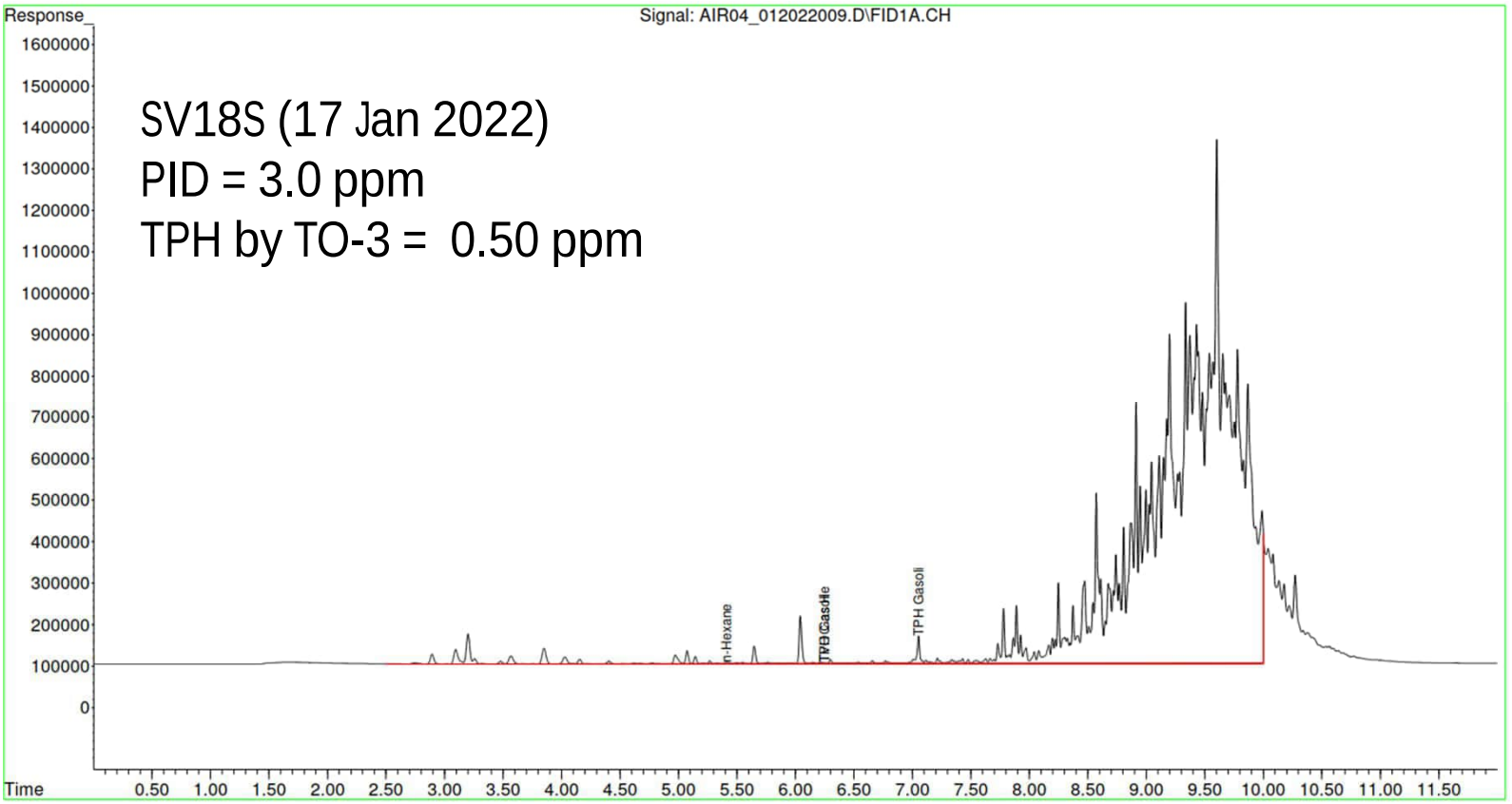

Response_
Signal: AIR04_012022004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
n-Hexane
TPH Gasoil
Time

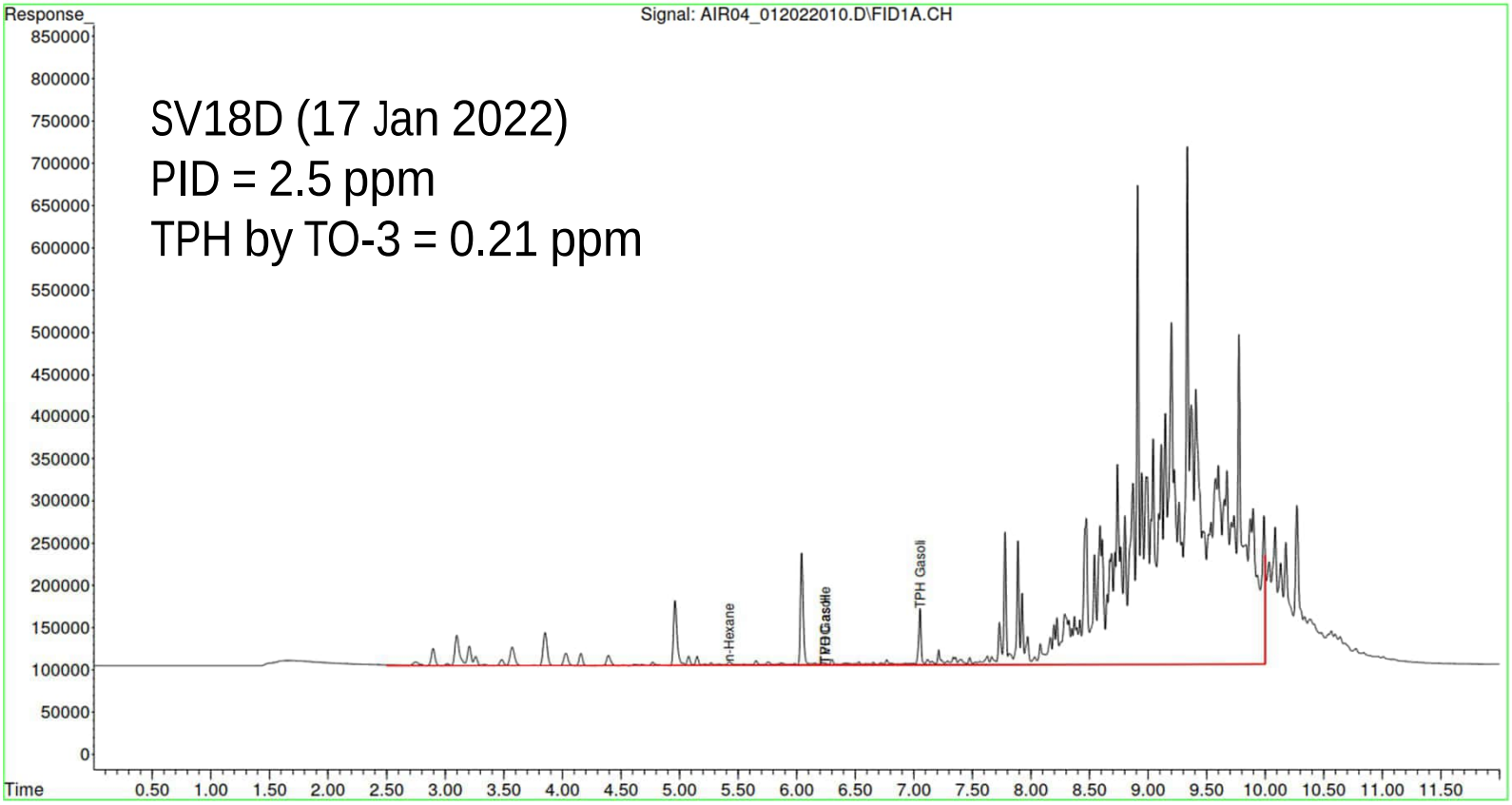

Response_
Signal: AIR04_012022005.D\FID1A.CH
SV15S (17 Jan 2022)
PID = 0 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoil
Time

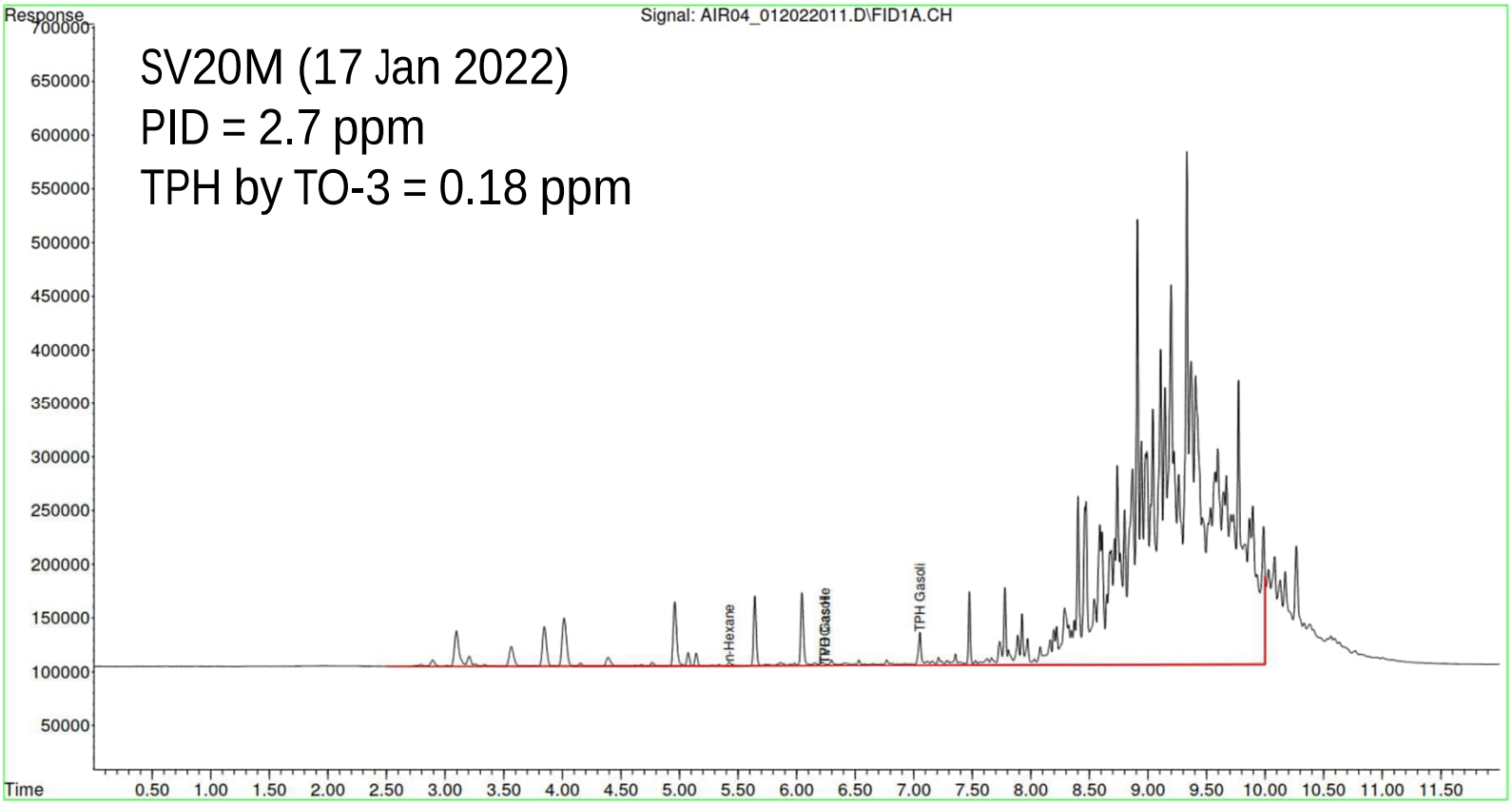

Response_
Signal: AIR04_012022006.D\FID1A.CH
SV15D (17 Jan 2022)
PID = 0 ppm
TPH by TO-3 = < 0.050 ppm
240000
230000
220000
210000
200000
190000
180000
170000
160000
150000
140000
130000
120000
110000
100000
90000
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

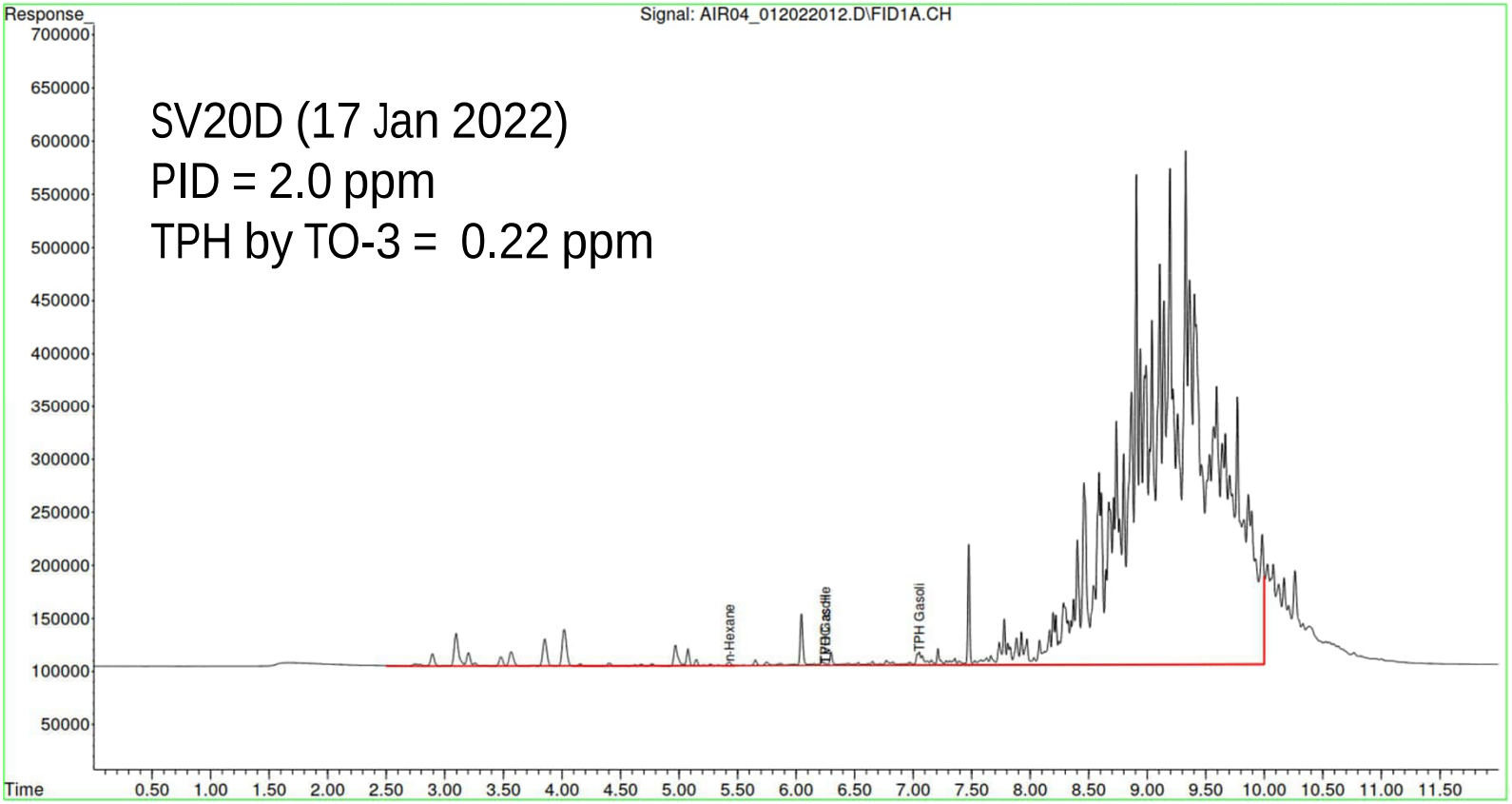

Response_
Signal: AIR04_012022007.D\FID1A.CH
SV17S (17 Jan 2022)
PID = 2.2 ppm
TPH by TO-3 = 0.52 ppm
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_012022008.D\FID1A.CH
SV17D (17 Jan 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.31 ppm
n-Hexane
TPH Gasoil
Time


Response_
Signal: AIR04_012022009.D\FID1A.CH
SV18S (17 Jan 2022)
PID = 3.0 ppm
TPH by TO-3 = 0.50 ppm
n-Hexane
TPH Gasoil
Time

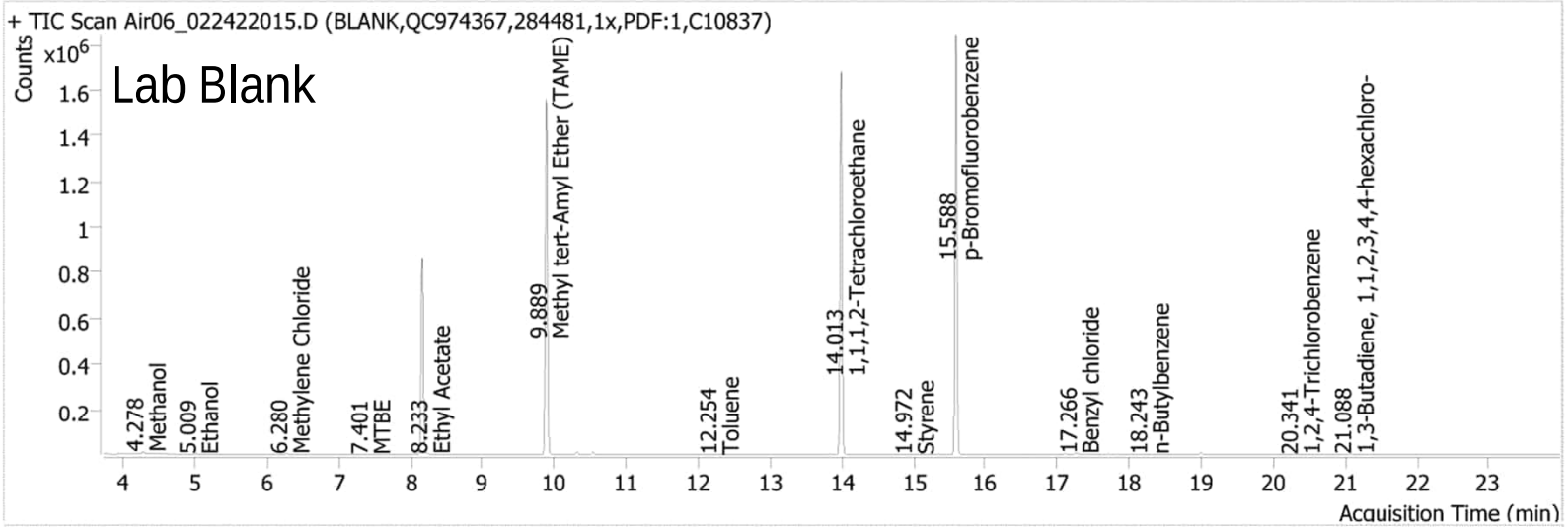

Response_
Signal: AIR04_012022010.D\FID1A.CH
SV18D (17 Jan 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.21 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

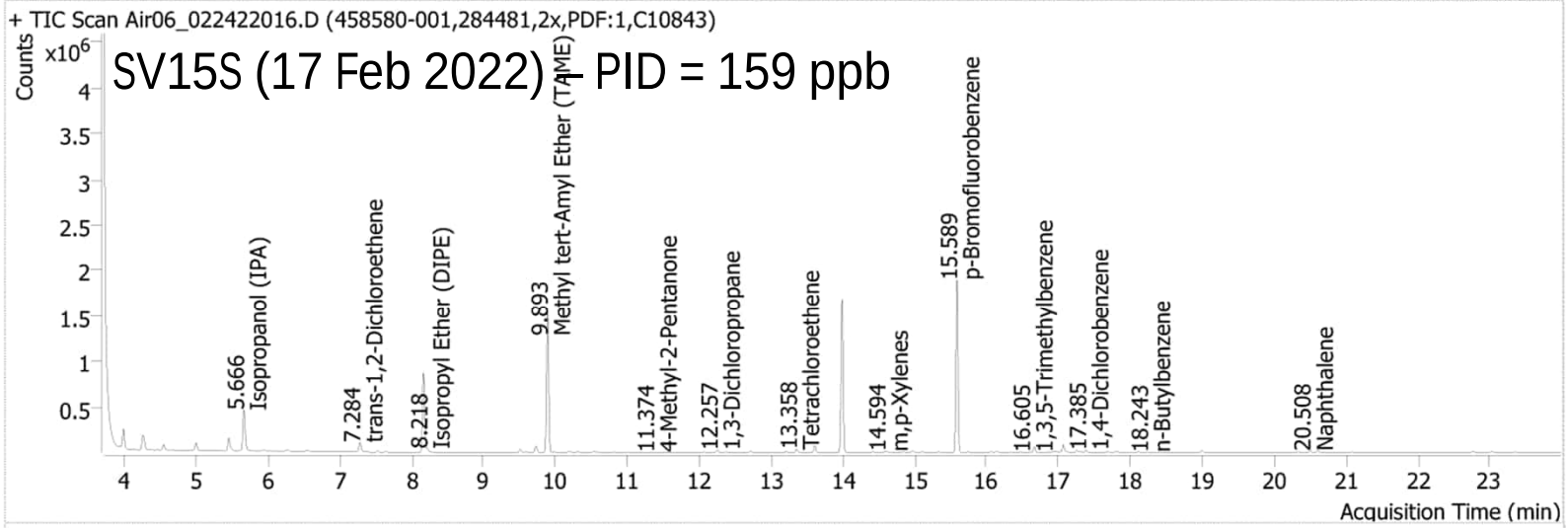

Response_
Signal: AIR04_012022011.D\FID1A.CH
SV20M (17 Jan 2022)
PID = 2.7 ppm
TPH by TO-3 = 0.18 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

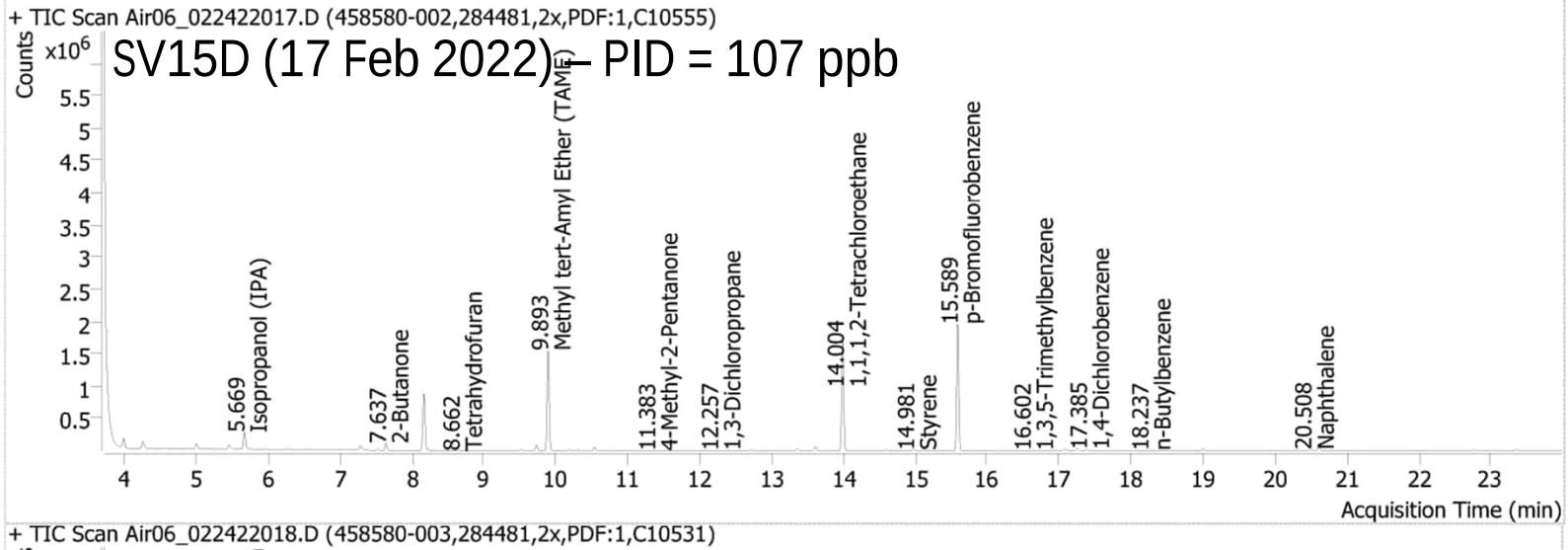

Response_
Signal: AIR04_012022012.D\FID1A.CH
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
SV20D (17 Jan 2022)
PID = 2.0 ppm
TPH by TO-3 = 0.22 ppm
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

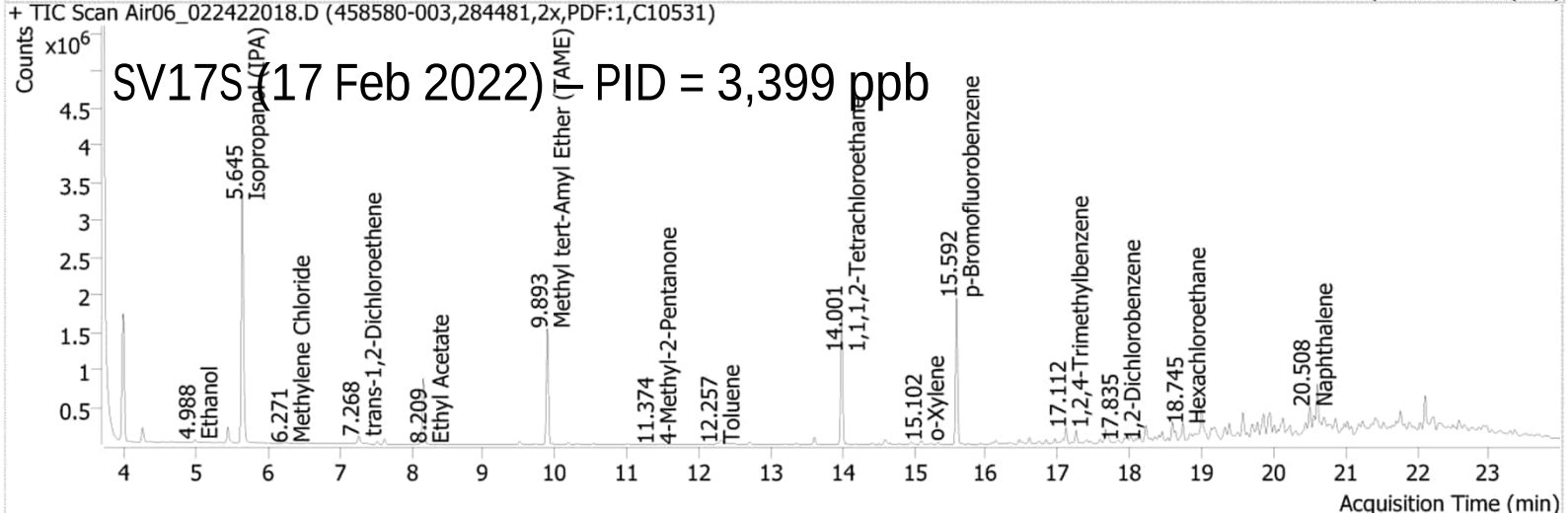
February 2022
Soil Vapor Samples

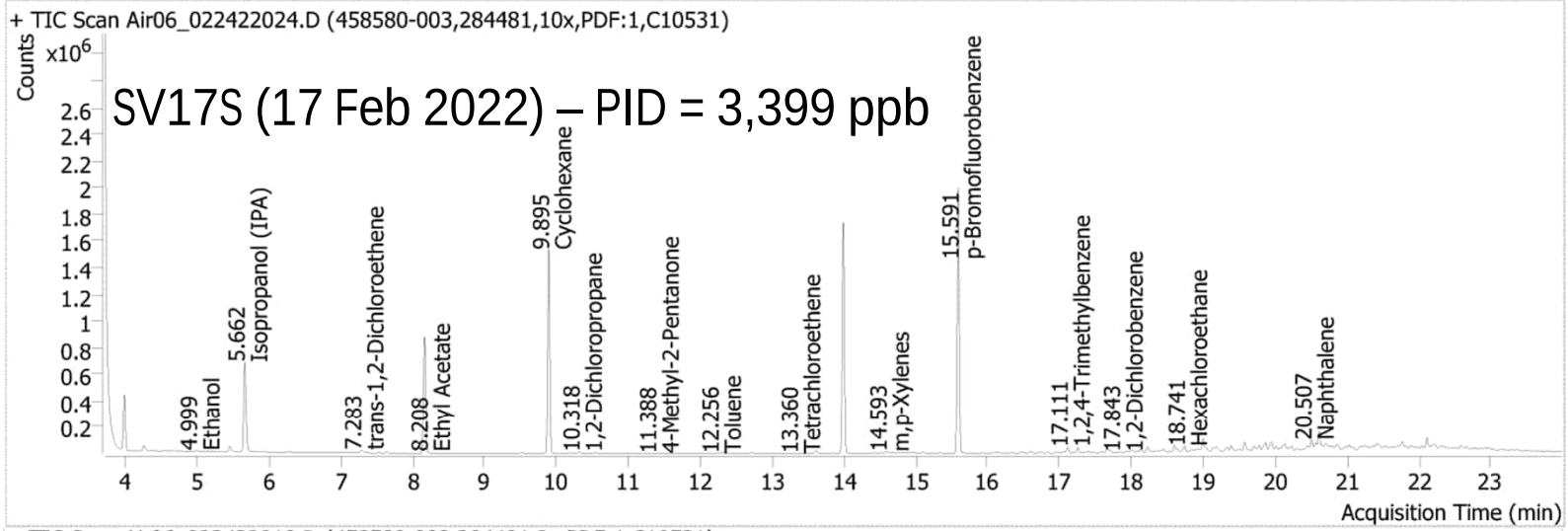
Mass Spec Chromatograms

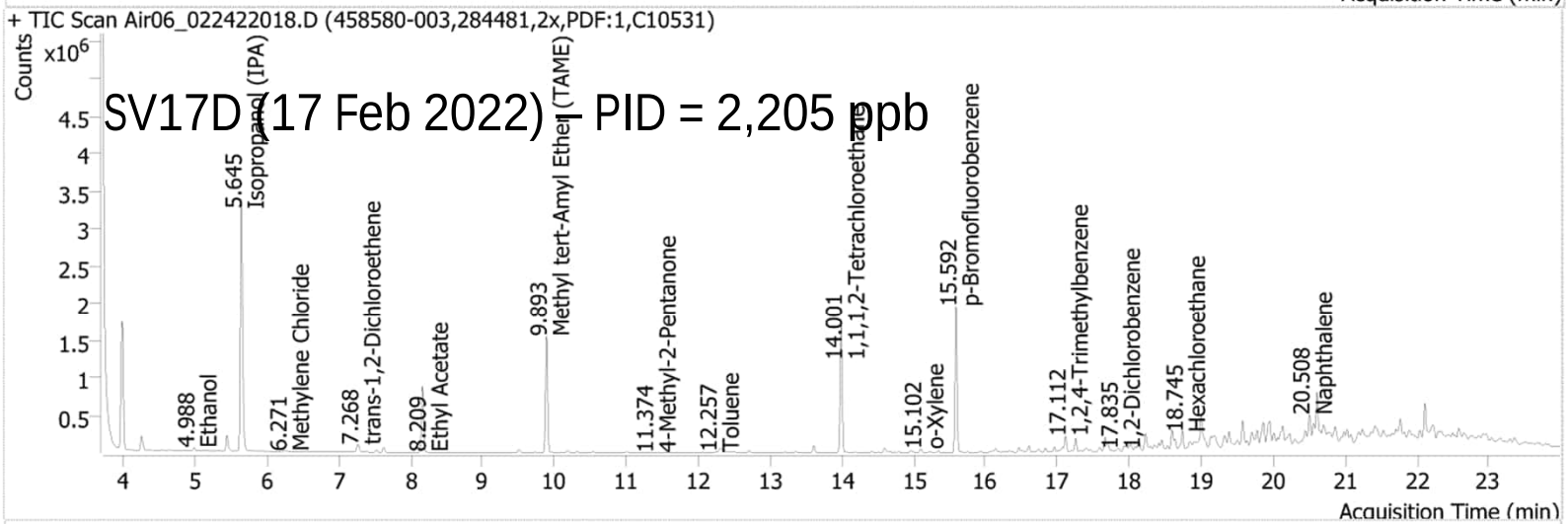

+ TIC Scan Air06_022422015.D (BLANK,QC974367,284481,1x,PDF:1,C10837)
Lab Blank
Counts
x10^6
4.278 Methanol
5.009 Ethanol
6.280 Methylene Chloride
7.401 MTBE
8.233 Ethyl Acetate
9.889 Methyl tert-Amyl Ether (TAME)
12.254 Toluene
14.013 1,1,1,2-Tetrachloroethane
14.972 Styrene
15.588 p-Bromofluorobenzene
17.266 Benzyl chloride
18.243 n-Butylbenzene
20.341 1,2,4-Trichlorobenzene
21.088 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

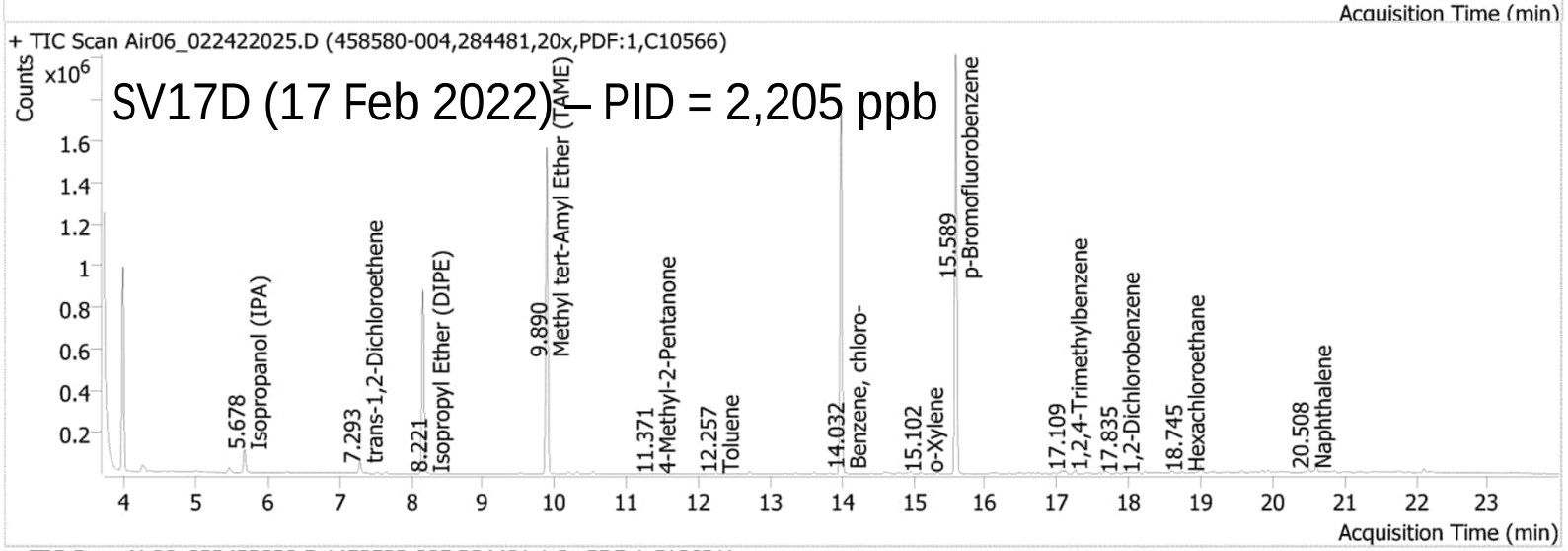

+ TIC Scan Air06_022422016.D (458580-001,284481,2x,PDF:1,C10843)
SV15S (17 Feb 2022) – PID = 159 ppb
Counts
x10^6
5.666 Isopropanol (IPA)
7.284 trans-1,2-Dichloroethene
8.218 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
13.358 Tetrachloroethene
14.594 m,p-Xylenes
15.589 p-Bromofluorobenzene
16.605 1,3,5-Trimethylbenzene
17.385 1,4-Dichlorobenzene
18.243 n-Butylbenzene
20.508 Naphthalene
Acquisition Time (min)

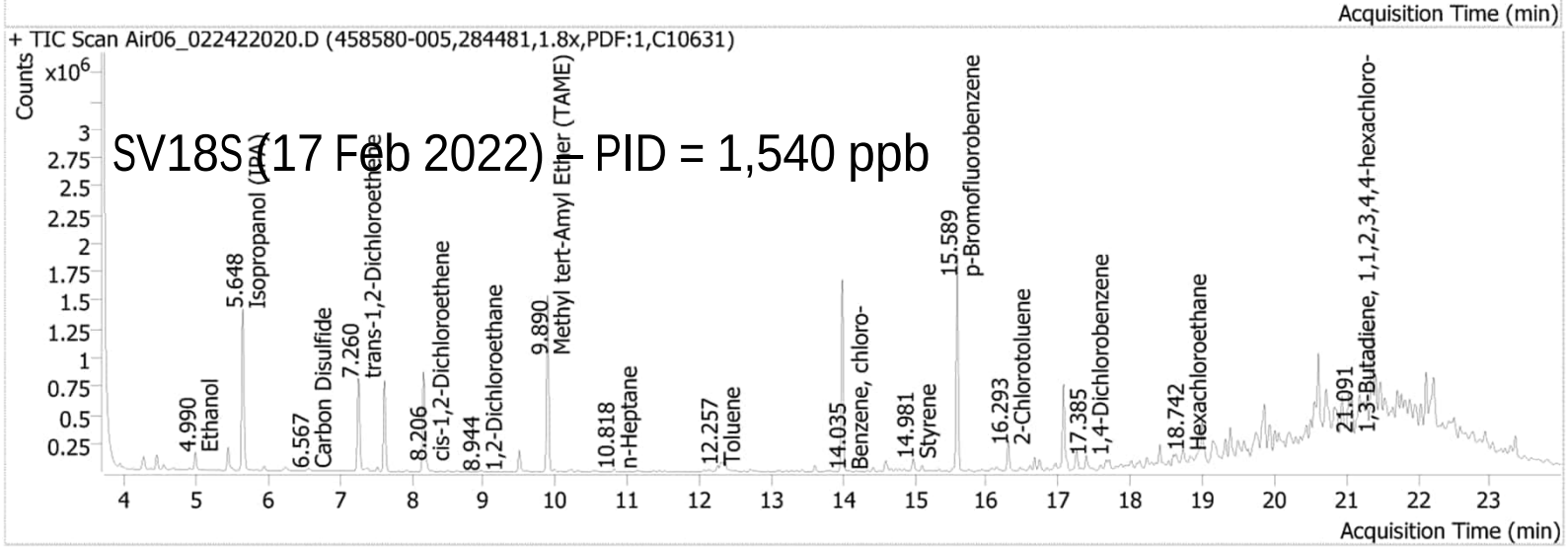

+ TIC Scan Air06_022422017.D (458580-002,284481,2x,PDF:1,C10555)
SV15D (17 Feb 2022) – PID = 107 ppb
Counts
x10^6
5.669 Isopropanol (IPA)
7.637 2-Butanone
8.662 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.383 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
14.004 1,1,1,2-Tetrachloroethane
14.981 Styrene
15.589 p-Bromofluorobenzene
16.602 1,3,5-Trimethylbenzene
17.385 1,4-Dichlorobenzene
18.237 n-Butylbenzene
20.508 Naphthalene
Acquisition Time (min)

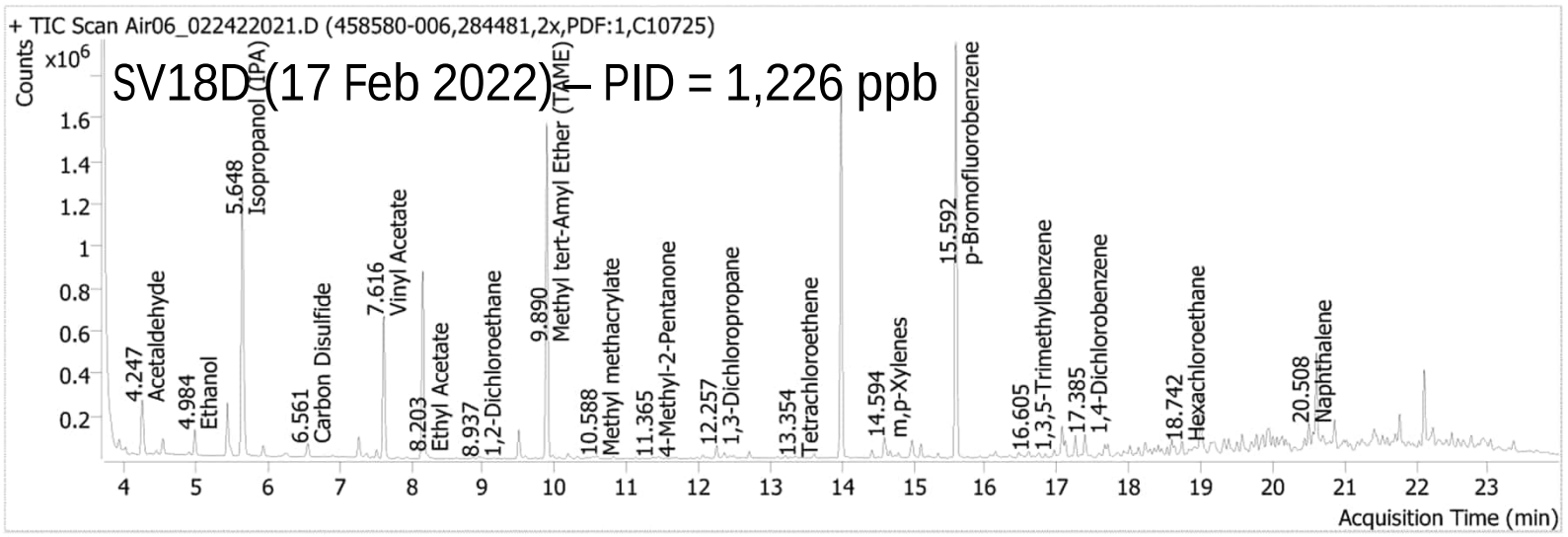

+ TIC Scan Air06_022422018.D (458580-003,284481,2x,PDF:1,C10531)
SV17S (17 Feb 2022) – PID = 3,399 ppb
Counts
x10^6
4.988 Ethanol
5.645 Isopropanol (IPA)
6.271 Methylene Chloride
7.268 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
14.001 1,1,1,2-Tetrachloroethane
15.102 o-Xylene
15.592 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.835 1,2-Dichlorobenzene
18.745 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

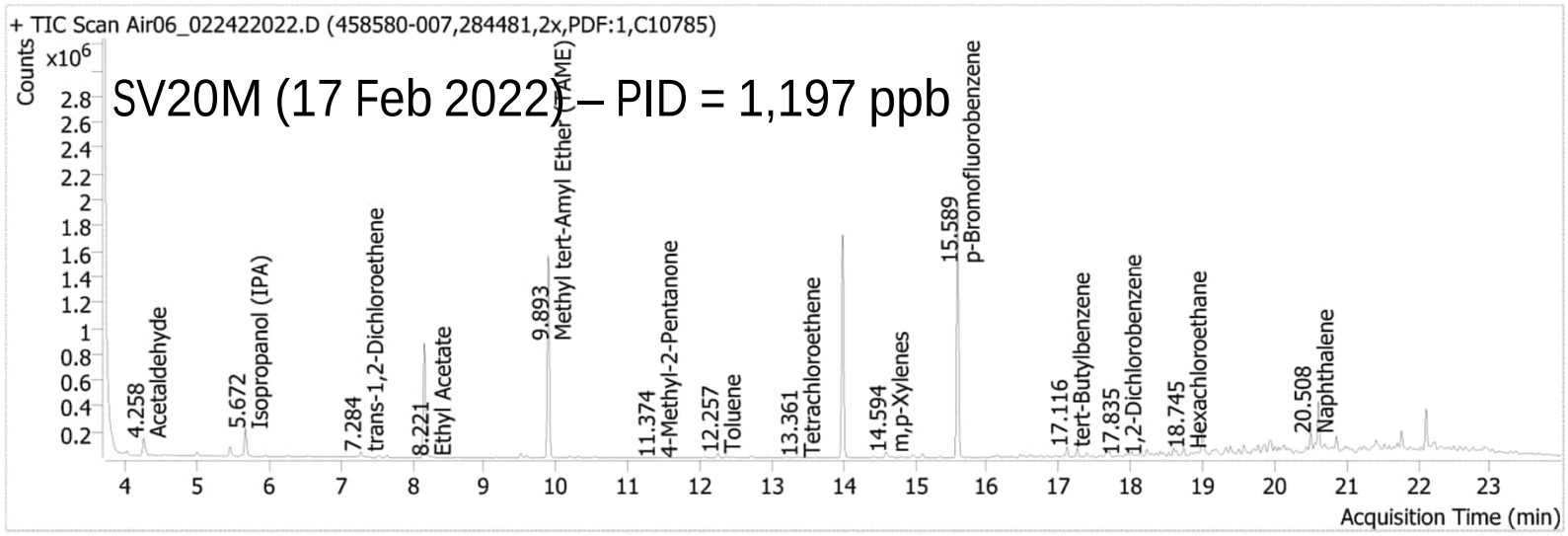

+ TIC Scan Air06_022422024.D (458580-003,284481,10x,PDF:1,C10531)
SV17S (17 Feb 2022) – PID = 3,399 ppb
Counts
x10^6
4.999 Ethanol
5.662 Isopropanol (IPA)
7.283 trans-1,2-Dichloroethene
8.208 Ethyl Acetate
9.895 Cyclohexane
10.318 1,2-Dichloropropane
11.388 4-Methyl-2-Pentanone
12.256 Toluene
13.360 Tetrachloroethene
14.593 m,p-Xylenes
15.591 p-Bromofluorobenzene
17.111 1,2,4-Trimethylbenzene
17.843 1,2-Dichlorobenzene
18.741 Hexachloroethane
20.507 Naphthalene
Acquisition Time (min)

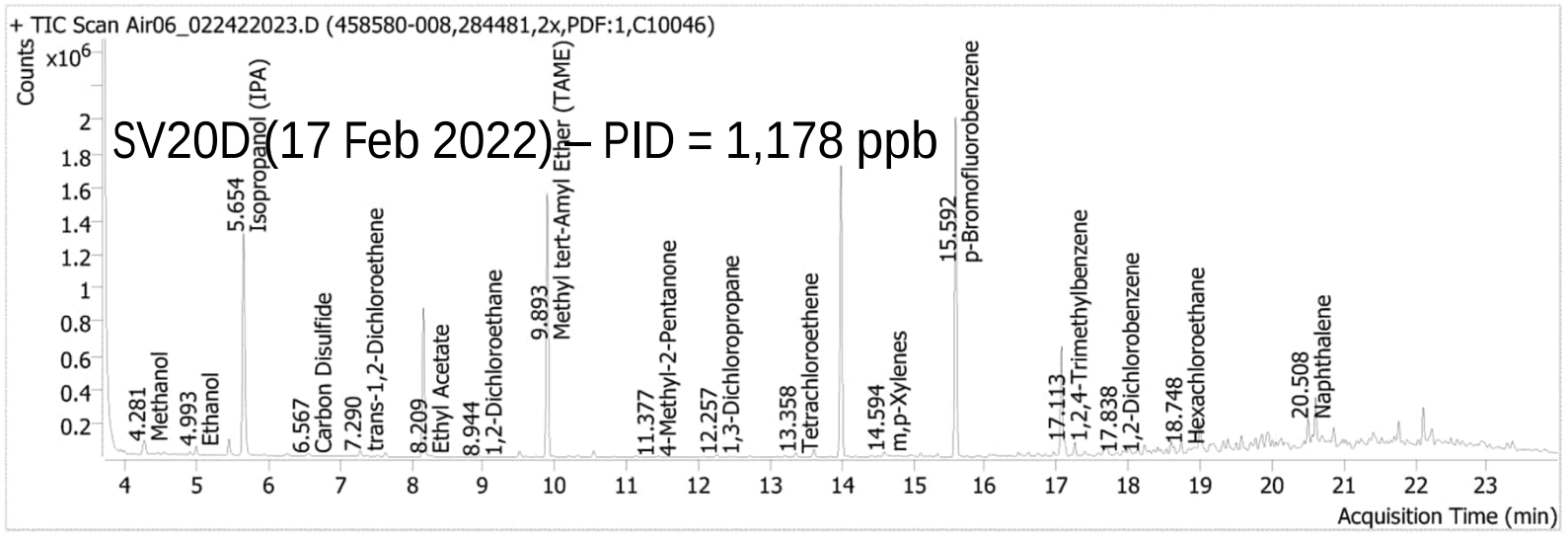

+ TIC Scan Air06_022422018.D (458580-003,284481,2x,PDF:1,C10531)
SV17D (17 Feb 2022) – PID = 2,205 ppb
Counts
x10^6
4.988 Ethanol
5.645 Isopropanol (IPA)
6.271 Methylene Chloride
7.268 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
14.001 1,1,1,2-Tetrachloroethane
15.102 o-Xylene
15.592 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.835 1,2-Dichlorobenzene
18.745 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_022422025.D (458580-004,284481,20x,PDF:1,C10566)
SV17D (17 Feb 2022) – PID = 2,205 ppb
Counts
x10^6
5.678 Isopropanol (IPA)
7.293 trans-1,2-Dichloroethene
8.221 Isopropyl Ether (DIPE)
9.890 Methyl tert-Amyl Ether (TAME)
11.371 4-Methyl-2-Pentanone
12.257 Toluene
14.032 Benzene, chloro-
15.102 o-Xylene
15.589 p-Bromofluorobenzene
17.109 1,2,4-Trimethylbenzene
17.835 1,2-Dichlorobenzene
18.745 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_022422020.D (458580-005,284481,1.8x,PDF:1,C10631)
SV18S (17 Feb 2022) – PID = 1,540 ppb
Counts
x10^6
4.990 Ethanol
5.648 Isopropanol (IPA)
6.567 Carbon Disulfide
7.260 trans-1,2-Dichloroethene
8.206 cis-1,2-Dichloroethene
8.944 1,2-Dichloroethane
9.890 Methyl tert-Amyl Ether (TAME)
10.818 n-Heptane
12.257 Toluene
14.035 Benzene, chloro-
14.981 Styrene
15.589 p-Bromofluorobenzene
16.293 2-Chlorotoluene
17.385 1,4-Dichlorobenzene
18.742 Hexachloroethane
21.091 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

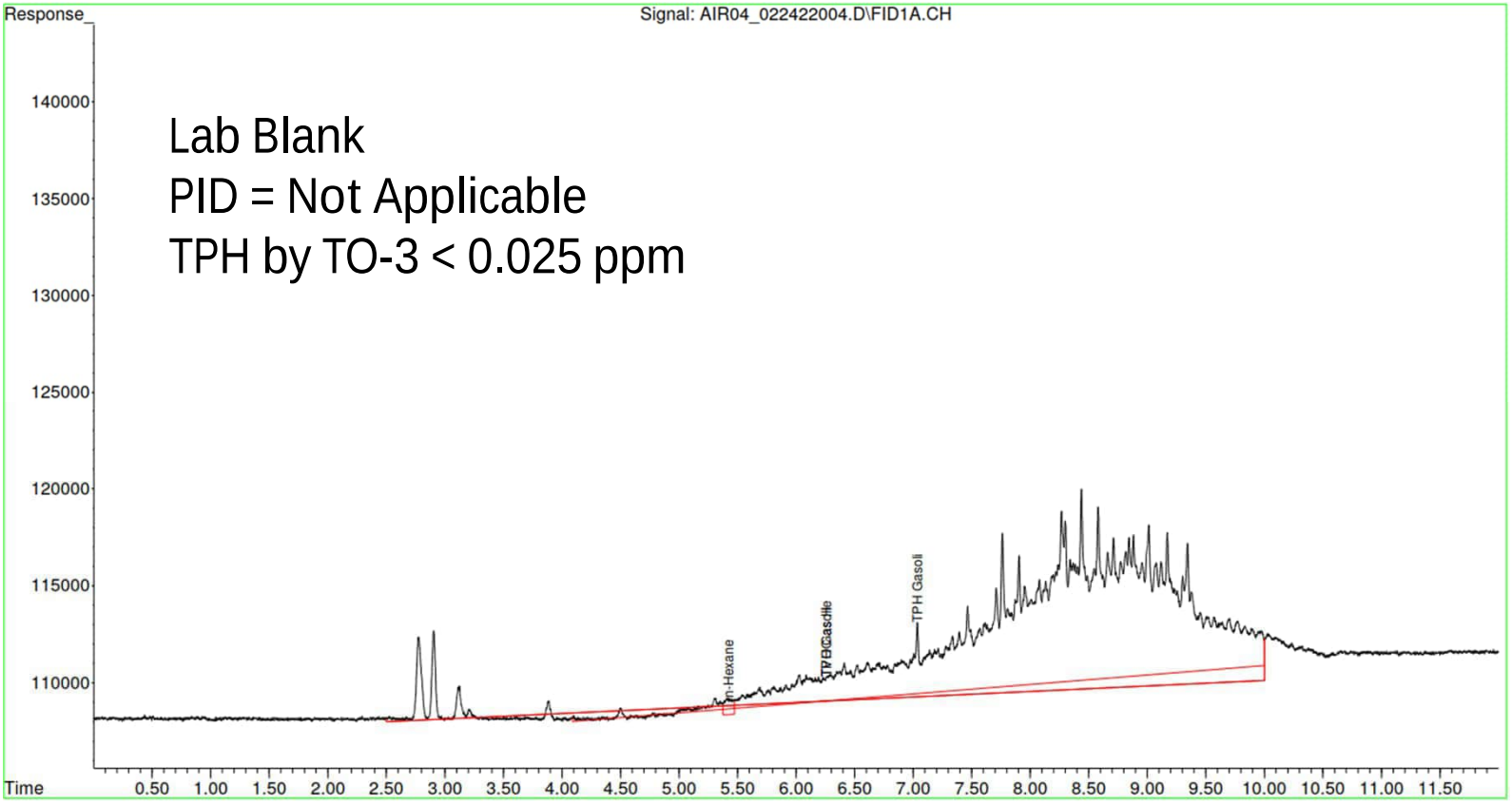

+ TIC Scan Air06_022422021.D (458580-006,284481,2x,PDF:1,C10725)
Counts
x10^6
SV18D (17 Feb 2022) – PID = 1,226 ppb
4.247 Acetaldehyde
4.984 Ethanol
5.648 Isopropanol (IPA)
6.561 Carbon Disulfide
7.616 Vinyl Acetate
8.203 Ethyl Acetate
8.937 1,2-Dichloroethane
9.890 Methyl tert-Amyl Ether (TAME)
10.588 Methyl methacrylate
11.365 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
13.354 Tetrachloroethene
14.594 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.605 1,3,5-Trimethylbenzene
17.385 1,4-Dichlorobenzene
18.742 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

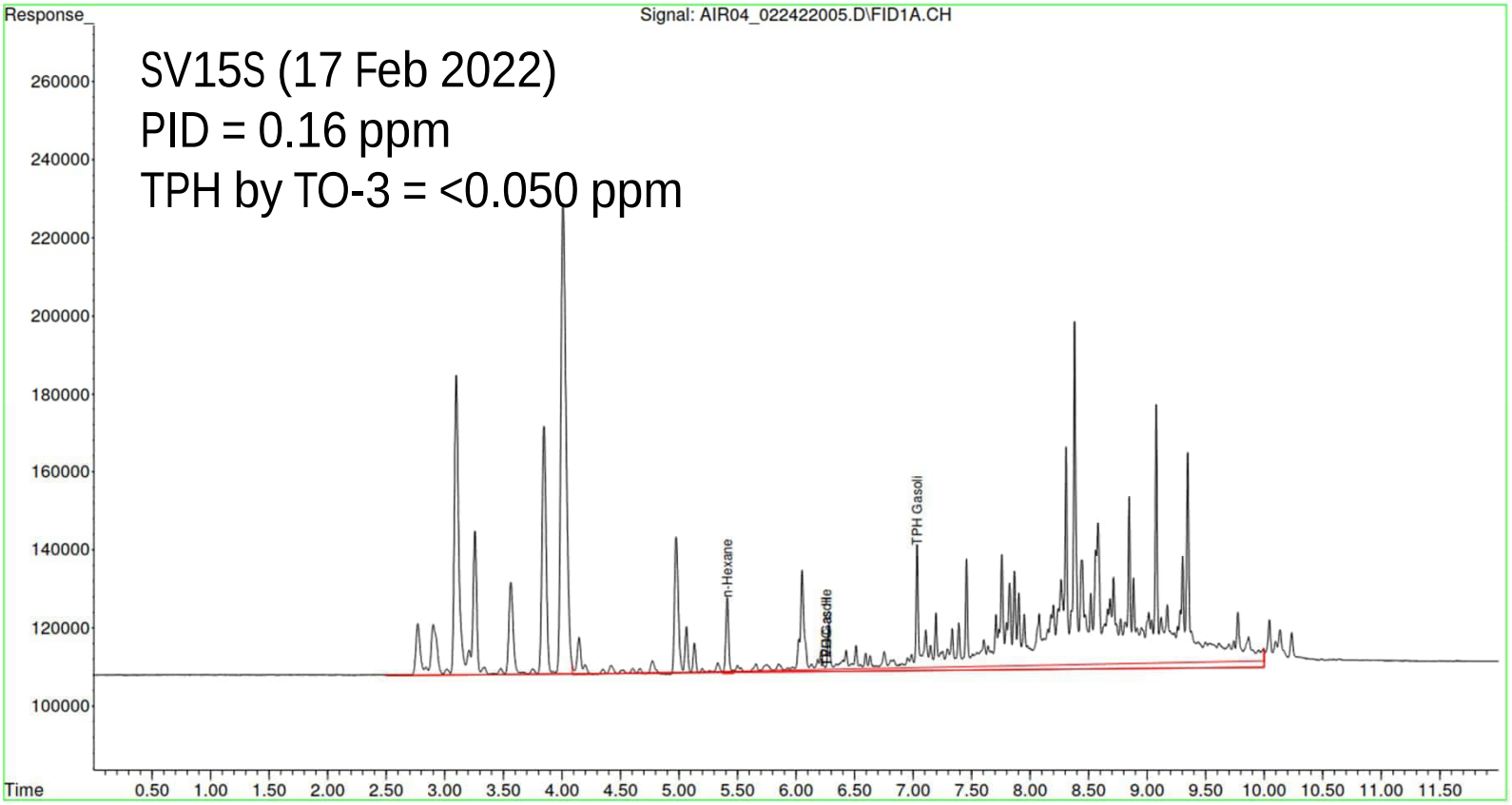

+ TIC Scan Air06_022422022.D (458580-007,284481,2x,PDF:1,C10785)
Counts
x10^6
SV20M (17 Feb 2022) – PID = 1,197 ppb
4.258 Acetaldehyde
5.672 Isopropanol (IPA)
7.284 trans-1,2-Dichloroethene
8.221 Ethyl Acetate
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.594 m,p-Xylenes
15.589 p-Bromofluorobenzene
17.116 tert-Butylbenzene
17.835 1,2-Dichlorobenzene
18.745 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

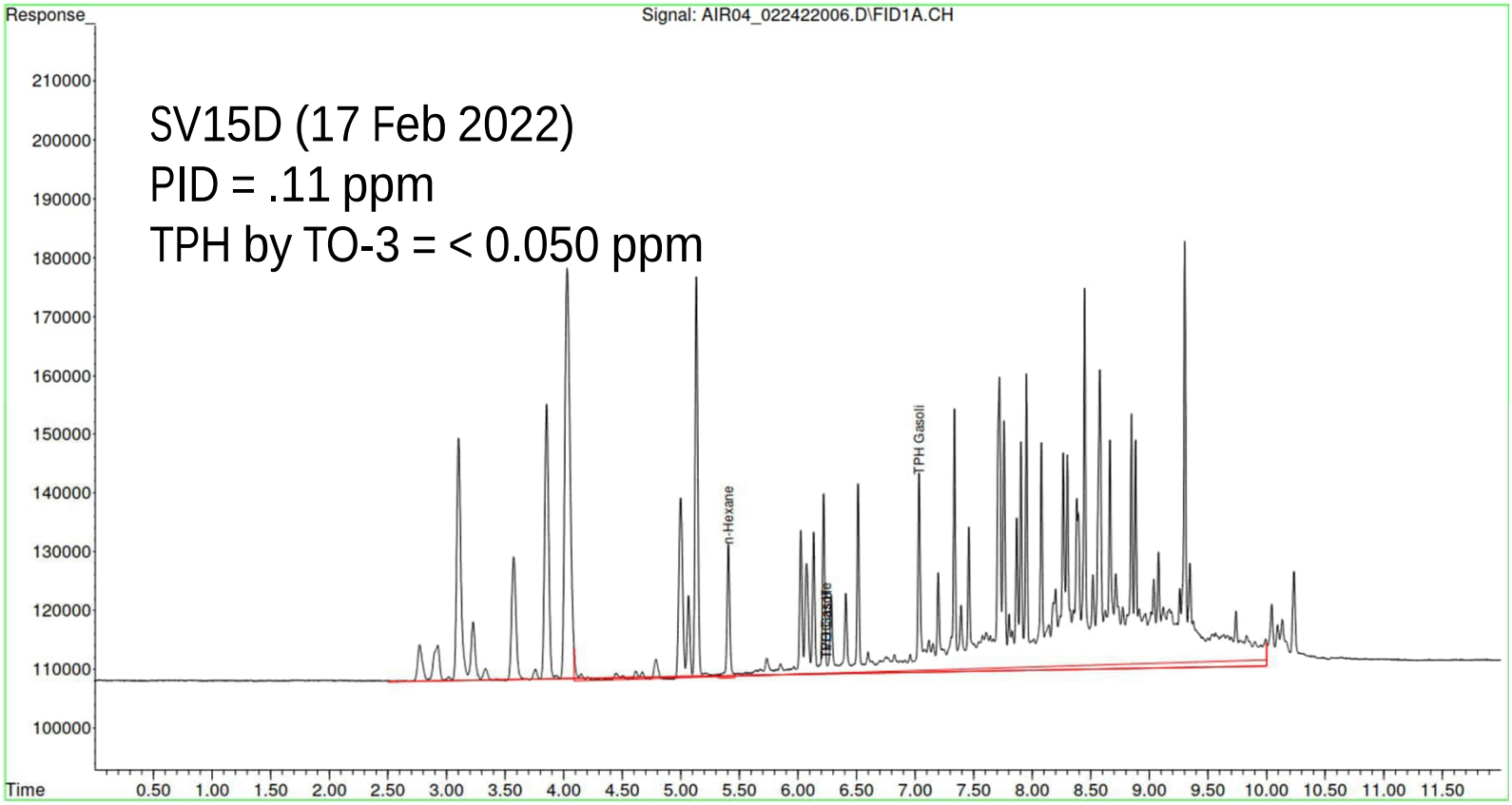

+ TIC Scan Air06_022422023.D (458580-008,284481,2x,PDF:1,C10046)
Counts
x10^6
SV20D (17 Feb 2022) – PID = 1,178 ppb
4.281 Methanol
4.993 Ethanol
5.654 Isopropanol (IPA)
6.567 Carbon Disulfide
7.290 trans-1,2-Dichloroethene
8.209 Ethyl Acetate
8.944 1,2-Dichloroethane
9.893 Methyl tert-Amyl Ether (TAME)
11.377 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
13.358 Tetrachloroethene
14.594 m,p-Xylenes
15.592 p-Bromofluorobenzene
17.113 1,2,4-Trimethylbenzene
17.838 1,2-Dichlorobenzene
18.748 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

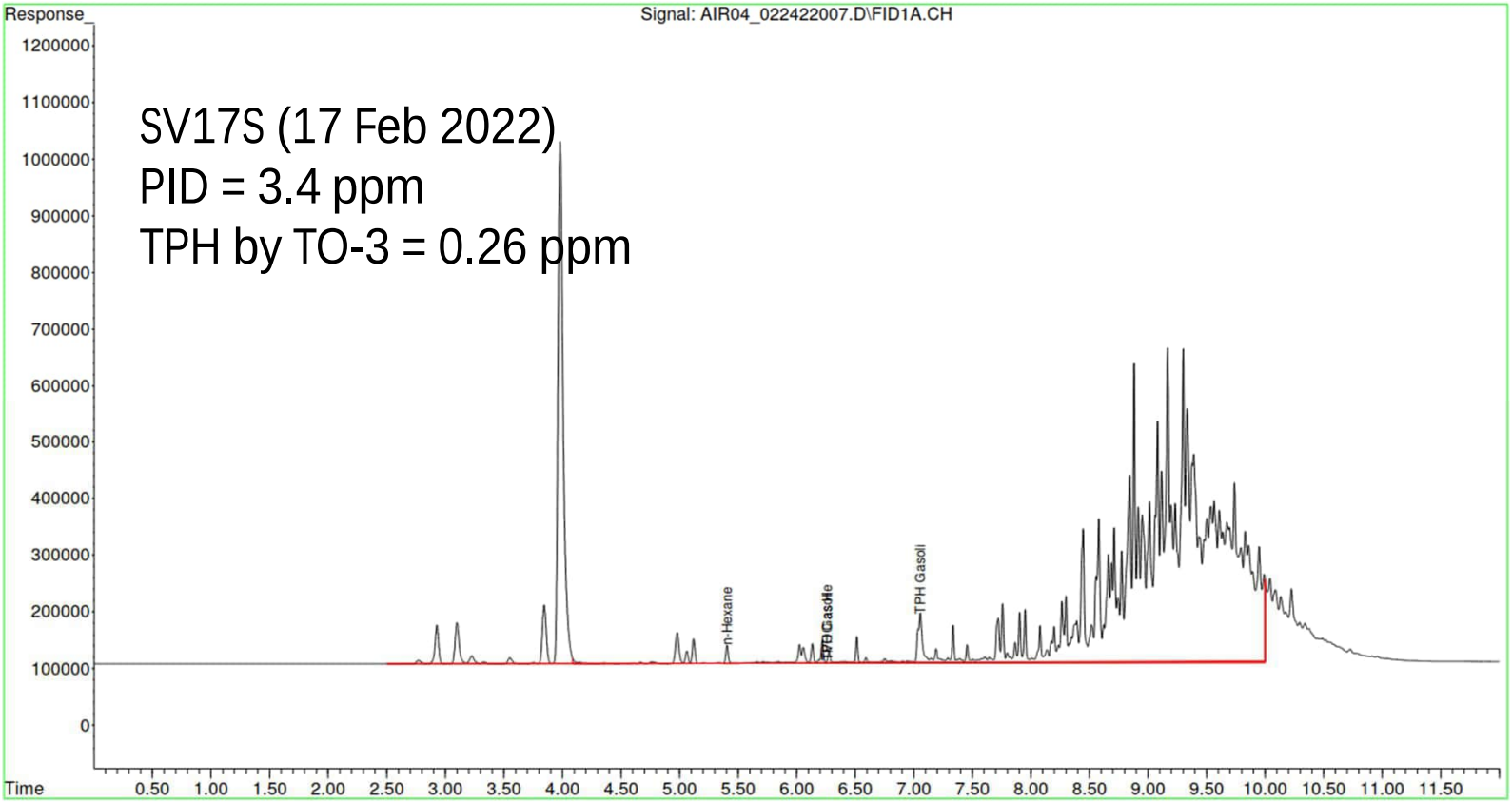
February 2022
Soil Vapor Samples

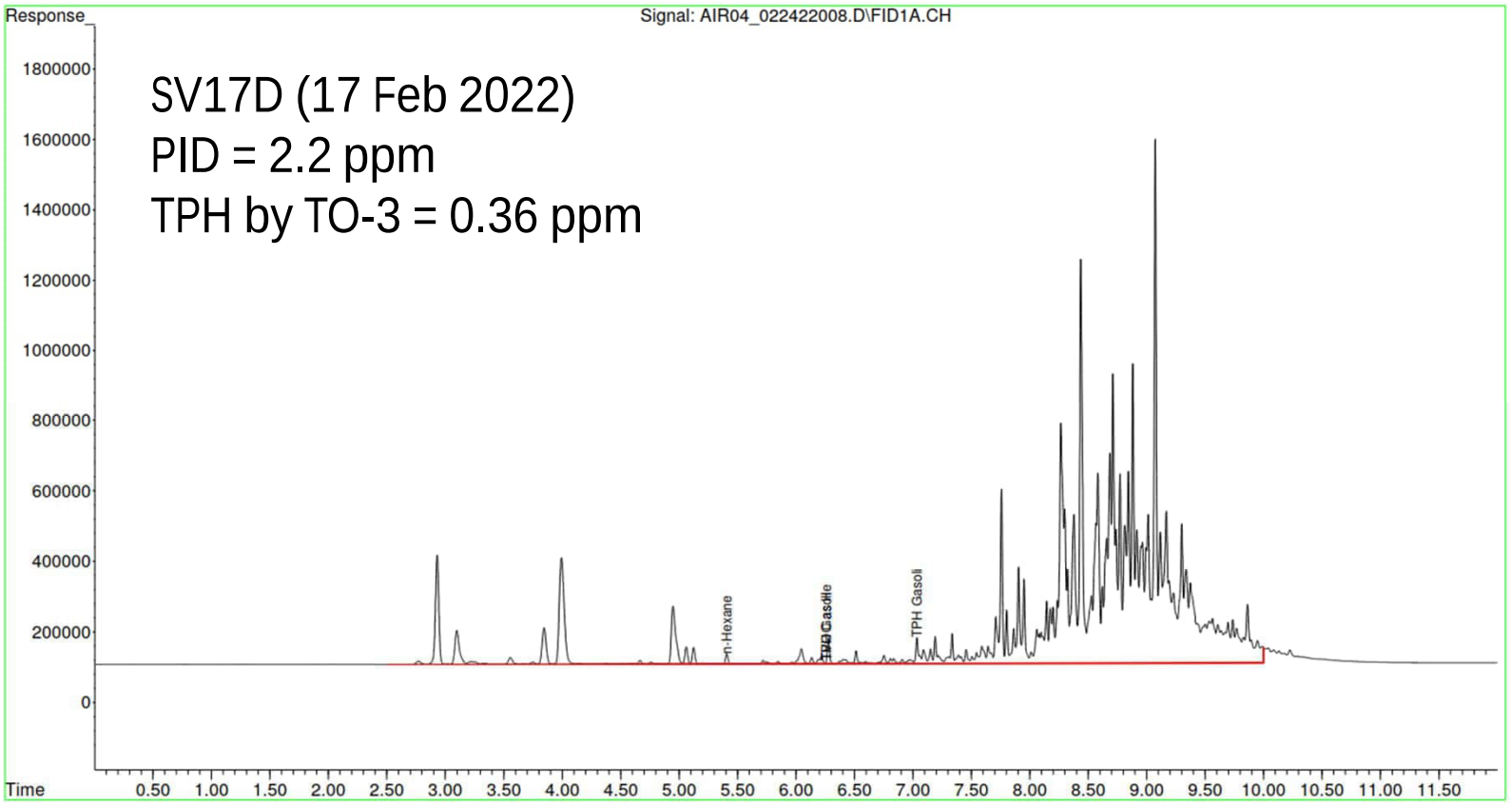
FID Chromatograms

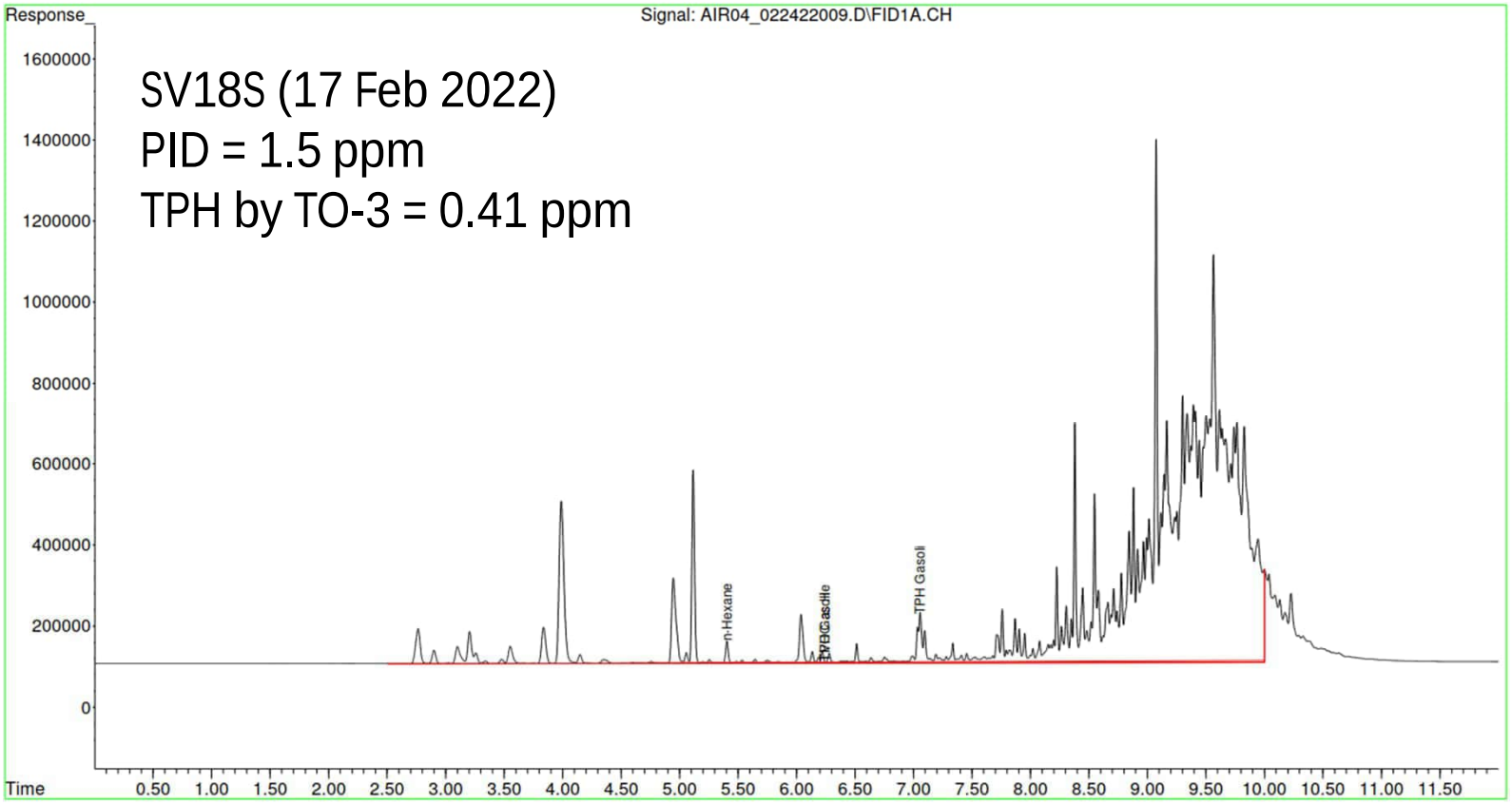

Response_
Signal: AIR04_022422004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 < 0.025 ppm
140000
135000
130000
125000
120000
115000
110000
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

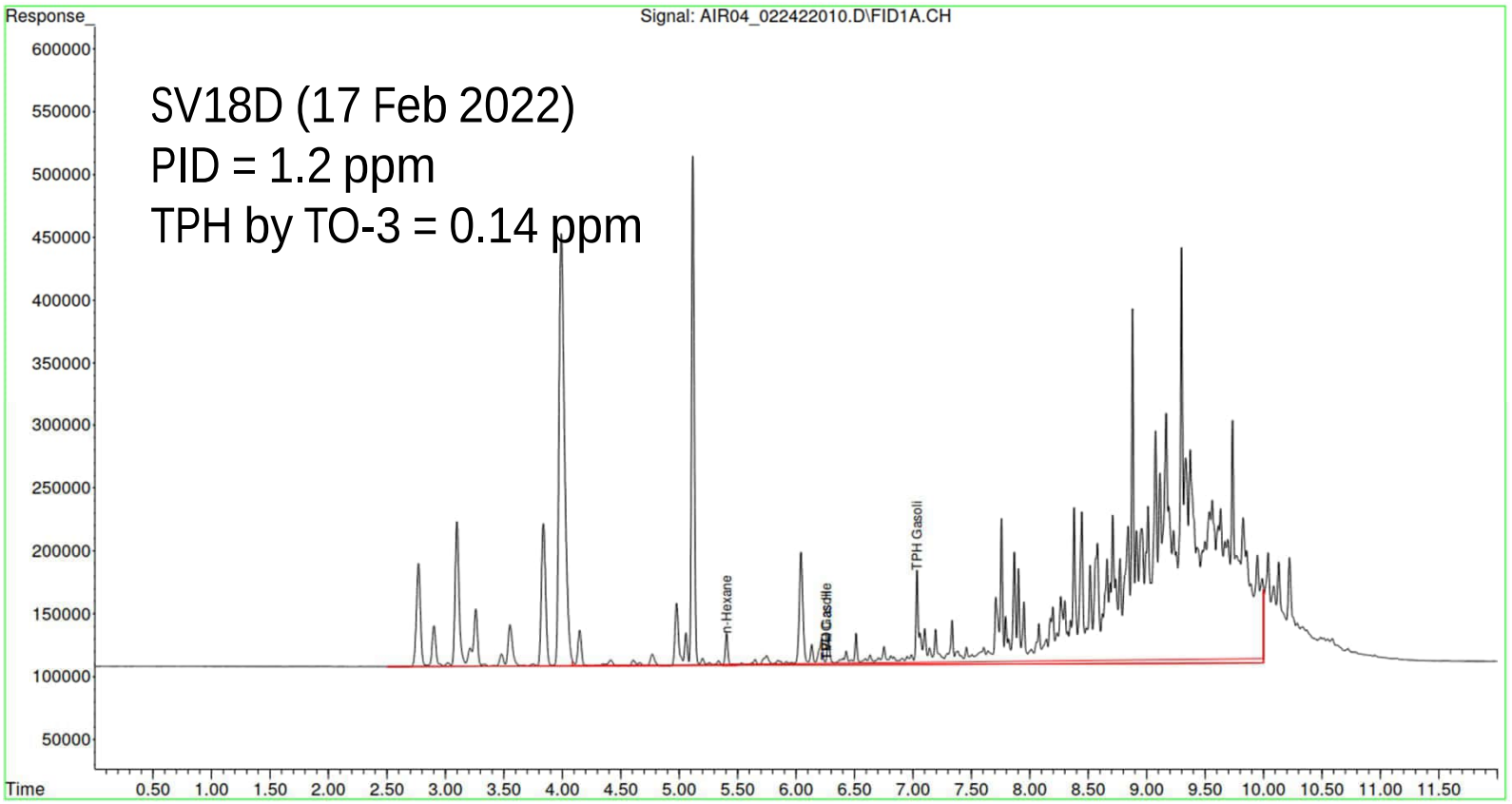

Response_
Signal: AIR04_022422005.D\FID1A.CH
SV15S (17 Feb 2022)
PID = 0.16 ppm
TPH by TO-3 = <0.050 ppm
260000
240000
220000
200000
180000
160000
140000
120000
100000
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

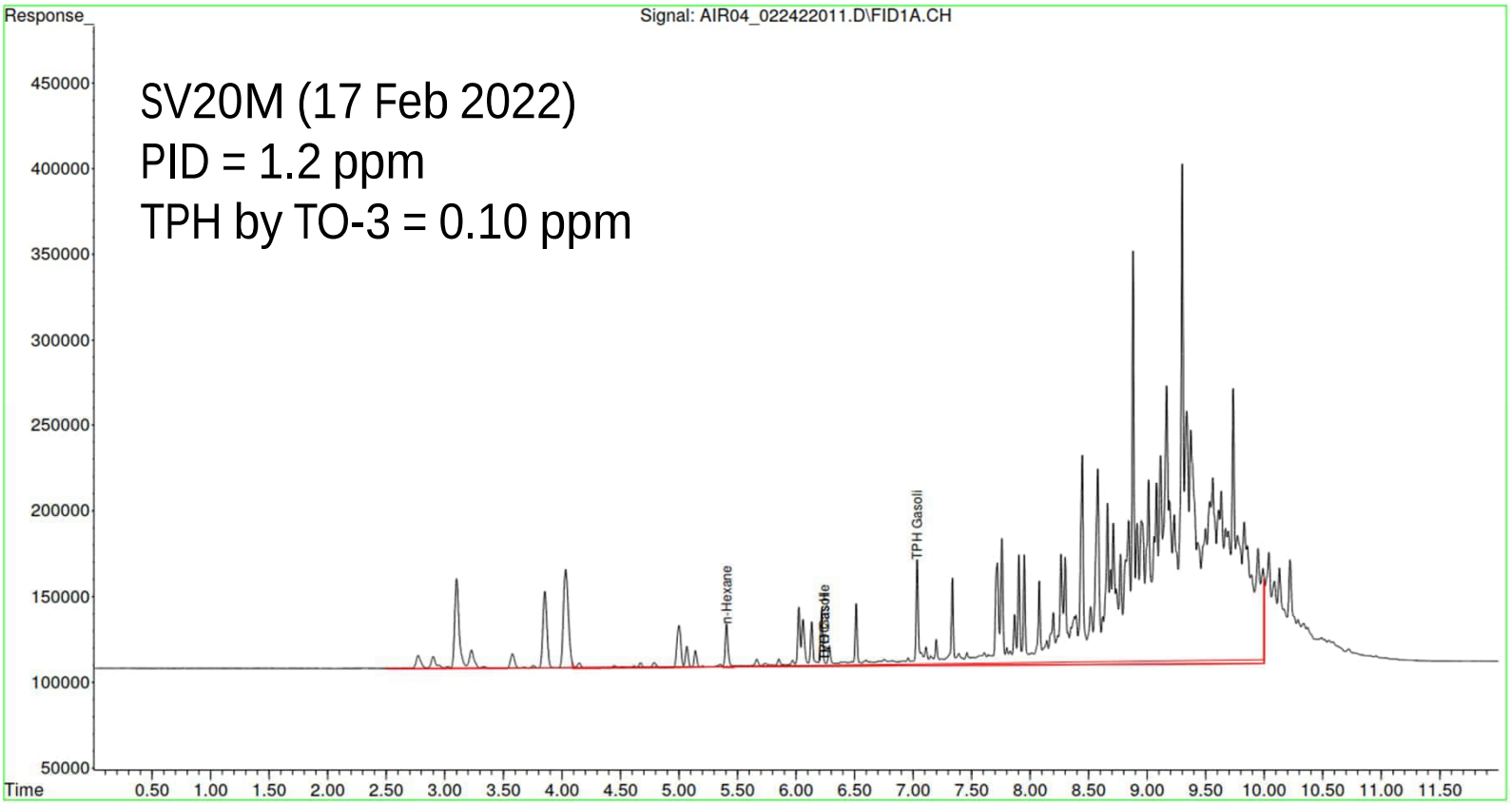

Response_
Signal: AIR04_022422006.D\FID1A.CH
SV15D (17 Feb 2022)
PID = .11 ppm
TPH by TO-3 = < 0.050 ppm
n-Hexane
TPH Gasoli
Time

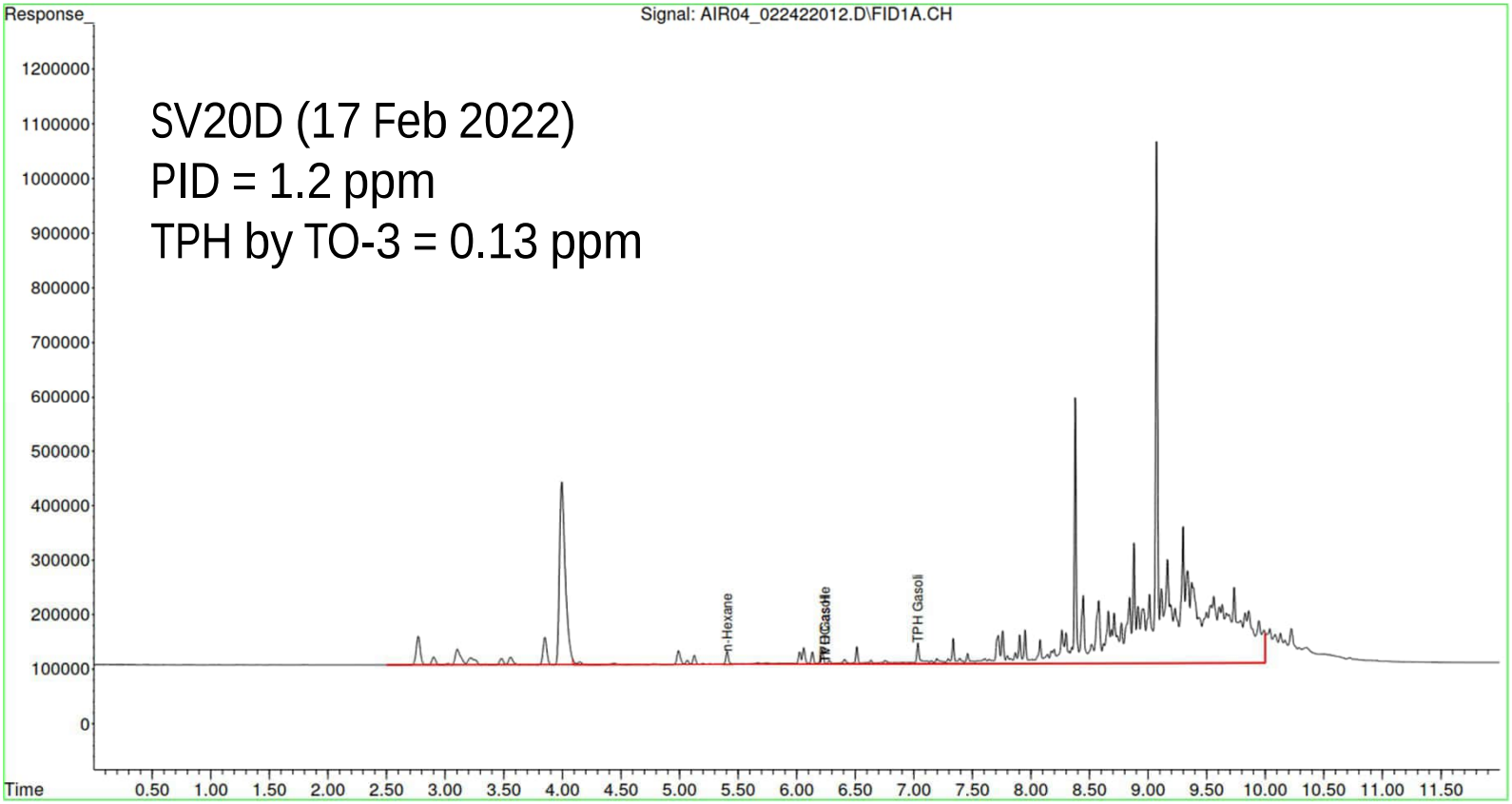

Response_
Signal: AIR04_022422007.D\FID1A.CH
SV17S (17 Feb 2022)
PID = 3.4 ppm
TPH by TO-3 = 0.26 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: AIR04_022422008.D\FID1A.CH
SV17D (17 Feb 2022)
PID = 2.2 ppm
TPH by TO-3 = 0.36 ppm
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_022422009.D\FID1A.CH
SV18S (17 Feb 2022)
PID = 1.5 ppm
TPH by TO-3 = 0.41 ppm
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
n-Hexane
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

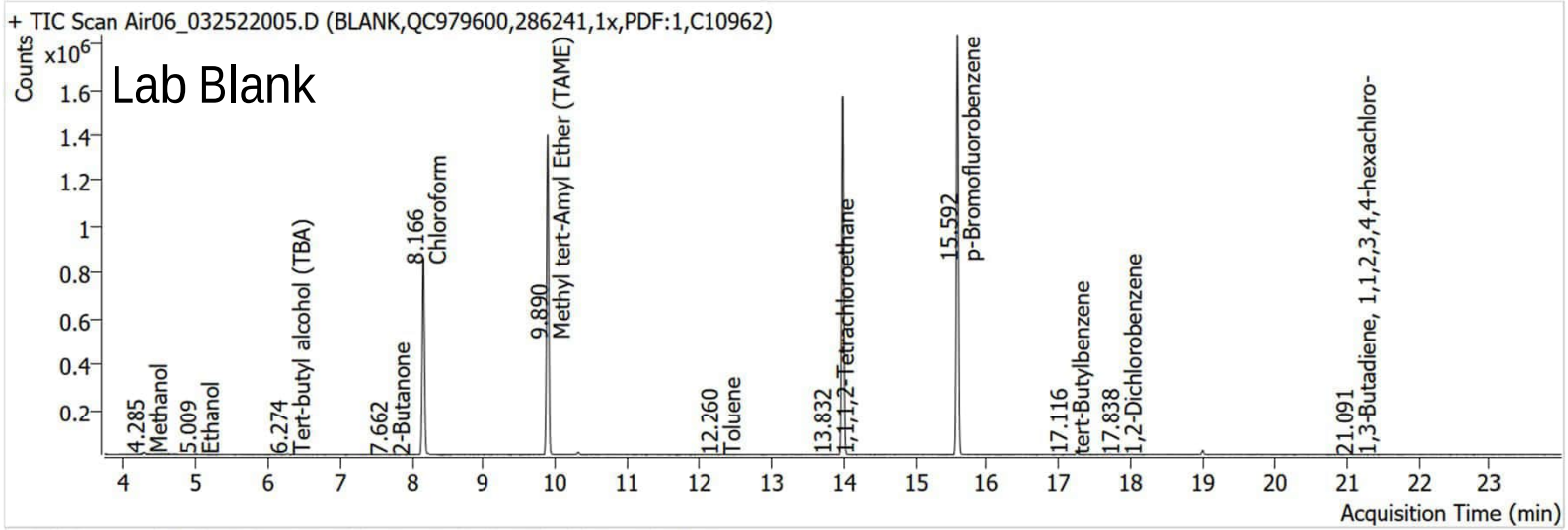

Response_
Signal: AIR04_022422010.D\FID1A.CH
SV18D (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.14 ppm
n-Hexane
TPH Gasoli
Time

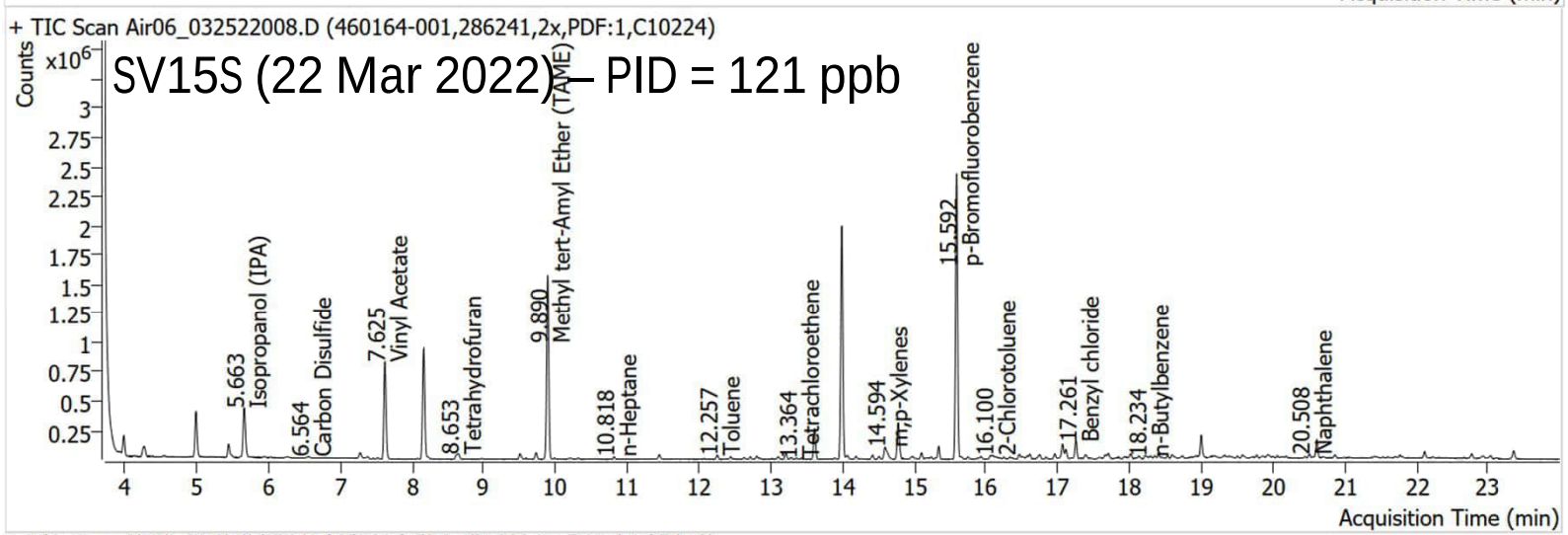

Response_
Signal: AIR04_022422011.D\FID1A.CH
SV20M (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.10 ppm
n-Hexane
TPH Gasoli
Time

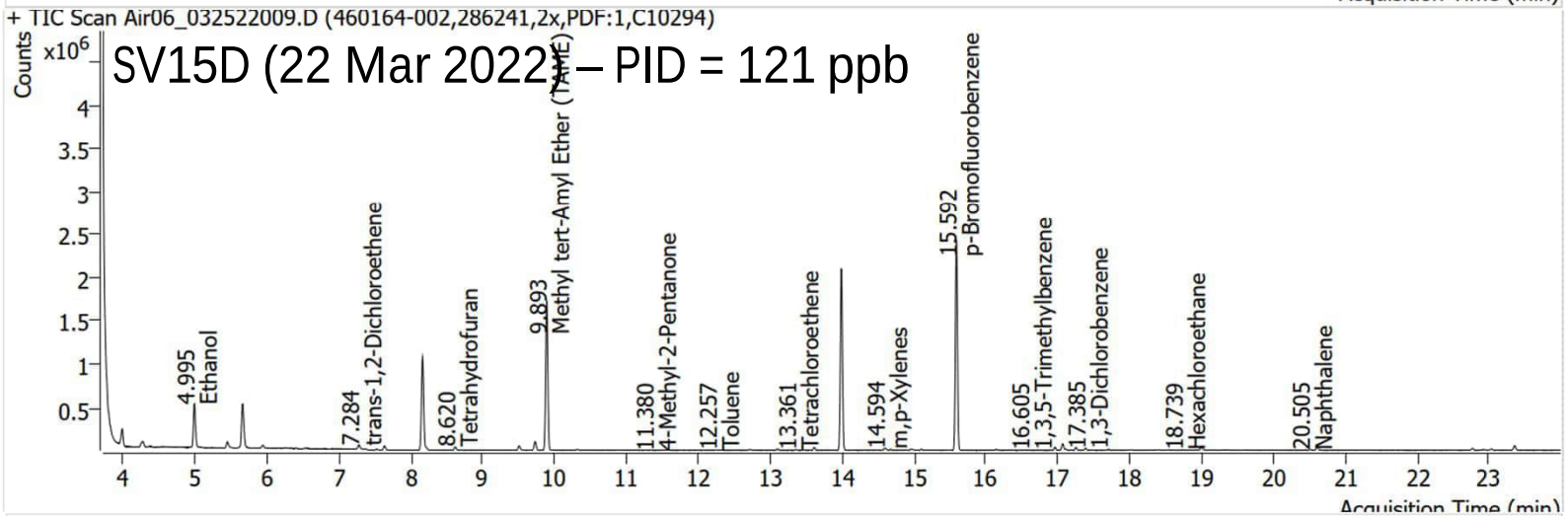

Response_
Signal: AIR04_022422012.D\FID1A.CH
SV20D (17 Feb 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.13 ppm
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

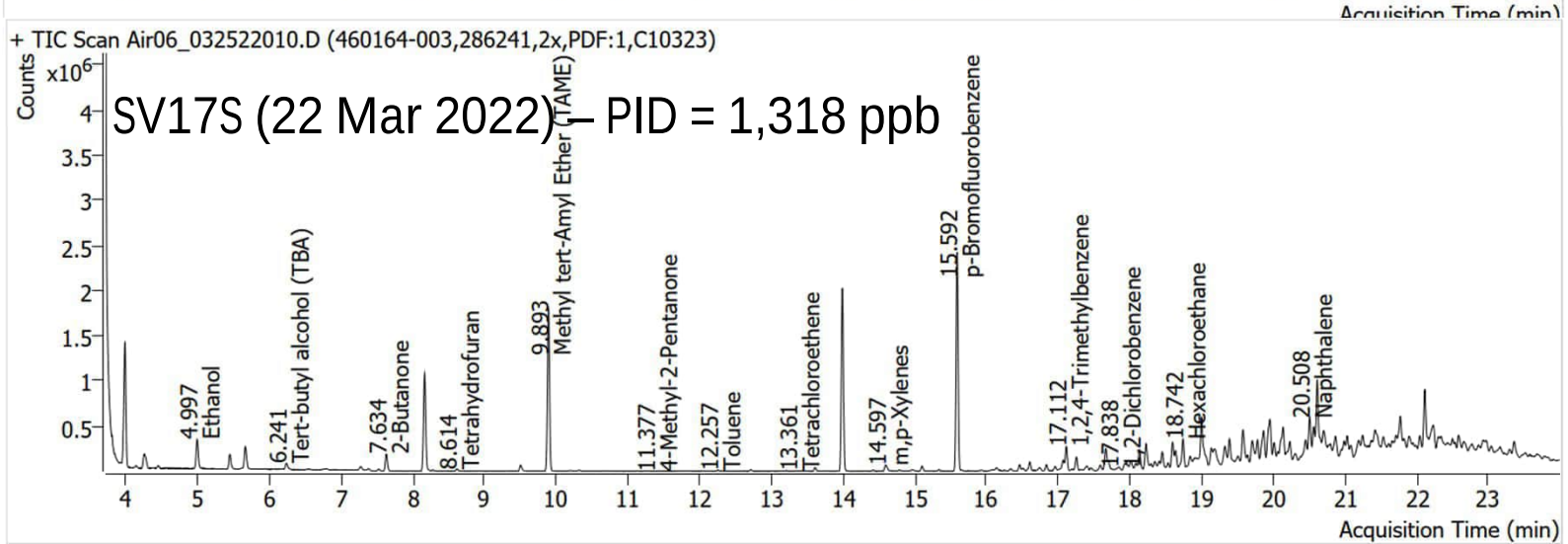
March 2022
Soil Vapor Samples

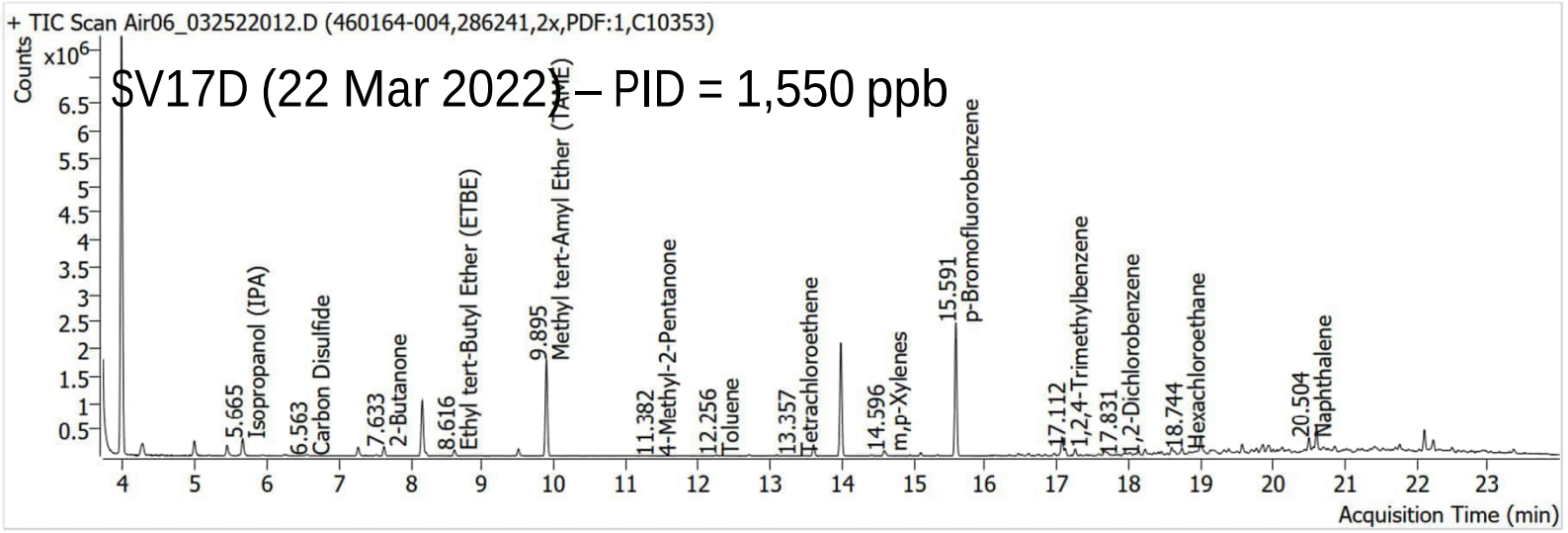
Mass Spec Chromatograms

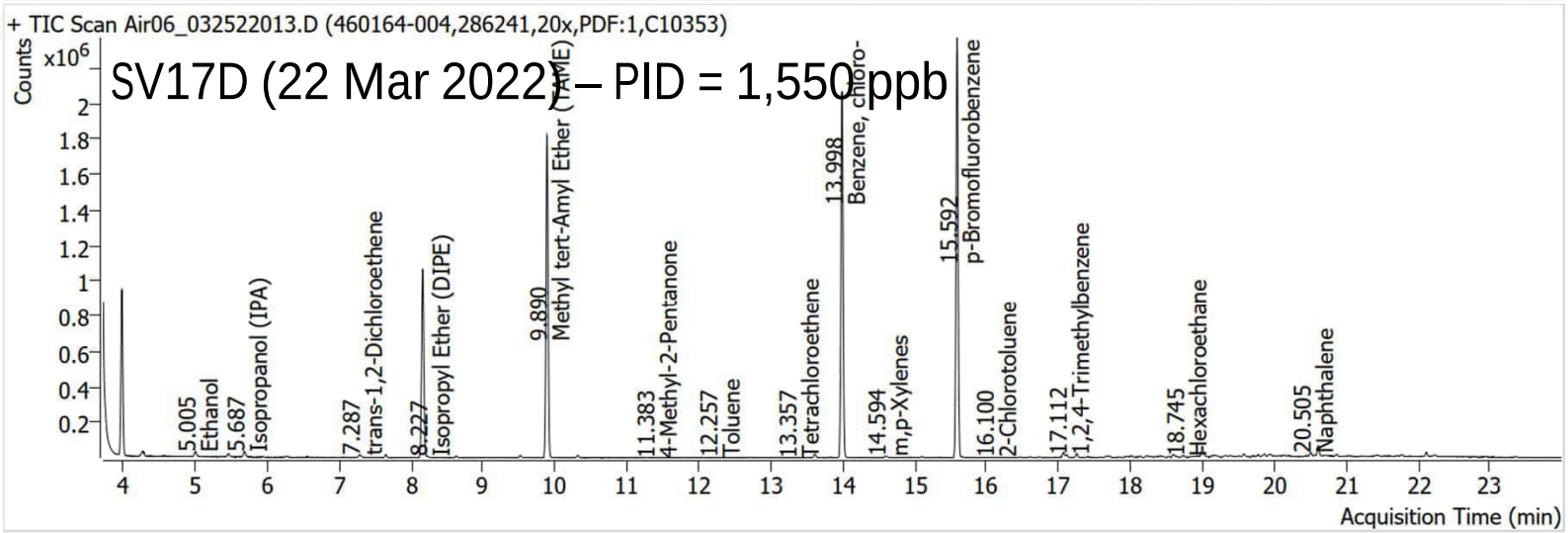

+ TIC Scan Air06_032522005.D (BLANK,QC979600,286241,1x,PDF:1,C10962)
Lab Blank
Counts
x10^6
4.285 Methanol
5.009 Ethanol
6.274 Tert-butyl alcohol (TBA)
7.662 2-Butanone
8.166 Chloroform
9.890 Methyl tert-Amyl Ether (TAME)
12.260 Toluene
13.832 1,1,2-Tetrachloroethane
15.592 p-Bromofluorobenzene
17.116 tert-Butylbenzene
17.838 1,2-Dichlorobenzene
21.091 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

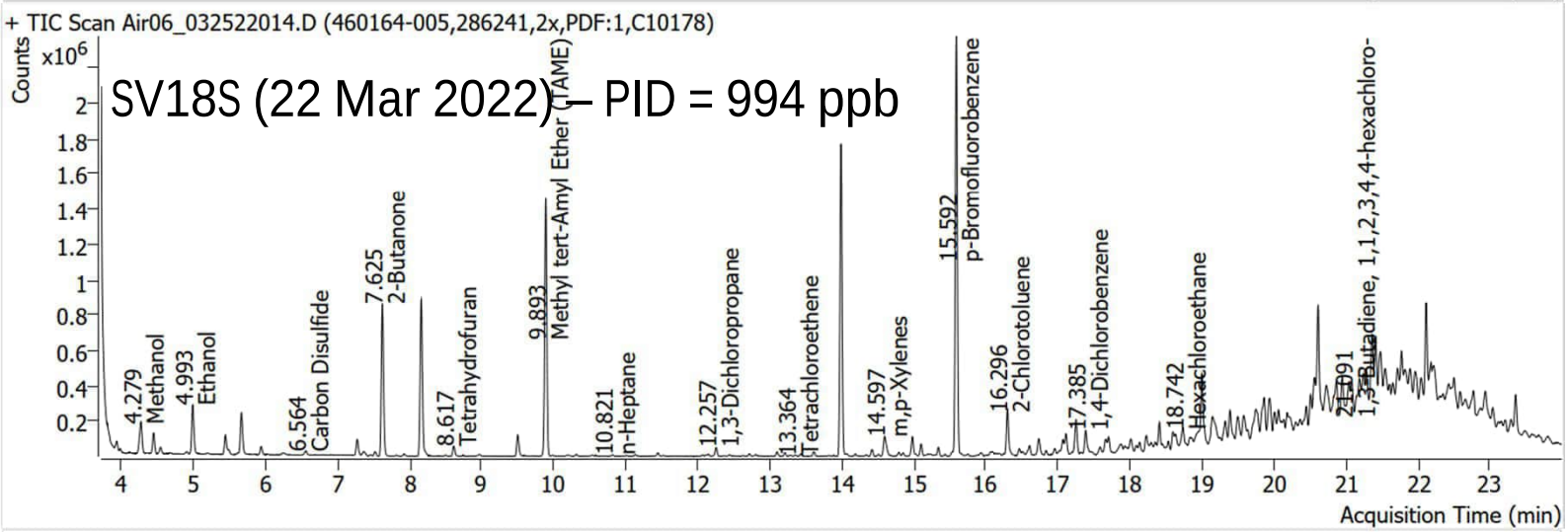

+ TIC Scan Air06_032522008.D (460164-001,286241,2x,PDF:1,C10224)
SV15S (22 Mar 2022) – PID = 121 ppb
Counts
x10^6
5.663 Isopropanol (IPA)
6.564 Carbon Disulfide
7.625 Vinyl Acetate
8.653 Tetrahydrofuran
9.890 Methyl tert-Amyl Ether (TAME)
10.818 n-Heptane
12.257 Toluene
13.364 Tetrachloroethene
14.594 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.100 2-Chlorotoluene
17.261 Benzyl chloride
18.234 n-Butylbenzene
20.508 Naphthalene
Acquisition Time (min)

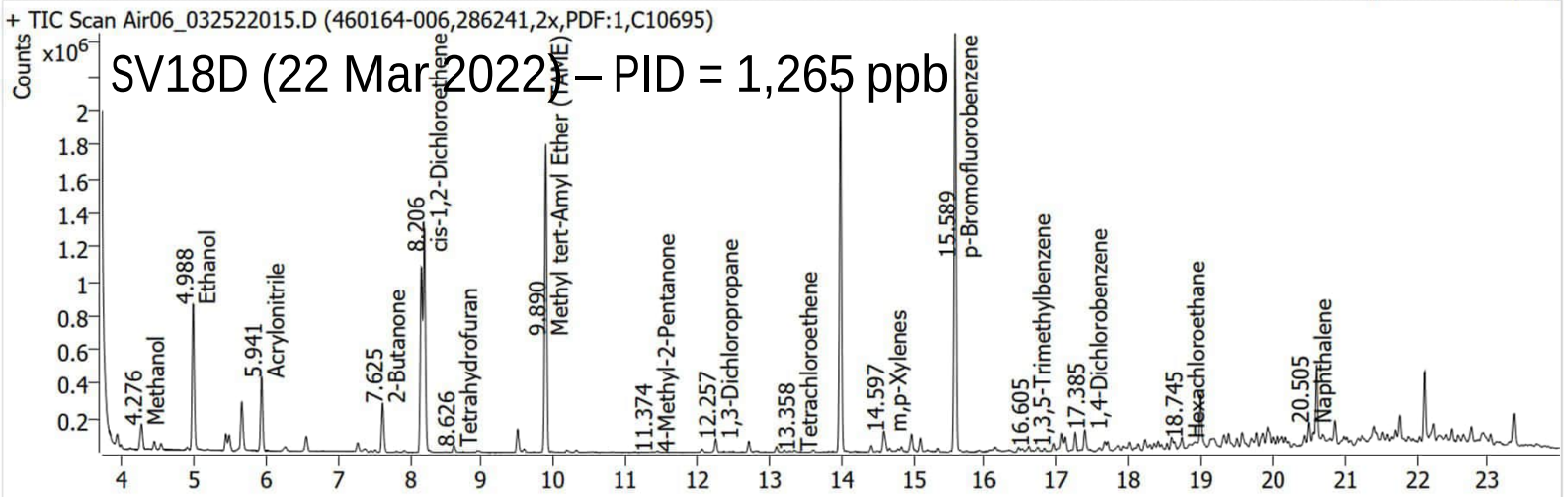

+ TIC Scan Air06_032522009.D (460164-002,286241,2x,PDF:1,C10294)
SV15D (22 Mar 2022) – PID = 121 ppb
Counts
x10^6
4.995 Ethanol
7.284 trans-1,2-Dichloroethene
8.620 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.594 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.605 1,3,5-Trimethylbenzene
17.385 1,3-Dichlorobenzene
18.739 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

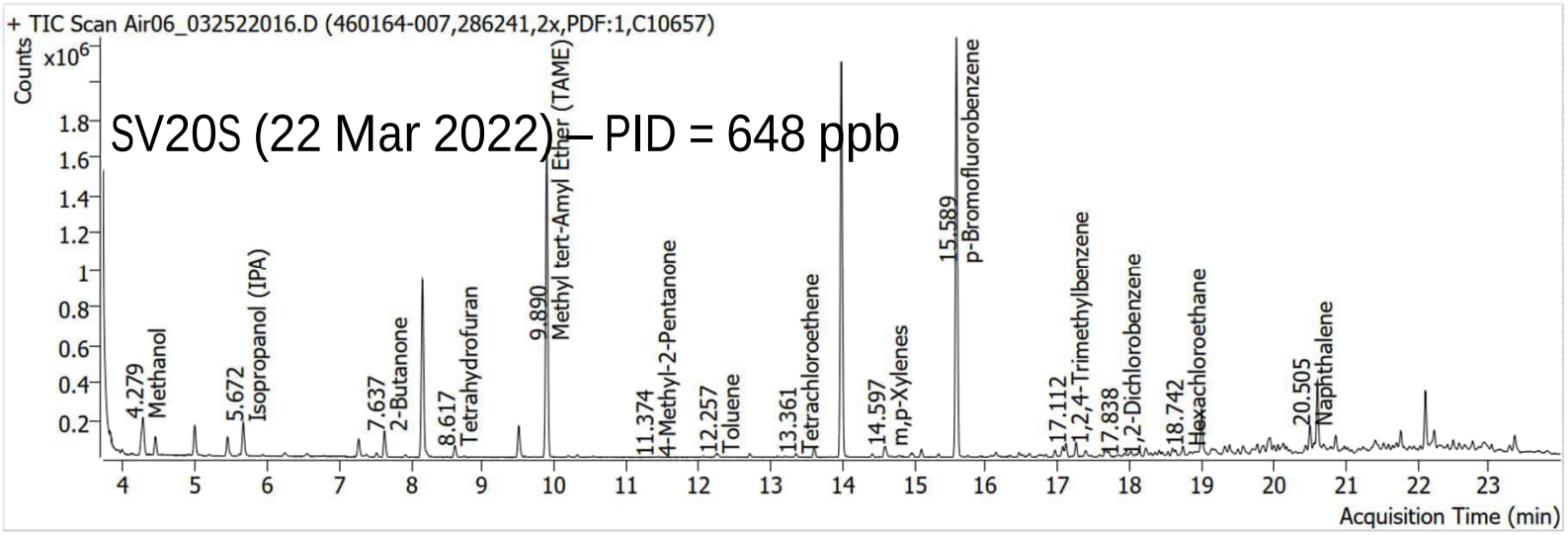

+ TIC Scan Air06_032522010.D (460164-003,286241,2x,PDF:1,C10323)
SV17S (22 Mar 2022) – PID = 1,318 ppb
Counts
x10^6
4.997 Ethanol
6.241 Tert-butyl alcohol (TBA)
7.634 2-Butanone
8.614 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
11.377 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.597 m,p-Xylenes
15.592 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.838 1,2-Dichlorobenzene
18.742 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

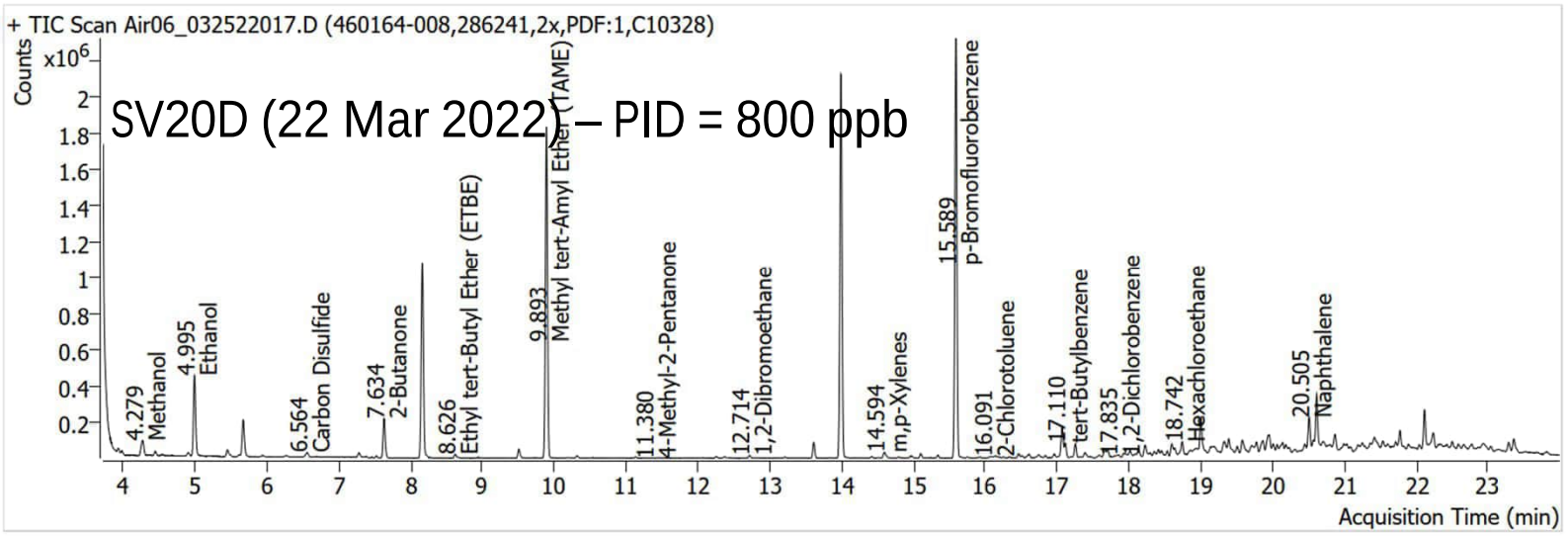

+ TIC Scan Air06_032522012.D (460164-004,286241,2x,PDF:1,C10353)
SV17D (22 Mar 2022) – PID = 1,550 ppb
Counts
x10^6
5.665 Isopropanol (IPA)
6.563 Carbon Disulfide
7.633 2-Butanone
8.616 Ethyl tert-Butyl Ether (ETBE)
9.895 Methyl tert-Amyl Ether (TAME)
11.382 4-Methyl-2-Pentanone
12.256 Toluene
13.357 Tetrachloroethene
14.596 m,p-Xylenes
15.591 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.831 1,2-Dichlorobenzene
18.744 Hexachloroethane
20.504 Naphthalene
Acquisition Time (min)

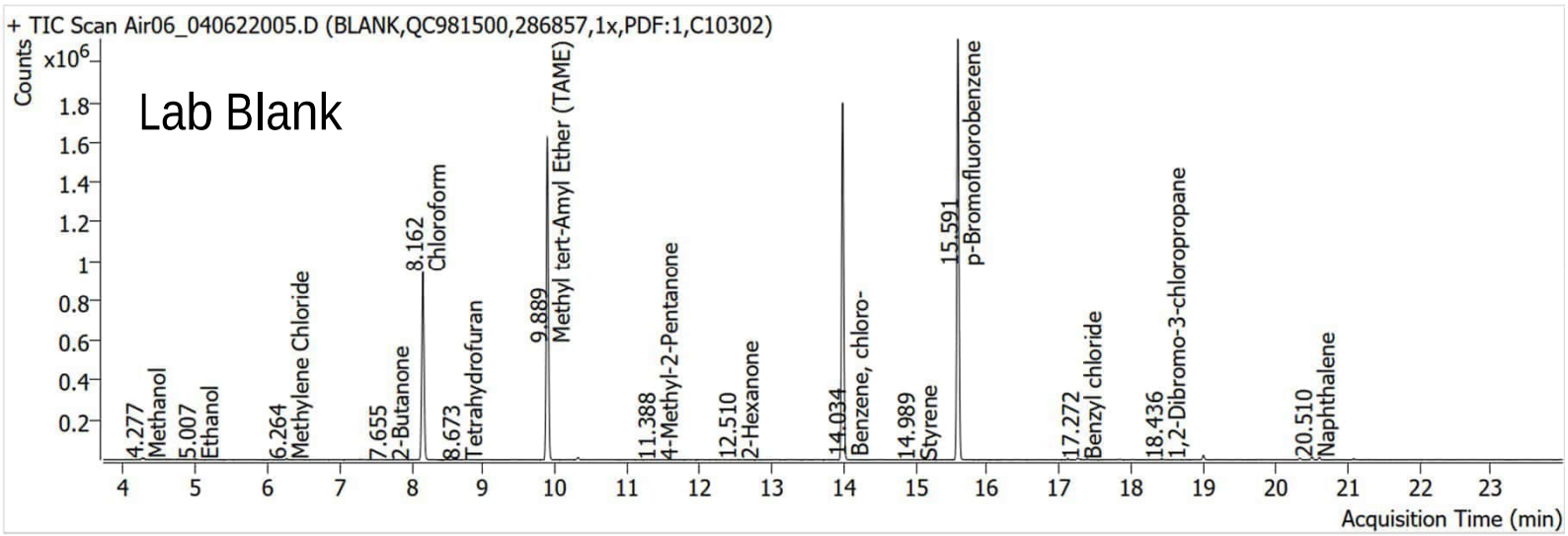

+ TIC Scan Air06_032522013.D (460164-004,286241,20x,PDF:1,C10353)
SV17D (22 Mar 2022) – PID = 1,550 ppb
Counts
x10^6
5.005 Ethanol
5.687 Isopropanol (IPA)
7.287 trans-1,2-Dichloroethene
8.227 Isopropyl Ether (DIPE)
9.890 Methyl tert-Amyl Ether (TAME)
11.383 4-Methyl-2-Pentanone
12.257 Toluene
13.357 Tetrachloroethene
13.998 Benzene, chloro-
14.594 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.100 2-Chlorotoluene
17.112 1,2,4-Trimethylbenzene
18.745 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

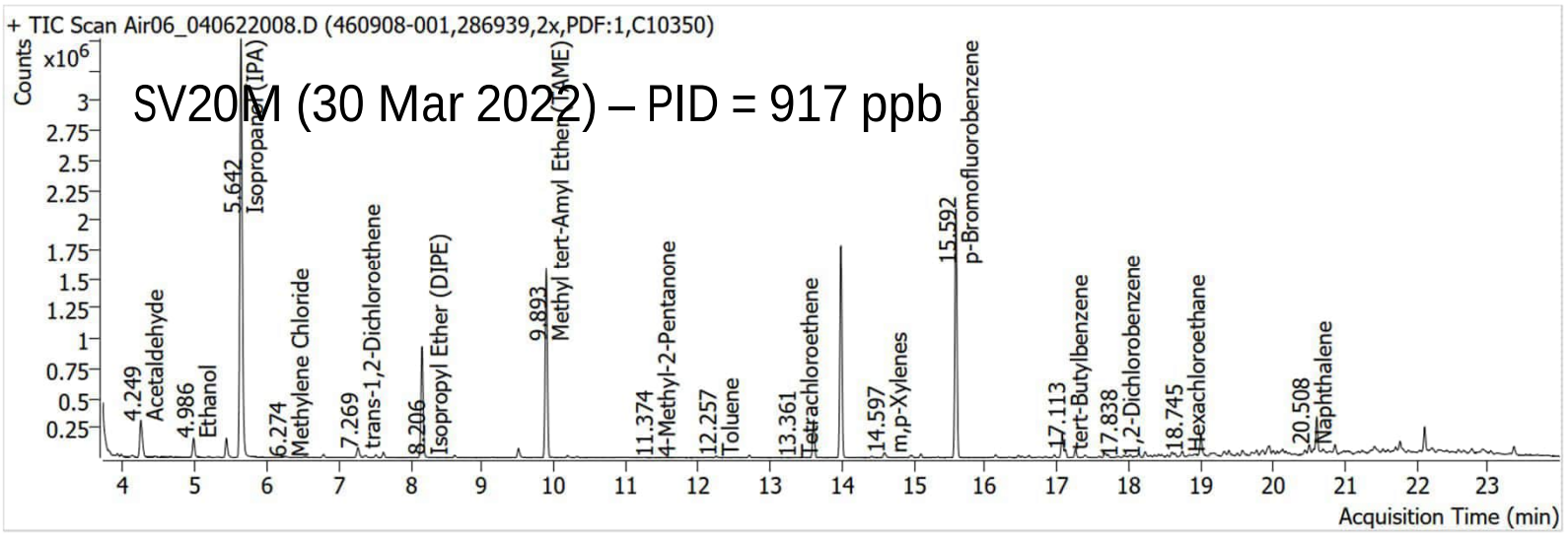

+ TIC Scan Air06_032522014.D (460164-005,286241,2x,PDF:1,C10178)
SV18S (22 Mar 2022) – PID = 994 ppb
Counts
x10^6
4.279 Methanol
4.993 Ethanol
6.564 Carbon Disulfide
7.625 2-Butanone
8.617 Tetrahydrofuran
9.893 Methyl tert-Amyl Ether (TAME)
10.821 n-Heptane
12.257 1,3-Dichloropropane
13.364 Tetrachloroethene
14.597 m,p-Xylenes
15.592 p-Bromofluorobenzene
16.296 2-Chlorotoluene
17.385 1,4-Dichlorobenzene
18.742 Hexachloroethane
21.091 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

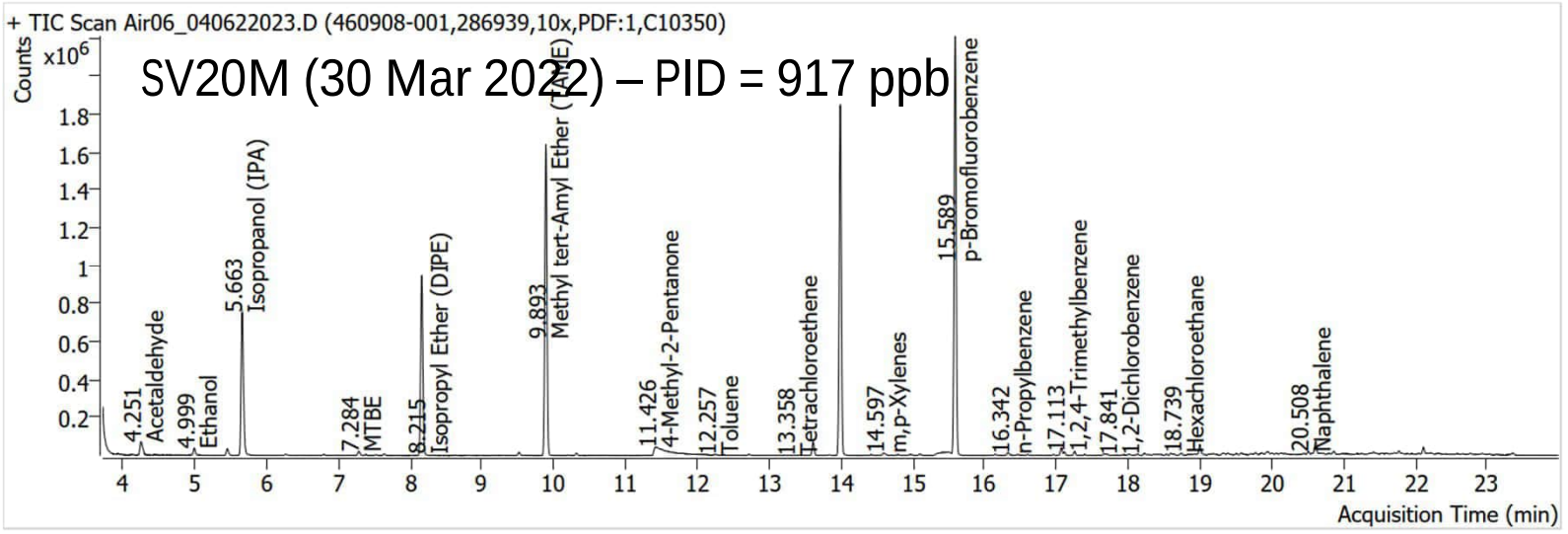

+ TIC Scan Air06_032522015.D (460164-006,286241,2x,PDF:1,C10695)
SV18D (22 Mar 2022) – PID = 1,265 ppb
Counts
x10^6
4.276 Methanol
4.988 Ethanol
5.941 Acrylonitrile
7.625 2-Butanone
8.206 cis-1,2-Dichloroethene
8.626 Tetrahydrofuran
9.890 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 1,3-Dichloropropane
13.358 Tetrachloroethene
14.597 m,p-Xylenes
15.589 p-Bromofluorobenzene
16.605 1,3,5-Trimethylbenzene
17.385 1,4-Dichlorobenzene
18.745 Hexachloroethane
20.505 Naphthalene


+ TIC Scan Air06_032522016.D (460164-007,286241,2x,PDF:1,C10657)
Counts
x10^6
SV20S (22 Mar 2022) – PID = 648 ppb
4.279 Methanol
5.672 Isopropanol (IPA)
7.637 2-Butanone
8.617 Tetrahydrofuran
9.890 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.597 m,p-Xylenes
15.589 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.838 1,2-Dichlorobenzene
18.742 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_032522017.D (460164-008,286241,2x,PDF:1,C10328)
Counts
x10^6
SV20D (22 Mar 2022) – PID = 800 ppb
4.279 Methanol
4.995 Ethanol
6.564 Carbon Disulfide
7.634 2-Butanone
8.626 Ethyl tert-Butyl Ether (ETBE)
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.714 1,2-Dibromoethane
14.594 m,p-Xylenes
15.589 p-Bromofluorobenzene
16.091 2-Chlorotoluene
17.110 tert-Butylbenzene
17.835 1,2-Dichlorobenzene
18.742 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

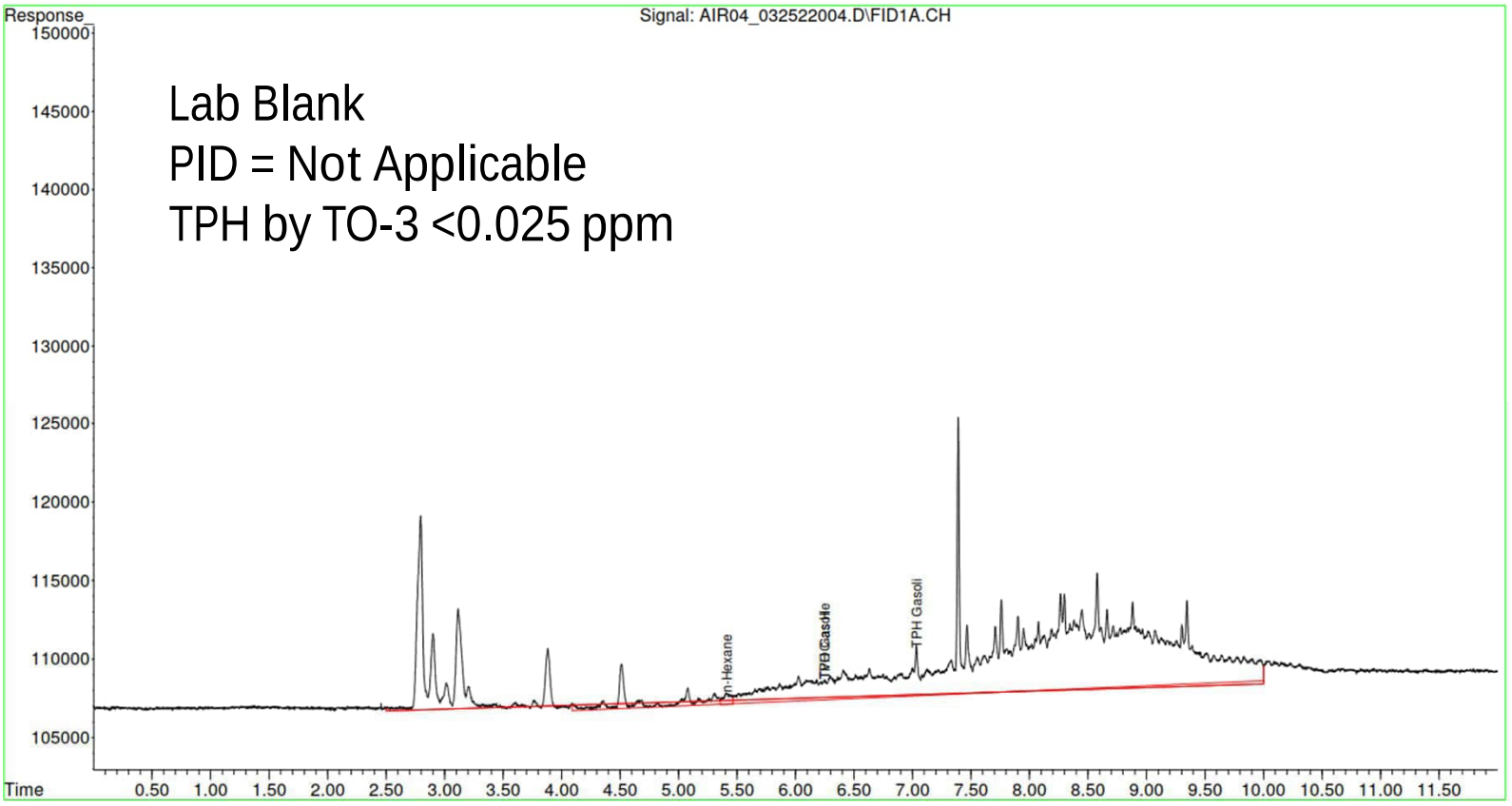

+ TIC Scan Air06_040622005.D (BLANK,QC981500,286857,1x,PDF:1,C10302)
Lab Blank
Counts
x10^6
4.277 Methanol
5.007 Ethanol
6.264 Methylene Chloride
7.655 2-Butanone
8.162 Chloroform
8.673 Tetrahydrofuran
9.889 Methyl tert-Amyl Ether (TAME)
11.388 4-Methyl-2-Pentanone
12.510 2-Hexanone
14.034 Benzene, chloro-
14.989 Styrene
15.591 p-Bromofluorobenzene
17.272 Benzyl chloride
18.436 1,2-Dibromo-3-chloropropane
20.510 Naphthalene
Acquisition Time (min)

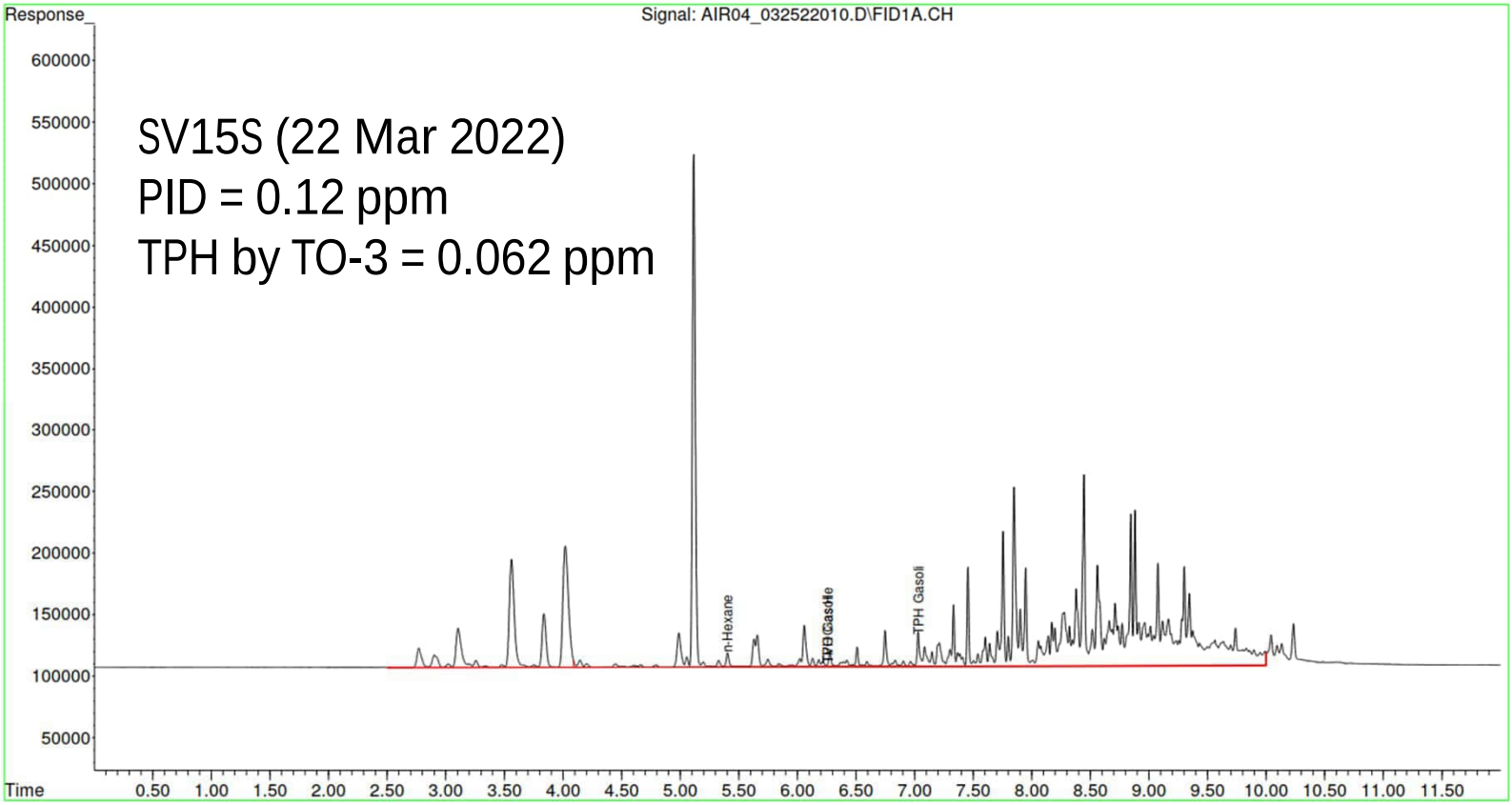

+ TIC Scan Air06_040622008.D (460908-001,286939,2x,PDF:1,C10350)
SV20M (30 Mar 2022) – PID = 917 ppb
Counts
x10^6
4.249 Acetaldehyde
4.986 Ethanol
5.642 Isopropanol (IPA)
6.274 Methylene Chloride
7.269 trans-1,2-Dichloroethene
8.206 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.374 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.597 m,p-Xylenes
15.592 p-Bromofluorobenzene
17.113 tert-Butylbenzene
17.838 1,2-Dichlorobenzene
18.745 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

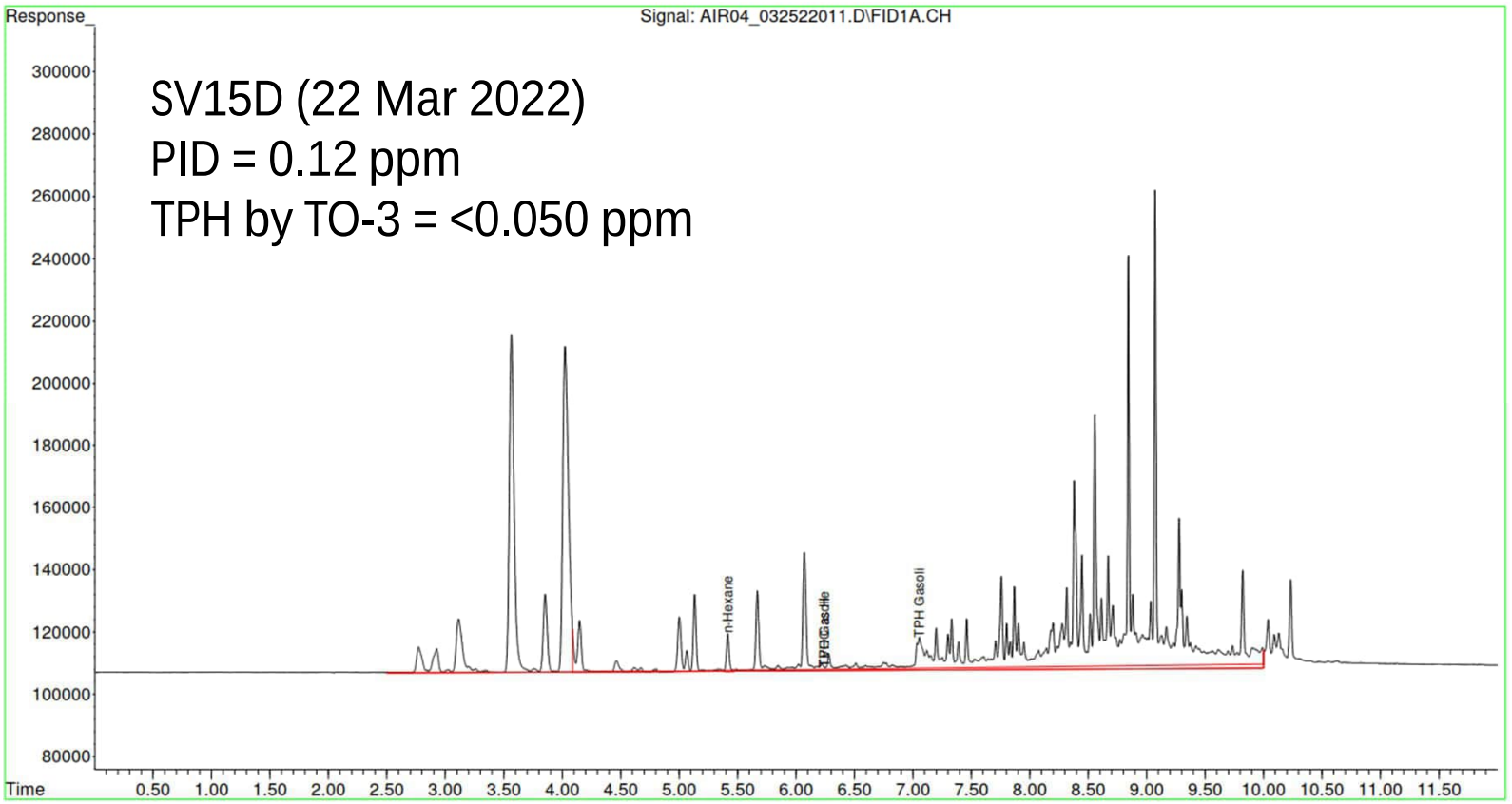

+ TIC Scan Air06_040622023.D (460908-001,286939,10x,PDF:1,C10350)
SV20M (30 Mar 2022) – PID = 917 ppb
Counts
x10^6
4.251 Acetaldehyde
4.999 Ethanol
5.663 Isopropanol (IPA)
7.284 MTBE
8.215 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.426 4-Methyl-2-Pentanone
12.257 Toluene
13.358 Tetrachloroethene
14.597 m,p-Xylenes
15.589 p-Bromofluorobenzene
16.342 n-Propylbenzene
17.113 1,2,4-Trimethylbenzene
17.841 1,2-Dichlorobenzene
18.739 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)

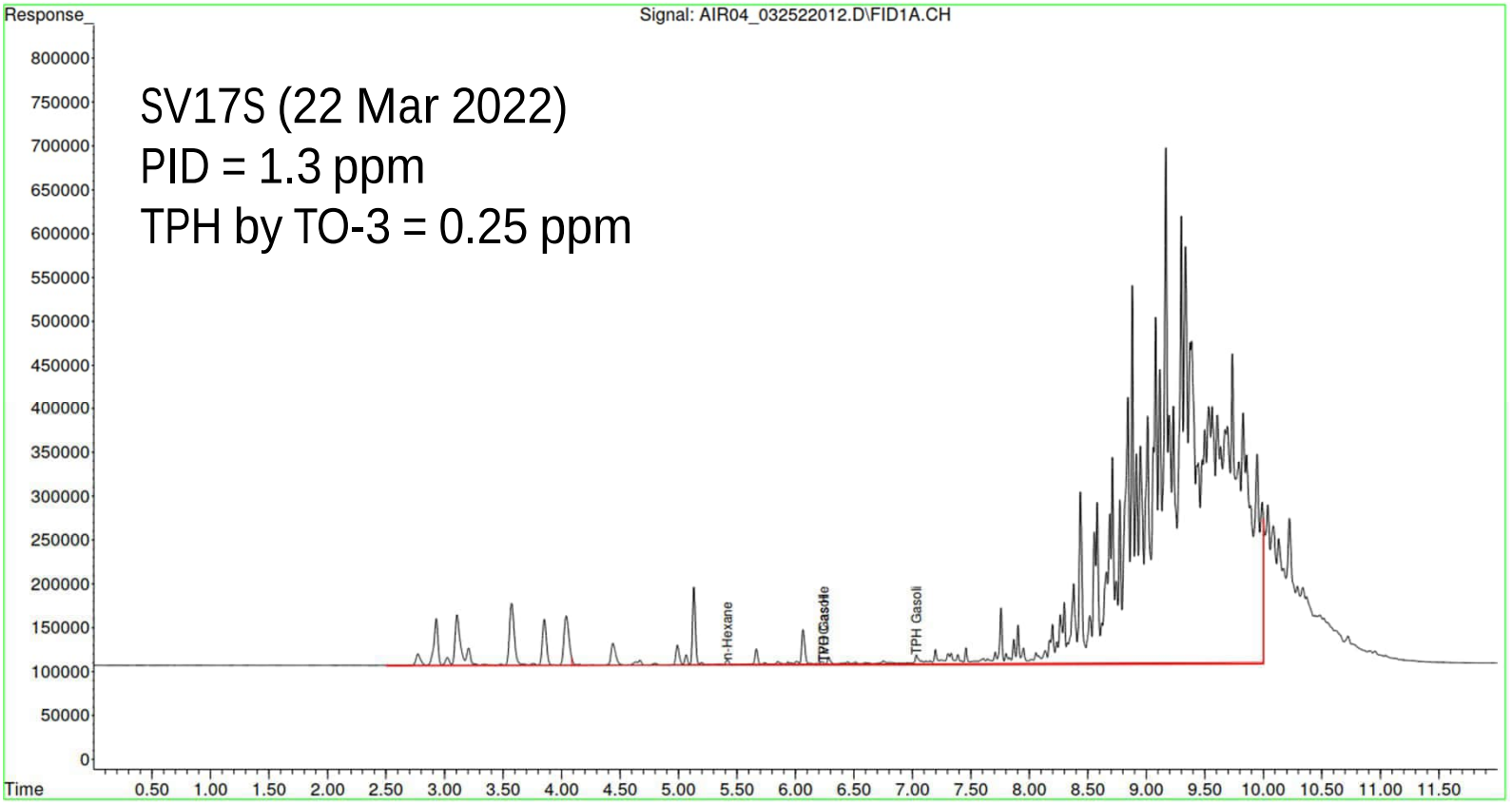
March 2022
Soil Vapor Samples

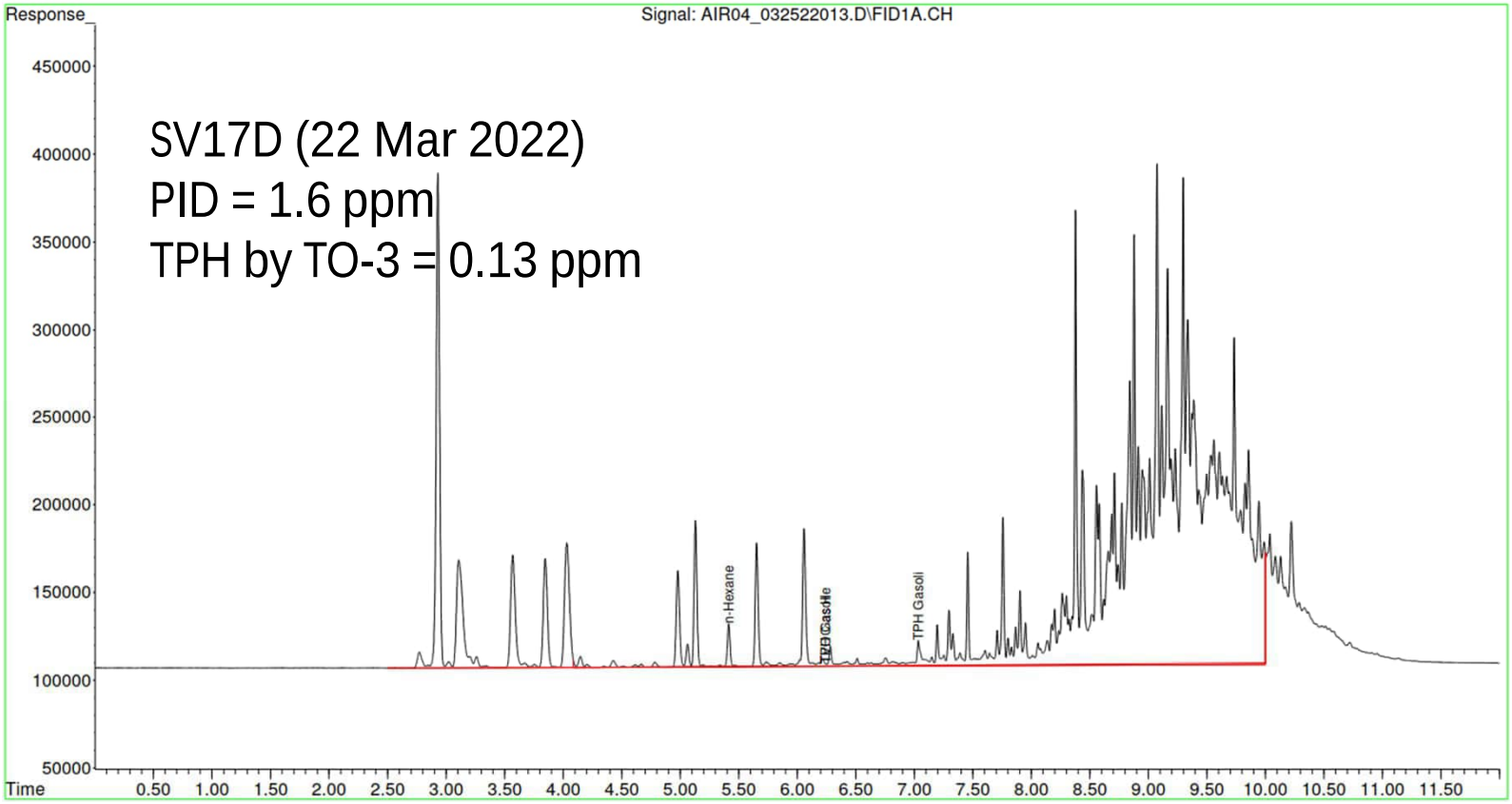
FID Chromatograms

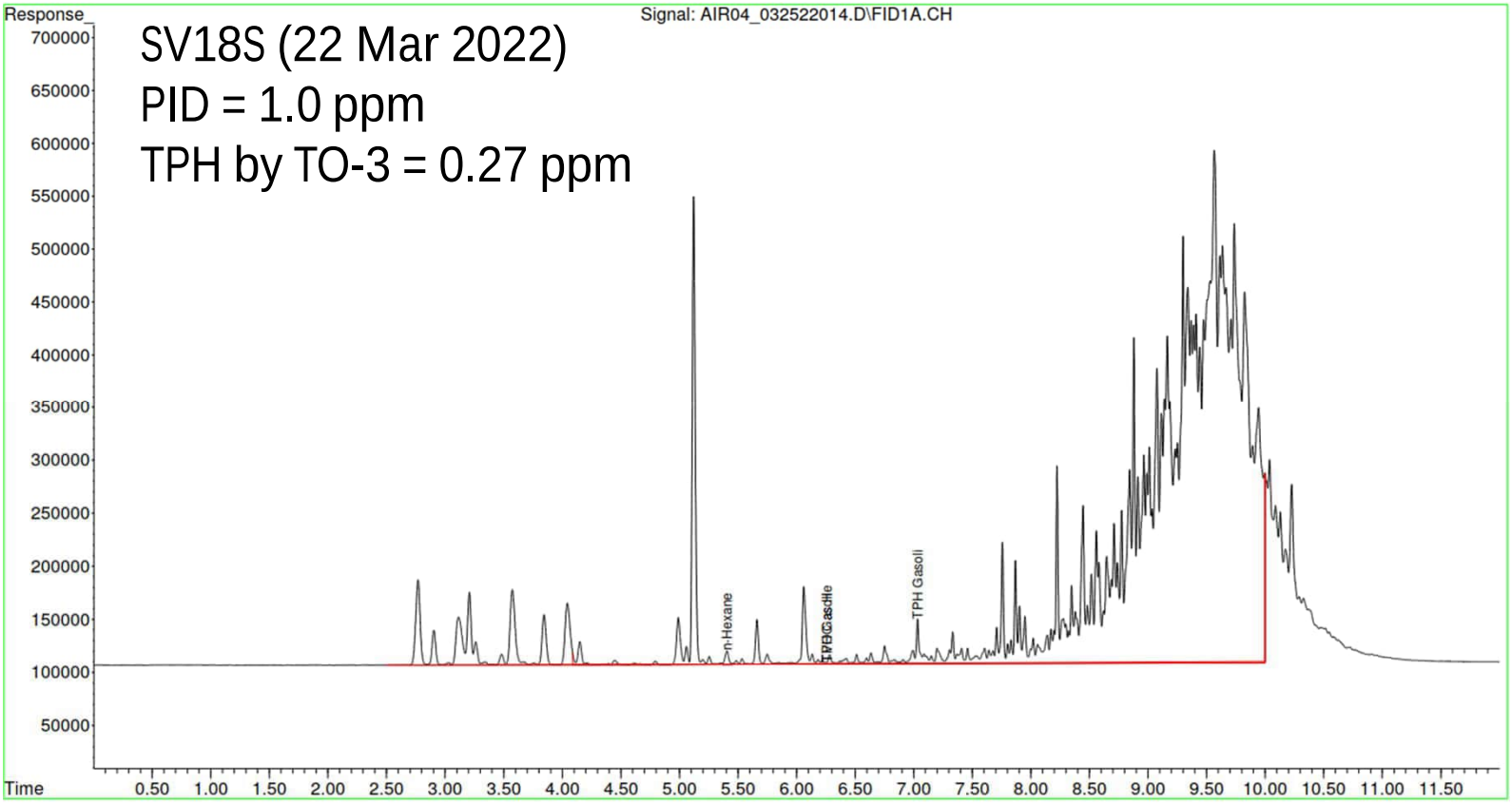

Response
Signal: AIR04_032522004.D\FID1A.CH
150000
145000
140000
135000
130000
125000
120000
115000
110000
105000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

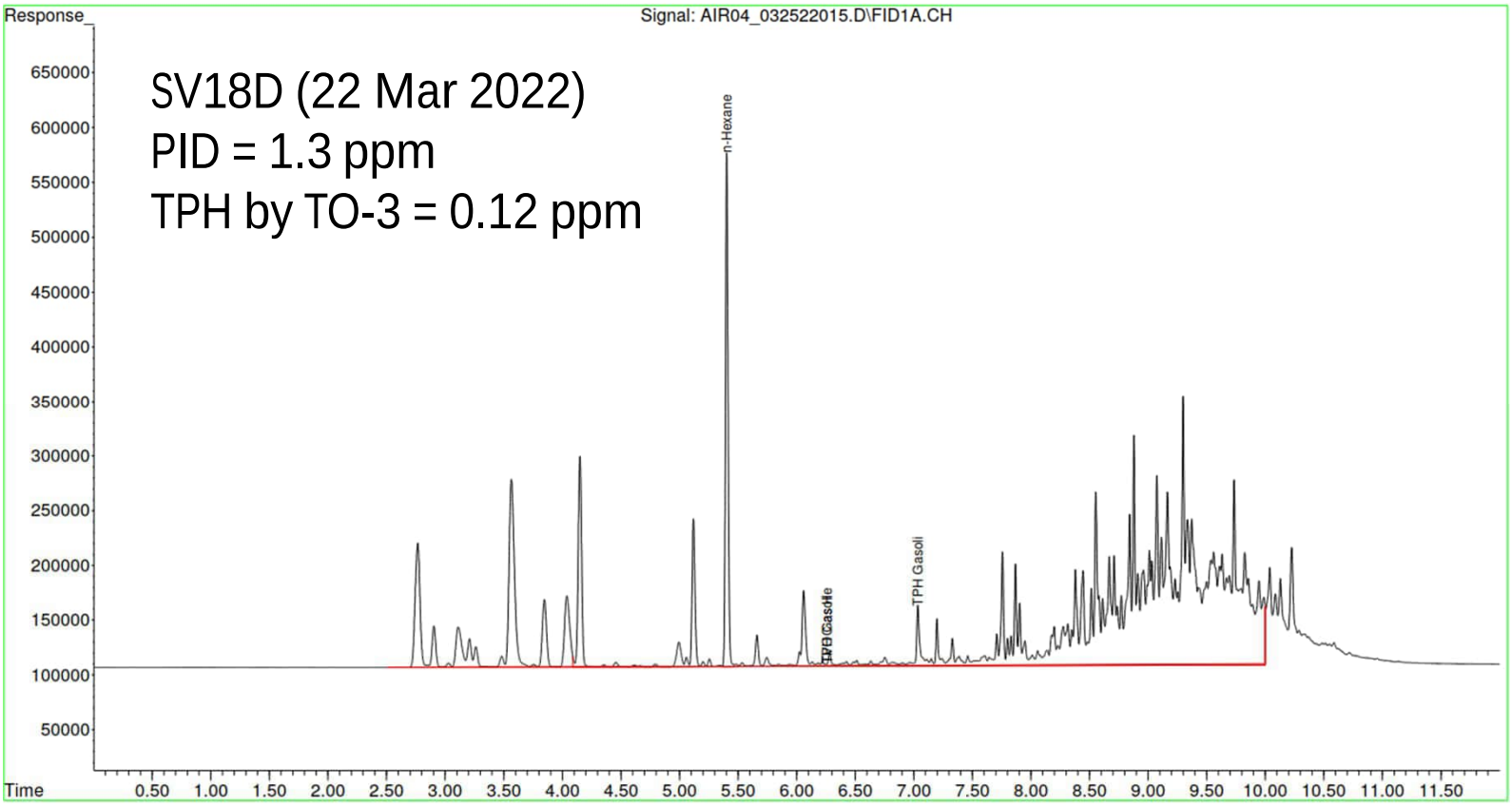

Response
Signal: AIR04_032522010.D\FID1A.CH
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
SV15S (22 Mar 2022)
PID = 0.12 ppm
TPH by TO-3 = 0.062 ppm

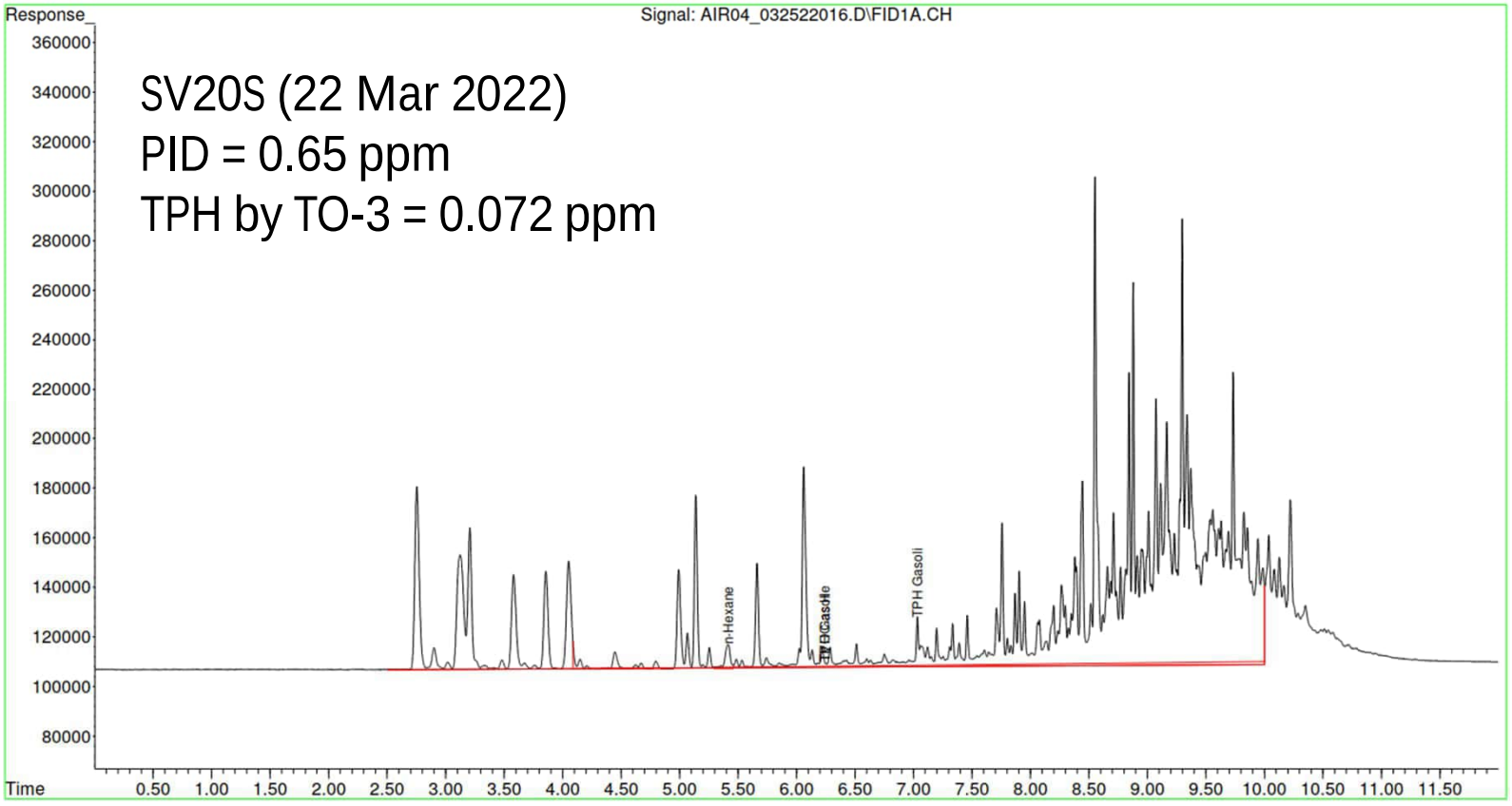

Response_
Signal: AIR04_032522011.D\FID1A.CH
SV15D (22 Mar 2022)
PID = 0.12 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoli
Time

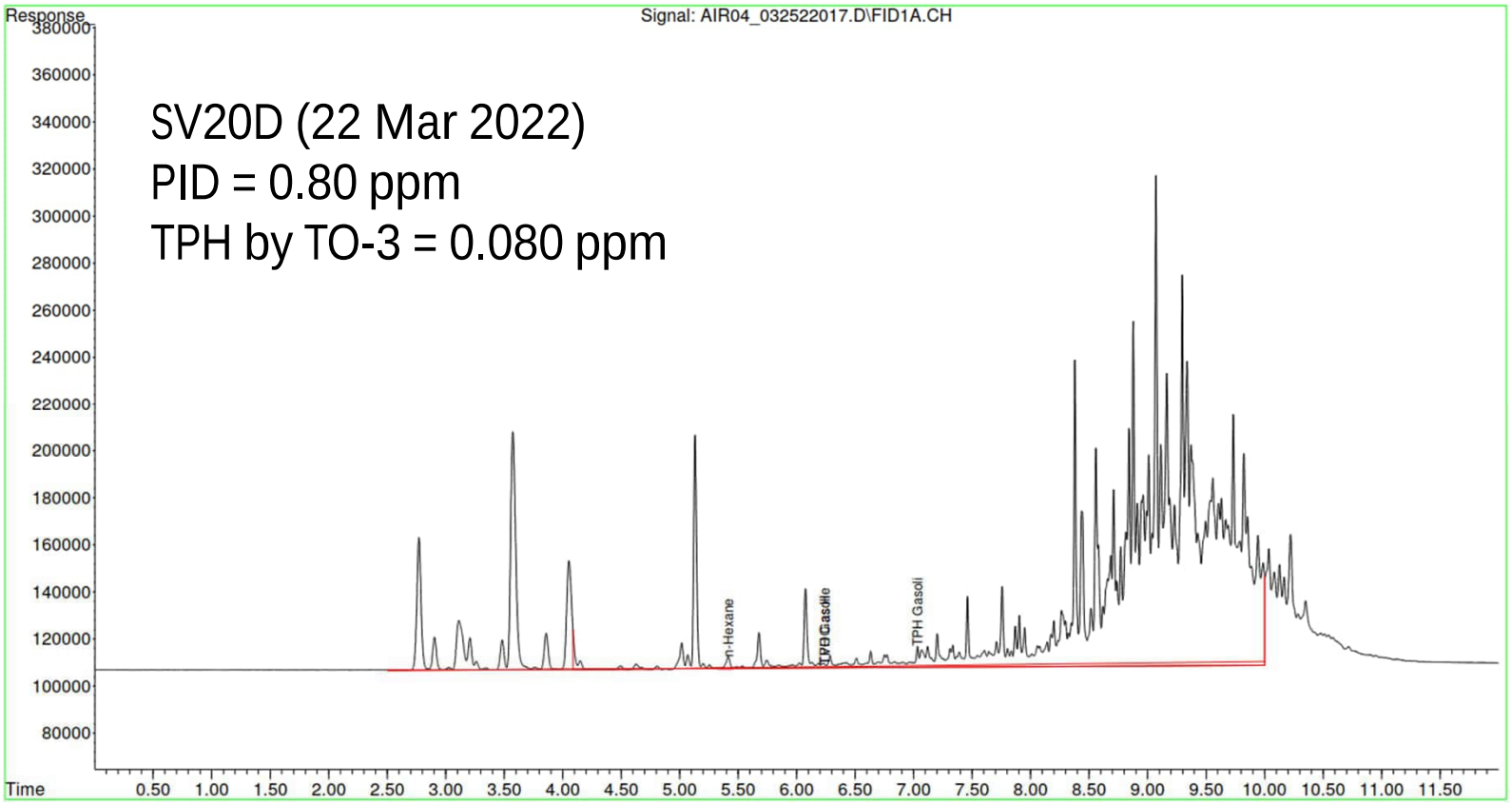

Response_
Signal: AIR04_032522012.D\FID1A.CH
SV17S (22 Mar 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.25 ppm
n-Hexane
TPH Gasoli
Time

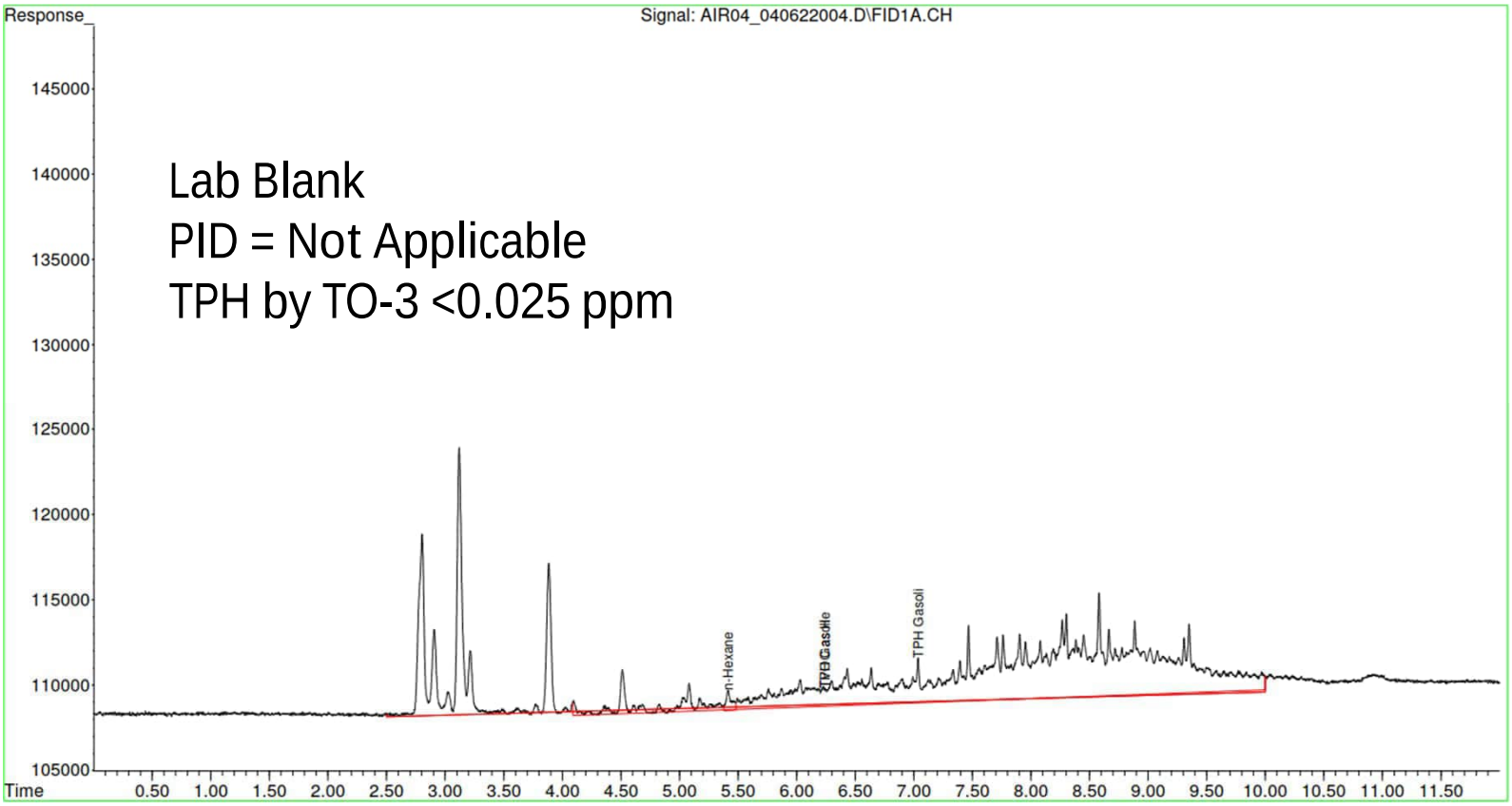

Response_
Signal: AIR04_032522013.D\FID1A.CH
SV17D (22 Mar 2022)
PID = 1.6 ppm
TPH by TO-3 = 0.13 ppm
n-Hexane
TPH Gasoli
Time

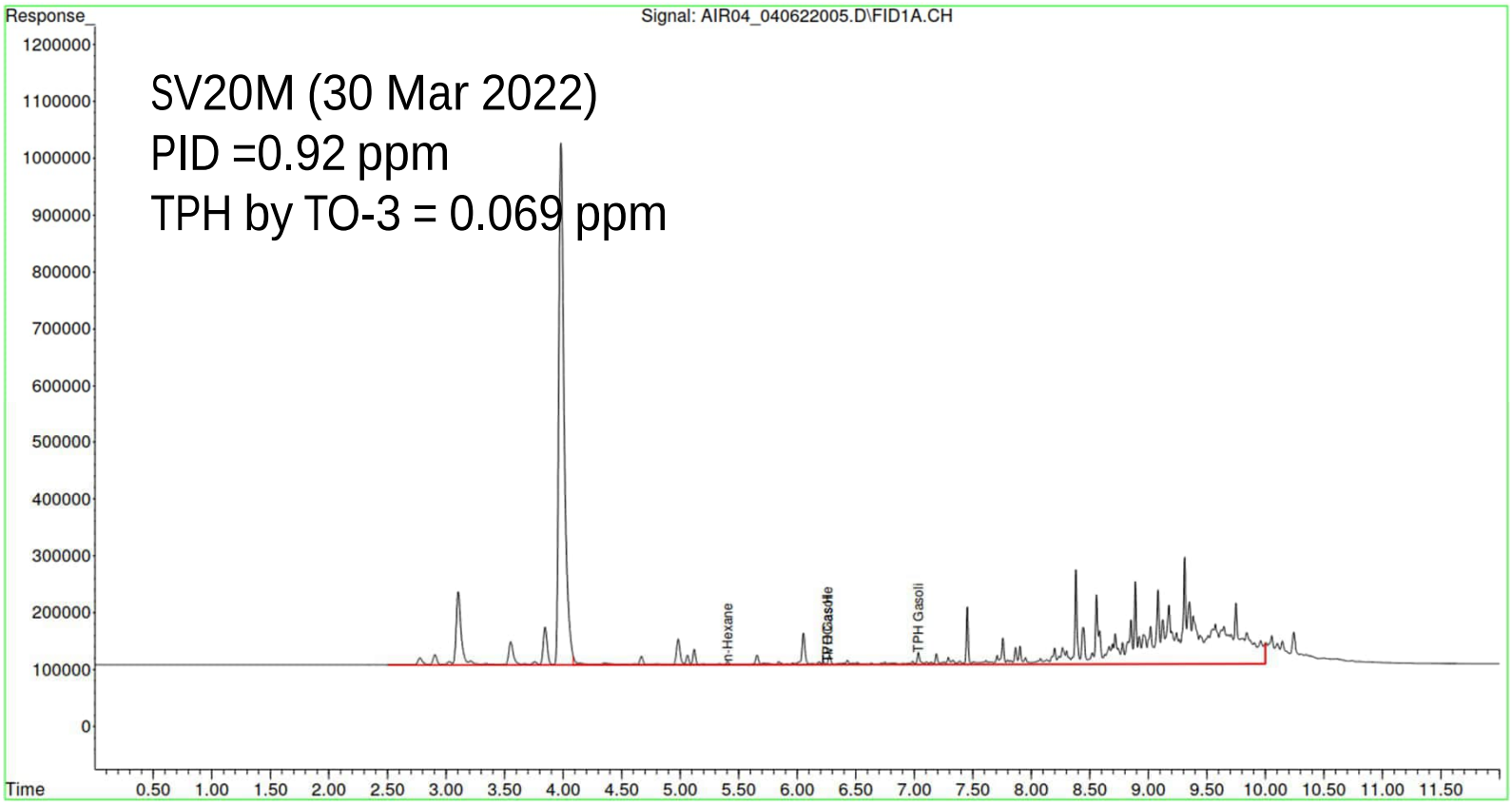

Response_
Signal: AIR04_032522014.D\FID1A.CH
SV18S (22 Mar 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.27 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: AIR04_032522015.D\FID1A.CH
SV18D (22 Mar 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_032522016.D\FID1A.CH
SV20S (22 Mar 2022)
PID = 0.65 ppm
TPH by TO-3 = 0.072 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

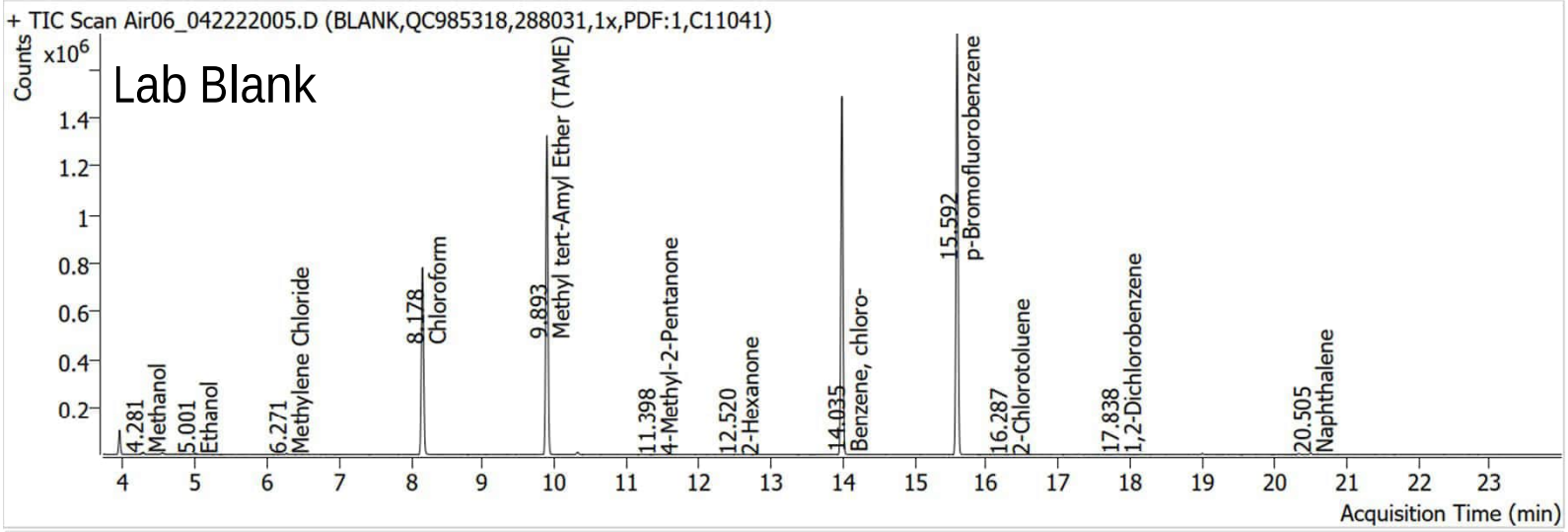

Response
Signal: AIR04_032522017.D\FID1A.CH
SV20D (22 Mar 2022)
PID = 0.80 ppm
TPH by TO-3 = 0.080 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

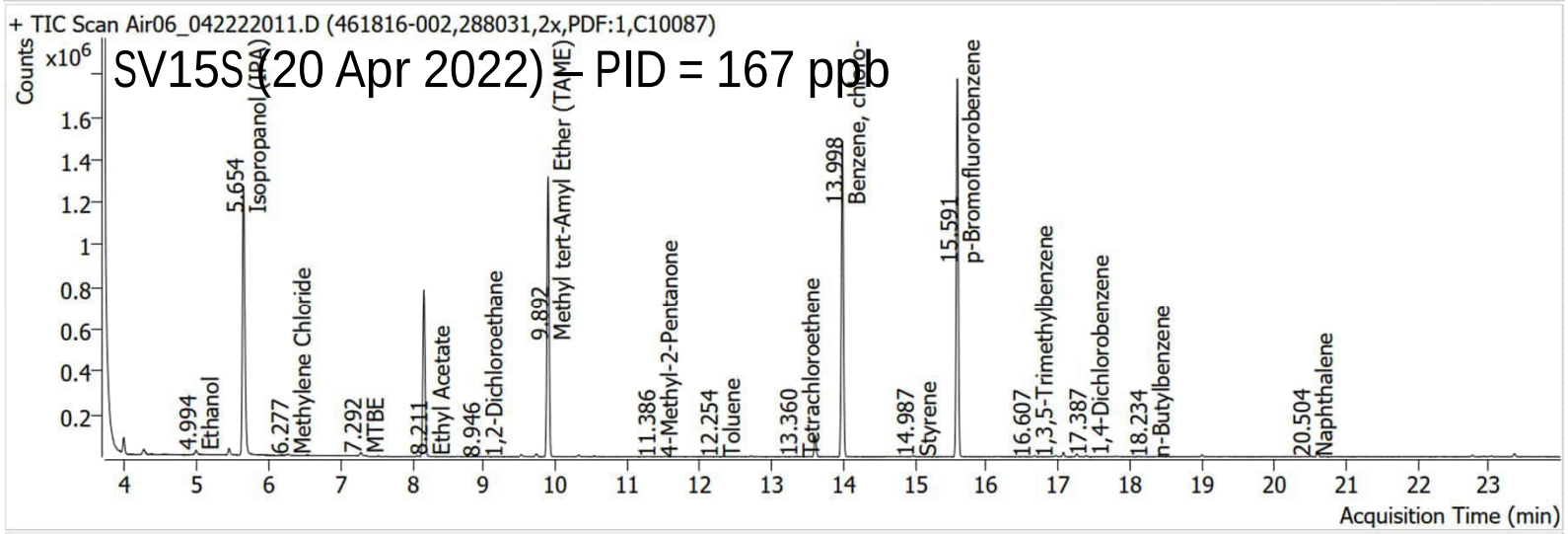

Response_
Signal: AIR04_040622004.D\FID1A.CH
145000
140000
135000
130000
125000
120000
115000
110000
105000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

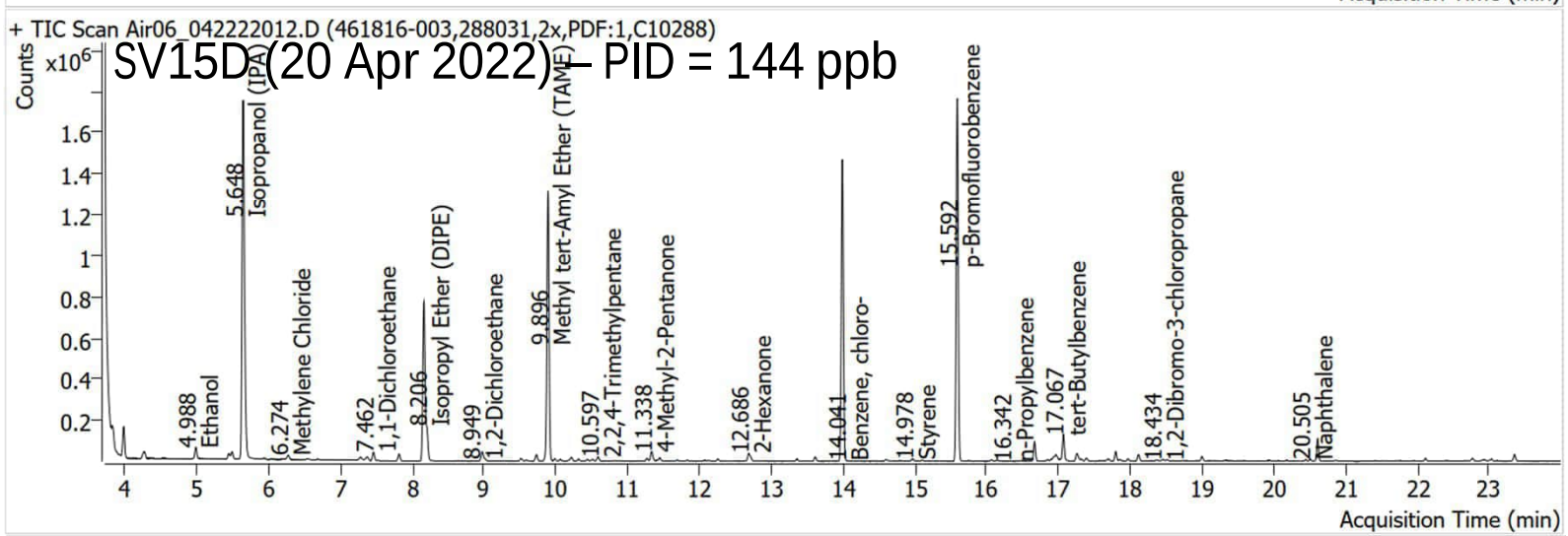

Response_
Signal: AIR04_040622005.D\FID1A.CH
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
n-Hexane
TPH Gasoli
SV20M (30 Mar 2022)
PID =0.92 ppm
TPH by TO-3 = 0.069 ppm

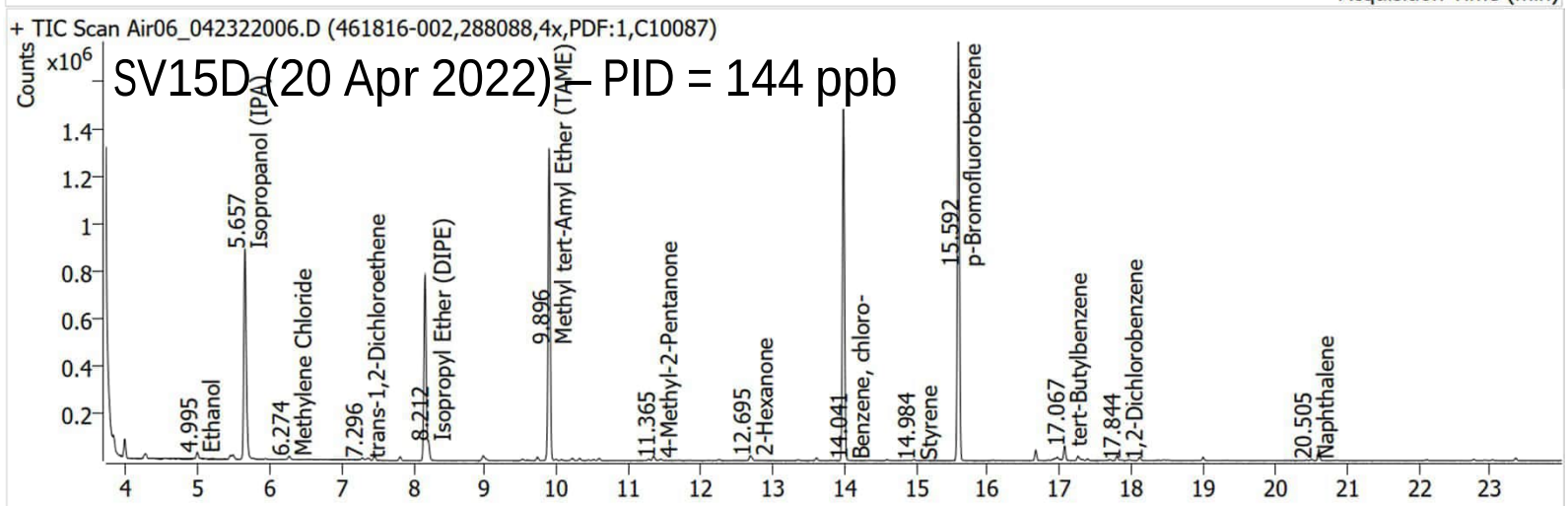
April 2022
Soil Vapor Samples

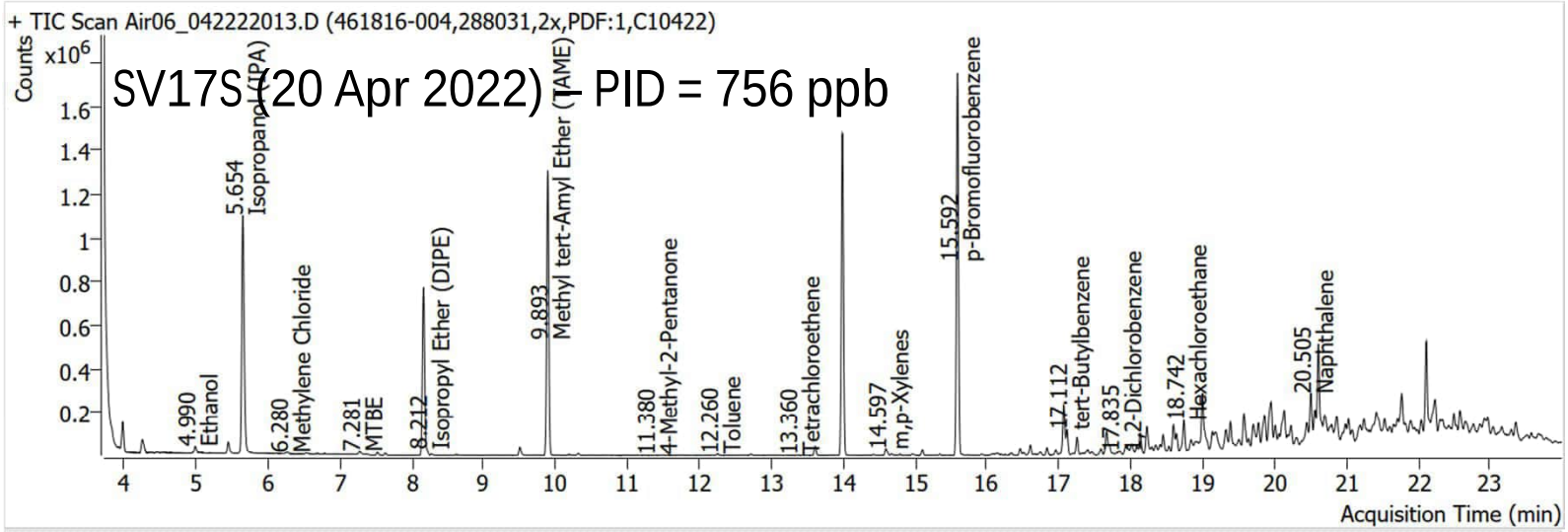
Mass Spec Chromatograms

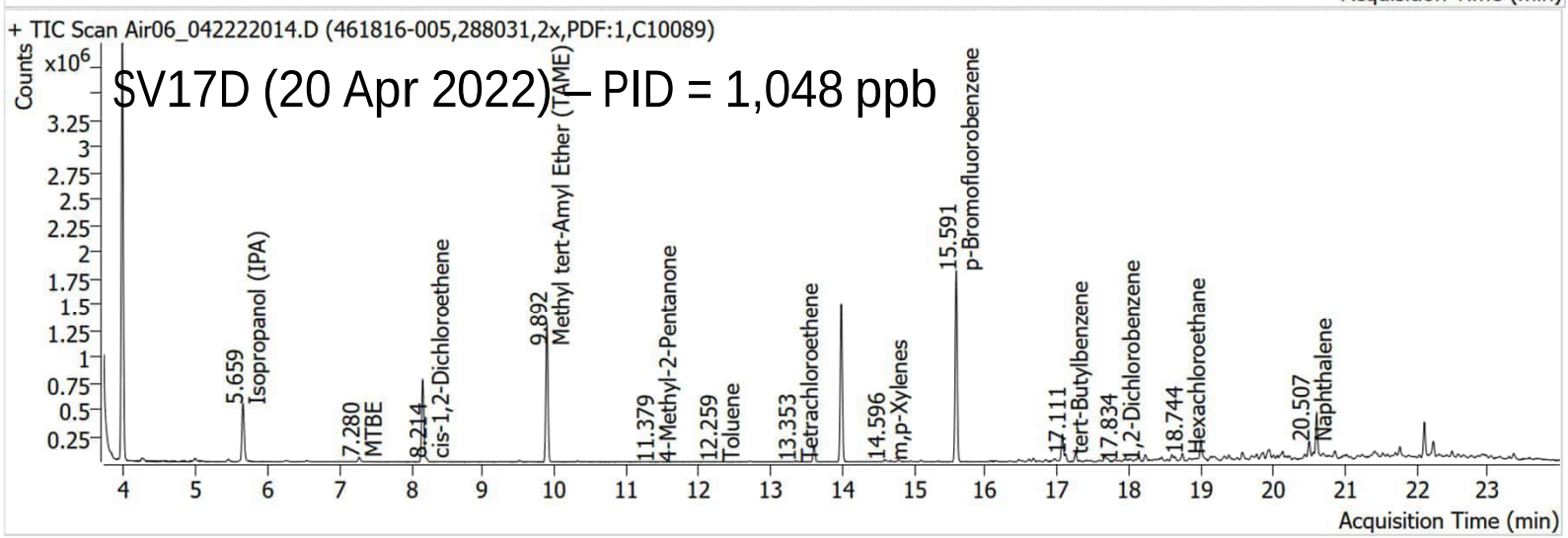

+ TIC Scan Air06_042222005.D (BLANK,QC985318,288031,1x,PDF:1,C11041)
Lab Blank
Counts
x10^6
4.281 Methanol
5.001 Ethanol
6.271 Methylene Chloride
8.178 Chloroform
9.893 Methyl tert-Amyl Ether (TAME)
11.398 4-Methyl-2-Pentanone
12.520 2-Hexanone
14.035 Benzene, chloro-
15.592 p-Bromofluorobenzene
16.287 2-Chlorotoluene
17.838 1,2-Dichlorobenzene
20.505 Naphthalene
Acquisition Time (min)

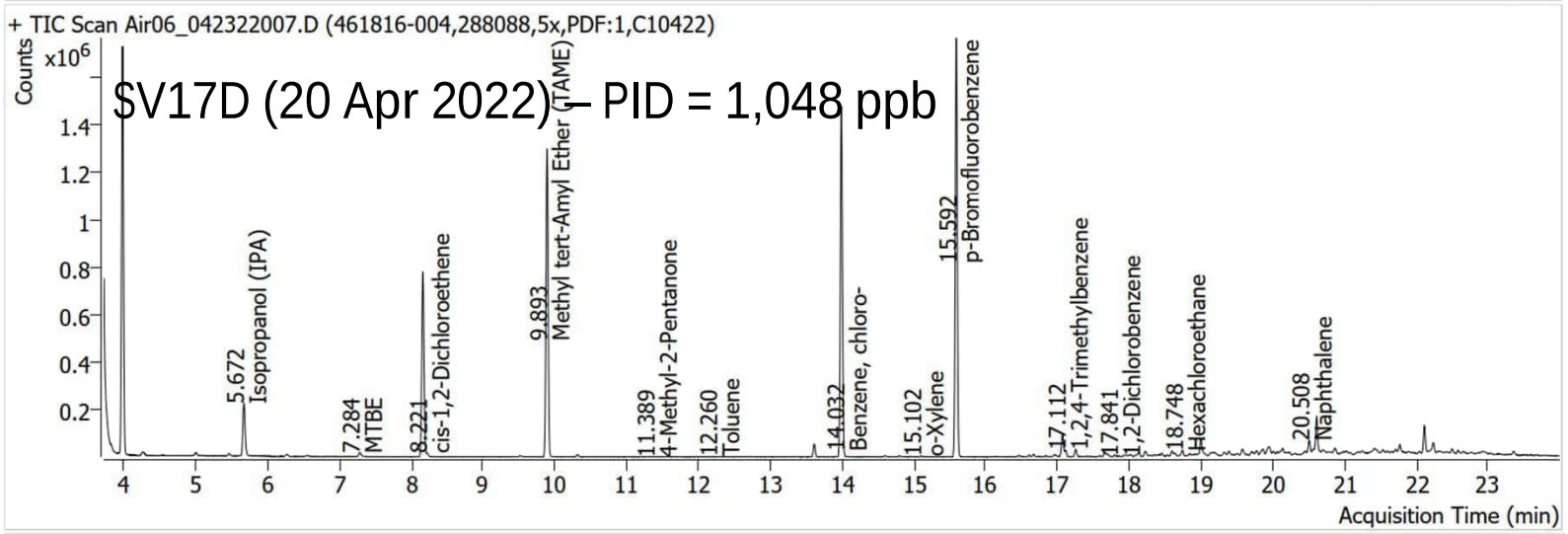

+ TIC Scan Air06_042222011.D (461816-002,288031,2x,PDF:1,C10087)
SV15S (20 Apr 2022) – PID = 167 ppb
Counts
x10^6
4.994 Ethanol
5.654 Isopropanol (IPA)
6.277 Methylene Chloride
7.292 MTBE
8.211 Ethyl Acetate
8.946 1,2-Dichloroethane
9.892 Methyl tert-Amyl Ether (TAME)
11.386 4-Methyl-2-Pentanone
12.254 Toluene
13.360 Tetrachloroethene
13.998 Benzene, chloro-
14.987 Styrene
15.591 p-Bromofluorobenzene
16.607 1,3,5-Trimethylbenzene
17.387 1,4-Dichlorobenzene
18.234 n-Butylbenzene
20.504 Naphthalene
Acquisition Time (min)

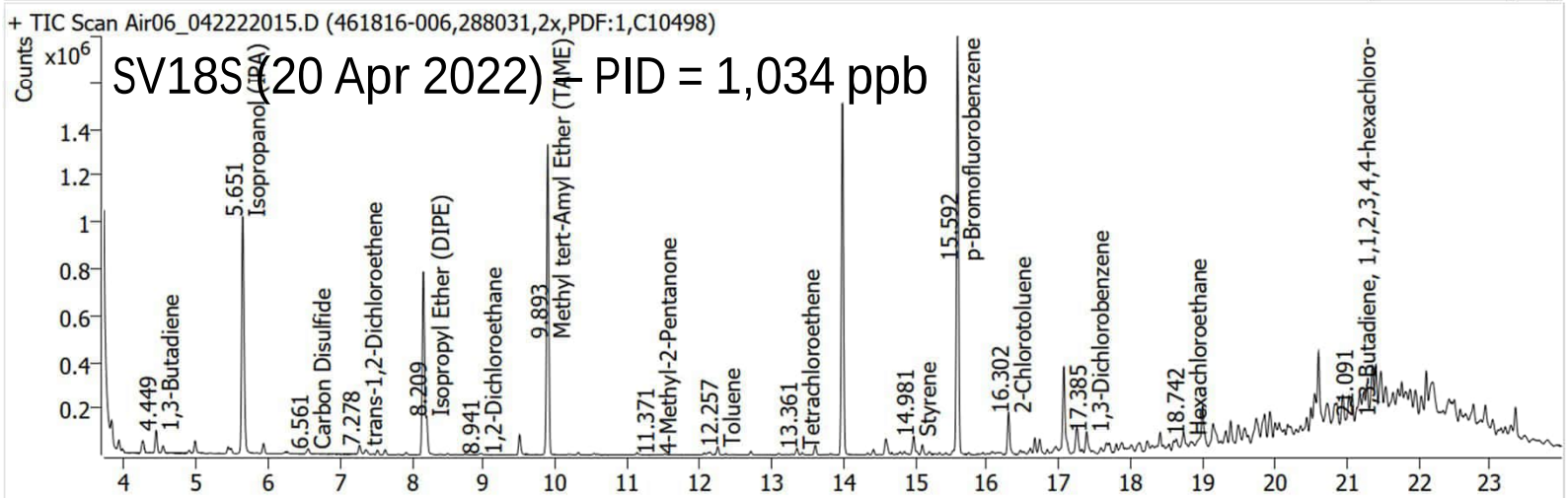

+ TIC Scan Air06_042222012.D (461816-003,288031,2x,PDF:1,C10288)
SV15D (20 Apr 2022) – PID = 144 ppb
Counts
x10^6
4.988 Ethanol
5.648 Isopropanol (IPA)
6.274 Methylene Chloride
7.462 1,1-Dichloroethane
8.206 Isopropyl Ether (DIPE)
8.949 1,2-Dichloroethane
9.896 Methyl tert-Amyl Ether (TAME)
10.597 2,2,4-Trimethylpentane
11.338 4-Methyl-2-Pentanone
12.686 2-Hexanone
14.041 Benzene, chloro-
14.978 Styrene
15.592 p-Bromofluorobenzene
16.342 n-Propylbenzene
17.067 tert-Butylbenzene
18.434 1,2-Dibromo-3-chloropropane
20.505 Naphthalene
Acquisition Time (min)

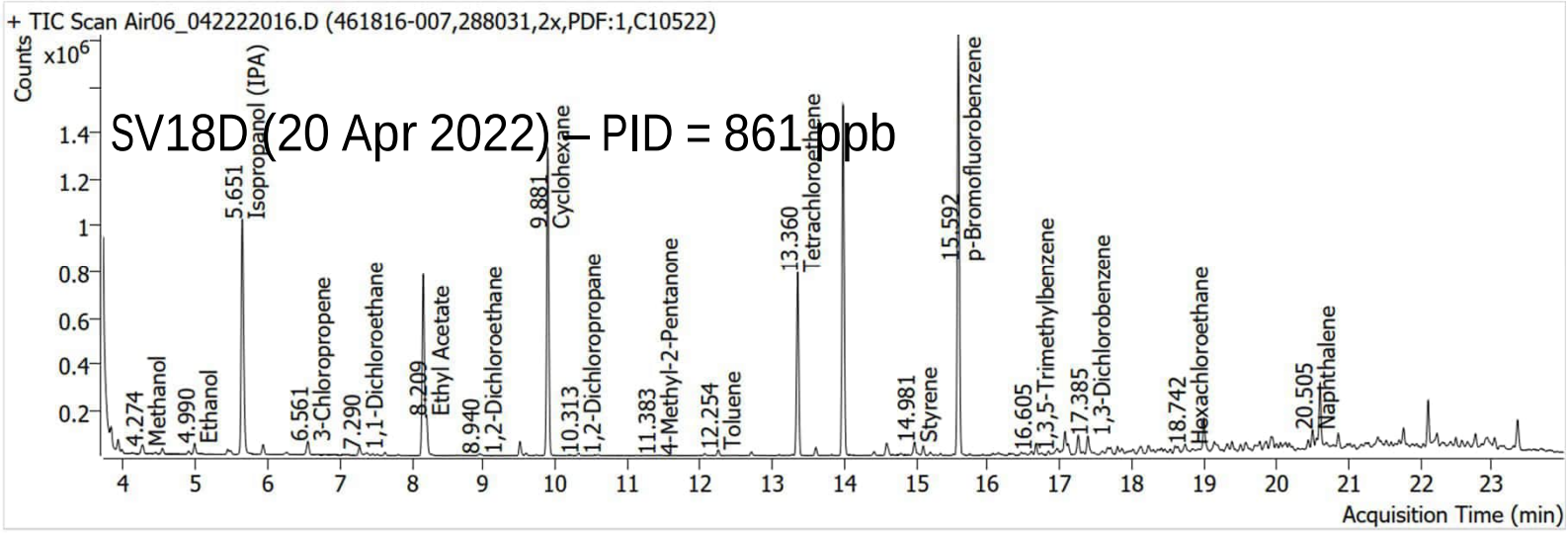

+ TIC Scan Air06_042322006.D (461816-002,288088,4x,PDF:1,C10087)
SV15D (20 Apr 2022) – PID = 144 ppb
Counts
x10^6
4.995 Ethanol
5.657 Isopropanol (IPA)
6.274 Methylene Chloride
7.296 trans-1,2-Dichloroethene
8.212 Isopropyl Ether (DIPE)
9.896 Methyl tert-Amyl Ether (TAME)
11.365 4-Methyl-2-Pentanone
12.695 2-Hexanone
14.041 Benzene, chloro-
14.984 Styrene
15.592 p-Bromofluorobenzene
17.067 tert-Butylbenzene
17.844 1,2-Dichlorobenzene
20.505 Naphthalene

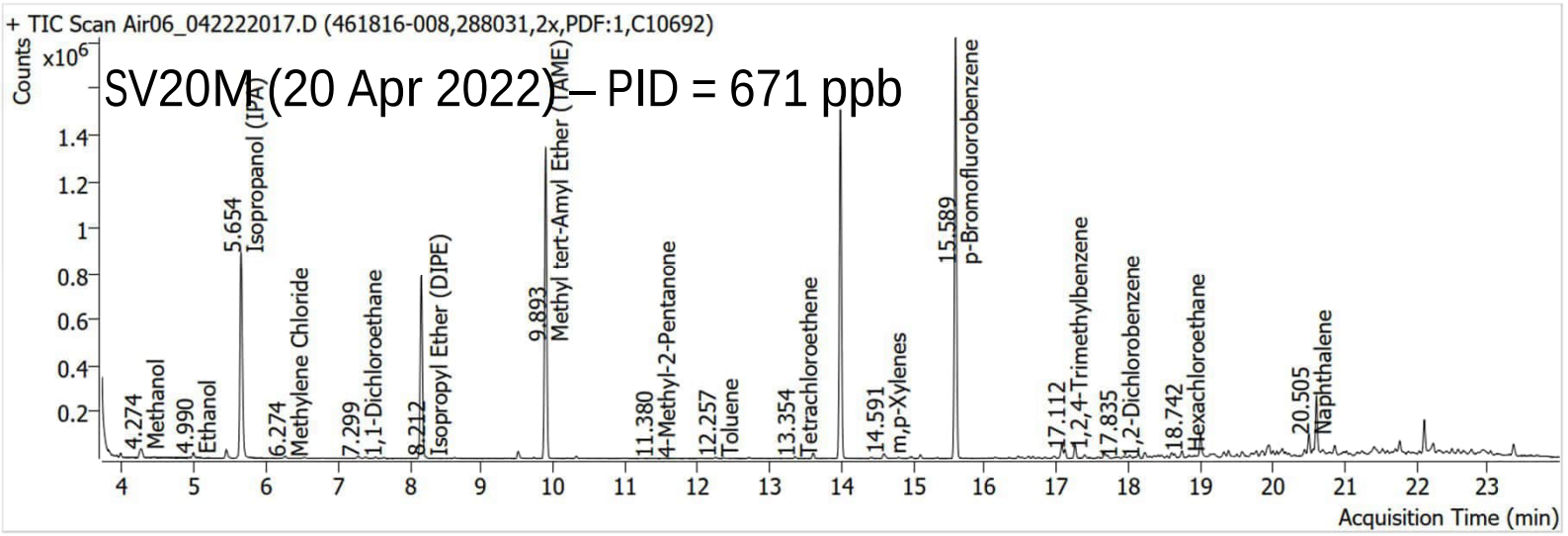

+ TIC Scan Air06_042222013.D (461816-004,288031,2x,PDF:1,C10422)
SV17S (20 Apr 2022) – PID = 756 ppb
Counts
x10^6
4.990 Ethanol
5.654 Isopropanol (IPA)
6.280 Methylene Chloride
7.281 MTBE
8.212 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.260 Toluene
13.360 Tetrachloroethene
14.597 m,p-Xylenes
15.592 p-Bromofluorobenzene
17.112 tert-Butylbenzene
17.835 1,2-Dichlorobenzene
18.742 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

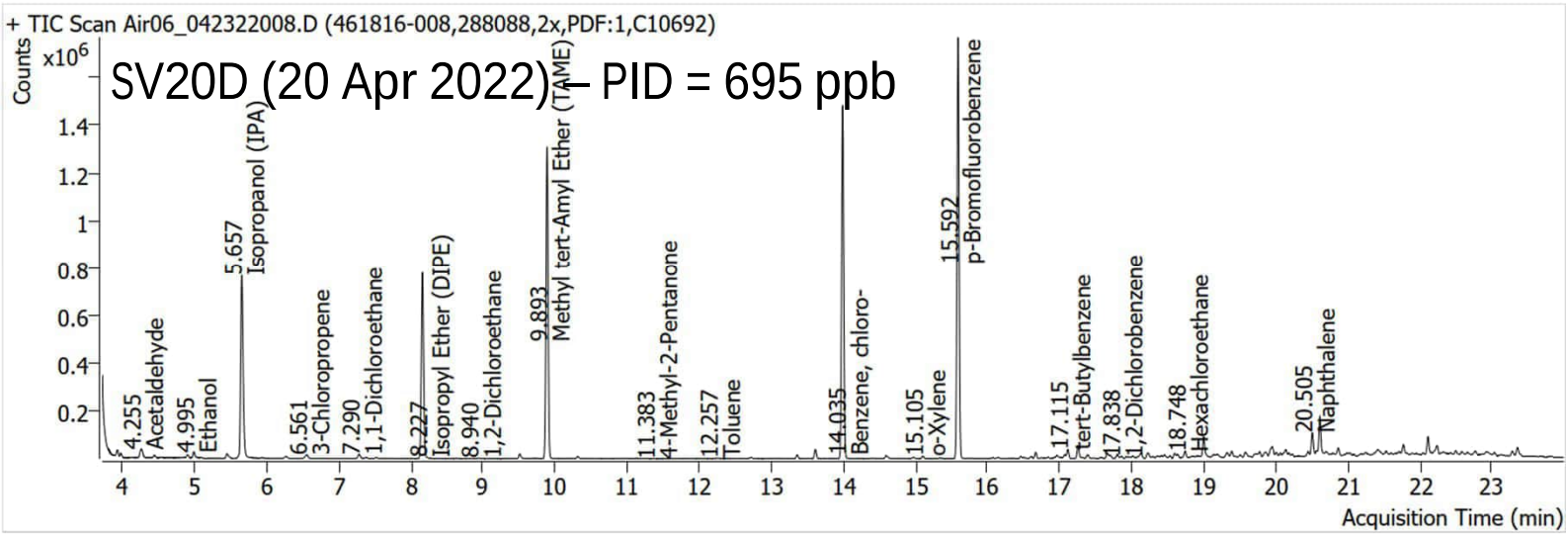

+ TIC Scan Air06_042222014.D (461816-005,288031,2x,PDF:1,C10089)
SV17D (20 Apr 2022) – PID = 1,048 ppb
Counts
x10^6
5.659 Isopropanol (IPA)
7.280 MTBE
8.214 cis-1,2-Dichloroethene
9.892 Methyl tert-Amyl Ether (TAME)
11.379 4-Methyl-2-Pentanone
12.259 Toluene
13.353 Tetrachloroethene
14.596 m,p-Xylenes
15.591 p-Bromofluorobenzene
17.111 tert-Butylbenzene
17.834 1,2-Dichlorobenzene
18.744 Hexachloroethane
20.507 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_042322007.D (461816-004,288088,5x,PDF:1,C10422)
SV17D (20 Apr 2022) – PID = 1,048 ppb
Counts
x10^6
5.672 Isopropanol (IPA)
7.284 MTBE
8.221 cis-1,2-Dichloroethene
9.893 Methyl tert-Amyl Ether (TAME)
11.389 4-Methyl-2-Pentanone
12.260 Toluene
14.032 Benzene, chloro-
15.102 o-Xylene
15.592 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.841 1,2-Dichlorobenzene
18.748 Hexachloroethane
20.508 Naphthalene
Acquisition Time (min)


+ TIC Scan Air06_042222015.D (461816-006,288031,2x,PDF:1,C10498)
SV18S (20 Apr 2022) – PID = 1,034 ppb
Counts
x10^6
4.449 1,3-Butadiene
5.651 Isopropanol (IPA)
6.561 Carbon Disulfide
7.278 trans-1,2-Dichloroethene
8.209 Isopropyl Ether (DIPE)
8.941 1,2-Dichloroethane
9.893 Methyl tert-Amyl Ether (TAME)
11.371 4-Methyl-2-Pentanone
12.257 Toluene
13.361 Tetrachloroethene
14.981 Styrene
15.592 p-Bromofluorobenzene
16.302 2-Chlorotoluene
17.385 1,3-Dichlorobenzene
18.742 Hexachloroethane
21.091 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

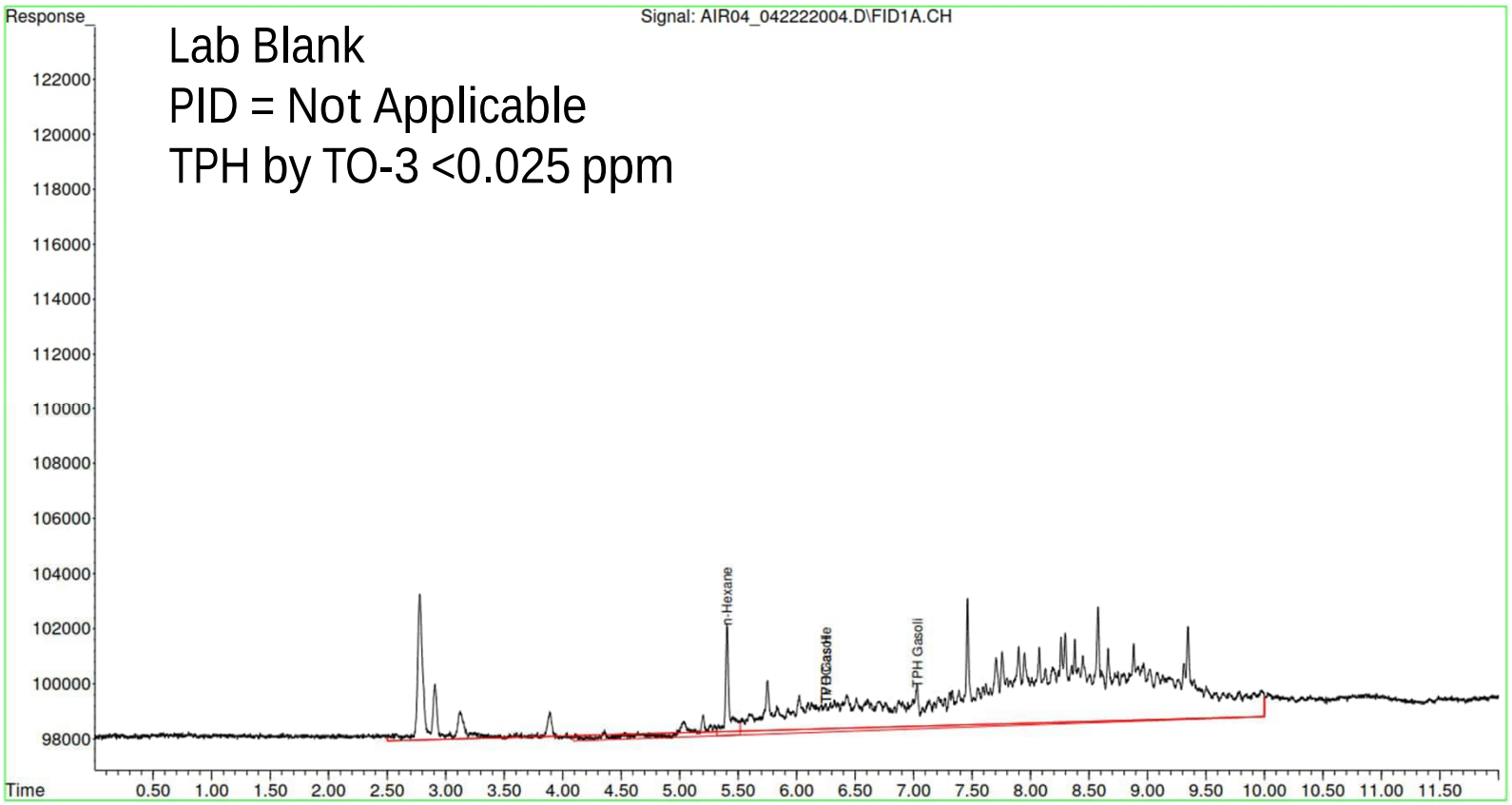

+ TIC Scan Air06_042222016.D (461816-007,288031,2x,PDF:1,C10522)
SV18D (20 Apr 2022) – PID = 861 ppb
Counts
x10^6
4.274 Methanol
4.990 Ethanol
5.651 Isopropanol (IPA)
6.561 3-Chloropropene
7.290 1,1-Dichloroethane
8.209 Ethyl Acetate
8.940 1,2-Dichloroethane
9.881 Cyclohexane
10.313 1,2-Dichloropropane
11.383 4-Methyl-2-Pentanone
12.254 Toluene
13.360 Tetrachloroethene
14.981 Styrene
15.592 p-Bromofluorobenzene
16.605 1,3,5-Trimethylbenzene
17.385 1,3-Dichlorobenzene
18.742 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

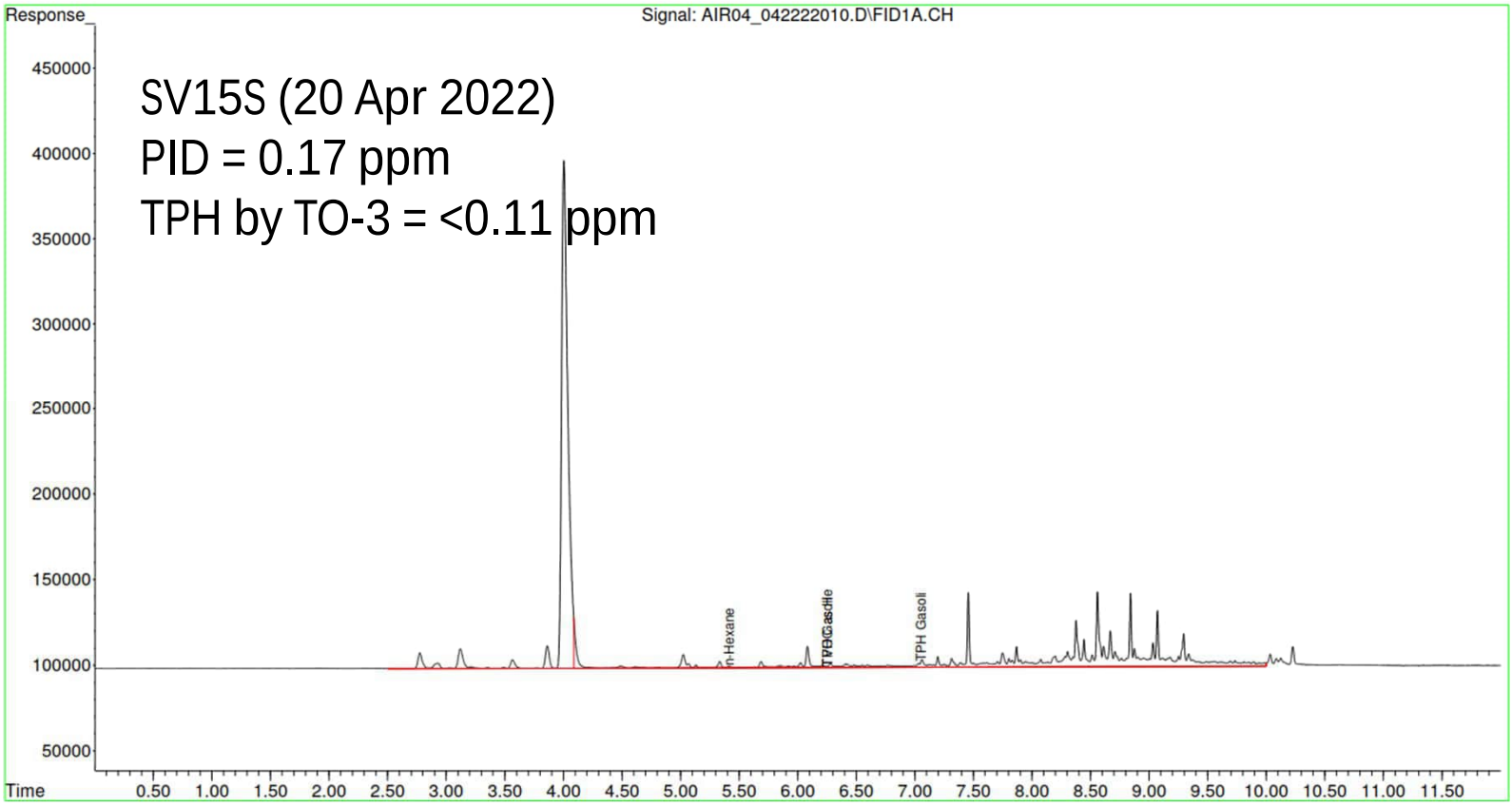

+ TIC Scan Air06_042222017.D (461816-008,288031,2x,PDF:1,C10692)
SV20M (20 Apr 2022) – PID = 671 ppb
Counts
x10^6
4.274 Methanol
4.990 Ethanol
5.654 Isopropanol (IPA)
6.274 Methylene Chloride
7.299 1,1-Dichloroethane
8.212 Isopropyl Ether (DIPE)
9.893 Methyl tert-Amyl Ether (TAME)
11.380 4-Methyl-2-Pentanone
12.257 Toluene
13.354 Tetrachloroethene
14.591 m,p-Xylenes
15.589 p-Bromofluorobenzene
17.112 1,2,4-Trimethylbenzene
17.835 1,2-Dichlorobenzene
18.742 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

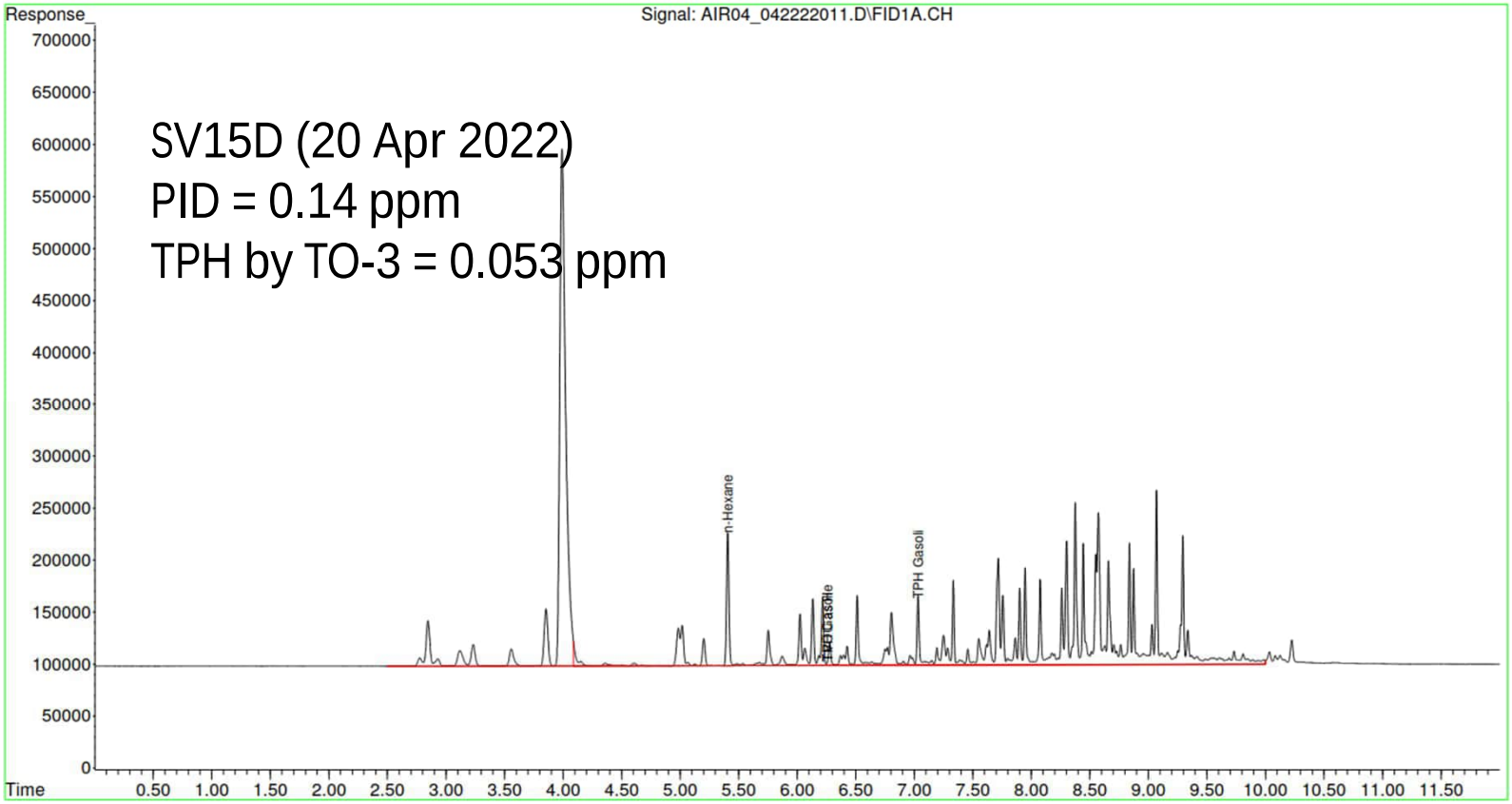

+ TIC Scan Air06_042322008.D (461816-008,288088,2x,PDF:1,C10692)
SV20D (20 Apr 2022) – PID = 695 ppb
Counts
x10^6
4.255 Acetaldehyde
4.995 Ethanol
5.657 Isopropanol (IPA)
6.561 3-Chloropropene
7.290 1,1-Dichloroethane
8.227 Isopropyl Ether (DIPE)
8.940 1,2-Dichloroethane
9.893 Methyl tert-Amyl Ether (TAME)
11.383 4-Methyl-2-Pentanone
12.257 Toluene
14.035 Benzene, chloro-
15.105 o-Xylene
15.592 p-Bromofluorobenzene
17.115 tert-Butylbenzene
17.838 1,2-Dichlorobenzene
18.748 Hexachloroethane
20.505 Naphthalene
Acquisition Time (min)

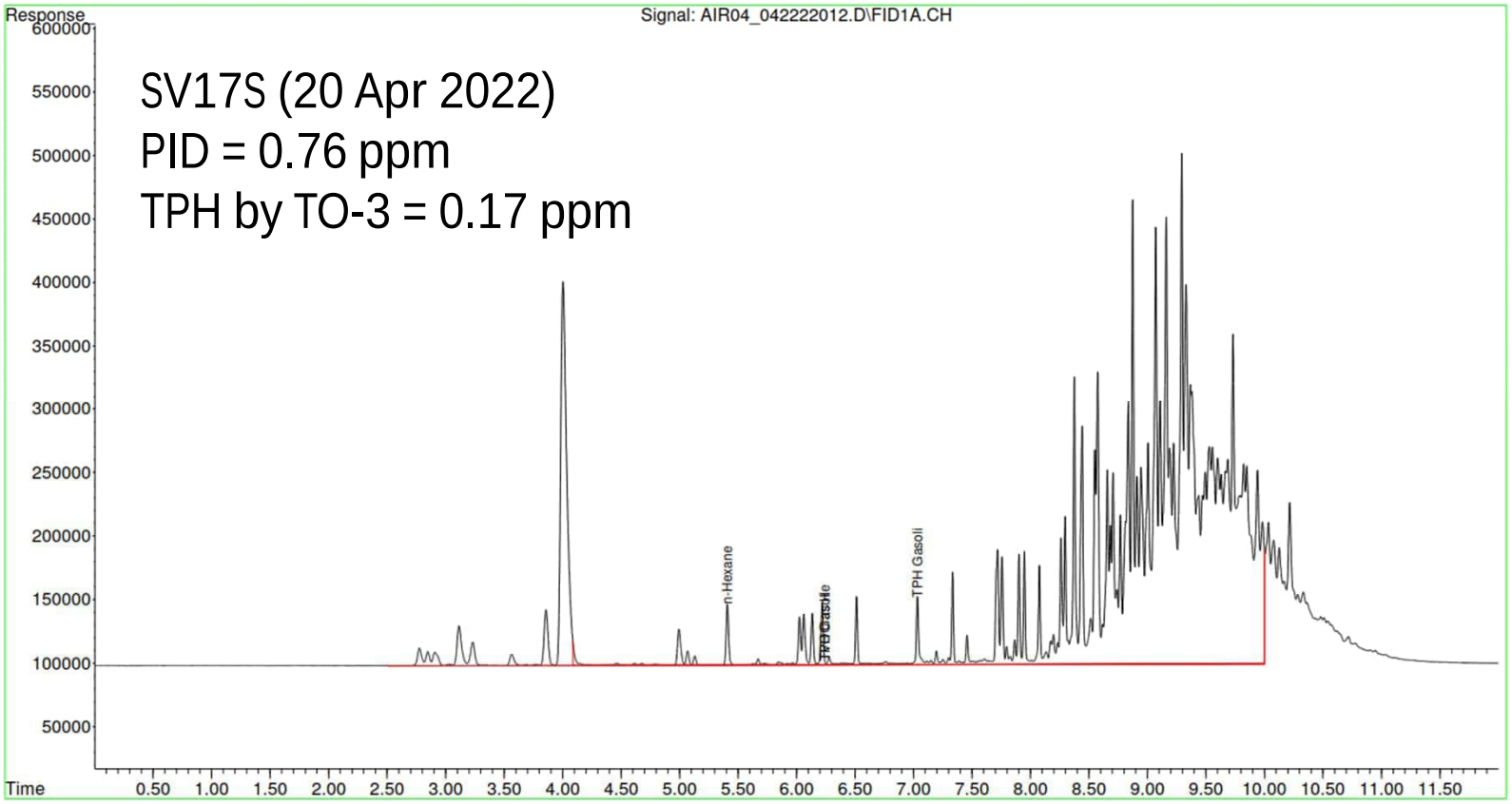
April 2022
Soil Vapor Samples

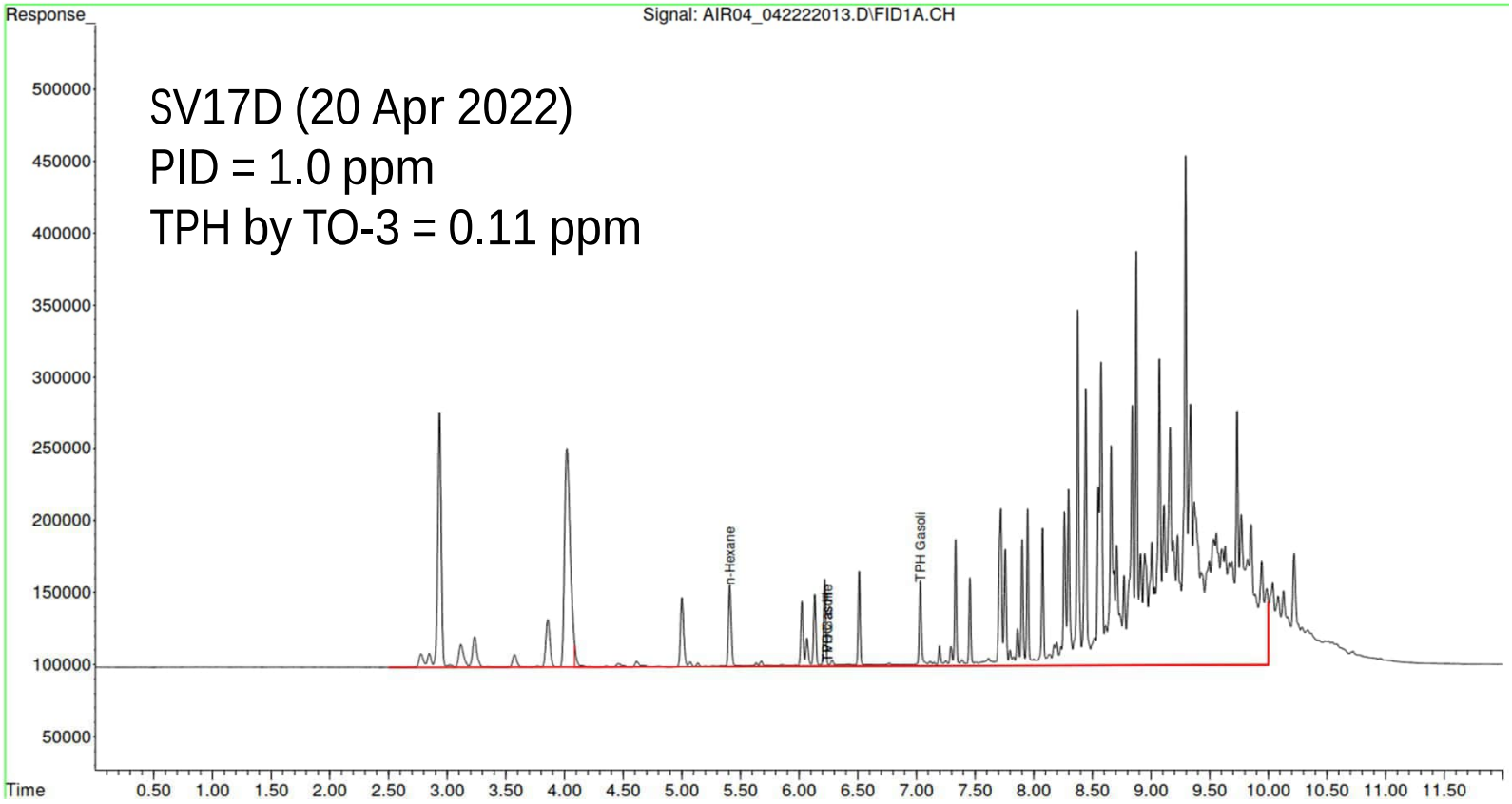
FID Chromatograms

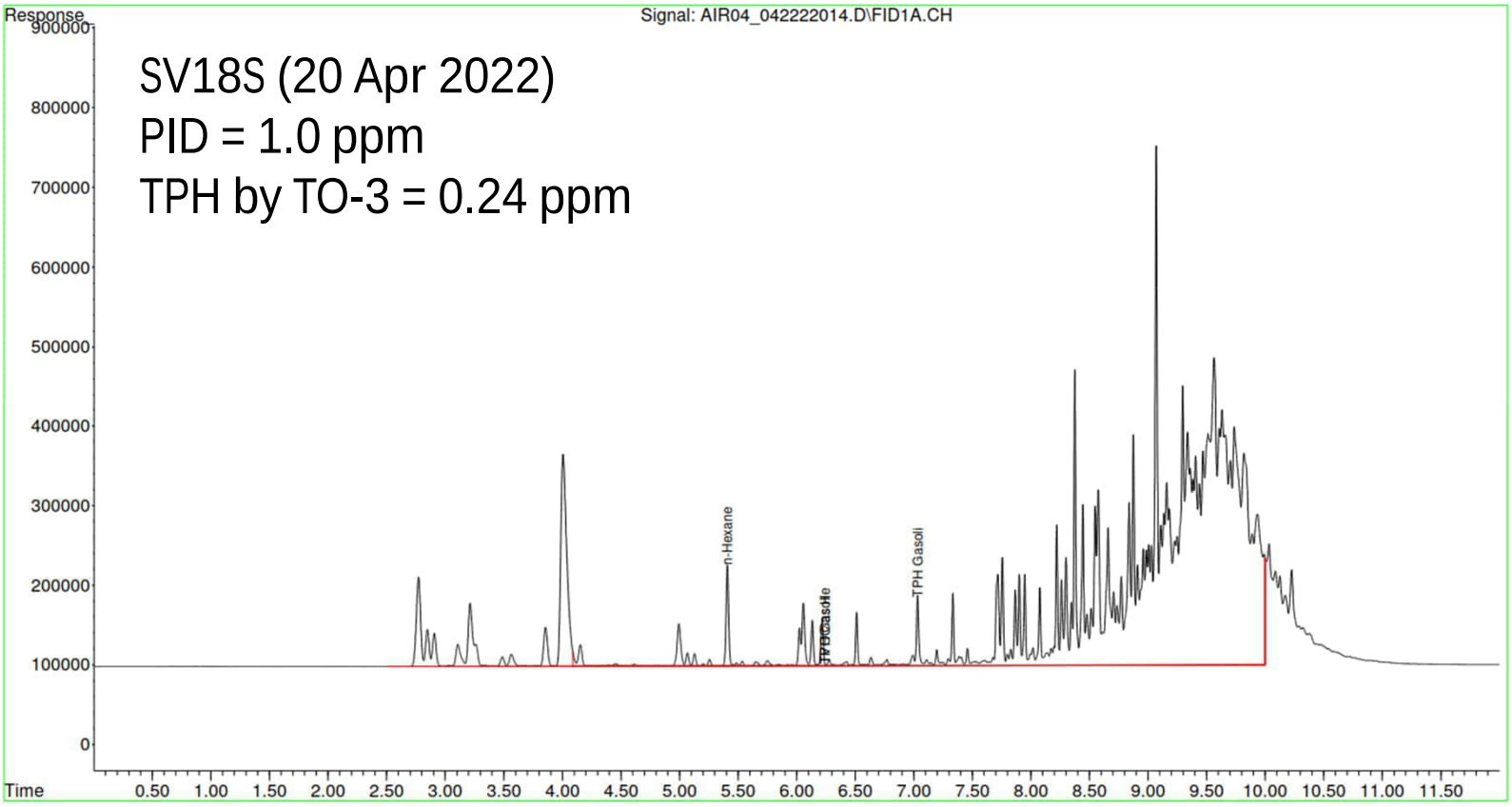

Response_
Signal: AIR04_042222004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
122000
120000
118000
116000
114000
112000
110000
108000
106000
104000
102000
100000
98000
n-Hexane
TPH Gasoli
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

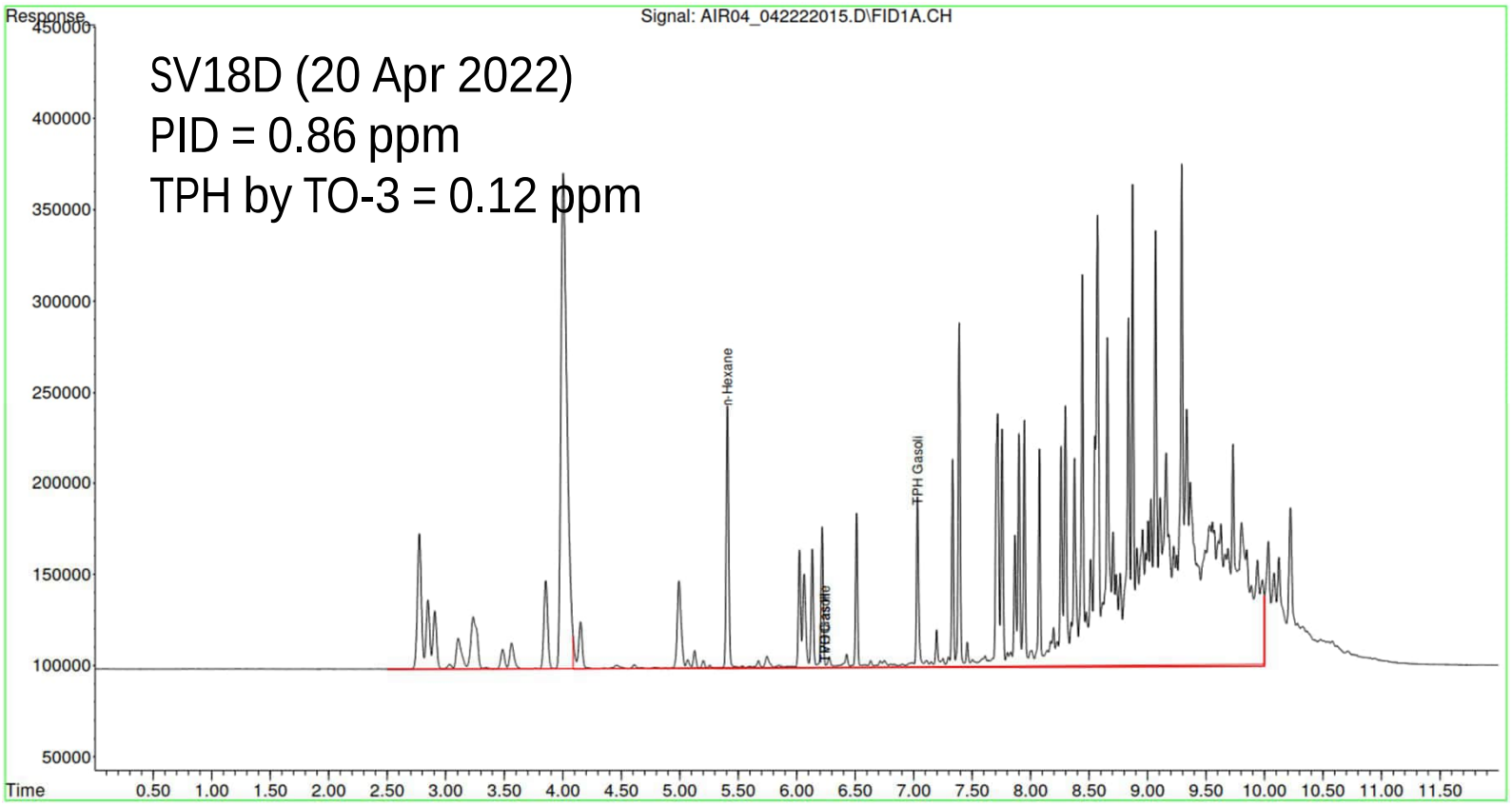

Response_
Signal: AIR04_042222010.D\FID1A.CH
SV15S (20 Apr 2022)
PID = 0.17 ppm
TPH by TO-3 = <0.11 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
n-Hexane
TPH Gasoli
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

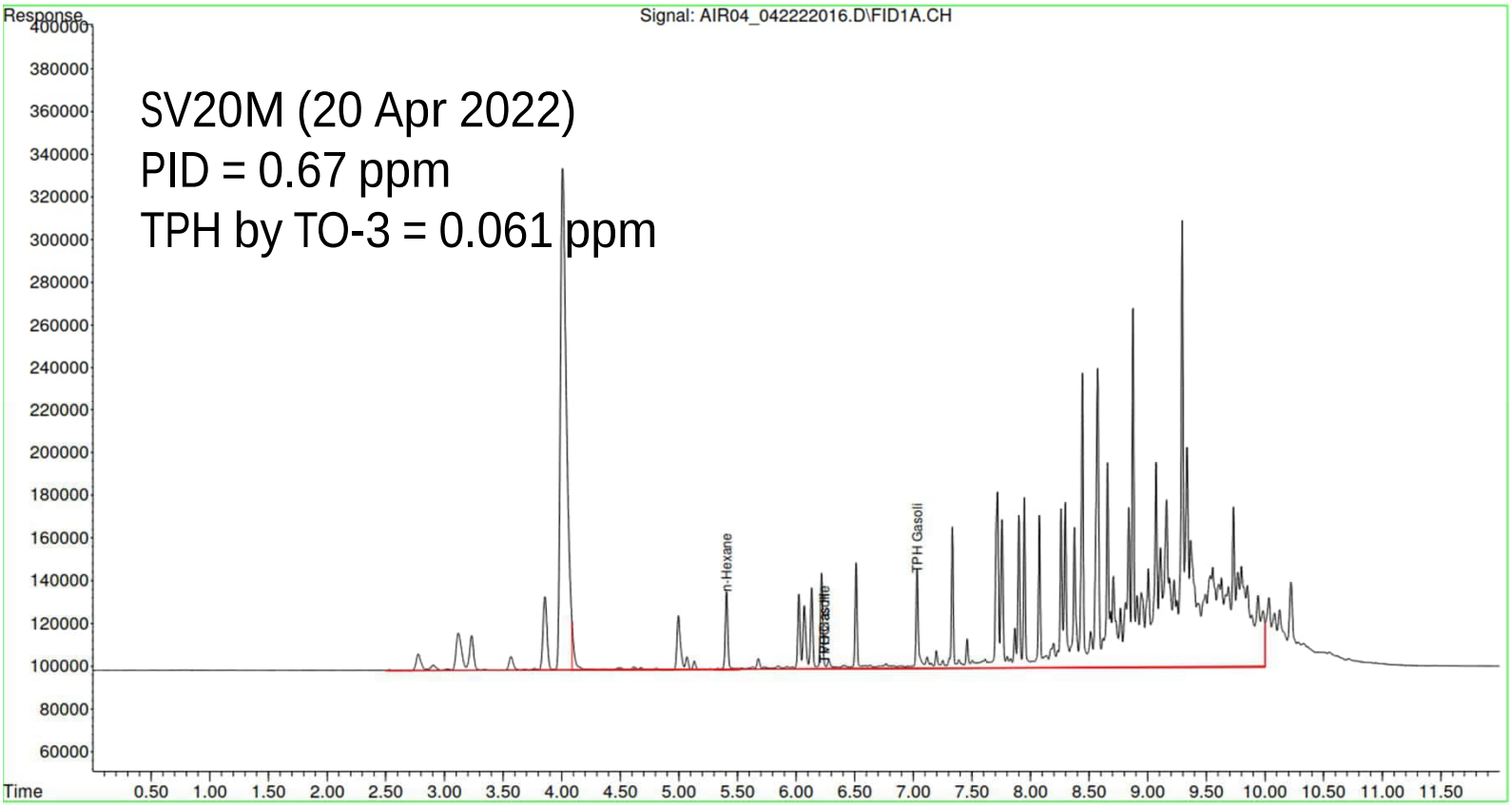

Response_
Signal: AIR04_042222011.D\FID1A.CH
SV15D (20 Apr 2022)
PID = 0.14 ppm
TPH by TO-3 = 0.053 ppm
n-Hexane
TPH Gasoli
Time

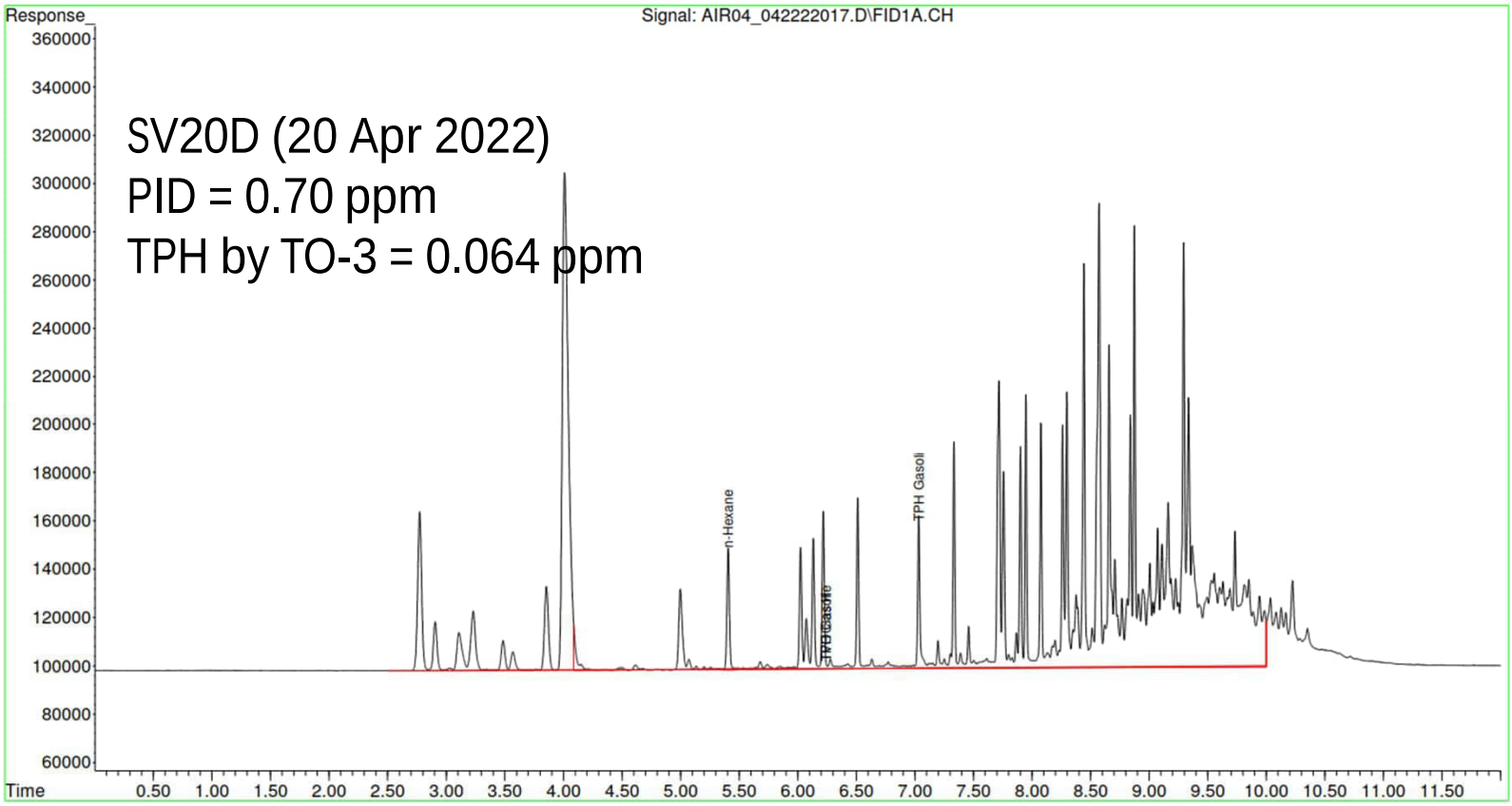

Response
Signal: AIR04_042222012.D\FID1A.CH
SV17S (20 Apr 2022)
PID = 0.76 ppm
TPH by TO-3 = 0.17 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: AIR04_042222013.D\FID1A.CH
SV17D (20 Apr 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
TPH Gasoil
Time


Response_
Signal: AIR04_042222014.D\FID1A.CH
SV18S (20 Apr 2022)
PID = 1.0 ppm
TPH by TO-3 = 0.24 ppm
n-Hexane
TPH Gasoil
Time

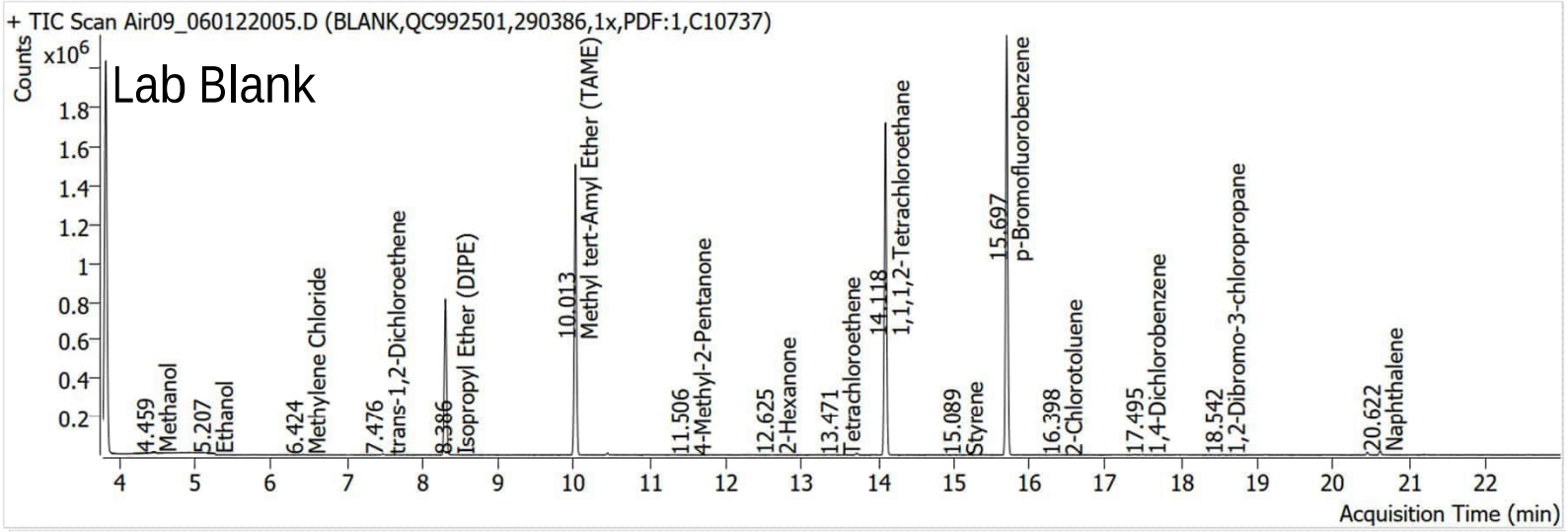

Response
Signal: AIR04_042222015.D\FID1A.CH
SV18D (20 Apr 2022)
PID = 0.86 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoline
TPH Gasoli
Time

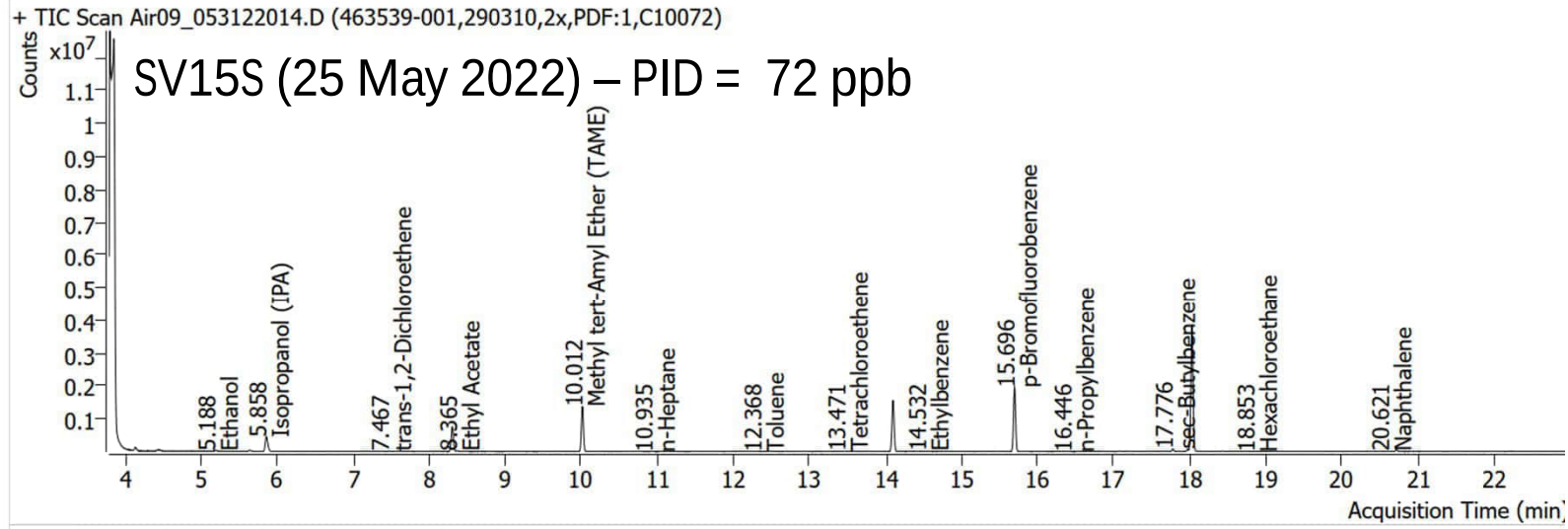

Response
Signal: AIR04_042222016.D\FID1A.CH
SV20M (20 Apr 2022)
PID = 0.67 ppm
TPH by TO-3 = 0.061 ppm
n-Hexane
TPH Gasoline
TPH Gasoli
Time

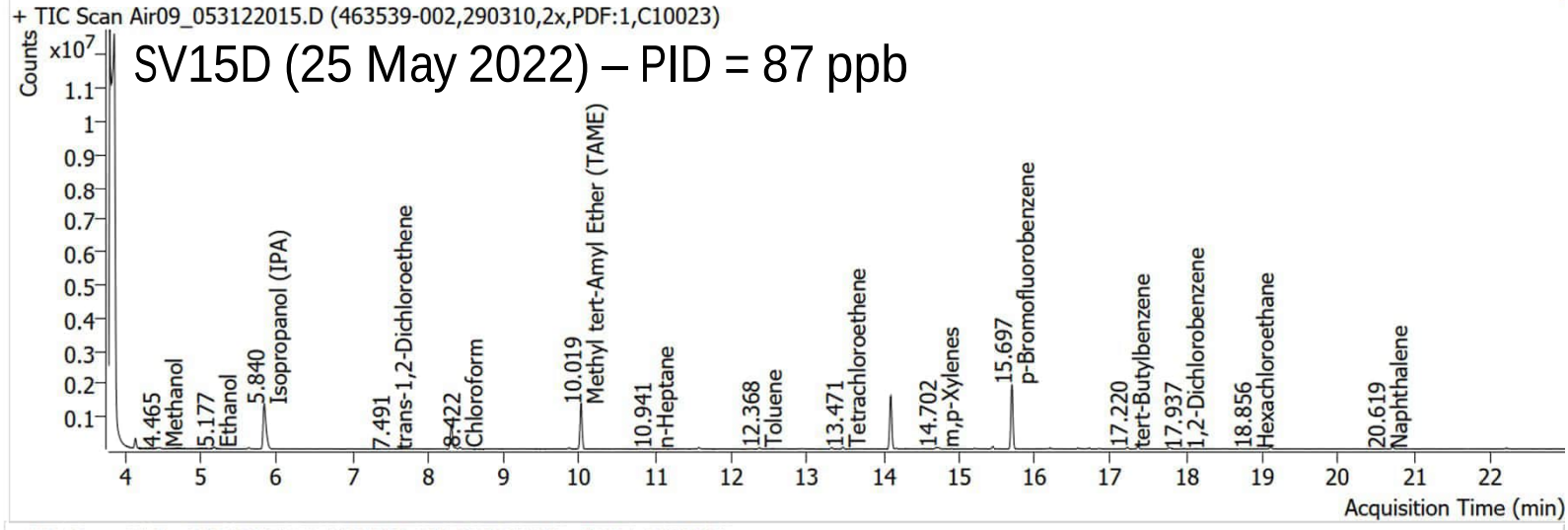

Response_
Signal: AIR04_042222017.D\FID1A.CH
SV20D (20 Apr 2022)
PID = 0.70 ppm
TPH by TO-3 = 0.064 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

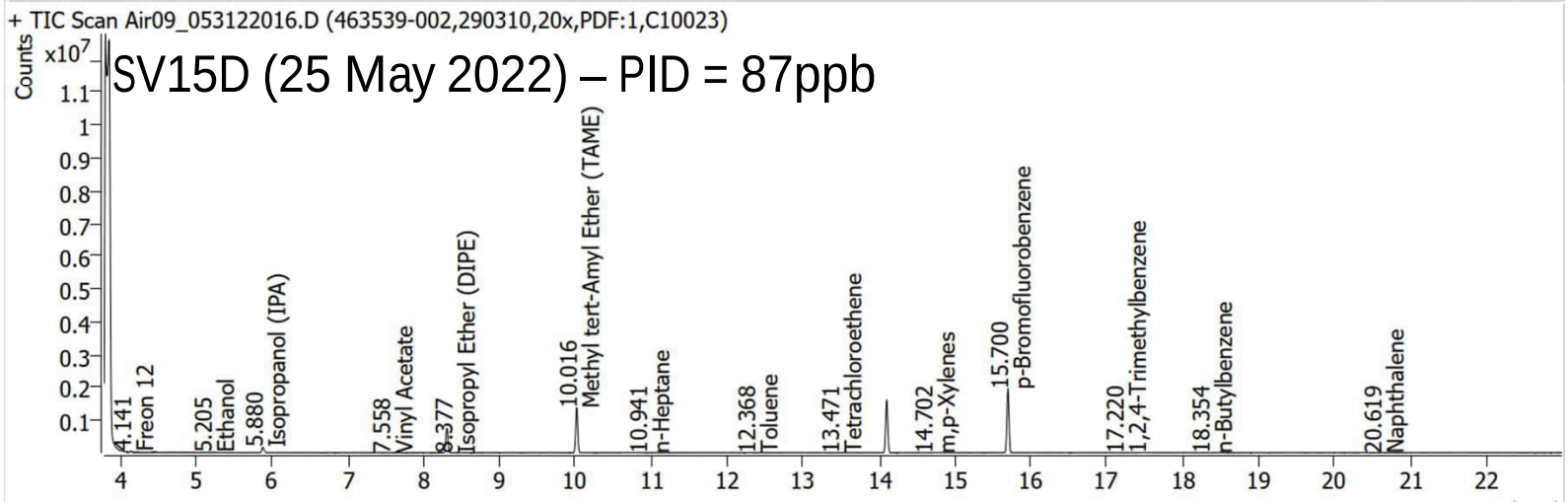
May 2022
Soil Vapor Samples

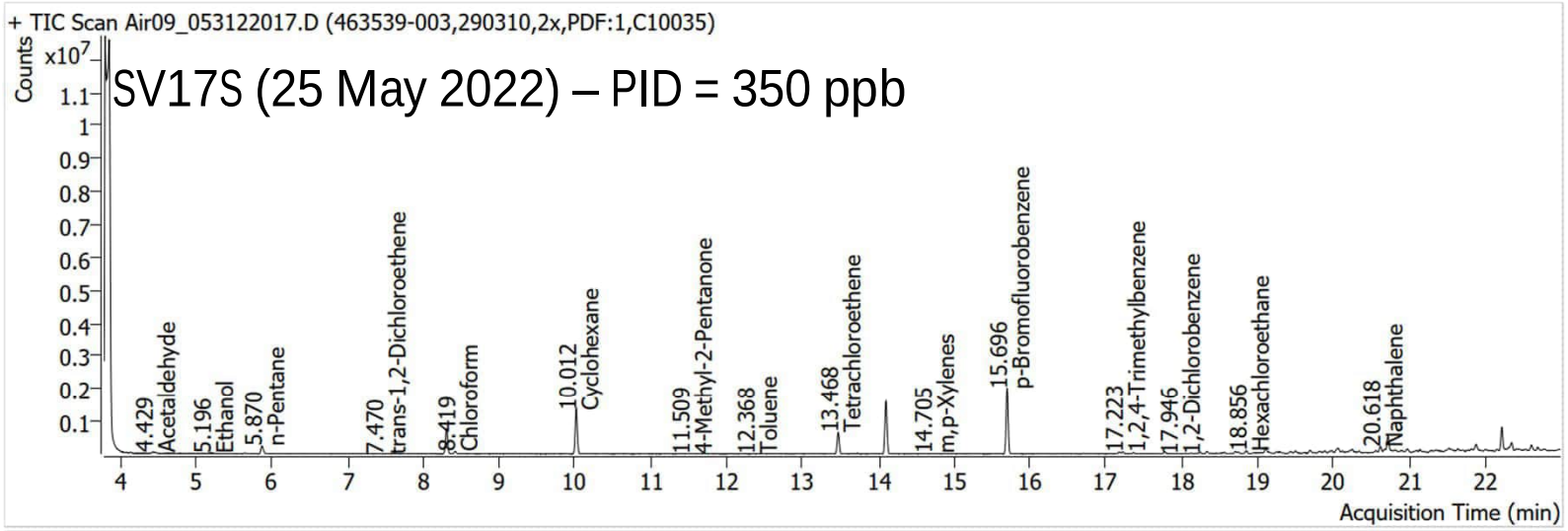
Mass Spec Chromatograms

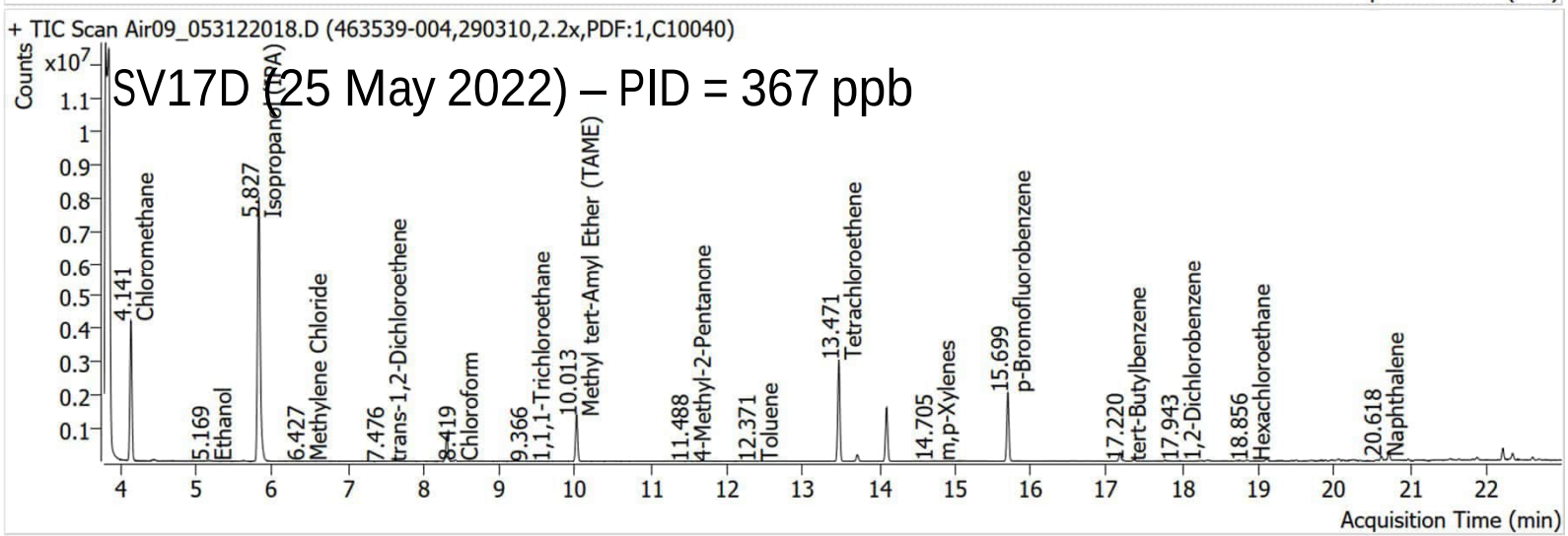

+ TIC Scan Air09_060122005.D (BLANK,QC992501,290386,1x,PDF:1,C10737)
Lab Blank
Counts
x10^6
4.459 Methanol
5.207 Ethanol
6.424 Methylene Chloride
7.476 trans-1,2-Dichloroethene
8.386 Isopropyl Ether (DIPE)
10.013 Methyl tert-Amyl Ether (TAME)
11.506 4-Methyl-2-Pentanone
12.625 2-Hexanone
13.471 Tetrachloroethene
14.118 1,1,1,2-Tetrachloroethane
15.089 Styrene
15.697 p-Bromofluorobenzene
16.398 2-Chlorotoluene
17.495 1,4-Dichlorobenzene
18.542 1,2-Dibromo-3-chloropropane
20.622 Naphthalene
Acquisition Time (min)

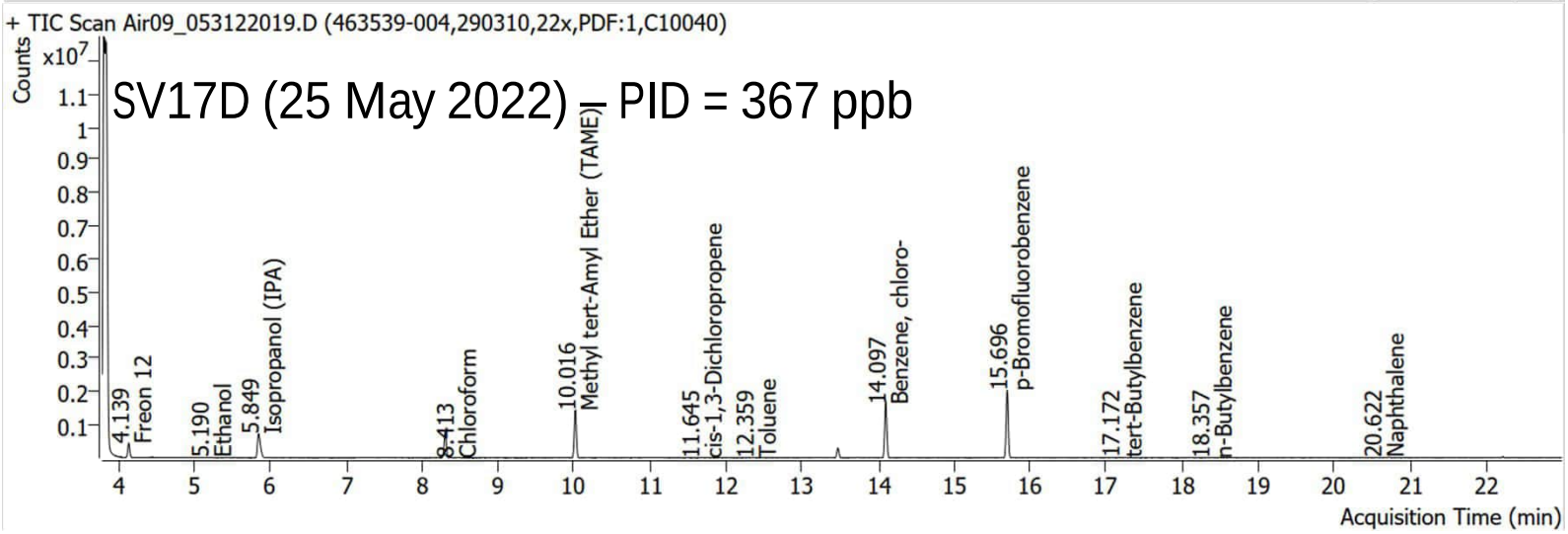

+ TIC Scan Air09_053122014.D (463539-001,290310,2x,PDF:1,C10072)
SV15S (25 May 2022) – PID = 72 ppb
Counts
x10^7
5.188 Ethanol
5.858 Isopropanol (IPA)
7.467 trans-1,2-Dichloroethene
8.365 Ethyl Acetate
10.012 Methyl tert-Amyl Ether (TAME)
10.935 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.532 Ethylbenzene
15.696 p-Bromofluorobenzene
16.446 n-Propylbenzene
17.776 sec-Butylbenzene
18.853 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)

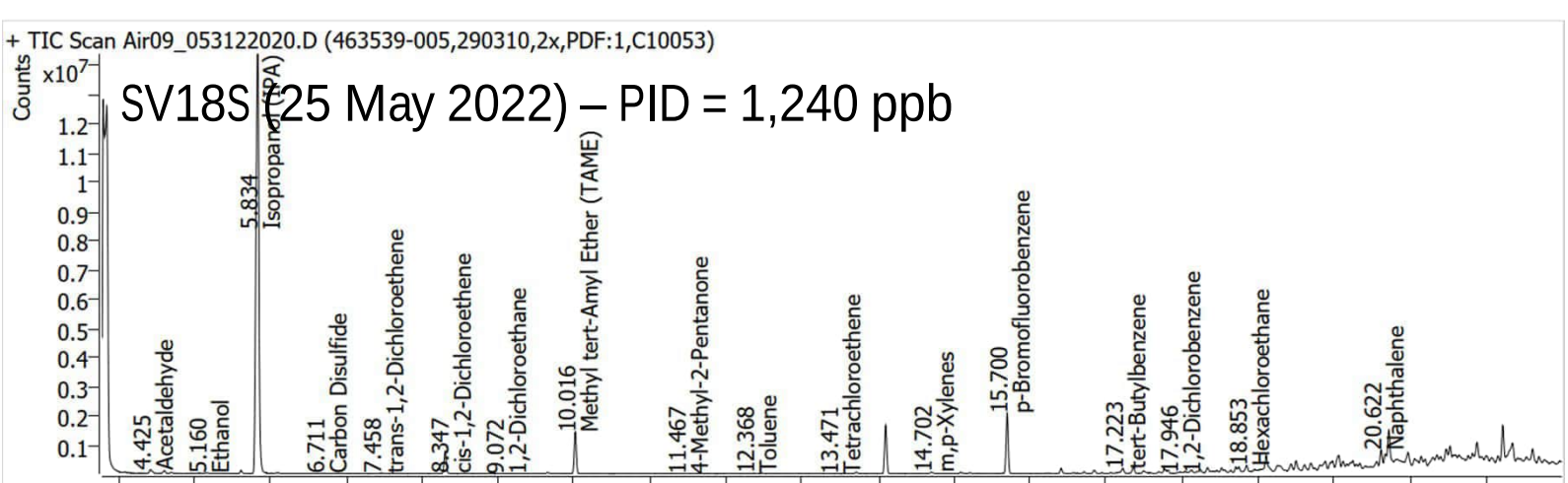

+ TIC Scan Air09_053122015.D (463539-002,290310,2x,PDF:1,C10023)
SV15D (25 May 2022) – PID = 87 ppb
Counts
x10^7
4.465 Methanol
5.177 Ethanol
5.840 Isopropanol (IPA)
7.491 trans-1,2-Dichloroethene
8.422 Chloroform
10.019 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.697 p-Bromofluorobenzene
17.220 tert-Butylbenzene
17.937 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.619 Naphthalene
Acquisition Time (min)

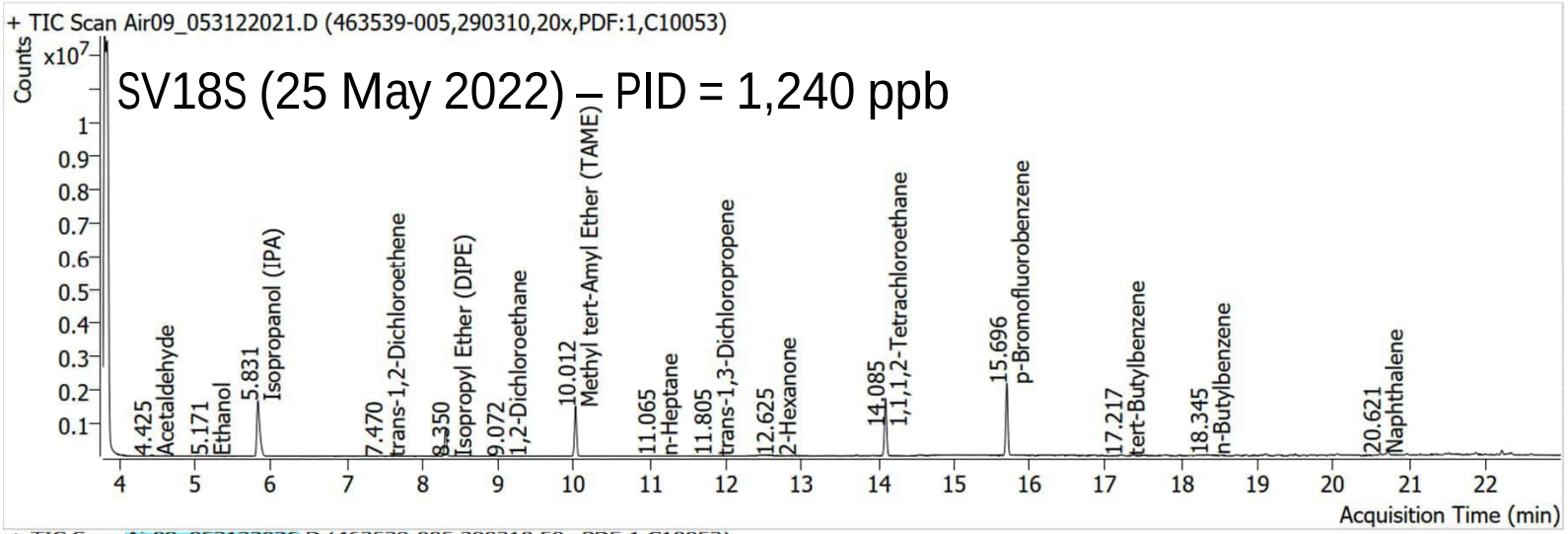

+ TIC Scan Air09_053122016.D (463539-002,290310,20x,PDF:1,C10023)
SV15D (25 May 2022) – PID = 87ppb
Counts
x10^7
4.141 Freon 12
5.205 Ethanol
5.880 Isopropanol (IPA)
7.558 Vinyl Acetate
8.377 Isopropyl Ether (DIPE)
10.016 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
18.354 n-Butylbenzene
20.619 Naphthalene

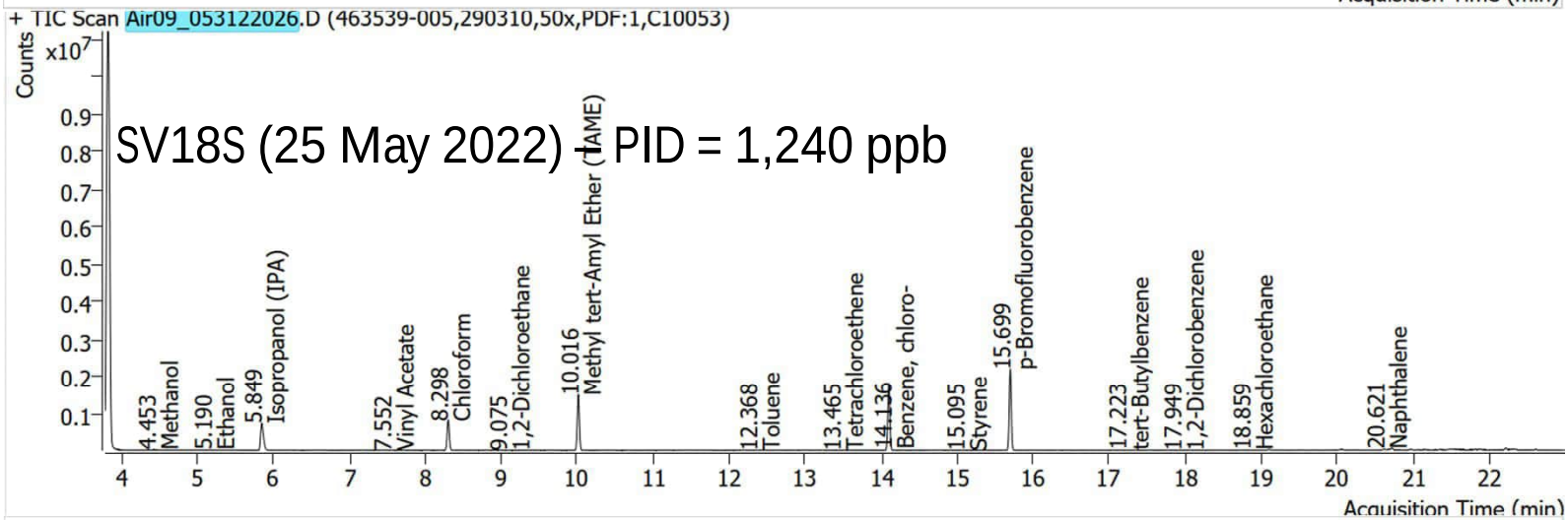

+ TIC Scan Air09_053122017.D (463539-003,290310,2x,PDF:1,C10035)
SV17S (25 May 2022) – PID = 350 ppb
Counts
x10^7
4.429 Acetaldehyde
5.196 Ethanol
5.870 n-Pentane
7.470 trans-1,2-Dichloroethene
8.419 Chloroform
10.012 Cyclohexane
11.509 4-Methyl-2-Pentanone
12.368 Toluene
13.468 Tetrachloroethene
14.705 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.946 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

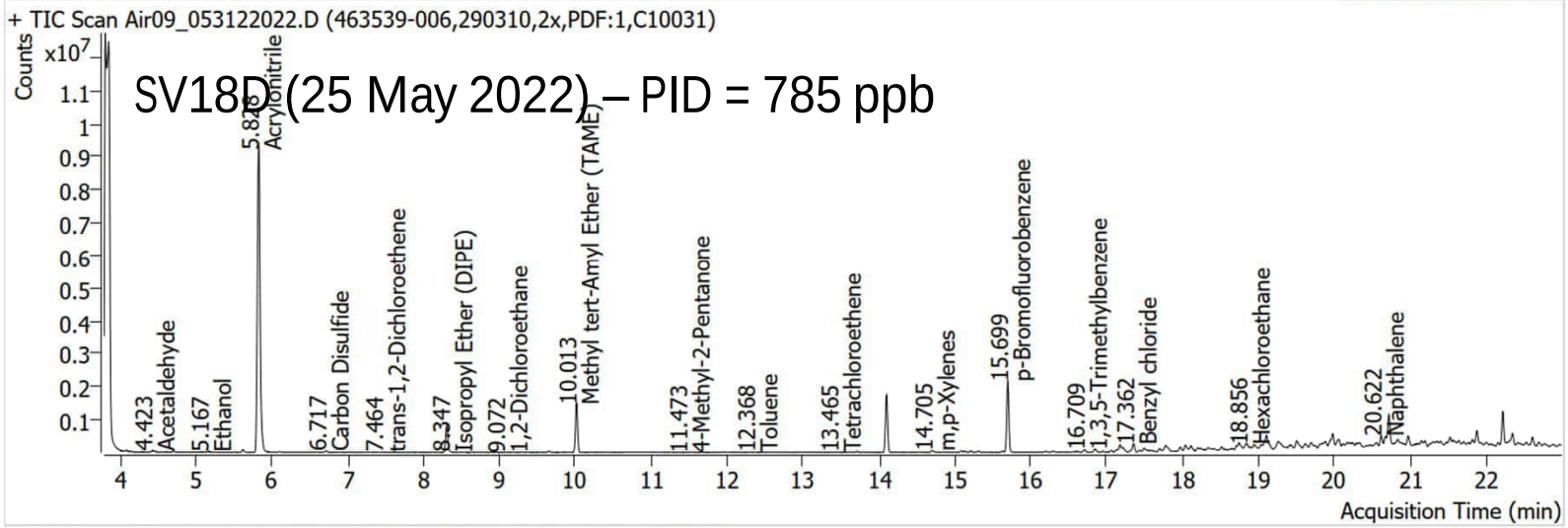

+ TIC Scan Air09_053122018.D (463539-004,290310,2.2x,PDF:1,C10040)
SV17D (25 May 2022) – PID = 367 ppb
Counts
x10^7
4.141 Chloromethane
5.169 Ethanol
5.827 Isopropanol (IPA)
6.427 Methylene Chloride
7.476 trans-1,2-Dichloroethene
8.419 Chloroform
9.366 1,1,1-Trichloroethane
10.013 Methyl tert-Amyl Ether (TAME)
11.488 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.220 tert-Butylbenzene
17.943 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

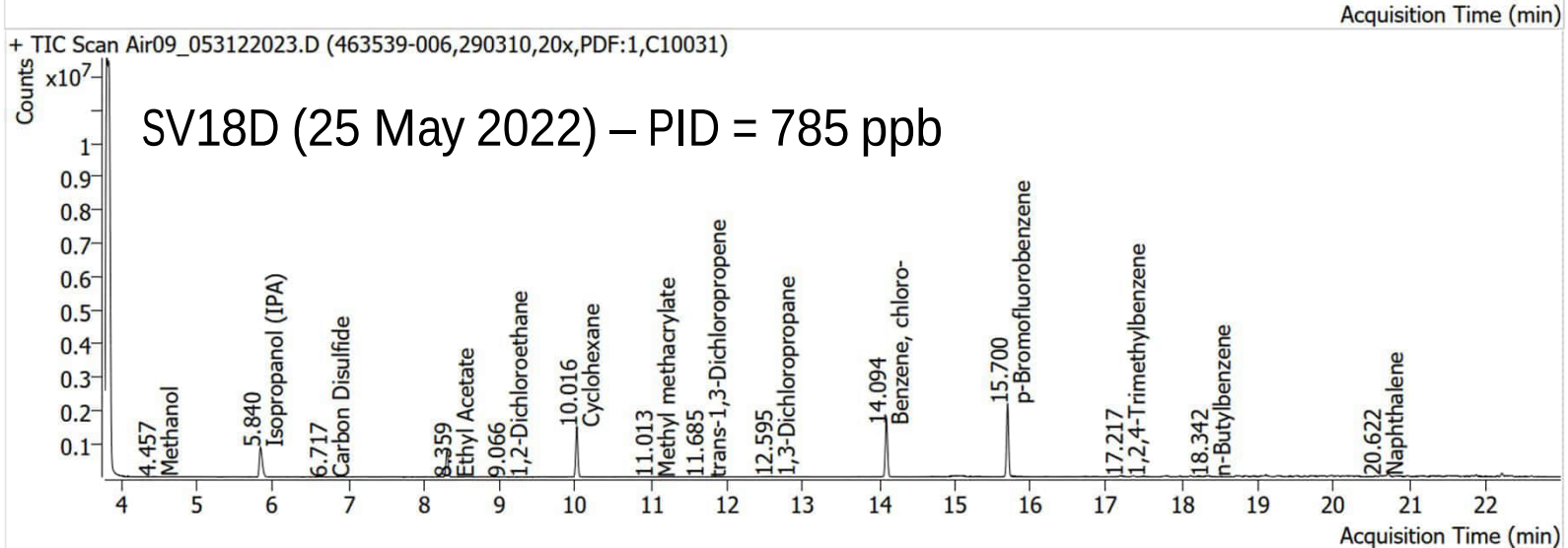

+ TIC Scan Air09_053122019.D (463539-004,290310,22x,PDF:1,C10040)
SV17D (25 May 2022) – PID = 367 ppb
Counts
x10^7
4.139 Freon 12
5.190 Ethanol
5.849 Isopropanol (IPA)
8.413 Chloroform
10.016 Methyl tert-Amyl Ether (TAME)
11.645 cis-1,3-Dichloropropene
12.359 Toluene
14.097 Benzene, chloro-
15.696 p-Bromofluorobenzene
17.172 tert-Butylbenzene
18.357 n-Butylbenzene
20.622 Naphthalene
Acquisition Time (min)

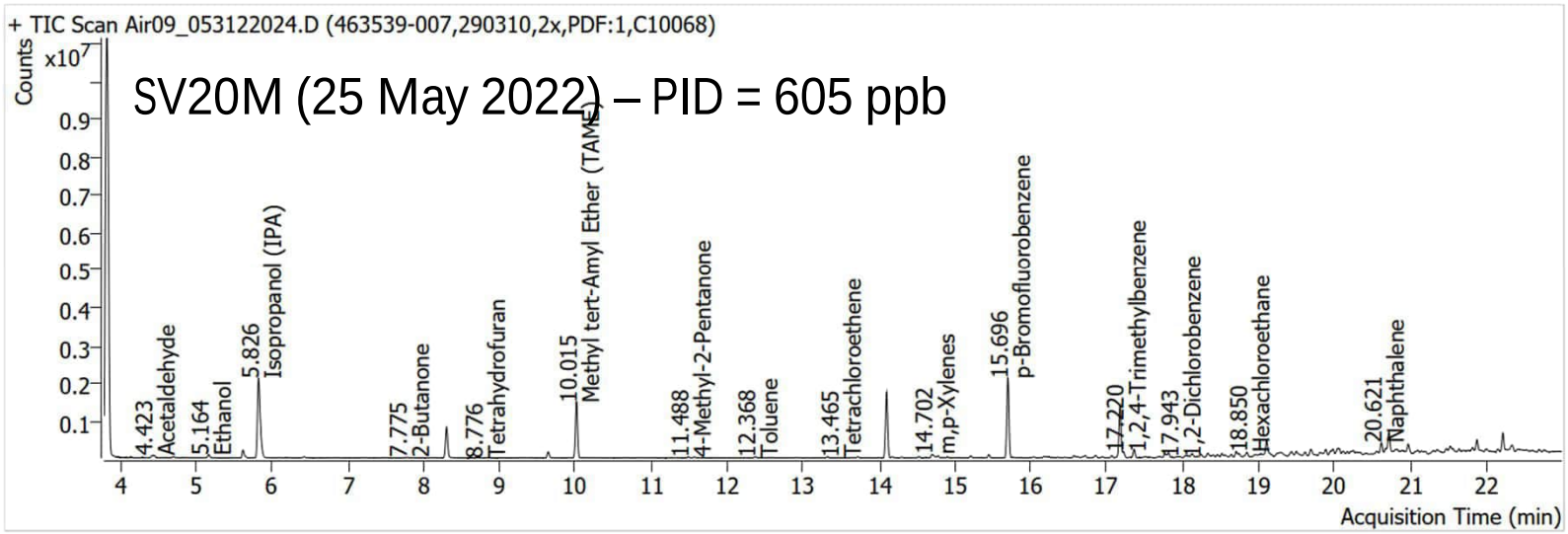

+ TIC Scan Air09_053122020.D (463539-005,290310,2x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.425 Acetaldehyde
5.160 Ethanol
5.834 Isopropanol (IPA)
6.711 Carbon Disulfide
7.458 trans-1,2-Dichloroethene
8.347 cis-1,2-Dichloroethene
9.072 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
11.467 4-Methyl-2-Pentanone
12.368 Toluene
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.223 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.853 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)

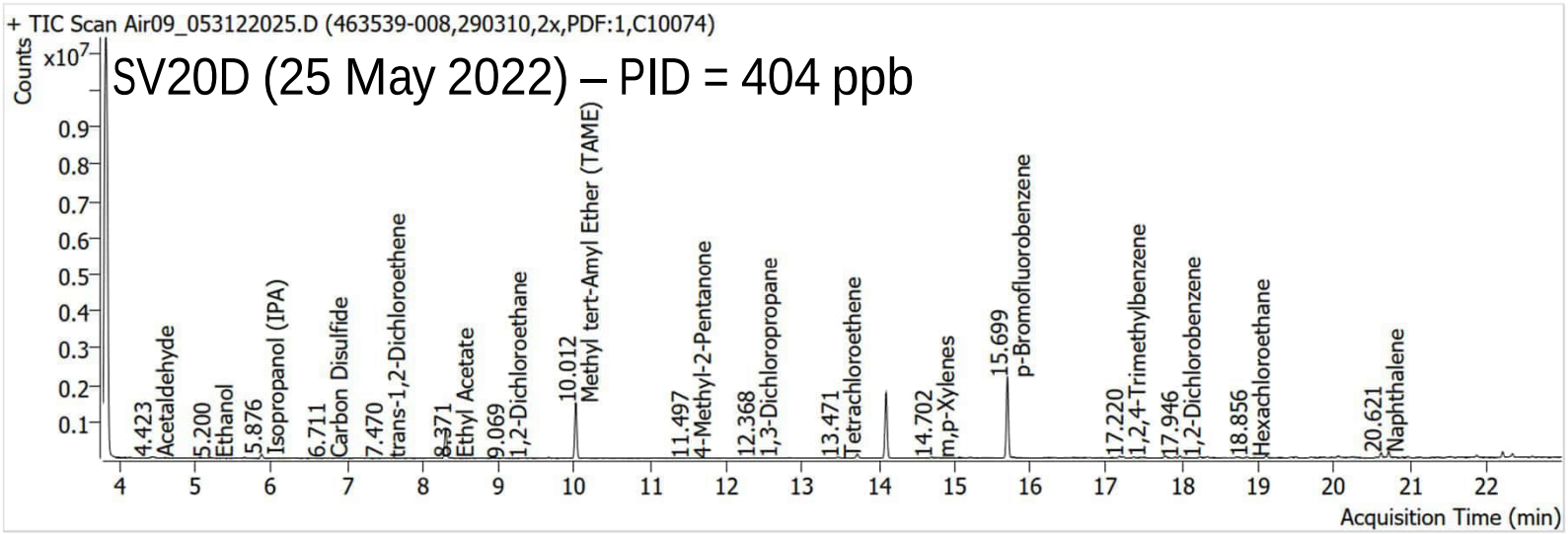

+ TIC Scan Air09_053122021.D (463539-005,290310,20x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.425 Acetaldehyde
5.171 Ethanol
5.831 Isopropanol (IPA)
7.470 trans-1,2-Dichloroethene
8.350 Isopropyl Ether (DIPE)
9.072 1,2-Dichloroethane
10.012 Methyl tert-Amyl Ether (TAME)
11.065 n-Heptane
11.805 trans-1,3-Dichloropropene
12.625 2-Hexanone
14.085 1,1,1,2-Tetrachloroethane
15.696 p-Bromofluorobenzene
17.217 tert-Butylbenzene
18.345 n-Butylbenzene
20.621 Naphthalene
Acquisition Time (min)

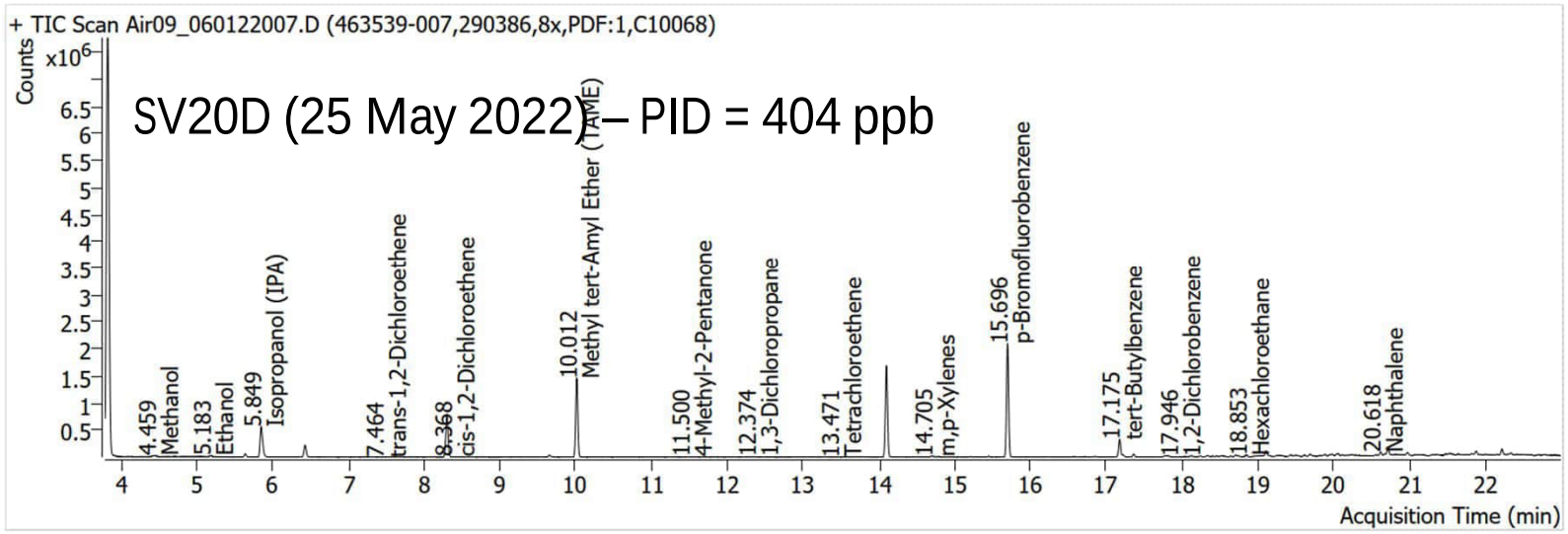

+ TIC Scan Air09_053122026.D (463539-005,290310,50x,PDF:1,C10053)
SV18S (25 May 2022) – PID = 1,240 ppb
Counts
x10^7
4.453 Methanol
5.190 Ethanol
5.849 Isopropanol (IPA)
7.552 Vinyl Acetate
8.298 Chloroform
9.075 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
12.368 Toluene
13.465 Tetrachloroethene
14.136 Benzene, chloro-
15.095 Styrene
15.699 p-Bromofluorobenzene
17.223 tert-Butylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122022.D (463539-006,290310,2x,PDF:1,C10031)
SV18D (25 May 2022) – PID = 785 ppb
Counts
x10^7
4.423 Acetaldehyde
5.167 Ethanol
5.828 Acrylonitrile
6.717 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.347 Isopropyl Ether (DIPE)
9.072 1,2-Dichloroethane
10.013 Methyl tert-Amyl Ether (TAME)
11.473 4-Methyl-2-Pentanone
12.368 Toluene
13.465 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.709 1,3,5-Trimethylbenzene
17.362 Benzyl chloride
18.856 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122023.D (463539-006,290310,20x,PDF:1,C10031)
SV18D (25 May 2022) – PID = 785 ppb
Counts
x10^7
4.457 Methanol
5.840 Isopropanol (IPA)
6.717 Carbon Disulfide
8.359 Ethyl Acetate
9.066 1,2-Dichloroethane
10.016 Cyclohexane
11.013 Methyl methacrylate
11.685 trans-1,3-Dichloropropene
12.595 1,3-Dichloropropane
14.094 Benzene, chloro-
15.700 p-Bromofluorobenzene
17.217 1,2,4-Trimethylbenzene
18.342 n-Butylbenzene
20.622 Naphthalene
Acquisition Time (min)

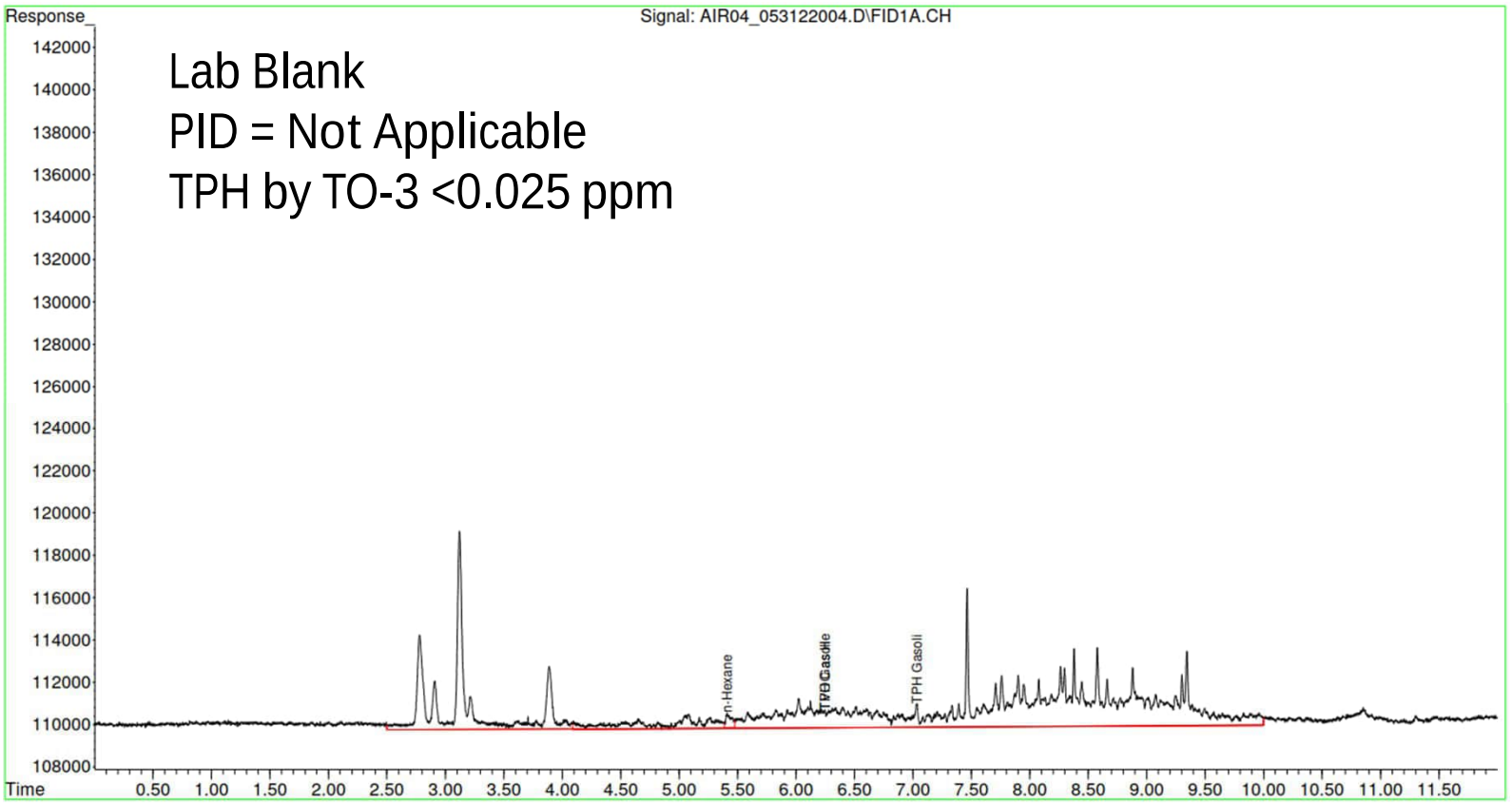

+ TIC Scan Air09_053122024.D (463539-007,290310,2x,PDF:1,C10068)
SV20M (25 May 2022) – PID = 605 ppb
Counts
x10^7
4.423 Acetaldehyde
5.164 Ethanol
5.826 Isopropanol (IPA)
7.775 2-Butanone
8.776 Tetrahydrofuran
10.015 Methyl tert-Amyl Ether (TAME)
11.488 4-Methyl-2-Pentanone
12.368 Toluene
13.465 Tetrachloroethene
14.702 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
17.943 1,2-Dichlorobenzene
18.850 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_053122025.D (463539-008,290310,2x,PDF:1,C10074)
SV20D (25 May 2022) – PID = 404 ppb
Counts
x10^7
4.423 Acetaldehyde
5.200 Ethanol
5.876 Isopropanol (IPA)
6.711 Carbon Disulfide
7.470 trans-1,2-Dichloroethene
8.371 Ethyl Acetate
9.069 1,2-Dichloroethane
10.012 Methyl tert-Amyl Ether (TAME)
11.497 4-Methyl-2-Pentanone
12.368 1,3-Dichloropropane
13.471 Tetrachloroethene
14.702 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.220 1,2,4-Trimethylbenzene
17.946 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)

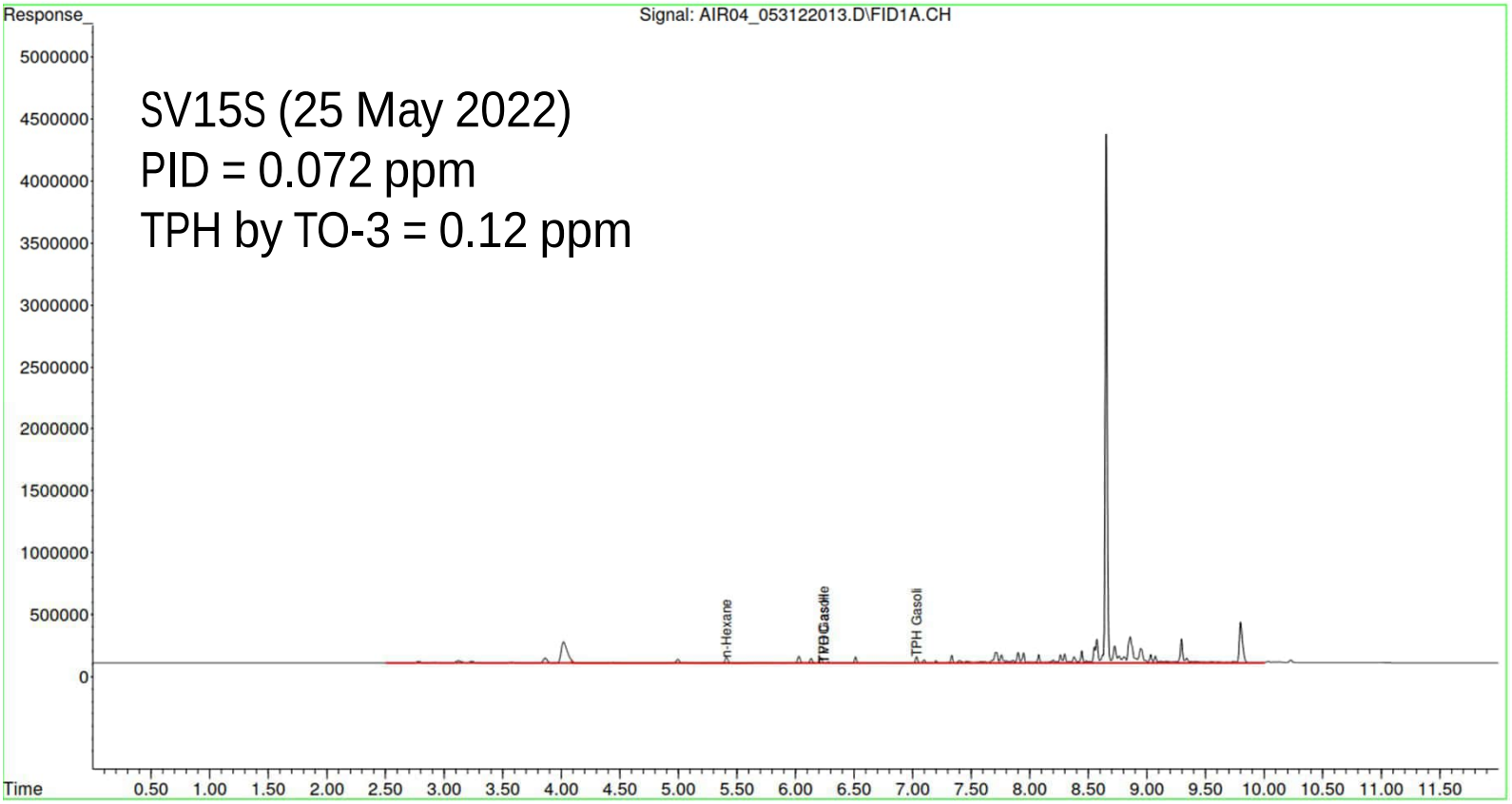

+ TIC Scan Air09_060122007.D (463539-007,290386,8x,PDF:1,C10068)
SV20D (25 May 2022) – PID = 404 ppb
Counts
x10^6
4.459 Methanol
5.183 Ethanol
5.849 Isopropanol (IPA)
7.464 trans-1,2-Dichloroethene
8.368 cis-1,2-Dichloroethene
10.012 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.374 1,3-Dichloropropane
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.696 p-Bromofluorobenzene
17.175 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.853 Hexachloroethane
20.618 Naphthalene
Acquisition Time (min)

May 2022
Soil Vapor Samples

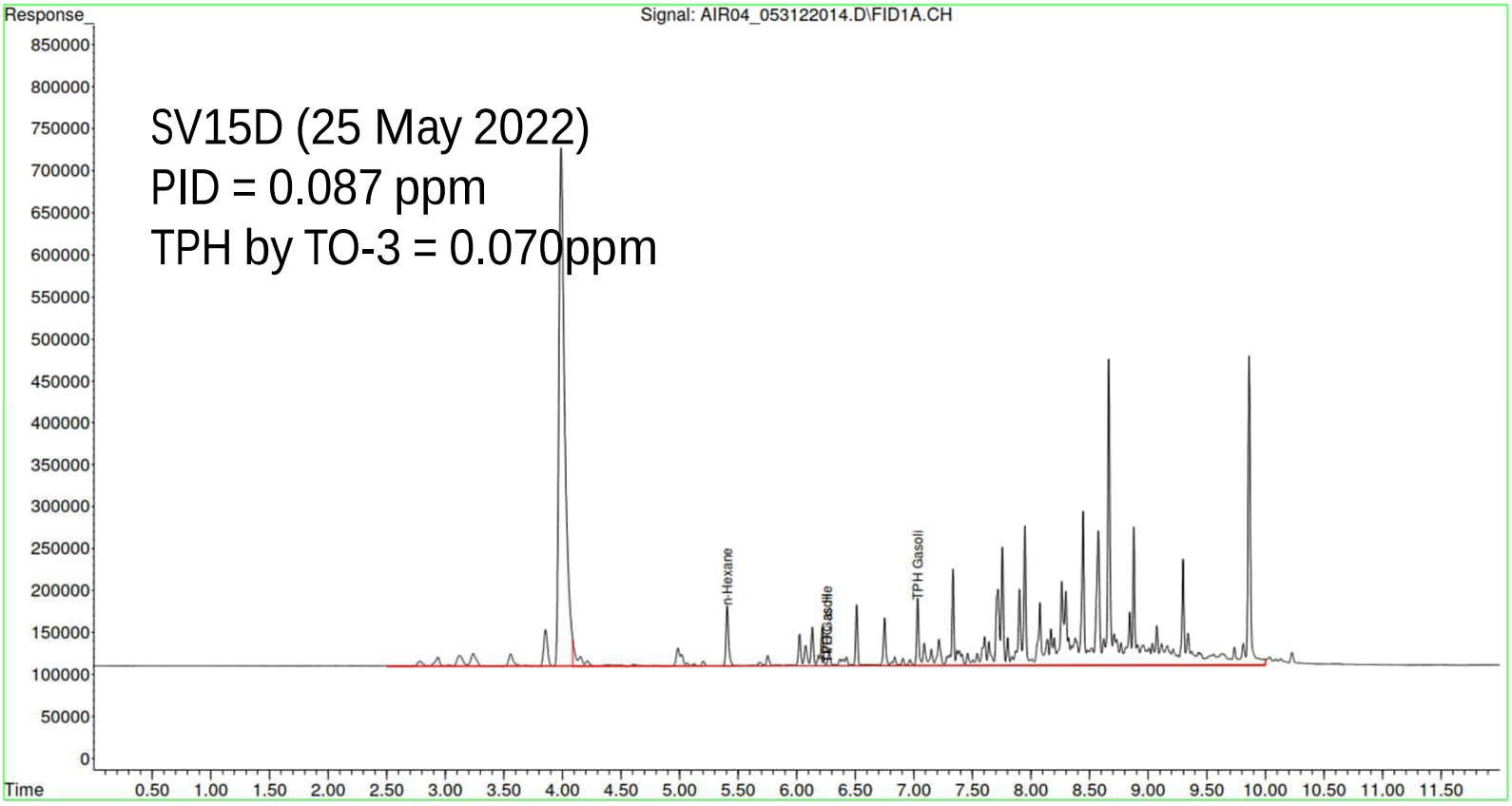
FID Chromatograms

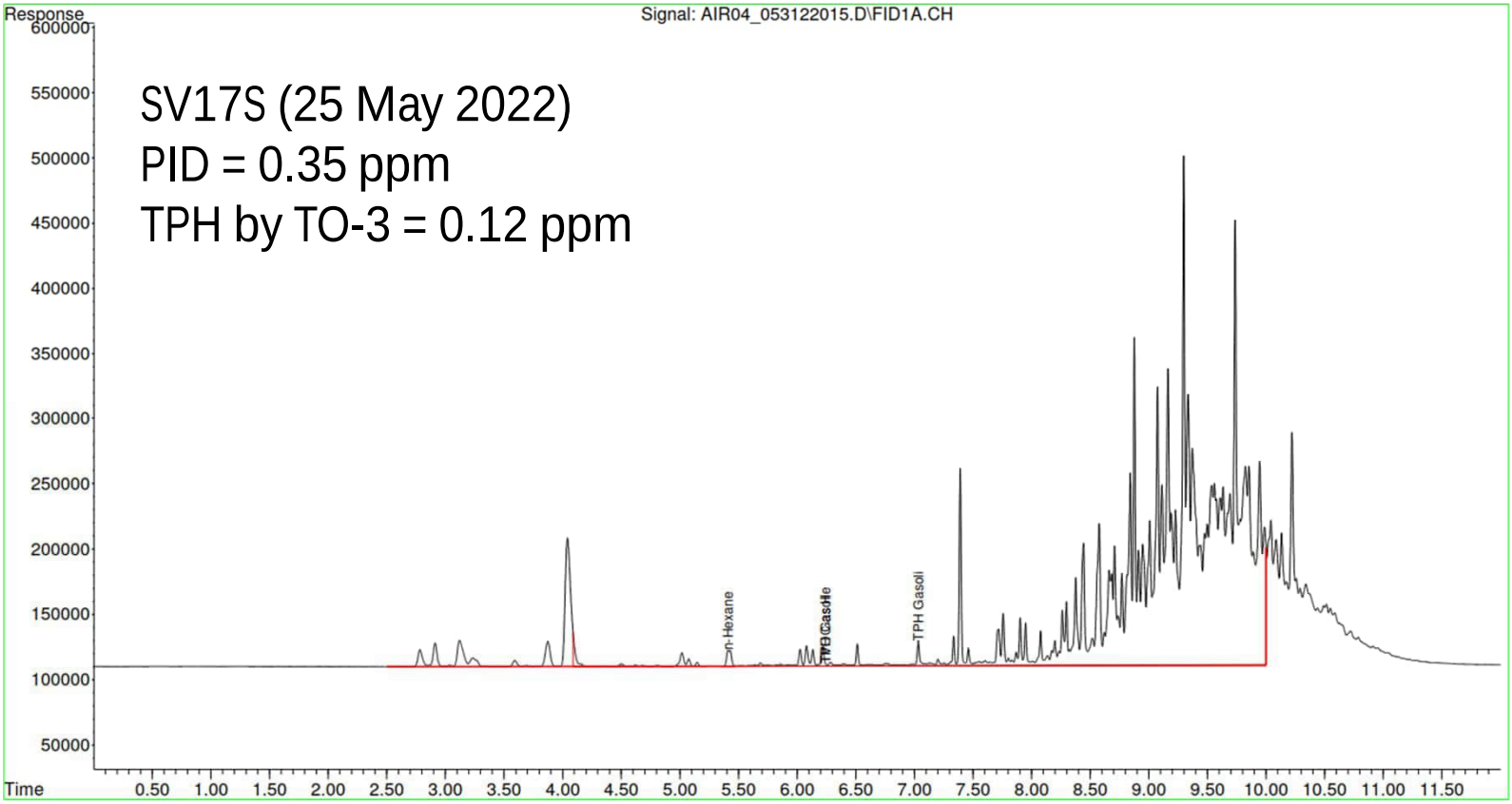


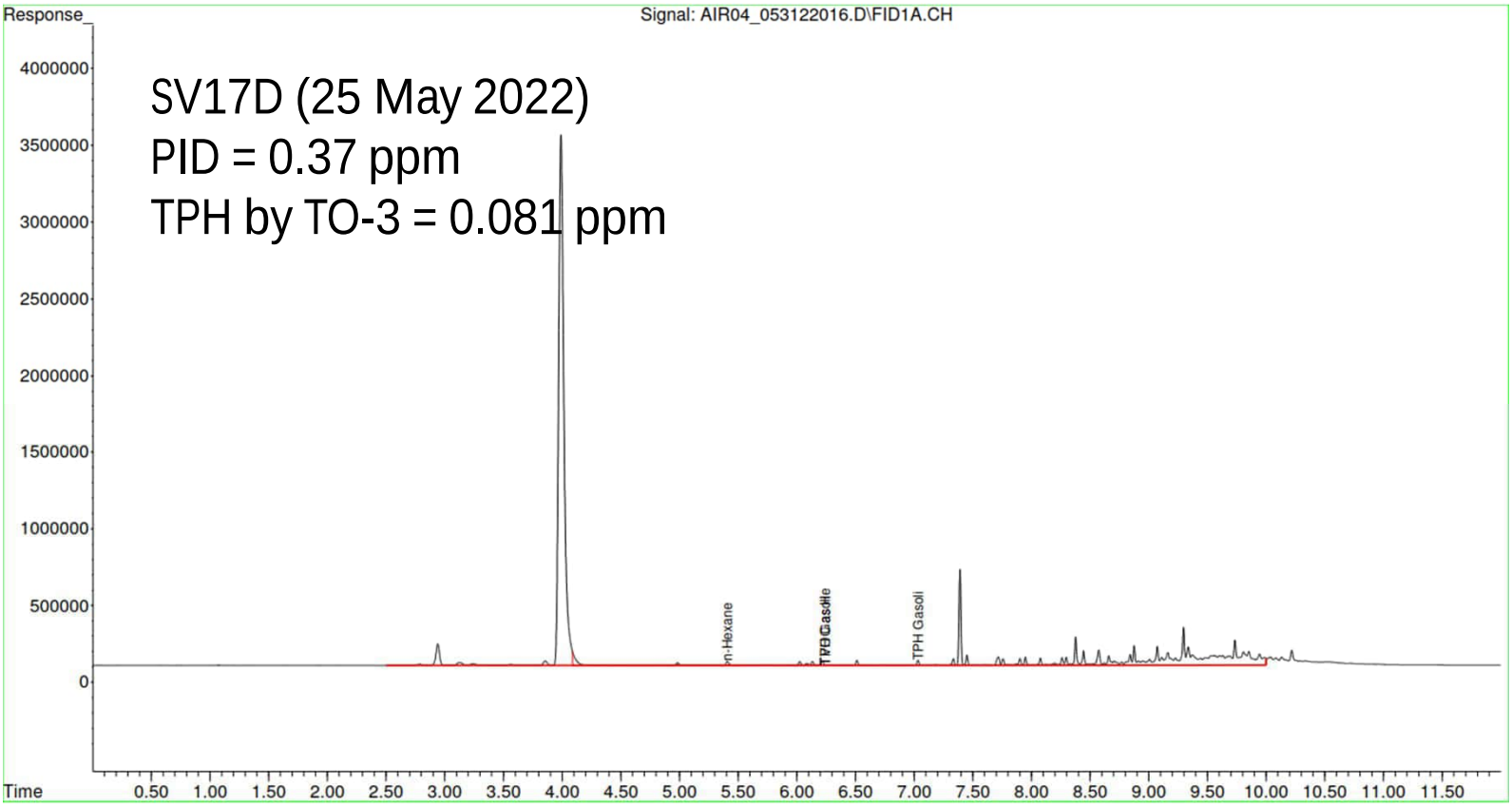
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

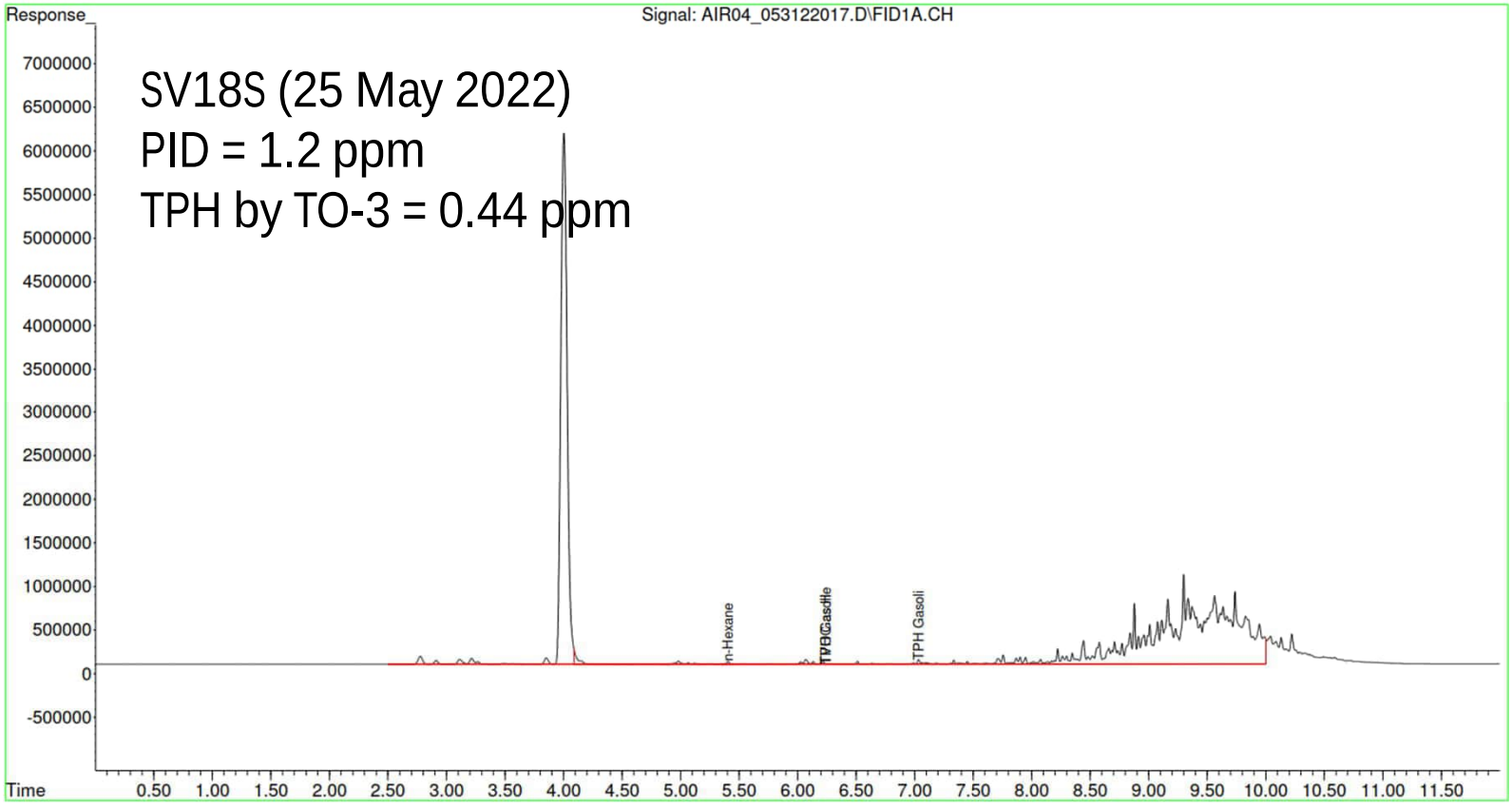


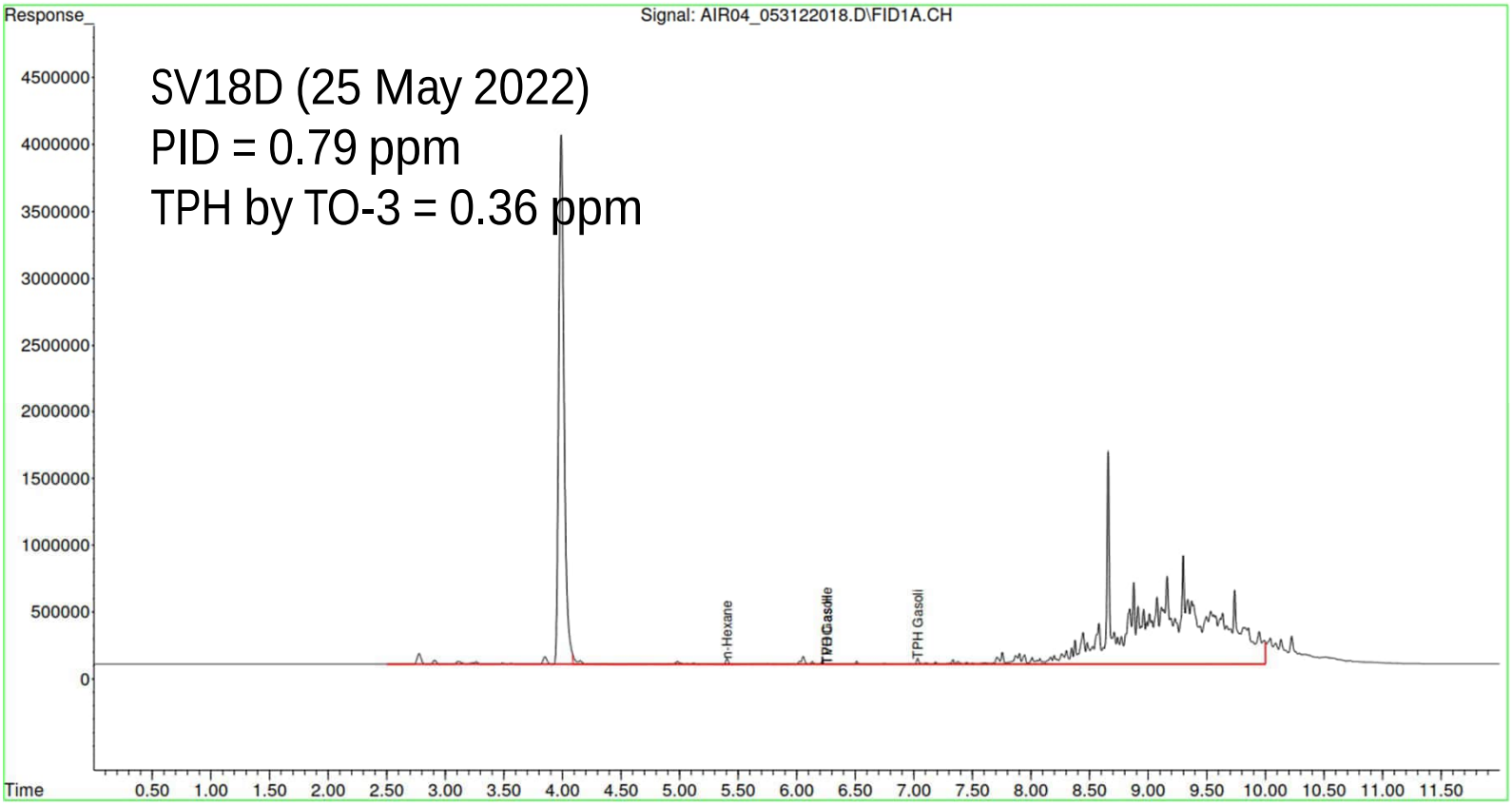
SV15S (25 May 2022)
PID = 0.072 ppm
TPH by TO-3 = 0.12 ppm

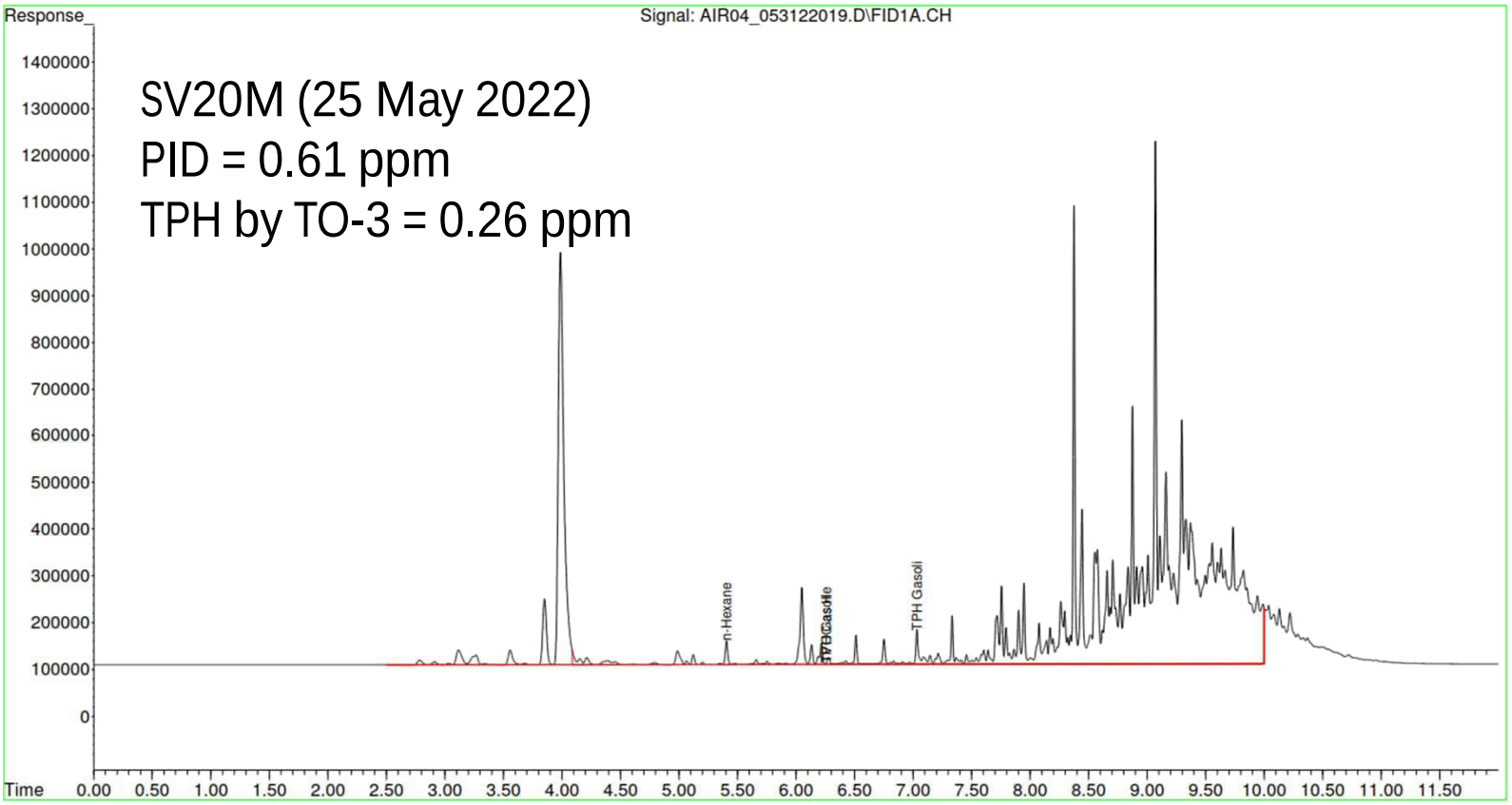

Response
Signal: AIR04_053122014.D\FID1A.CH
SV15D (25 May 2022)
PID = 0.087 ppm
TPH by TO-3 = 0.070ppm
n-Hexane
TPH Gasoli
Time

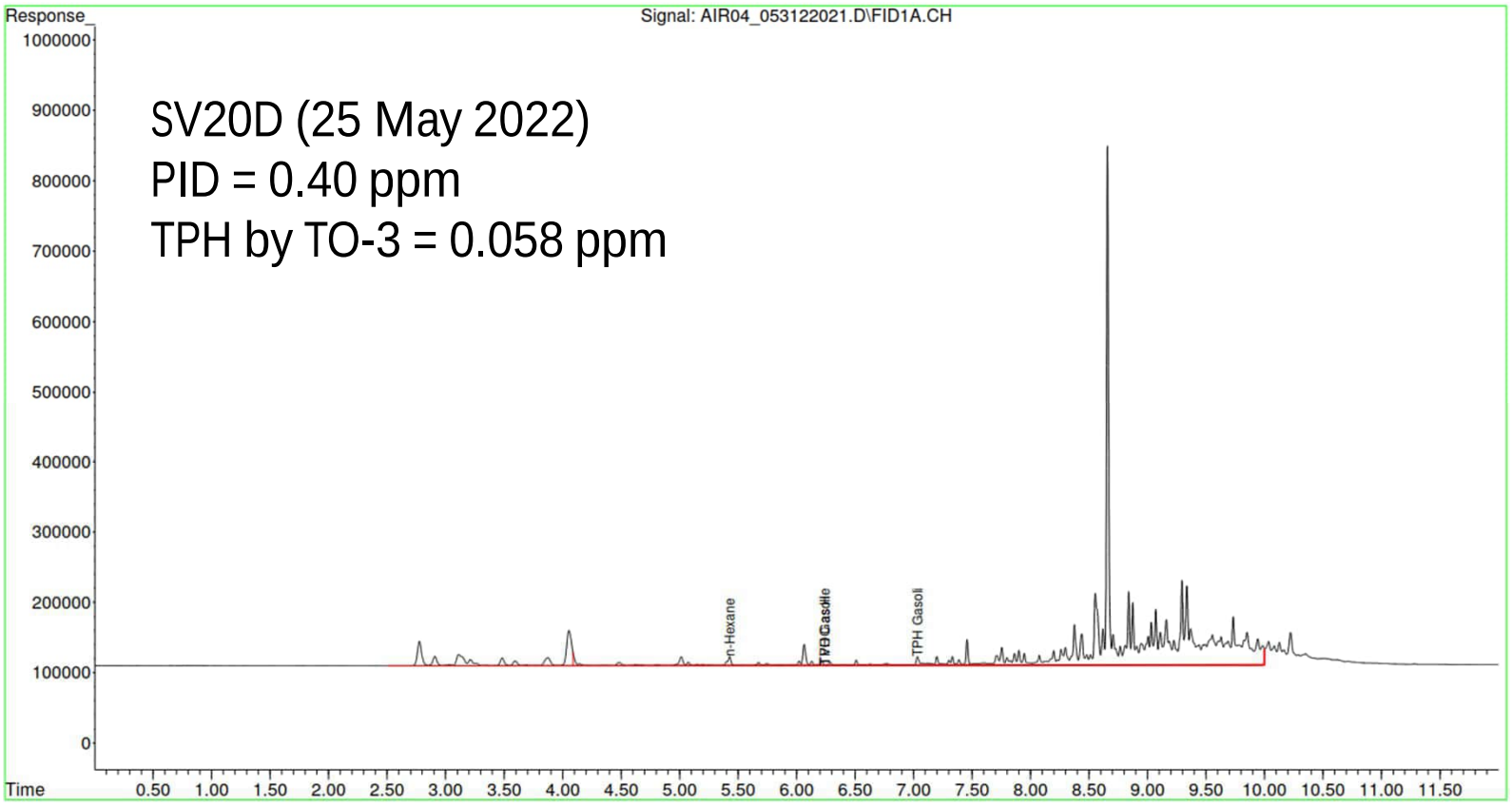

Response
Signal: AIR04_053122015.D\FID1A.CH
SV17S (25 May 2022)
PID = 0.35 ppm
TPH by TO-3 = 0.12 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: AIR04_053122016.D\FID1A.CH
SV17D (25 May 2022)
PID = 0.37 ppm
TPH by TO-3 = 0.081 ppm
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_053122017.D\FID1A.CH
SV18S (25 May 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.44 ppm
7000000
6500000
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
-500000
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

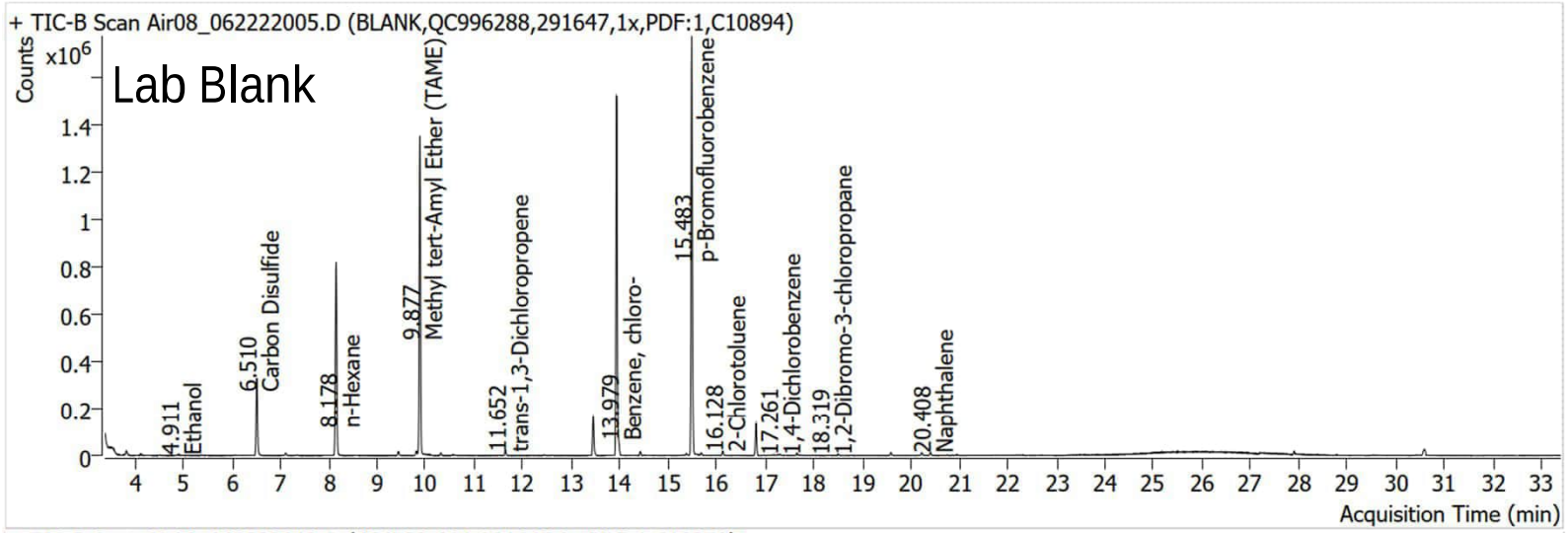

Response_
Signal: AIR04_053122018.D\FID1A.CH
SV18D (25 May 2022)
PID = 0.79 ppm
TPH by TO-3 = 0.36 ppm
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

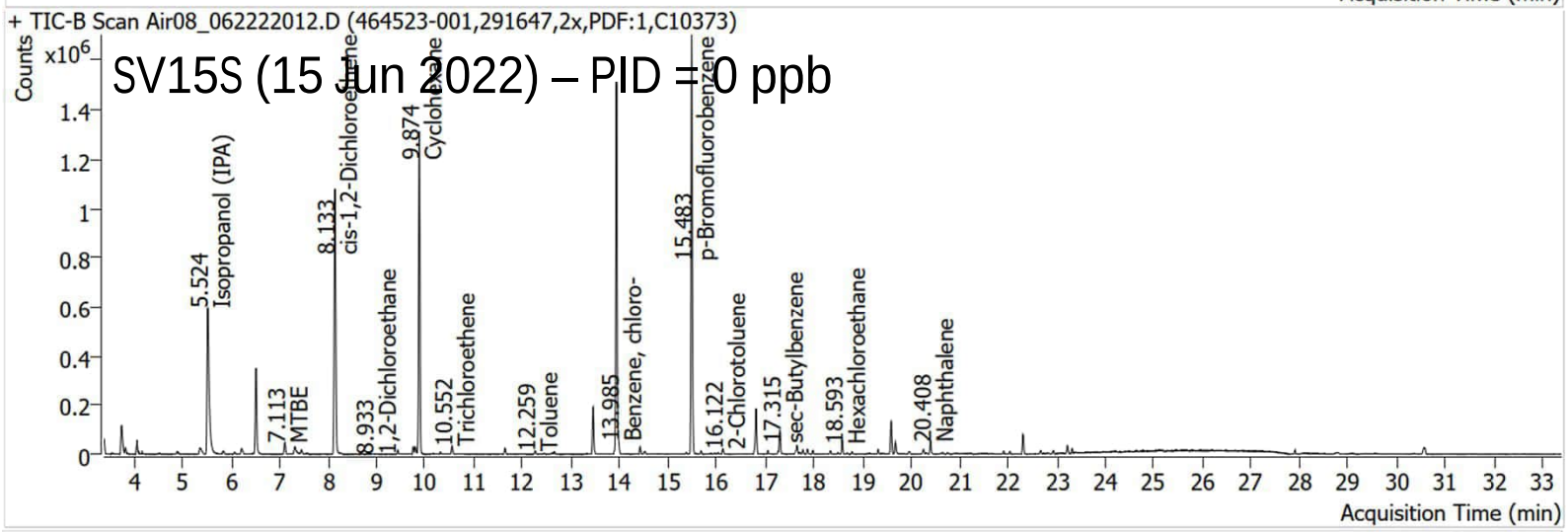

Response_
Signal: AIR04_053122019.D\FID1A.CH
SV20M (25 May 2022)
PID = 0.61 ppm
TPH by TO-3 = 0.26 ppm
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
n-Hexane
TPH Gasoli
Time
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

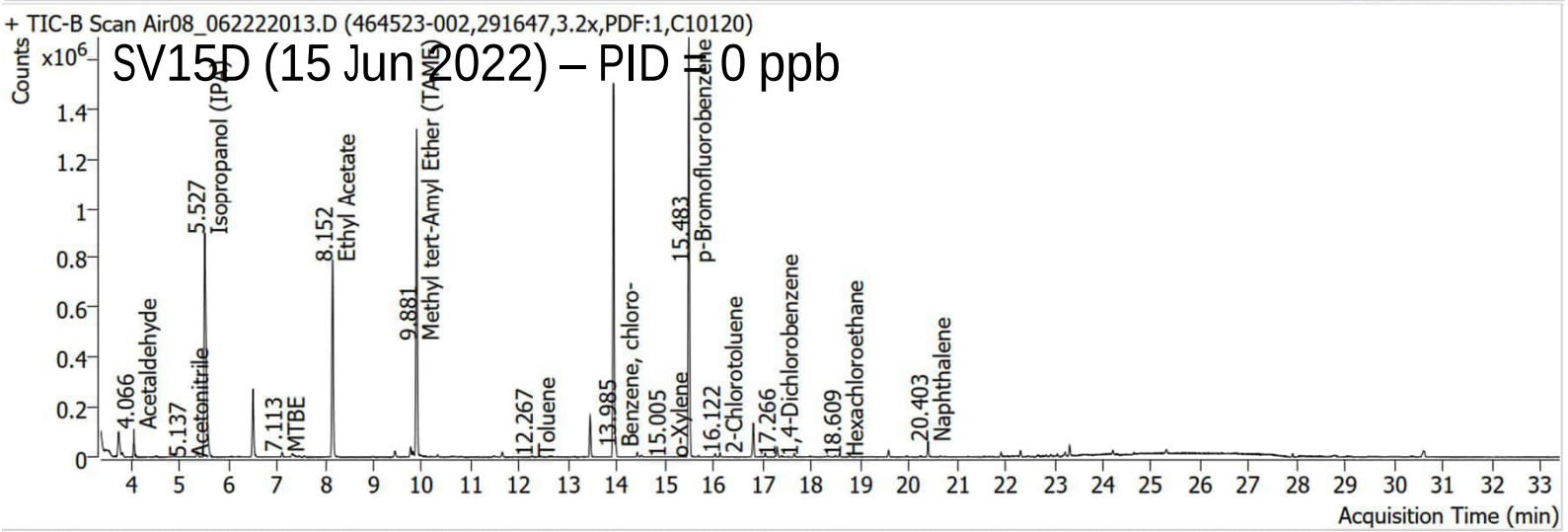

Response
Signal: AIR04_053122021.D\FID1A.CH
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
SV20D (25 May 2022)
PID = 0.40 ppm
TPH by TO-3 = 0.058 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

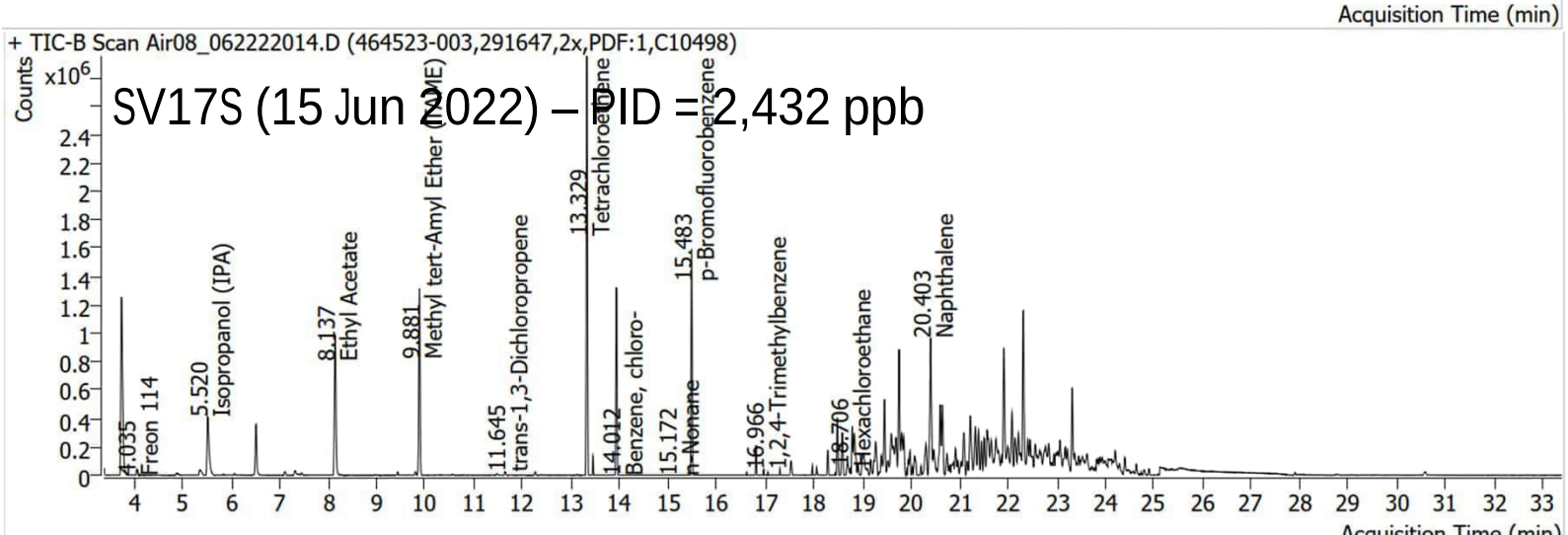
June 2022
Soil Vapor Samples

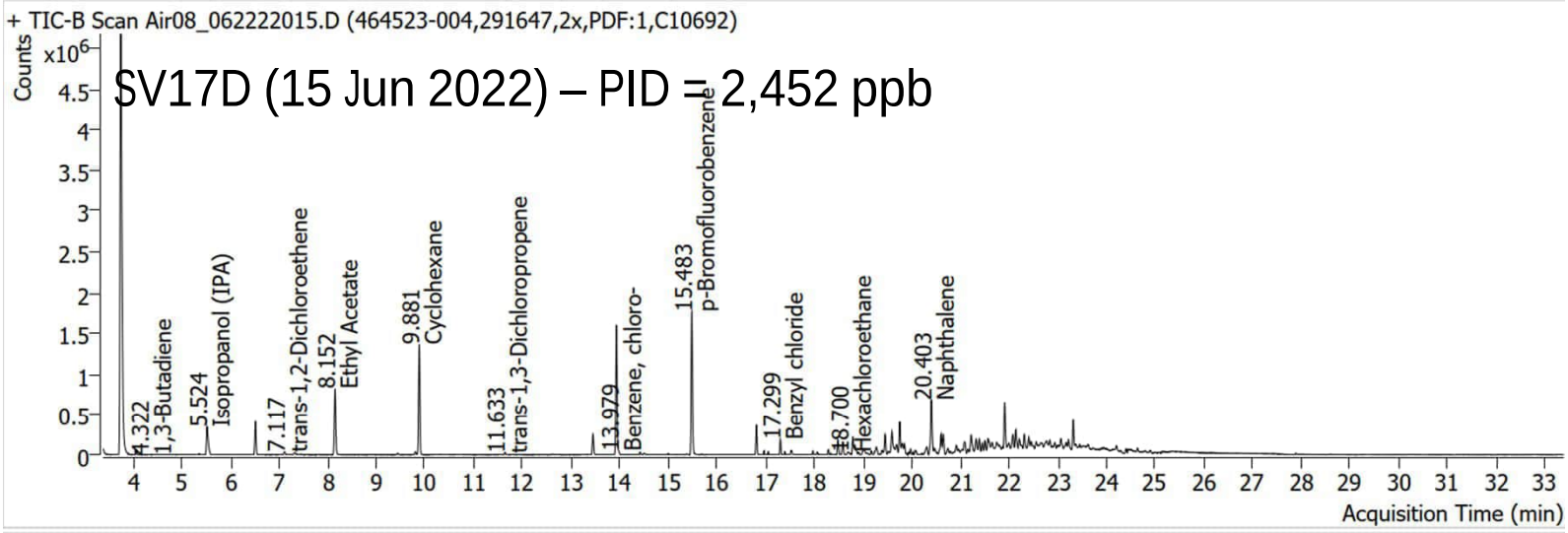
Mass Spec Chromatograms

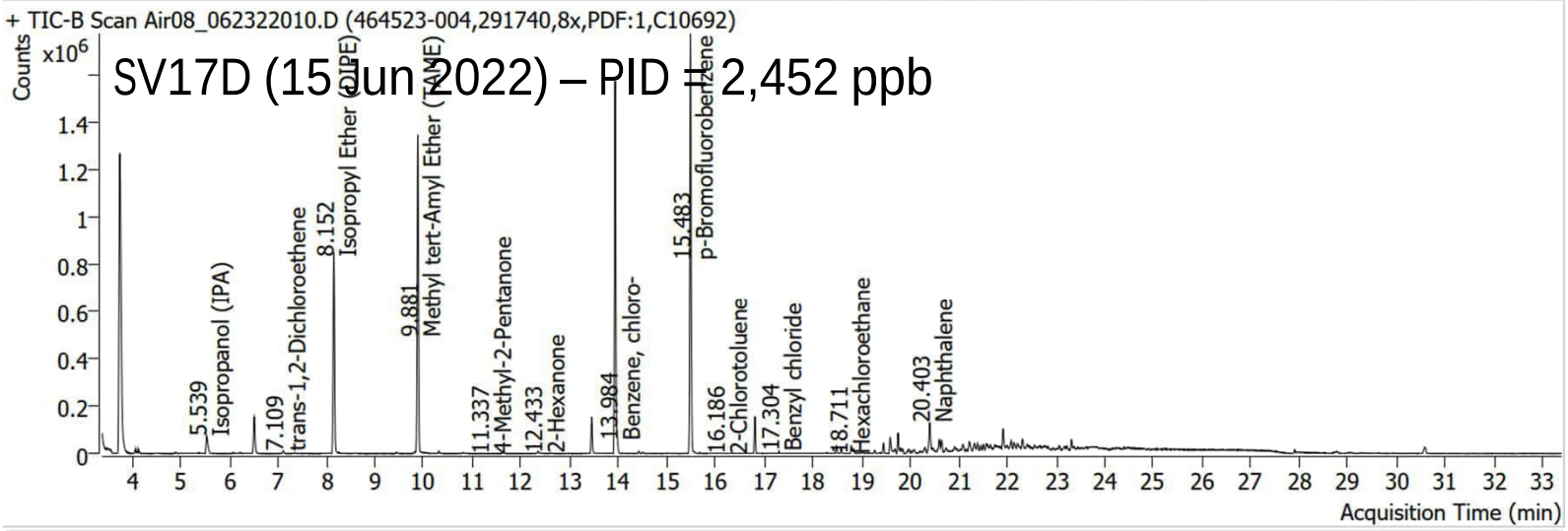

+ TIC-B Scan Air08_062222005.D (BLANK,QC996288,291647,1x,PDF:1,C10894)
Lab Blank
Counts
x10^6
4.911 Ethanol
6.510 Carbon Disulfide
8.178 n-Hexane
9.877 Methyl tert-Amyl Ether (TAME)
11.652 trans-1,3-Dichloropropene
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.261 1,4-Dichlorobenzene
18.319 1,2-Dibromo-3-chloropropane
20.408 Naphthalene
Acquisition Time (min)

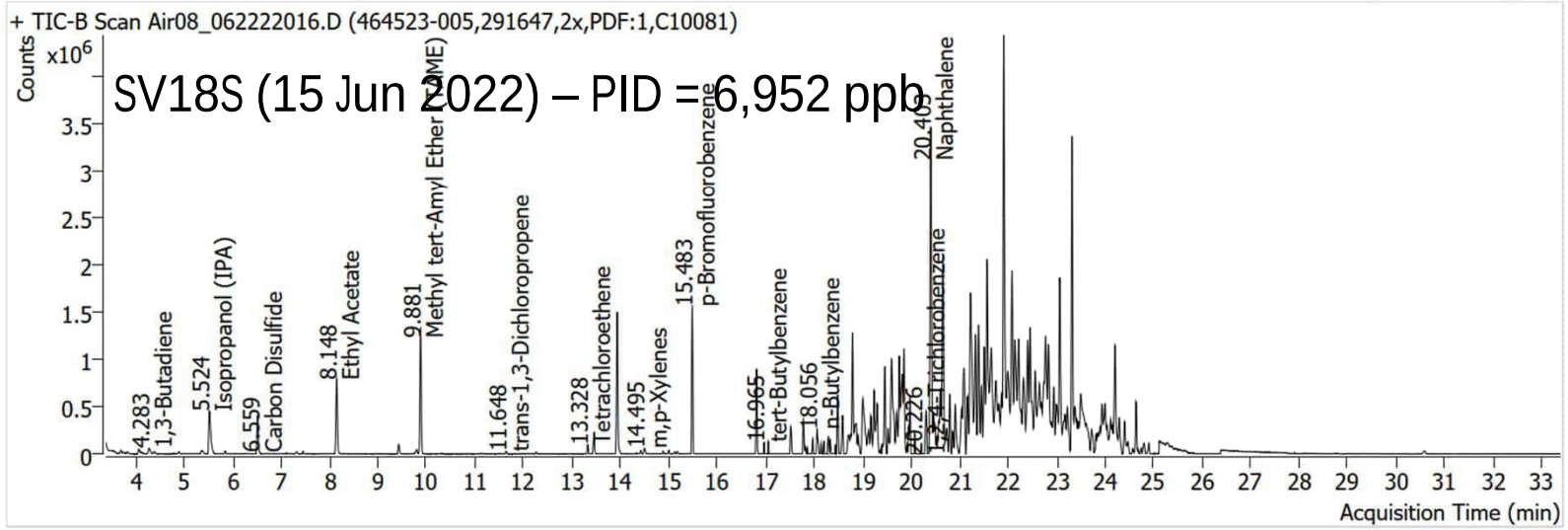

+ TIC-B Scan Air08_062222012.D (464523-001,291647,2x,PDF:1,C10373)
SV15S (15 Jun 2022) – PID = 0 ppb
Counts
x10^6
5.524 Isopropanol (IPA)
7.113 MTBE
8.133 cis-1,2-Dichloroethene
8.933 1,2-Dichloroethane
9.874 Cyclohexane
10.552 Trichloroethene
12.259 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.315 sec-Butylbenzene
18.593 Hexachloroethane
20.408 Naphthalene
Acquisition Time (min)

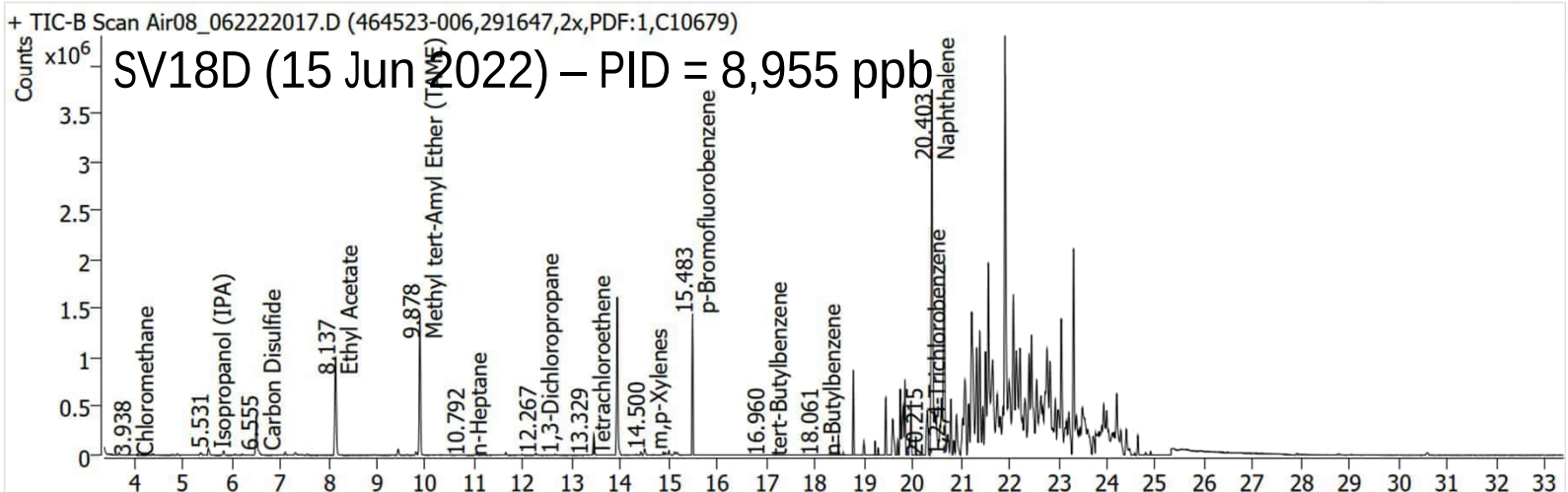

+ TIC-B Scan Air08_062222013.D (464523-002,291647,3.2x,PDF:1,C10120)
SV15D (15 Jun 2022) – PID = 0 ppb
Counts
x10^6
4.066 Acetaldehyde
5.137 Acetonitrile
5.527 Isopropanol (IPA)
7.113 MTBE
8.152 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
12.267 Toluene
13.985 Benzene, chloro-
15.005 o-Xylene
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.266 1,4-Dichlorobenzene
18.609 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

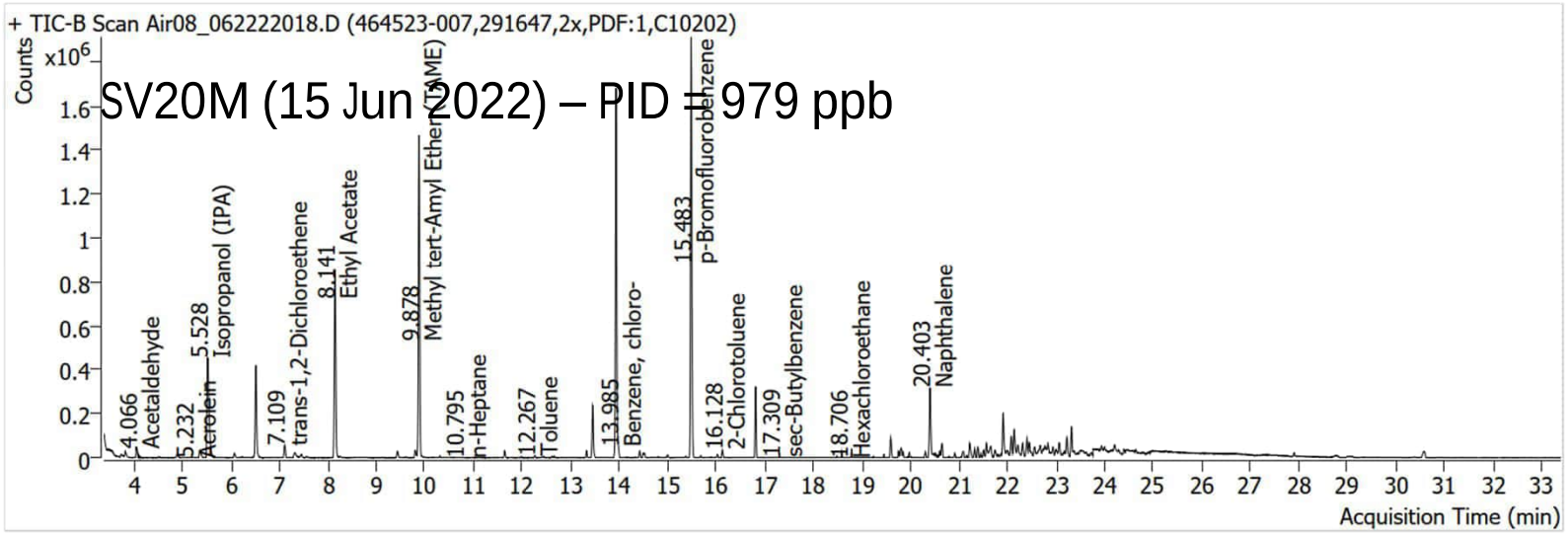

+ TIC-B Scan Air08_062222014.D (464523-003,291647,2x,PDF:1,C10498)
SV17S (15 Jun 2022) – PID = 2,432 ppb
Counts
x10^6
4.035 Freon 114
5.520 Isopropanol (IPA)
8.137 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
11.645 trans-1,3-Dichloropropene
13.329 Tetrachloroethene
14.012 Benzene, chloro-
15.172 n-Nonane
15.483 p-Bromofluorobenzene
16.966 1,2,4-Trimethylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

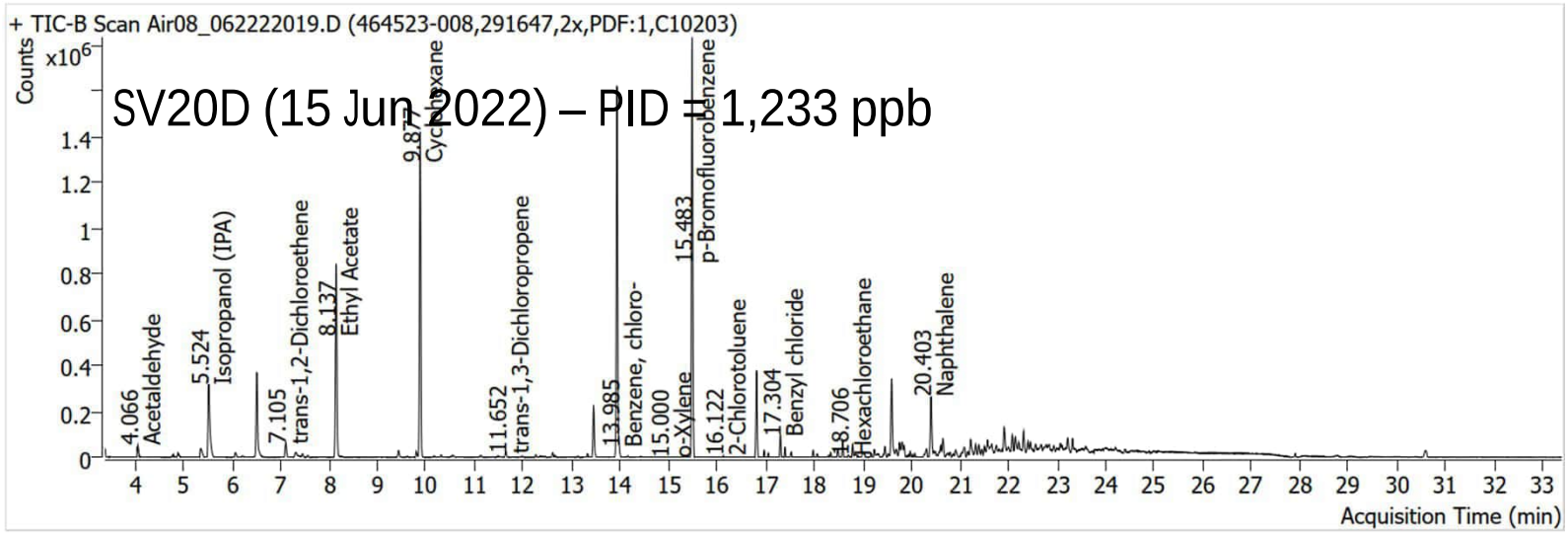

+ TIC-B Scan Air08_062222015.D (464523-004,291647,2x,PDF:1,C10692)
SV17D (15 Jun 2022) – PID = 2,452 ppb
Counts
x10^6
4.322 1,3-Butadiene
5.524 Isopropanol (IPA)
7.117 trans-1,2-Dichloroethene
8.152 Ethyl Acetate
9.881 Cyclohexane
11.633 trans-1,3-Dichloropropene
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
17.299 Benzyl chloride
18.700 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_062322010.D (464523-004,291740,8x,PDF:1,C10692)
SV17D (15 Jun 2022) – PID = 2,452 ppb
Counts
x10^6
5.539 Isopropanol (IPA)
7.109 trans-1,2-Dichloroethene
8.152 Isopropyl Ether (DIPE)
9.881 Methyl tert-Amyl Ether (TAME)
11.337 4-Methyl-2-Pentanone
12.433 2-Hexanone
13.984 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.186 2-Chlorotoluene
17.304 Benzyl chloride
18.711 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_062222016.D (464523-005,291647,2x,PDF:1,C10081)
SV18S (15 Jun 2022) – PID = 6,952 ppb
Counts
x10^6
4.283 1,3-Butadiene
5.524 Isopropanol (IPA)
6.559 Carbon Disulfide
8.148 Ethyl Acetate
9.881 Methyl tert-Amyl Ether (TAME)
11.648 trans-1,3-Dichloropropene
13.328 Tetrachloroethene
14.495 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.965 tert-Butylbenzene
18.056 n-Butylbenzene
20.226 1,2,4-Trichlorobenzene
20.403 Naphthalene
Acquisition Time (min)

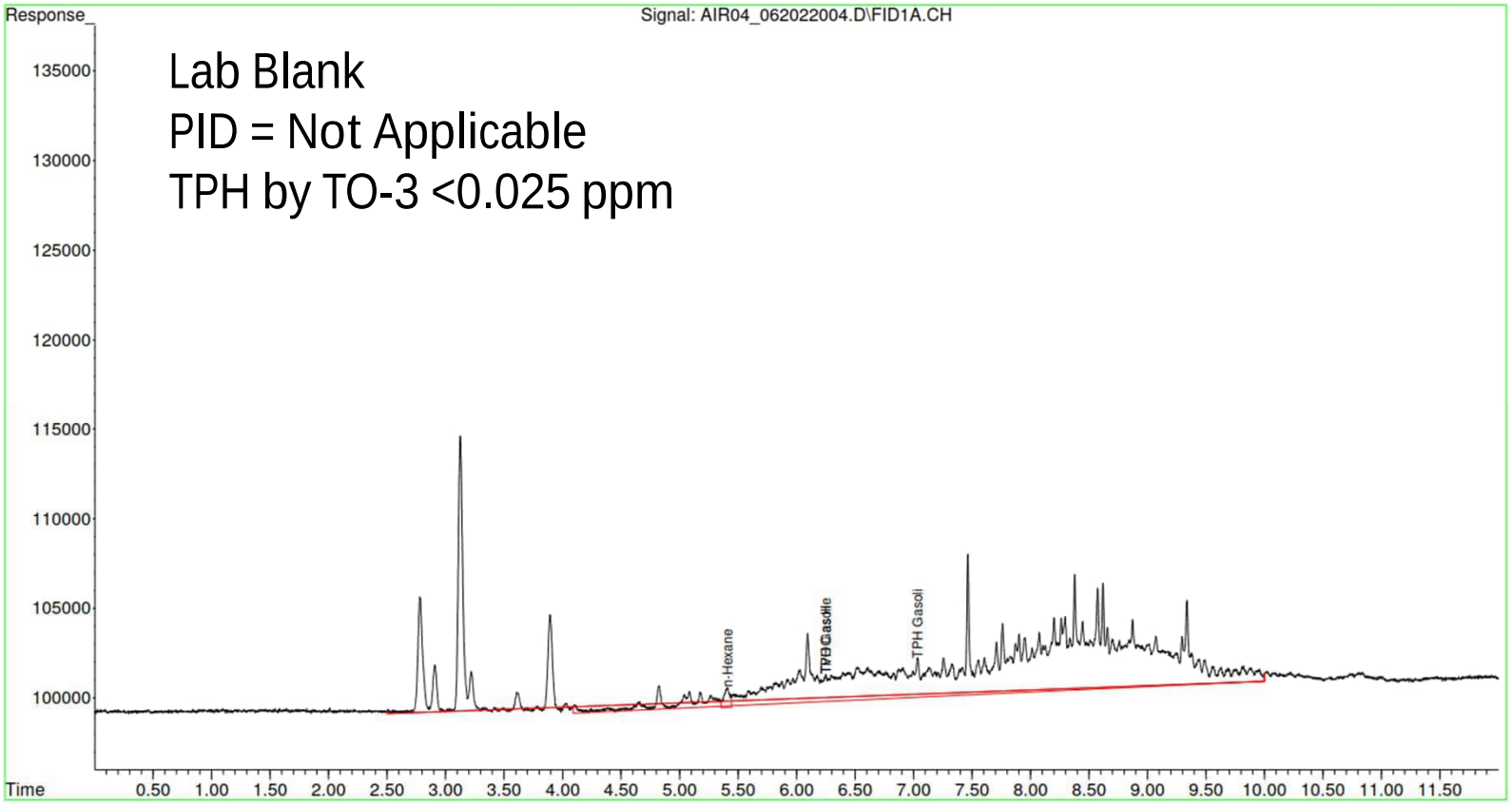

+ TIC-B Scan Air08_062222017.D (464523-006,291647,2x,PDF:1,C10679)
SV18D (15 Jun 2022) – PID = 8,955 ppb
Counts
x10^6
3.938 Chloromethane
5.531 Isopropanol (IPA)
6.555 Carbon Disulfide
8.137 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
10.792 n-Heptane
12.267 1,3-Dichloropropane
13.329 Tetrachloroethene
14.500 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.960 tert-Butylbenzene
18.061 n-Butylbenzene
20.215 1,2,4-Trichlorobenzene
20.403 Naphthalene
Acquisition Time (min)

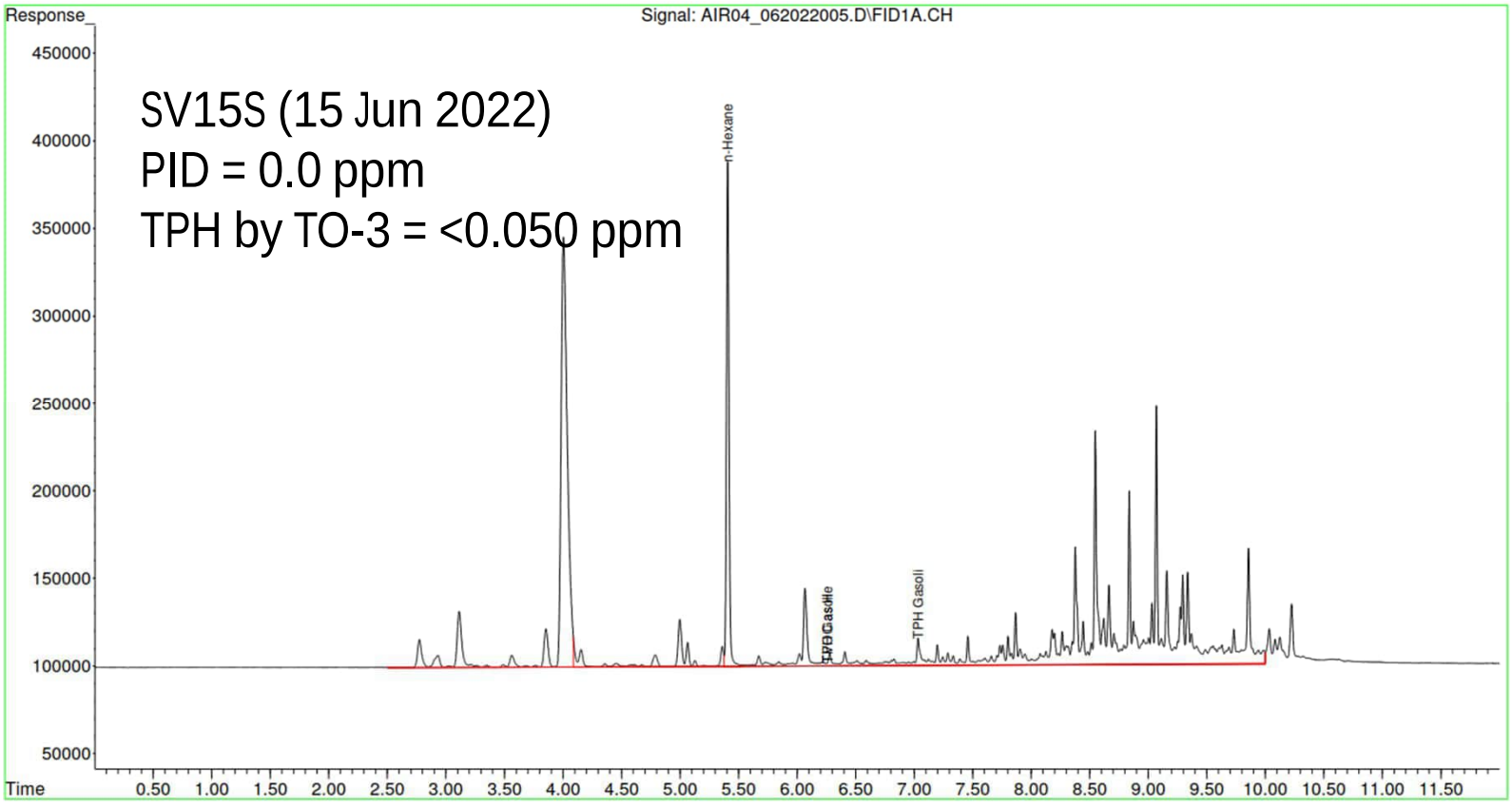

+ TIC-B Scan Air08_062222018.D (464523-007,291647,2x,PDF:1,C10202)
Counts
x10^6
SV20M (15 Jun 2022) – PID = 979 ppb
4.066 Acetaldehyde
5.232 Acrolein
5.528 Isopropanol (IPA)
7.109 trans-1,2-Dichloroethene
8.141 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
10.795 n-Heptane
12.267 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.309 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

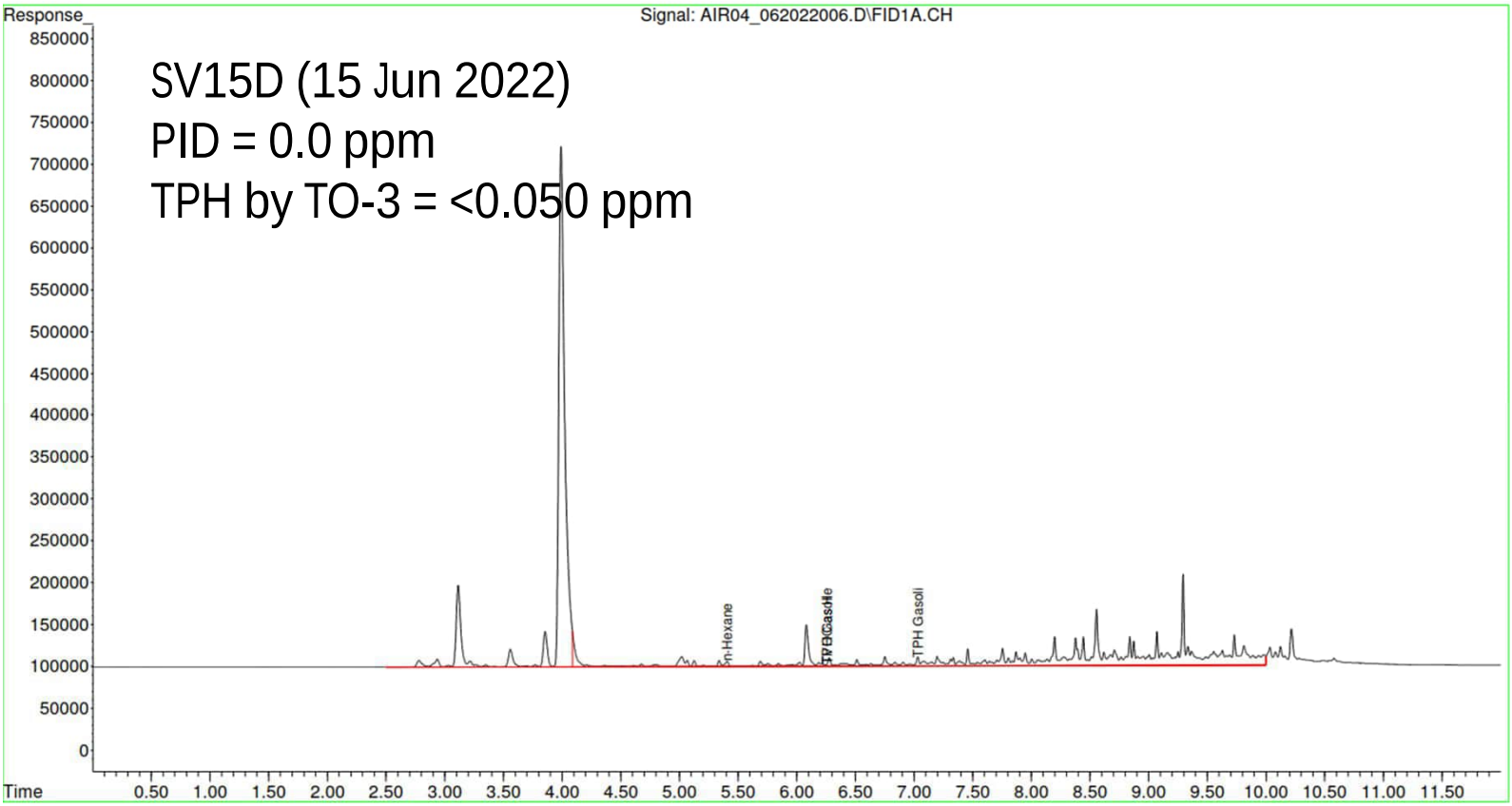

+ TIC-B Scan Air08_062222019.D (464523-008,291647,2x,PDF:1,C10203)
Counts
x10^6
SV20D (15 Jun 2022) – PID = 1,233 ppb
4.066 Acetaldehyde
5.524 Isopropanol (IPA)
7.105 trans-1,2-Dichloroethene
8.137 Ethyl Acetate
9.877 Cyclohexane
11.652 trans-1,3-Dichloropropene
13.985 Benzene, chloro-
15.000 o-Xylene
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.304 Benzyl chloride
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

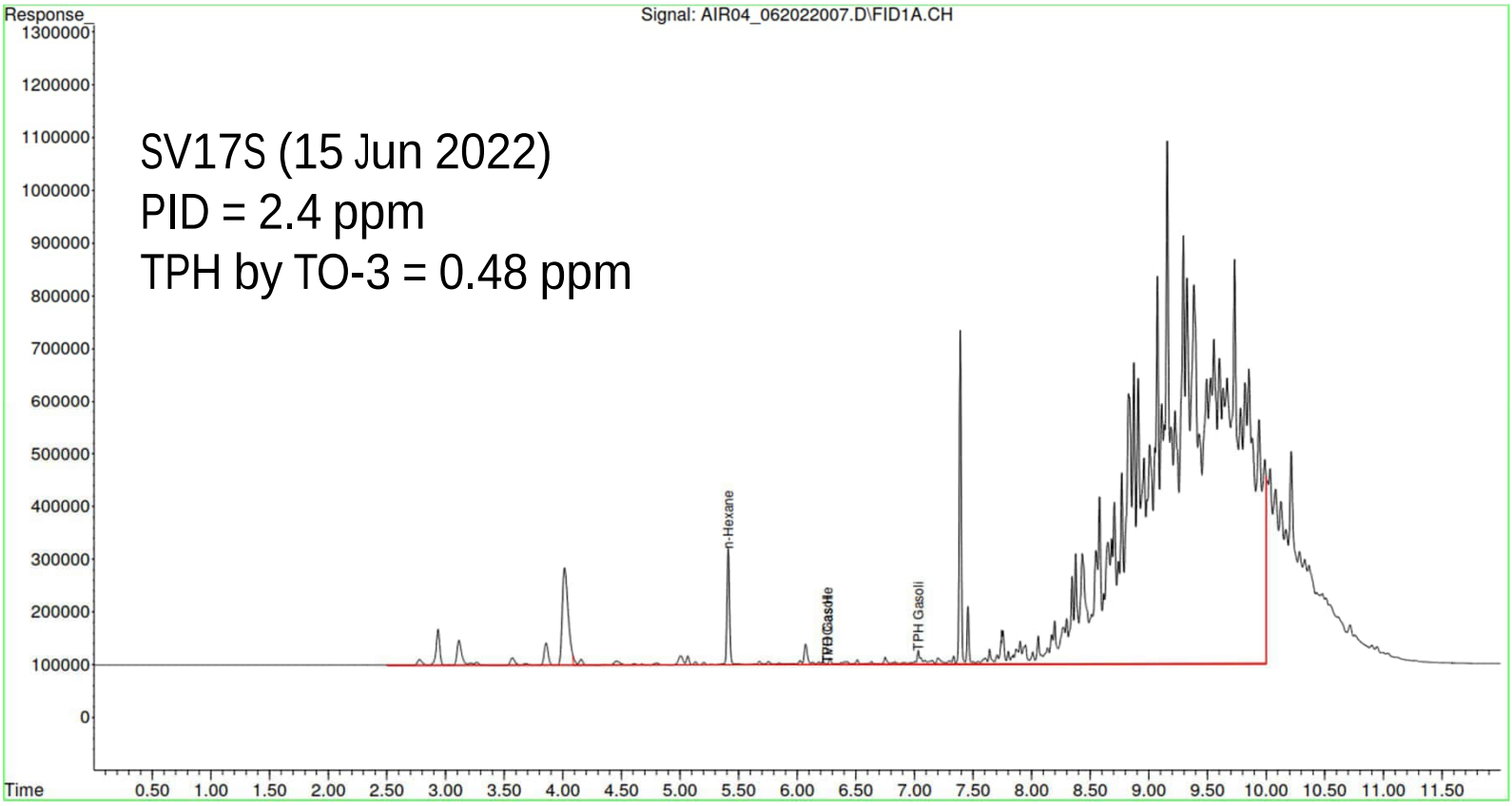
June 2022
Soil Vapor Samples

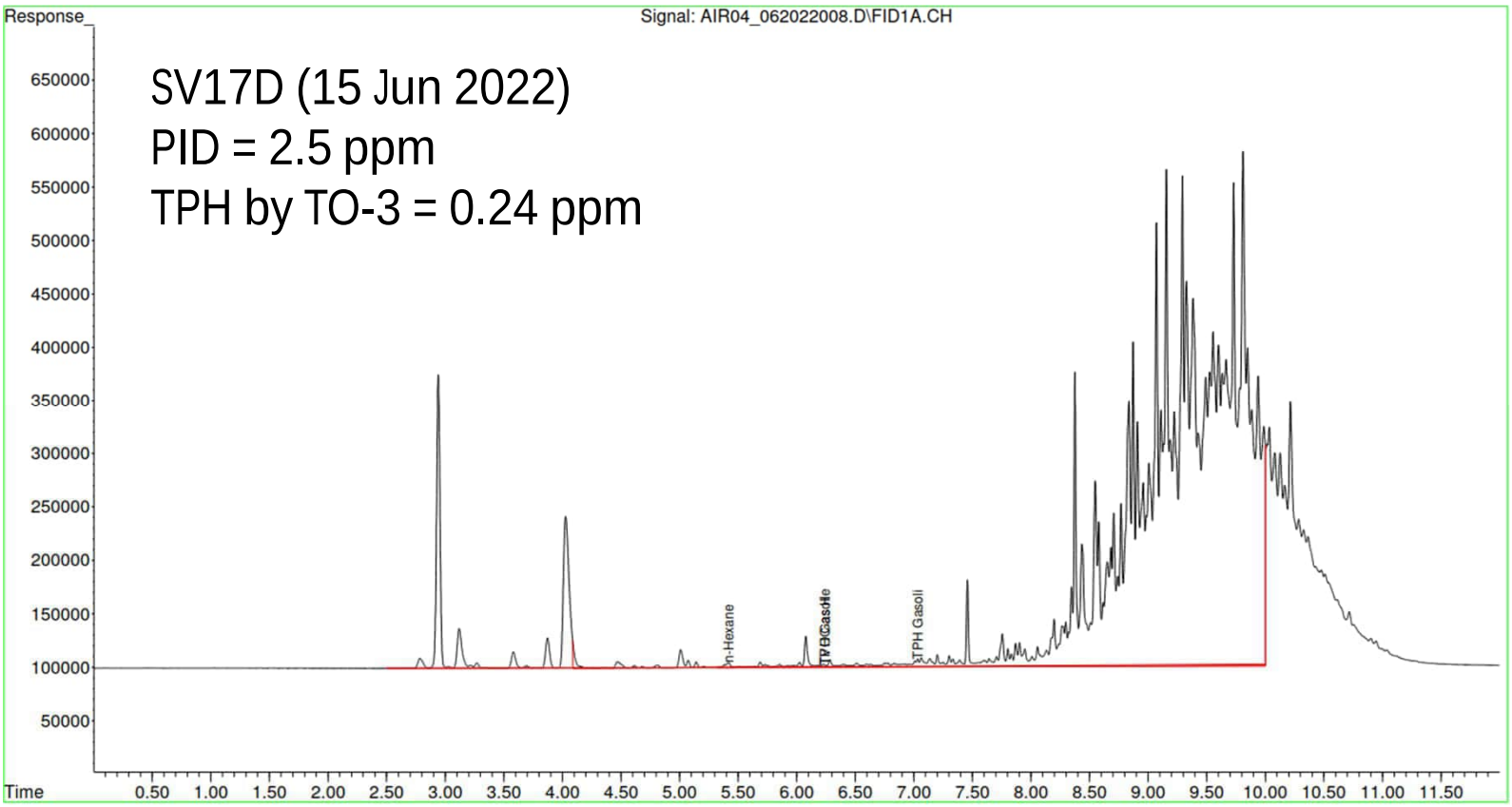
FID Chromatograms

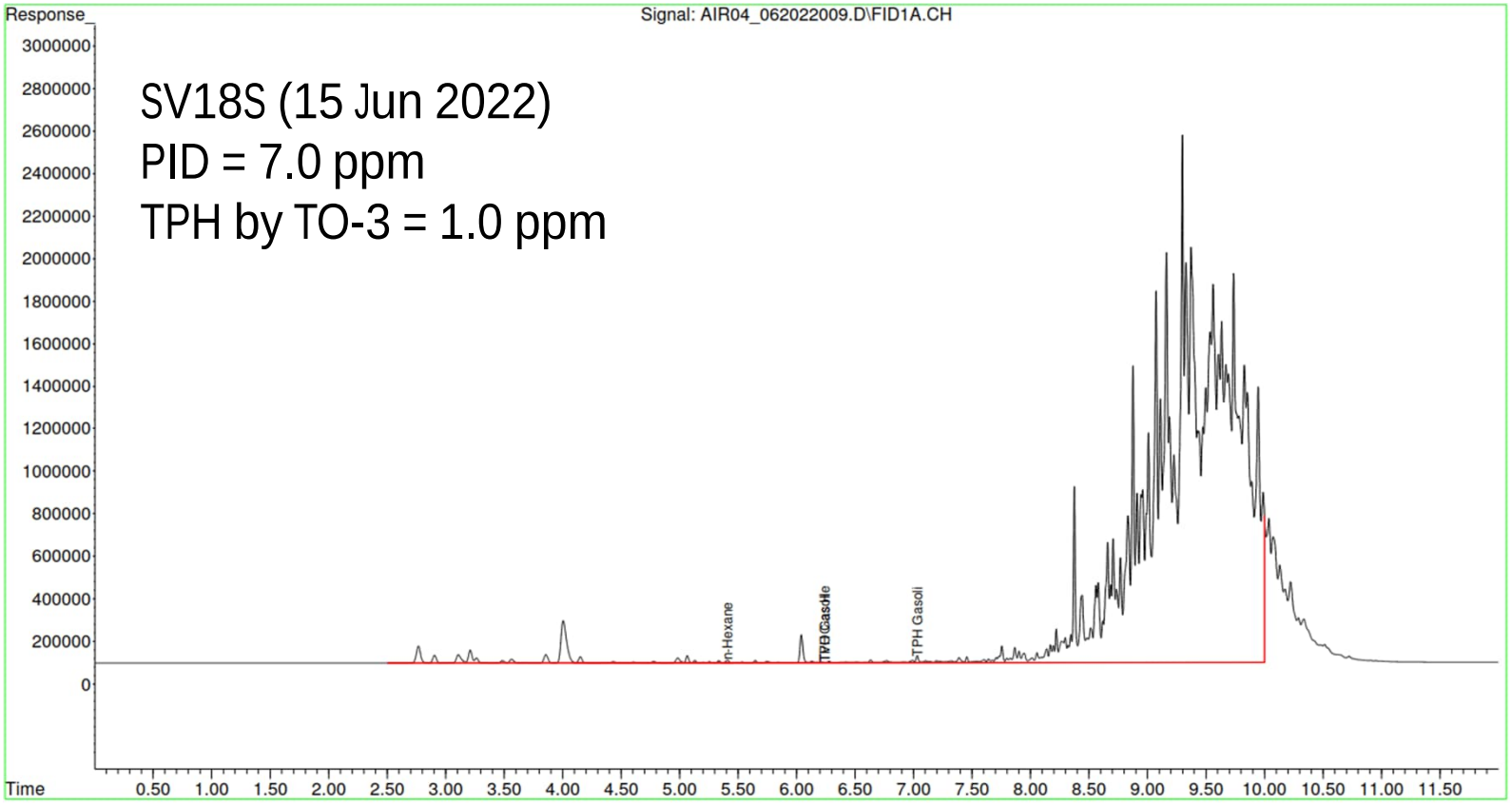

Response_
Signal: AIR04_062022004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
135000
130000
125000
120000
115000
110000
105000
100000
n-Hexane
TPH Gasoline
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

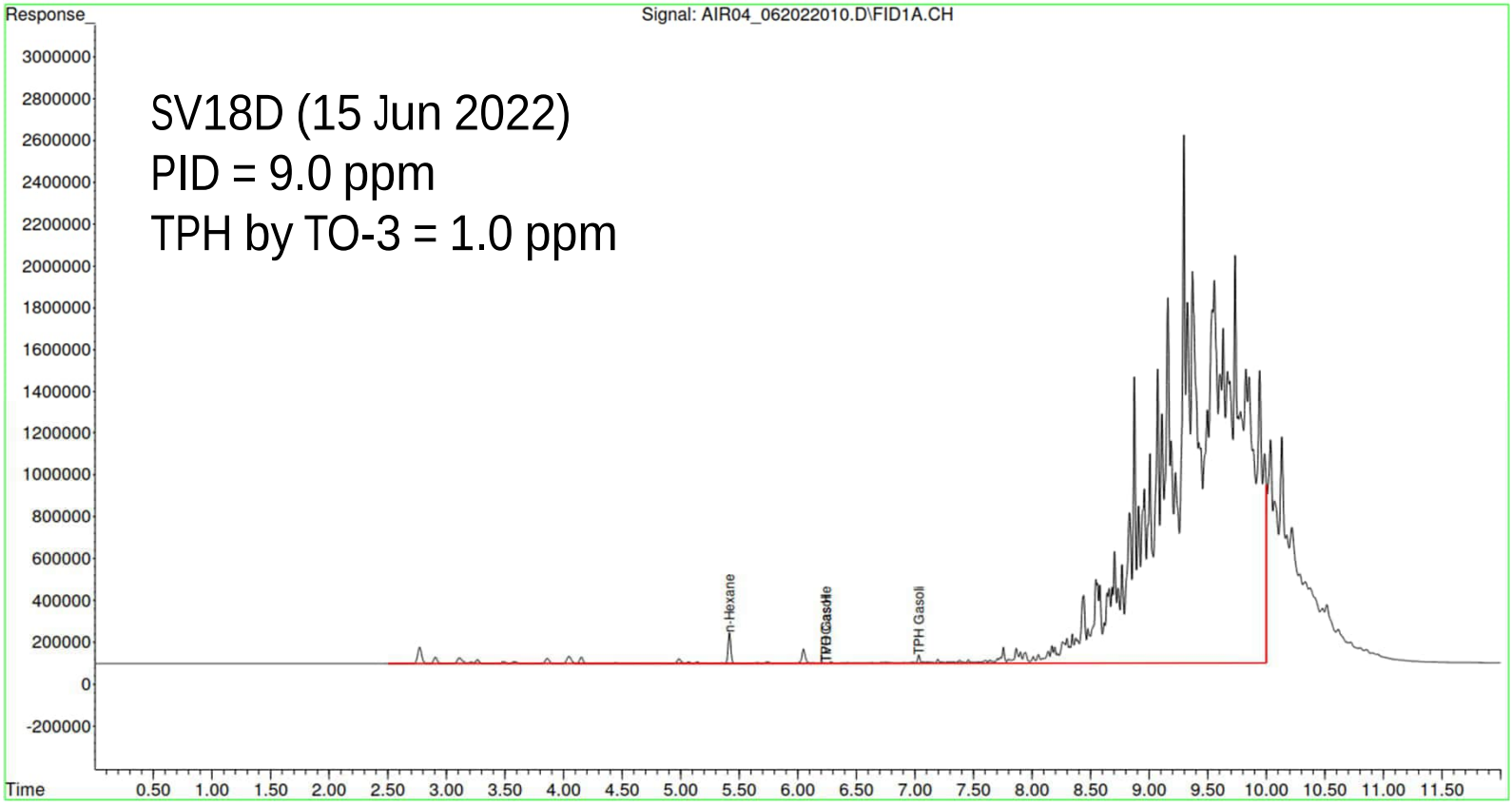

Response_
Signal: AIR04_062022005.D\FID1A.CH
SV15S (15 Jun 2022)
PID = 0.0 ppm
TPH by TO-3 = <0.050 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
n-Hexane
TPH Gasoline
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

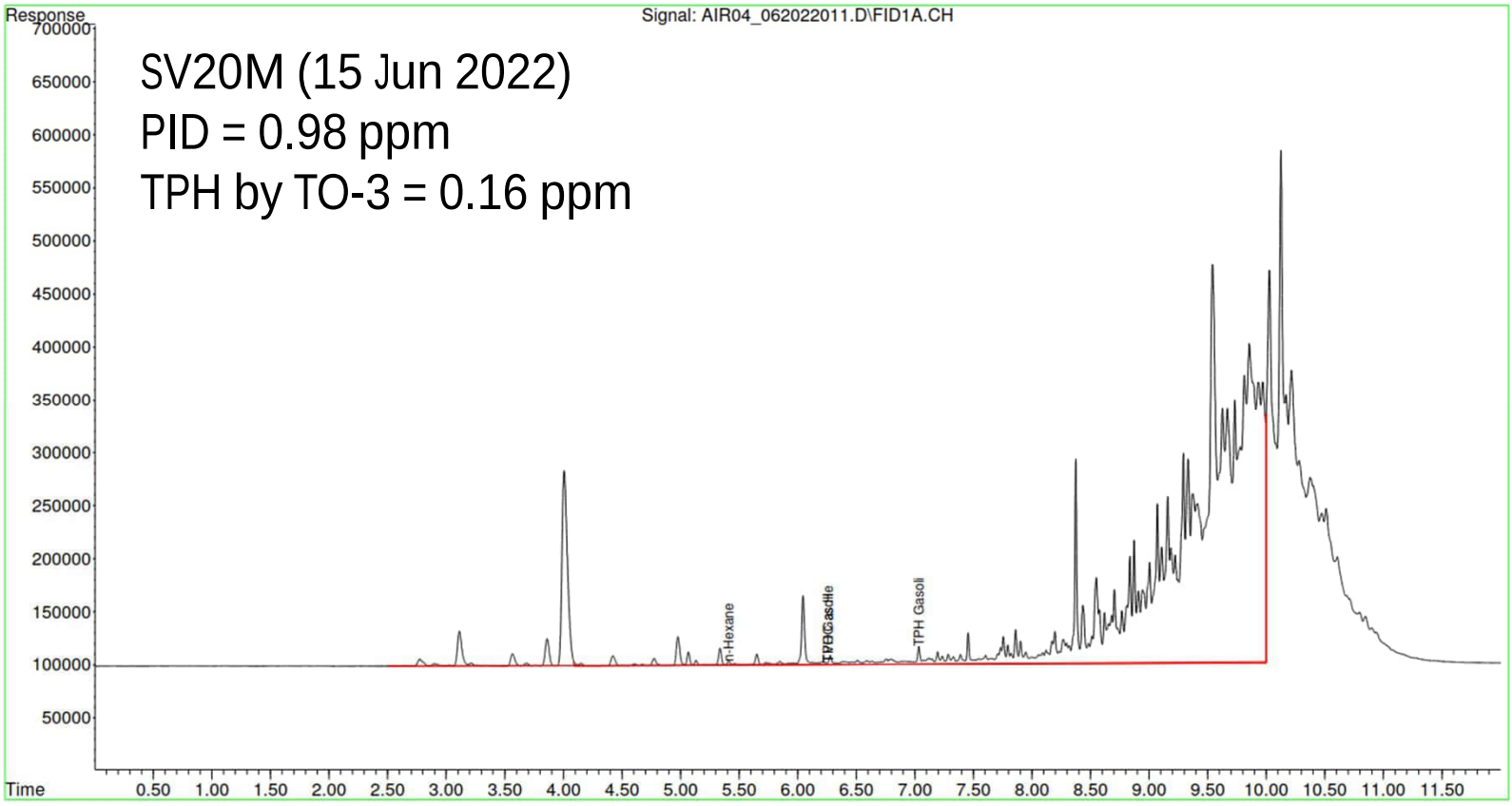

Response_
Signal: AIR04_062022006.D\FID1A.CH
SV15D (15 Jun 2022)
PID = 0.0 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoli
Time

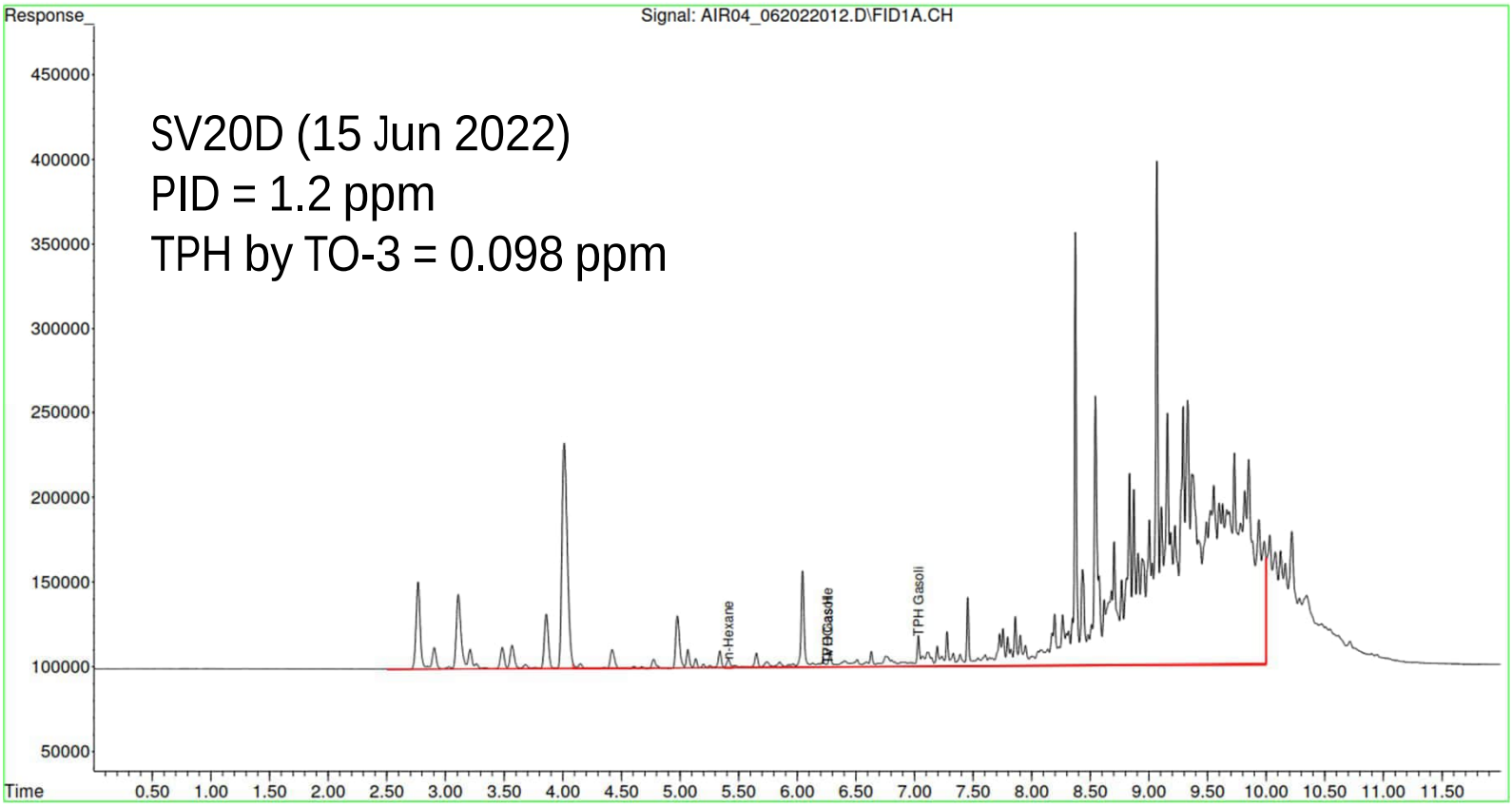

Response_
Signal: AIR04_062022007.D\FID1A.CH
SV17S (15 Jun 2022)
PID = 2.4 ppm
TPH by TO-3 = 0.48 ppm
n-Hexane
TPH Gasoli
Time


Response_
Signal: AIR04_062022008.D\FID1A.CH
SV17D (15 Jun 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.24 ppm
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_062022009.D\FID1A.CH
SV18S (15 Jun 2022)
PID = 7.0 ppm
TPH by TO-3 = 1.0 ppm
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

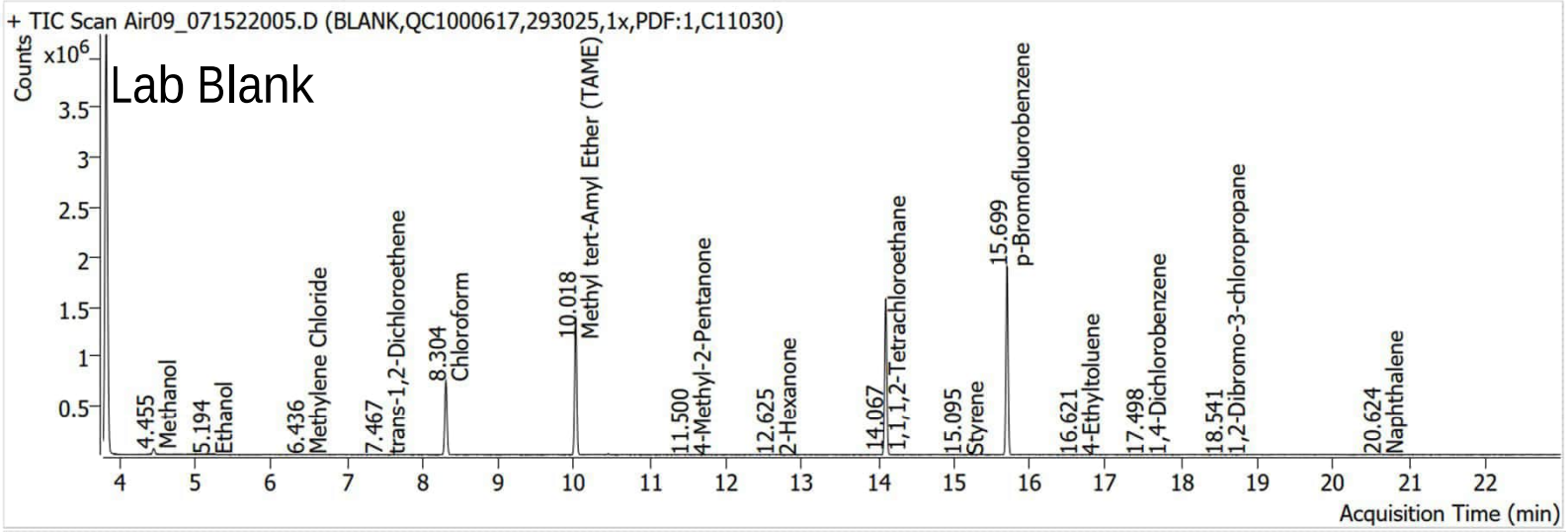

Response_
Signal: AIR04_062022010.D\FID1A.CH
SV18D (15 Jun 2022)
PID = 9.0 ppm
TPH by TO-3 = 1.0 ppm
n-Hexane
TPH Gasoli
Time

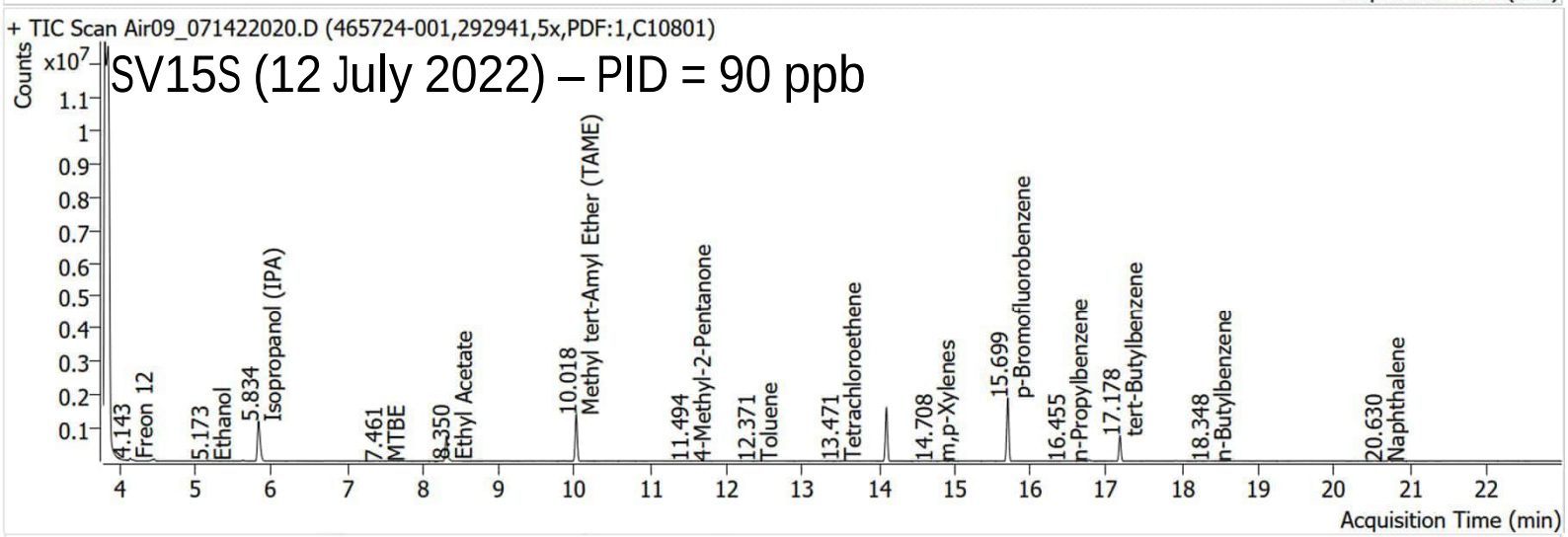

Response
Signal: AIR04_062022011.D\FID1A.CH
SV20M (15 Jun 2022)
PID = 0.98 ppm
TPH by TO-3 = 0.16 ppm
n-Hexane
TPH Gasoli
Time

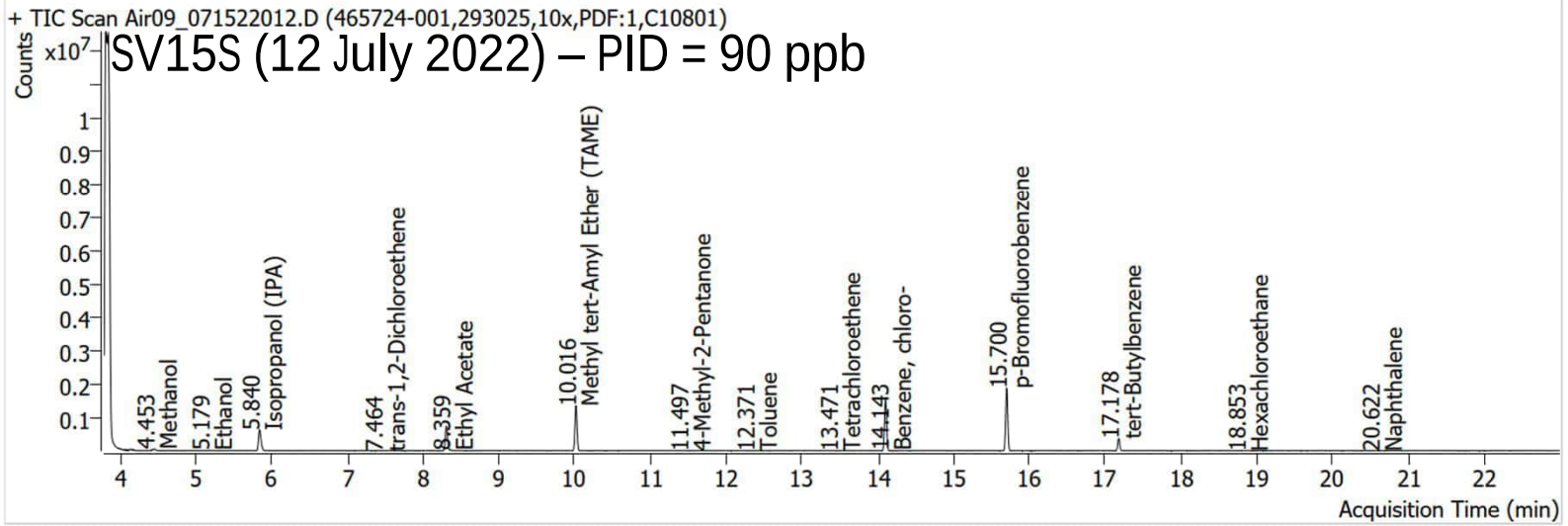

Response_
Signal: AIR04_062022012.D\FID1A.CH
SV20D (15 Jun 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.098 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

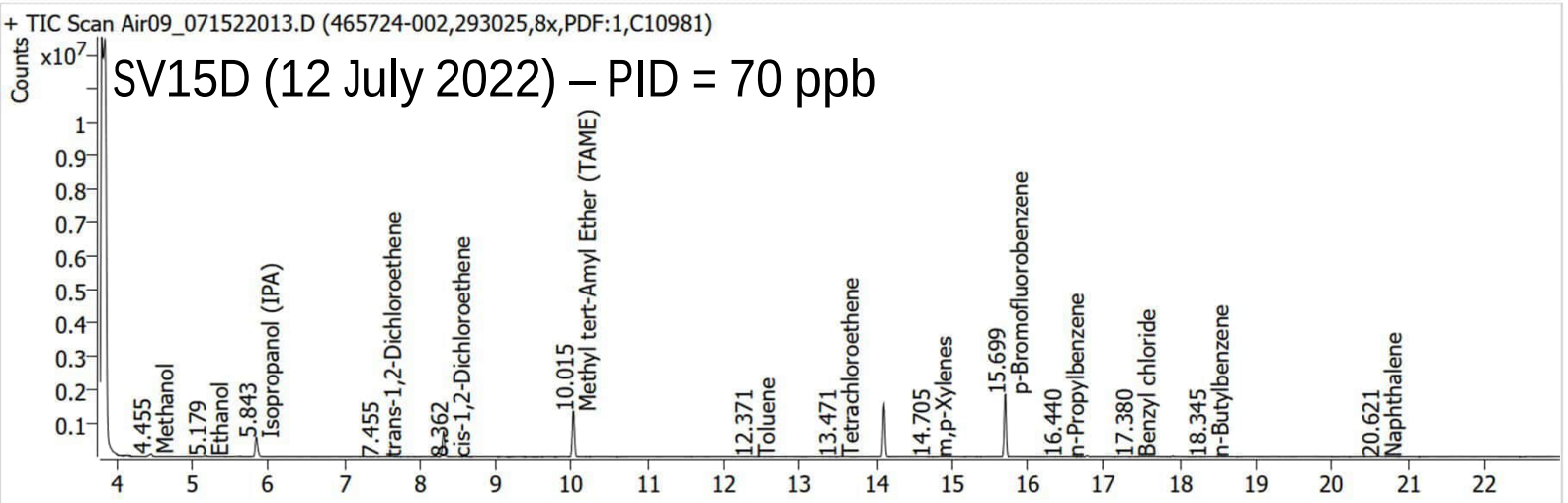
July 2022
Soil Vapor Samples

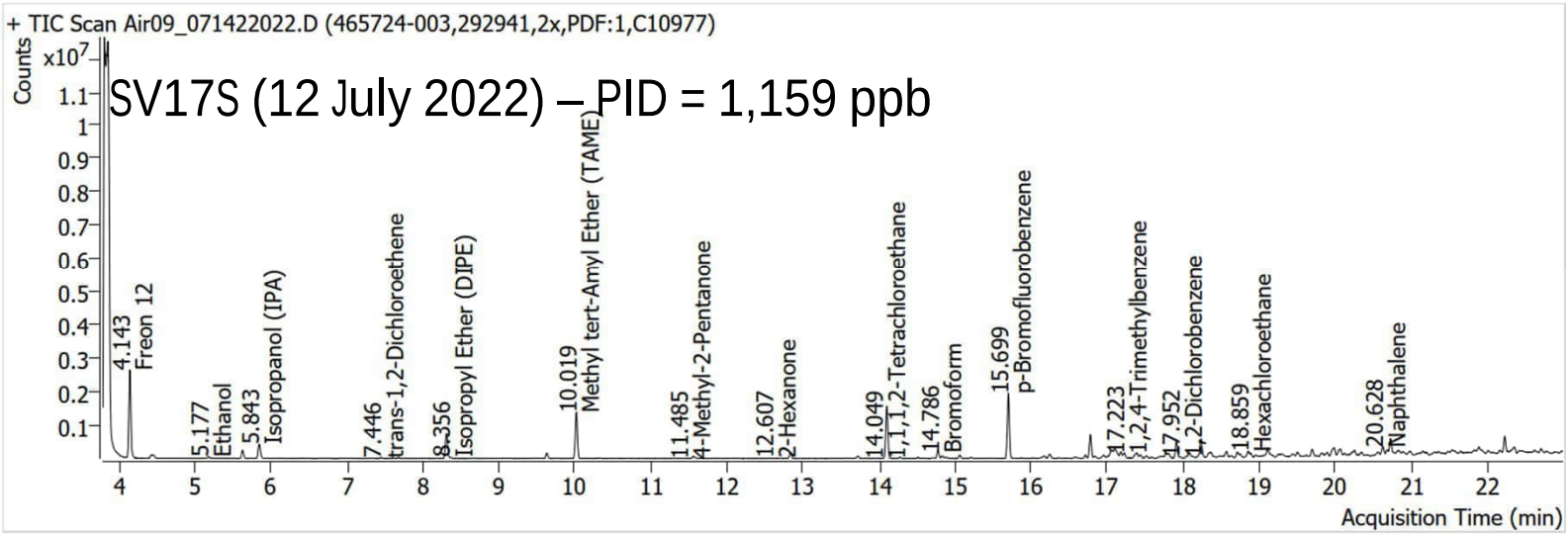
Mass Spec Chromatograms

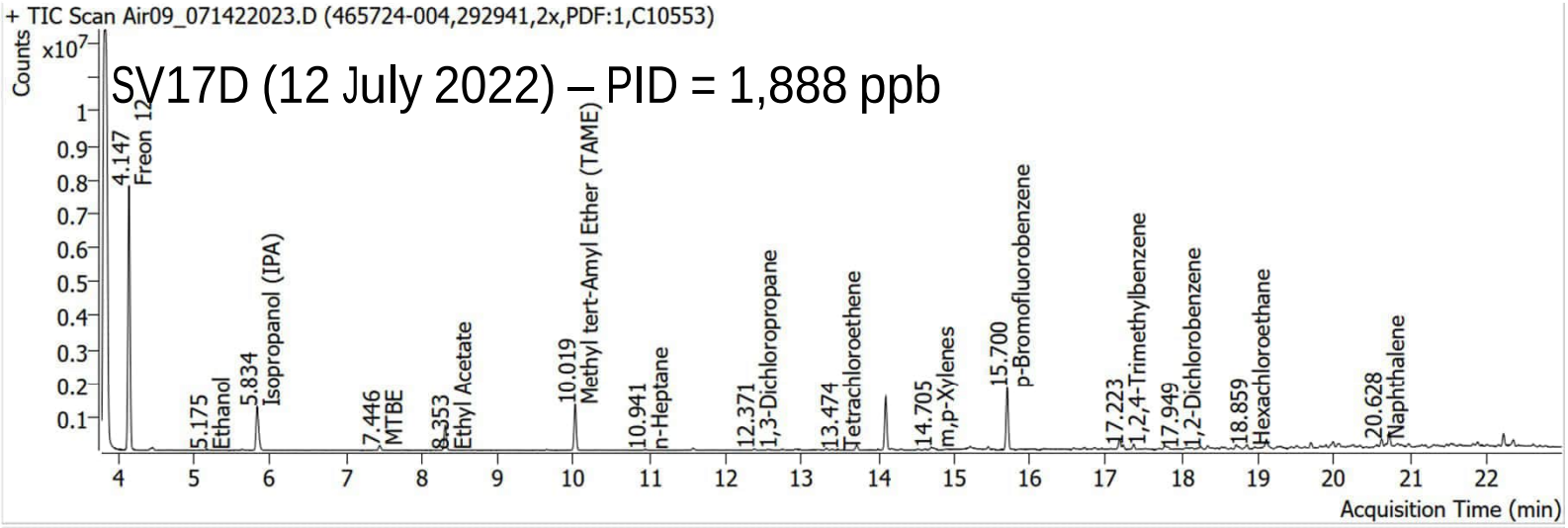

+ TIC Scan Air09_071522005.D (BLANK,QC1000617,293025,1x,PDF:1,C11030)
Lab Blank
Counts
x10^6
4.455 Methanol
5.194 Ethanol
6.436 Methylene Chloride
7.467 trans-1,2-Dichloroethene
8.304 Chloroform
10.018 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.625 2-Hexanone
14.067 1,1,1,2-Tetrachloroethane
15.095 Styrene
15.699 p-Bromofluorobenzene
16.621 4-Ethyltoluene
17.498 1,4-Dichlorobenzene
18.541 1,2-Dibromo-3-chloropropane
20.624 Naphthalene
Acquisition Time (min)

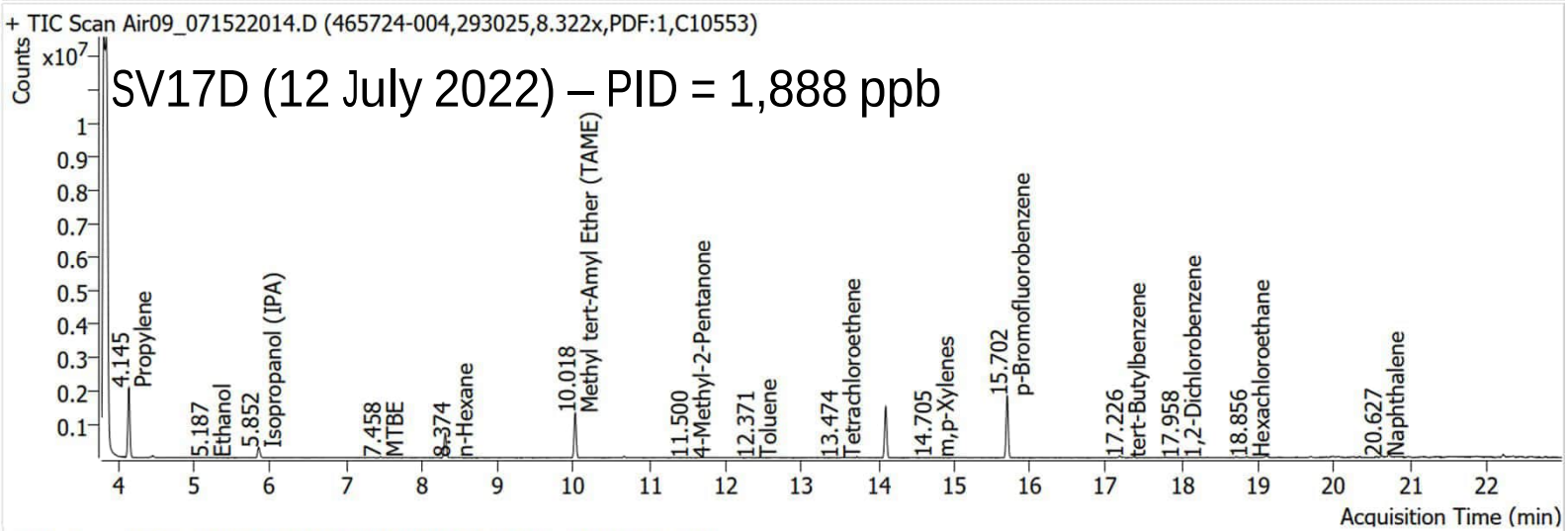

+ TIC Scan Air09_071422020.D (465724-001,292941,5x,PDF:1,C10801)
SV15S (12 July 2022) – PID = 90 ppb
Counts
x10^7
4.143 Freon 12
5.173 Ethanol
5.834 Isopropanol (IPA)
7.461 MTBE
8.350 Ethyl Acetate
10.018 Methyl tert-Amyl Ether (TAME)
11.494 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.708 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.455 n-Propylbenzene
17.178 tert-Butylbenzene
18.348 n-Butylbenzene
20.630 Naphthalene
Acquisition Time (min)

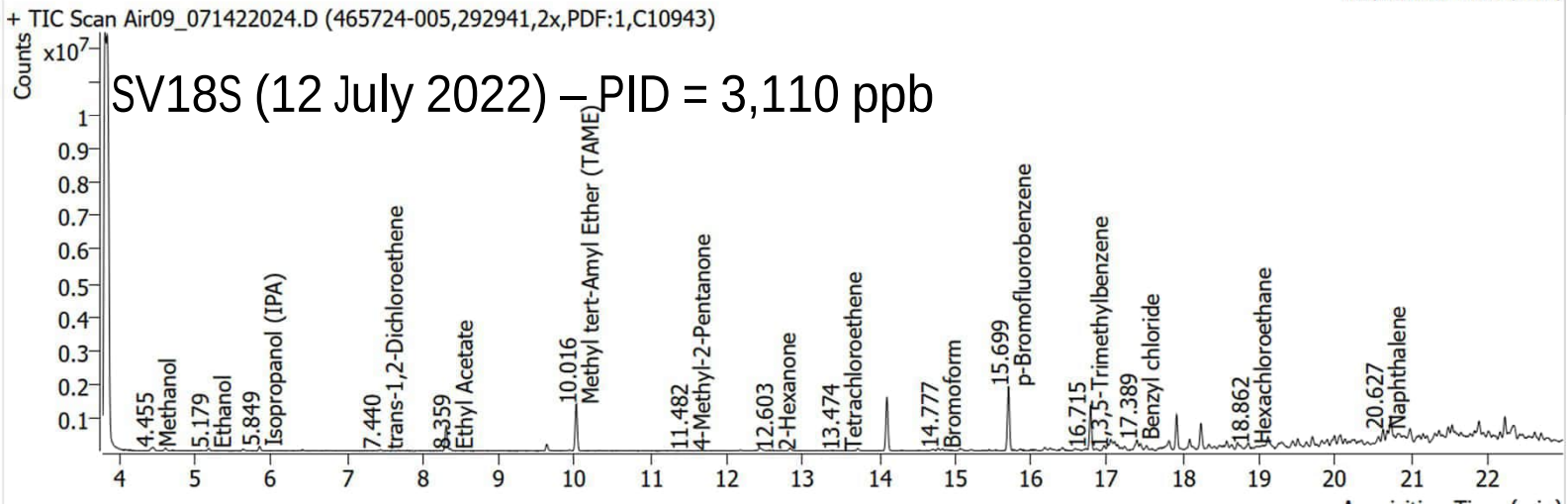

+ TIC Scan Air09_071522012.D (465724-001,293025,10x,PDF:1,C10801)
SV15S (12 July 2022) – PID = 90 ppb
Counts
x10^7
4.453 Methanol
5.179 Ethanol
5.840 Isopropanol (IPA)
7.464 trans-1,2-Dichloroethene
8.359 Ethyl Acetate
10.016 Methyl tert-Amyl Ether (TAME)
11.497 4-Methyl-2-Pentanone
12.371 Toluene
13.471 Tetrachloroethene
14.143 Benzene, chloro-
15.700 p-Bromofluorobenzene
17.178 tert-Butylbenzene
18.853 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)

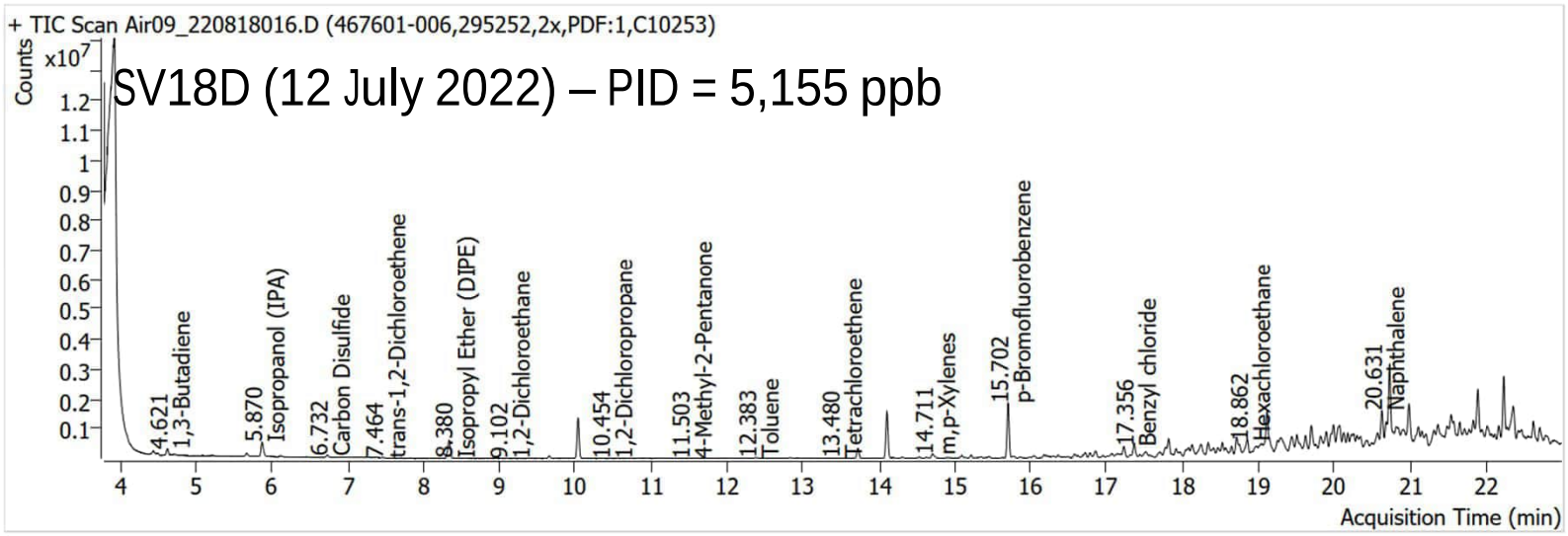

+ TIC Scan Air09_071522013.D (465724-002,293025,8x,PDF:1,C10981)
SV15D (12 July 2022) – PID = 70 ppb
Counts
x10^7
4.455 Methanol
5.179 Ethanol
5.843 Isopropanol (IPA)
7.455 trans-1,2-Dichloroethene
8.362 cis-1,2-Dichloroethene
10.015 Methyl tert-Amyl Ether (TAME)
12.371 Toluene
13.471 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
16.440 n-Propylbenzene
17.380 Benzyl chloride
18.345 n-Butylbenzene
20.621 Naphthalene

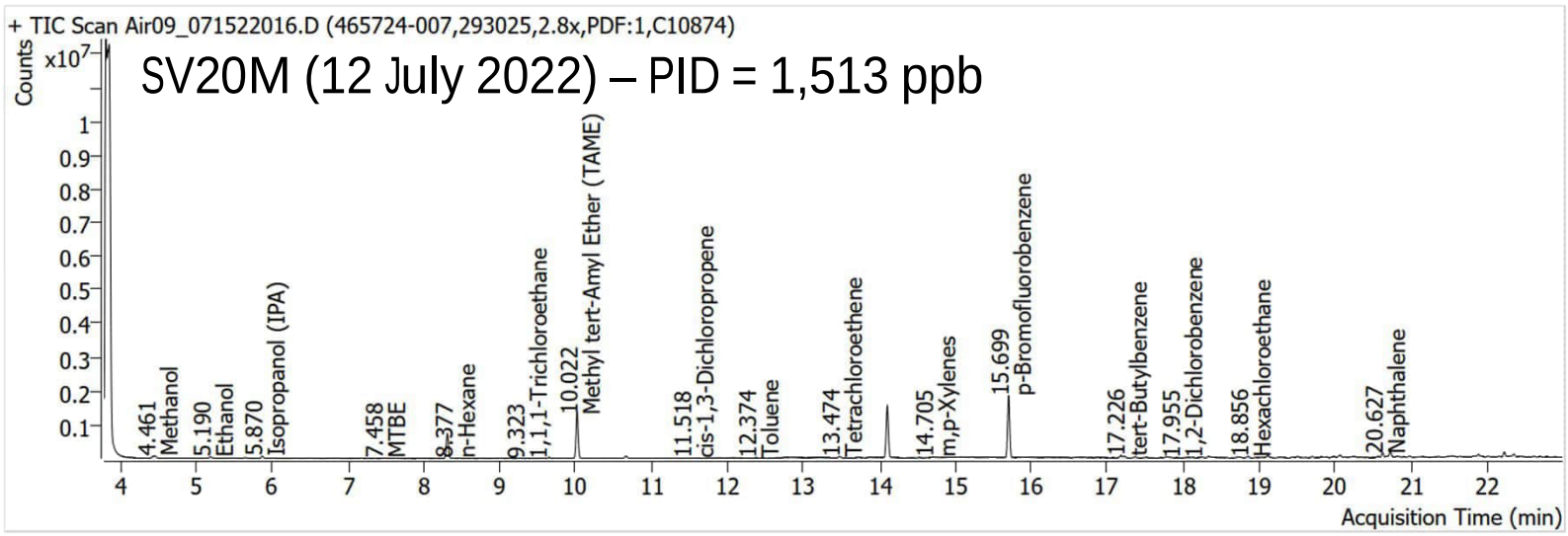

+ TIC Scan Air09_071422022.D (465724-003,292941,2x,PDF:1,C10977)
SV17S (12 July 2022) – PID = 1,159 ppb
Counts
x10^7
4.143 Freon 12
5.177 Ethanol
5.843 Isopropanol (IPA)
7.446 trans-1,2-Dichloroethene
8.356 Isopropyl Ether (DIPE)
10.019 Methyl tert-Amyl Ether (TAME)
11.485 4-Methyl-2-Pentanone
12.607 2-Hexanone
14.049 1,1,1,2-Tetrachloroethane
14.786 Bromoform
15.699 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.952 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)

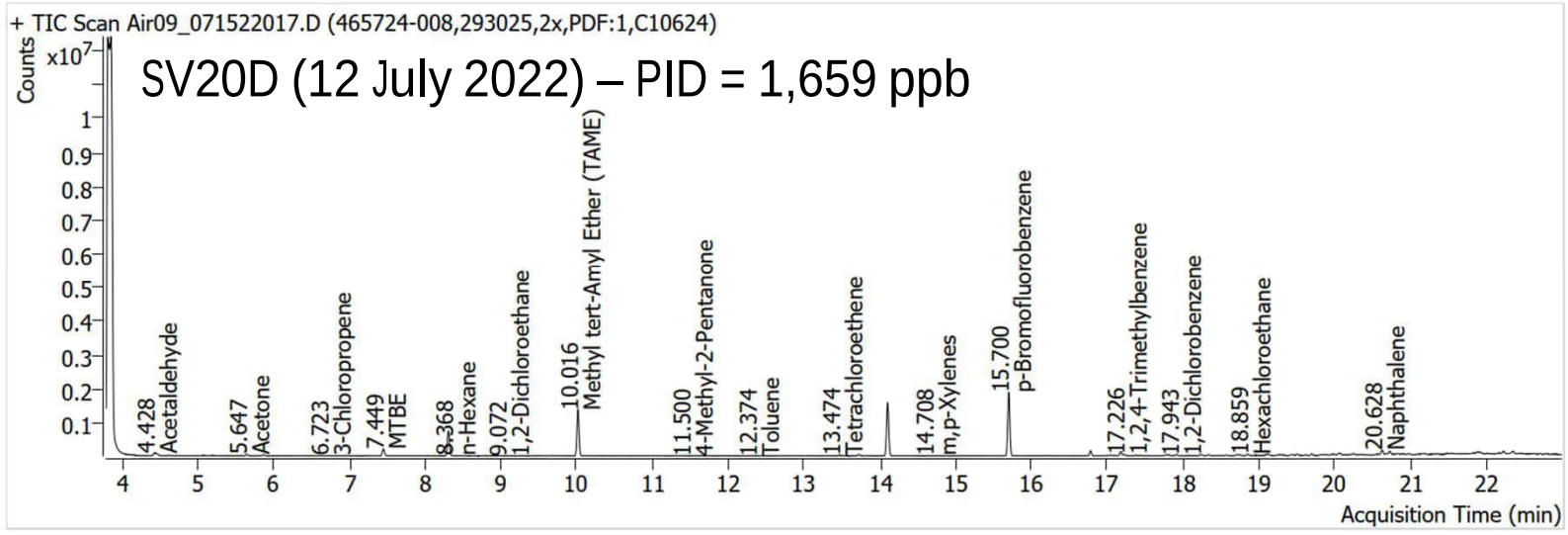

+ TIC Scan Air09_071422023.D (465724-004,292941,2x,PDF:1,C10553)
SV17D (12 July 2022) – PID = 1,888 ppb
Counts
x10^7
4.147 Freon 12
5.175 Ethanol
5.834 Isopropanol (IPA)
7.446 MTBE
8.353 Ethyl Acetate
10.019 Methyl tert-Amyl Ether (TAME)
10.941 n-Heptane
12.371 1,3-Dichloropropane
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_071522014.D (465724-004,293025,8.322x,PDF:1,C10553)
SV17D (12 July 2022) – PID = 1,888 ppb
Counts
x10^7
4.145 Propylene
5.187 Ethanol
5.852 Isopropanol (IPA)
7.458 MTBE
8.374 n-Hexane
10.018 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.371 Toluene
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.958 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.627 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_071422024.D (465724-005,292941,2x,PDF:1,C10943)
SV18S (12 July 2022) – PID = 3,110 ppb
Counts
x10^7
4.455 Methanol
5.179 Ethanol
5.849 Isopropanol (IPA)
7.440 trans-1,2-Dichloroethene
8.359 Ethyl Acetate
10.016 Methyl tert-Amyl Ether (TAME)
11.482 4-Methyl-2-Pentanone
12.603 2-Hexanone
13.474 Tetrachloroethene
14.777 Bromoform
15.699 p-Bromofluorobenzene
16.715 1,3,5-Trimethylbenzene
17.389 Benzyl chloride
18.862 Hexachloroethane
20.627 Naphthalene
Acquisition Time (min)

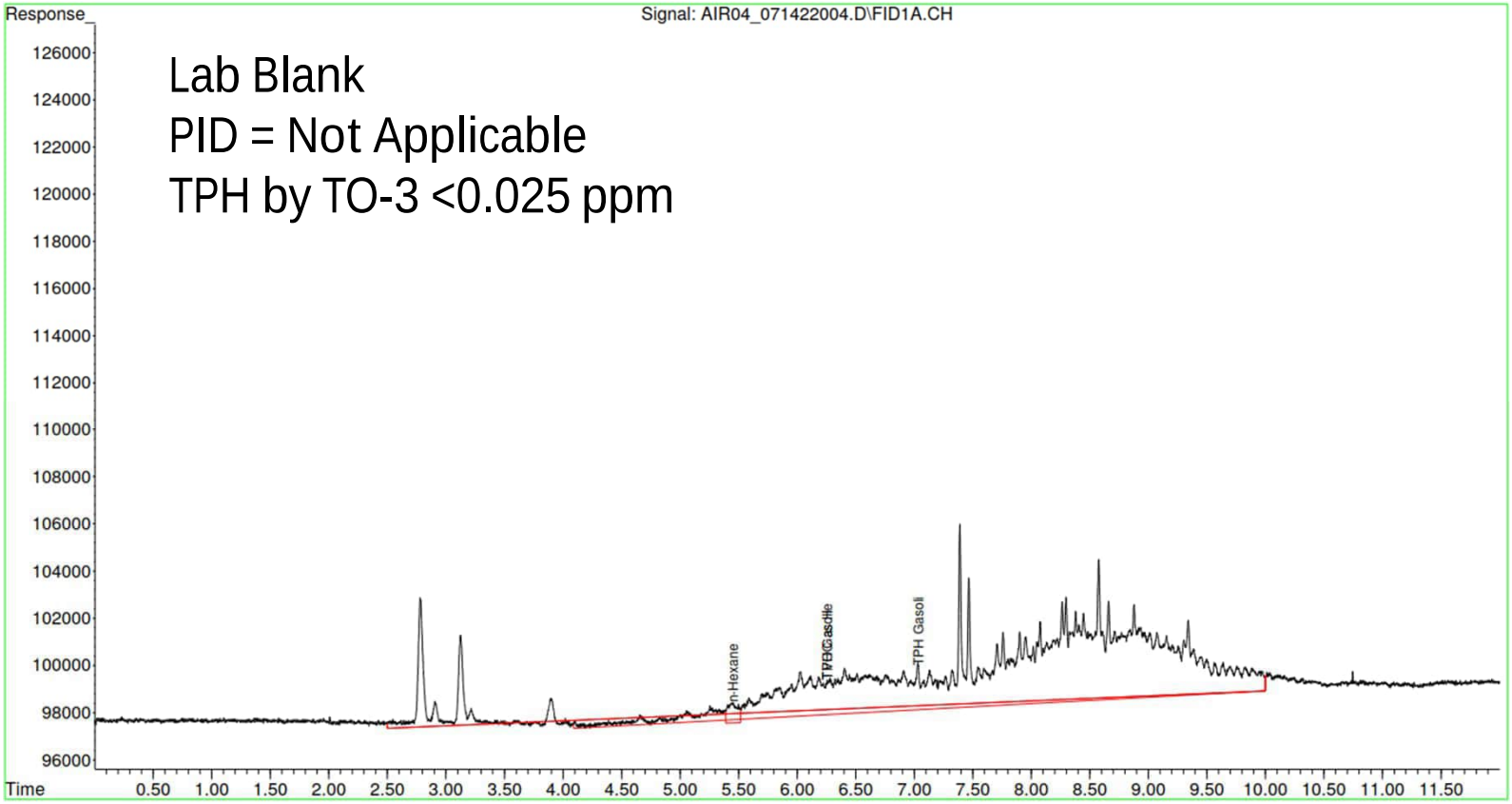

+ TIC Scan Air09_220818016.D (467601-006,295252,2x,PDF:1,C10253)
SV18D (12 July 2022) – PID = 5,155 ppb
Counts
x10^7
4.621 1,3-Butadiene
5.870 Isopropanol (IPA)
6.732 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.380 Isopropyl Ether (DIPE)
9.102 1,2-Dichloroethane
10.454 1,2-Dichloropropane
11.503 4-Methyl-2-Pentanone
12.383 Toluene
13.480 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.356 Benzyl chloride
18.862 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

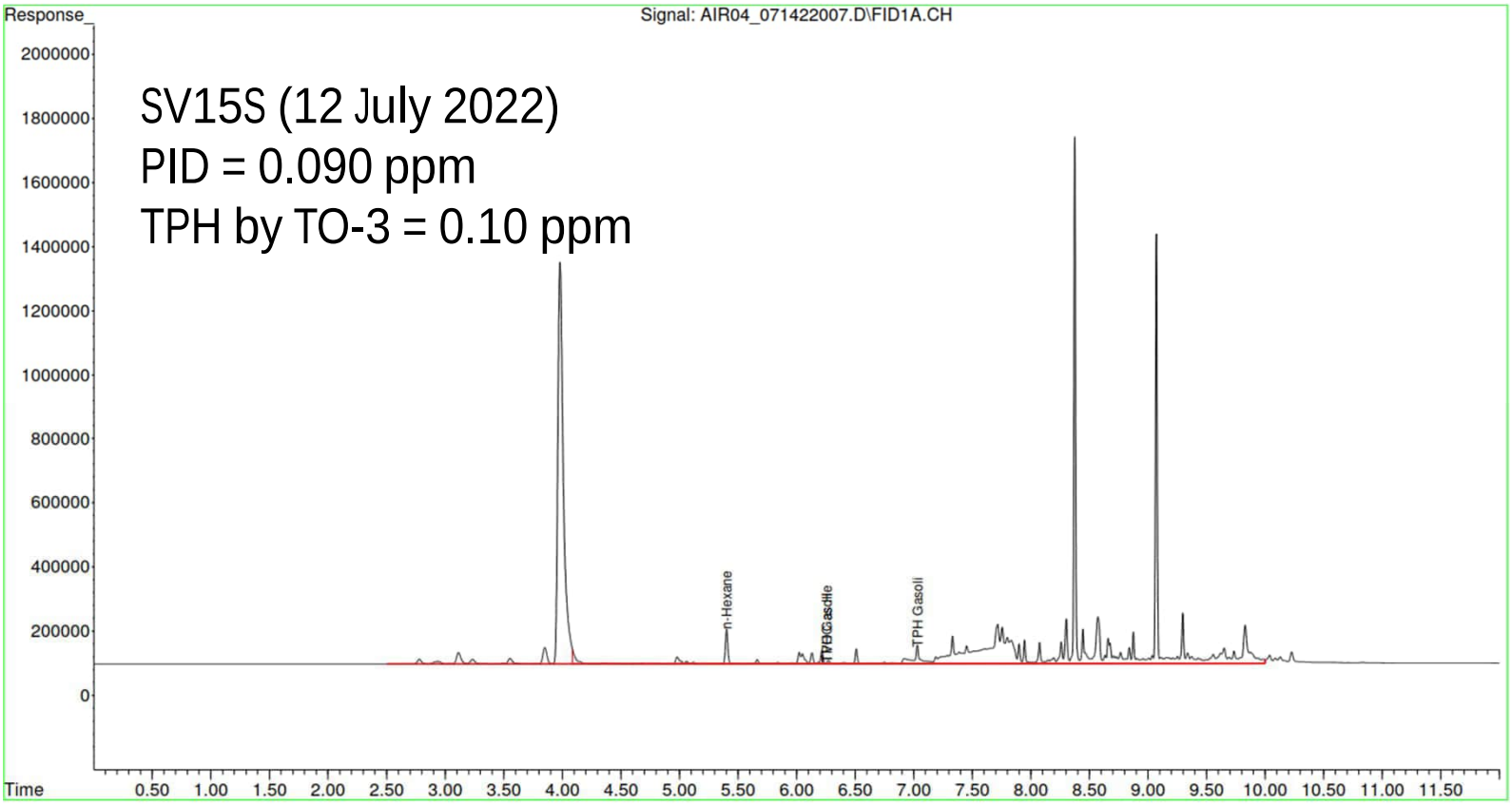

+ TIC Scan Air09_071522016.D (465724-007,293025,2.8x,PDF:1,C10874)
SV20M (12 July 2022) – PID = 1,513 ppb
Counts
x10^7
4.461 Methanol
5.190 Ethanol
5.870 Isopropanol (IPA)
7.458 MTBE
8.377 n-Hexane
9.323 1,1,1-Trichloroethane
10.022 Methyl tert-Amyl Ether (TAME)
11.518 cis-1,3-Dichloropropene
12.374 Toluene
13.474 Tetrachloroethene
14.705 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.955 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.627 Naphthalene
Acquisition Time (min)

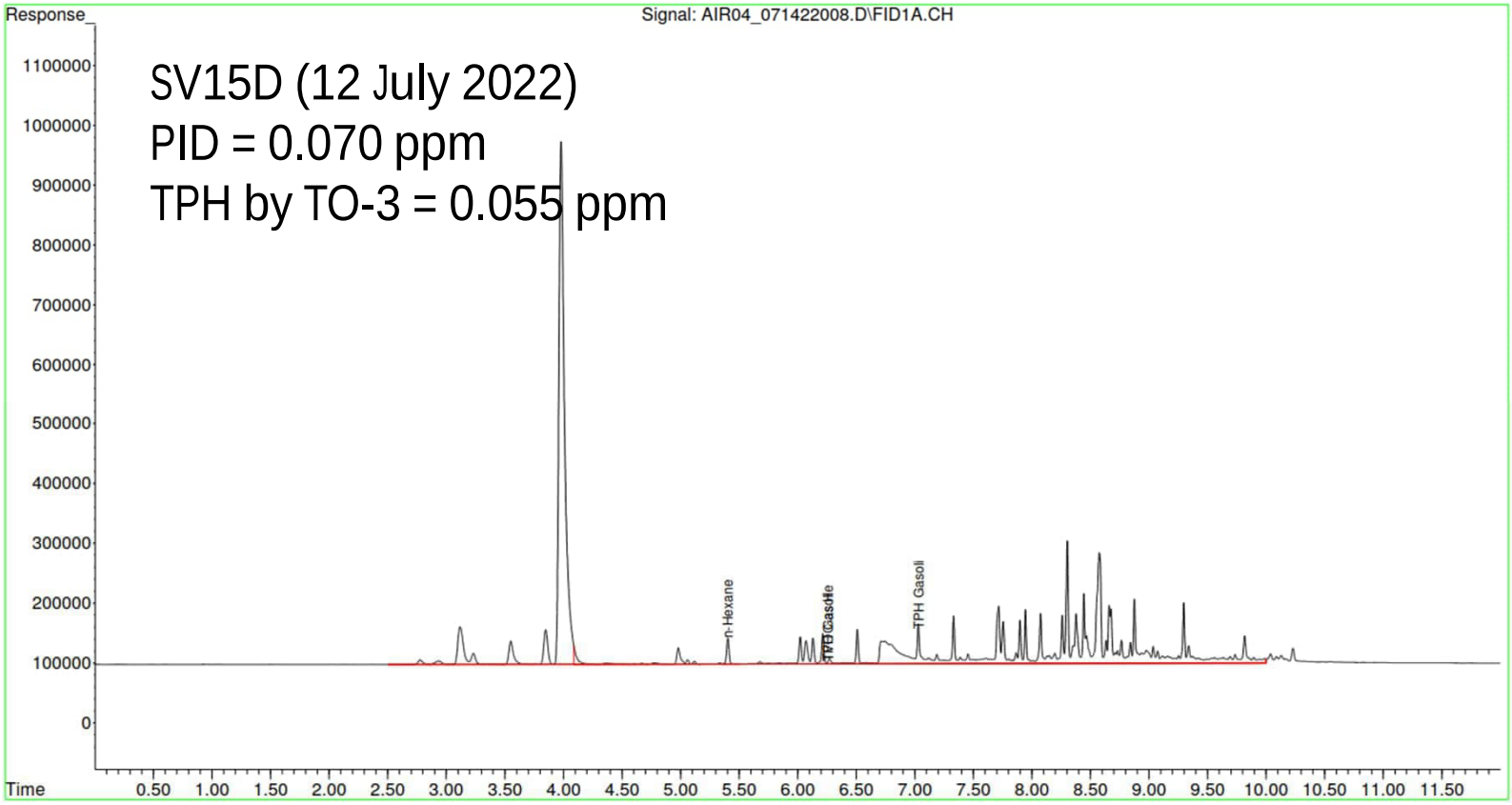

+ TIC Scan Air09_071522017.D (465724-008,293025,2x,PDF:1,C10624)
SV20D (12 July 2022) – PID = 1,659 ppb
Counts
x10^7
4.428 Acetaldehyde
5.647 Acetone
6.723 3-Chloropropene
7.449 MTBE
8.368 n-Hexane
9.072 1,2-Dichloroethane
10.016 Methyl tert-Amyl Ether (TAME)
11.500 4-Methyl-2-Pentanone
12.374 Toluene
13.474 Tetrachloroethene
14.708 m,p-Xylenes
15.700 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.943 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene
Acquisition Time (min)

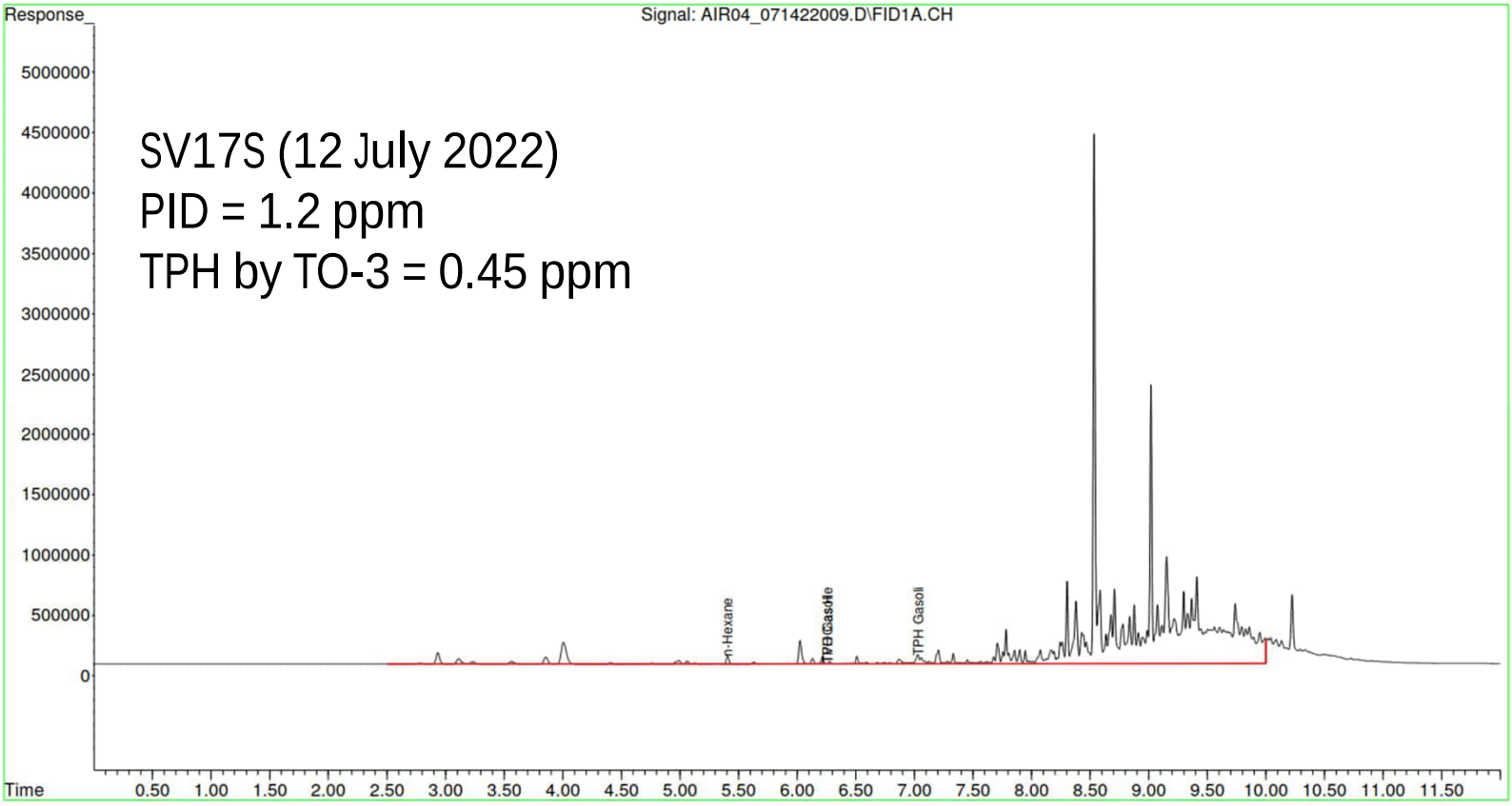
July 2022
Soil Vapor Samples

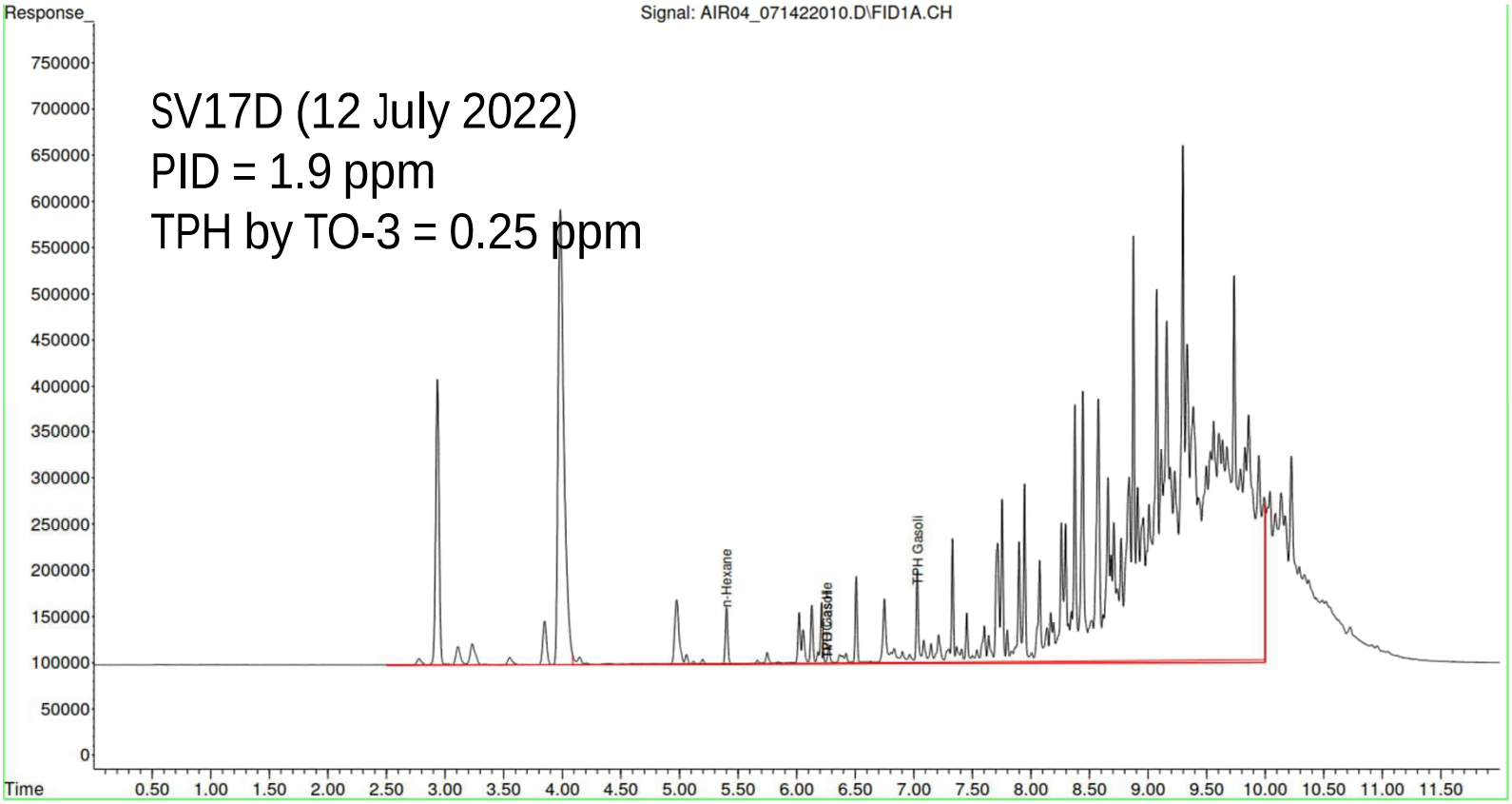
FID Chromatograms

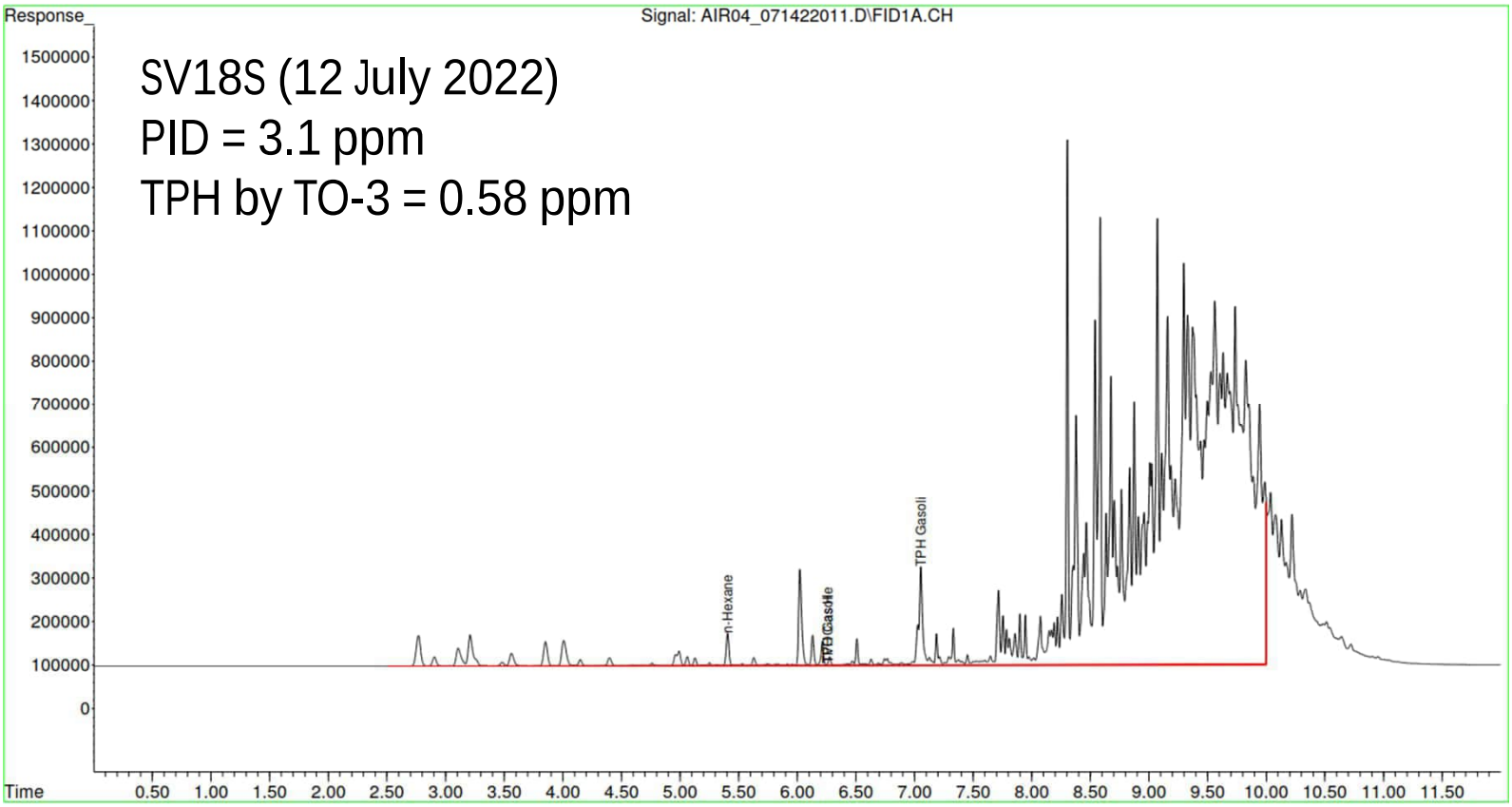

Response_
Signal: AIR04_071422004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
126000
124000
122000
120000
118000
116000
114000
112000
110000
108000
106000
104000
102000
100000
98000
96000
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

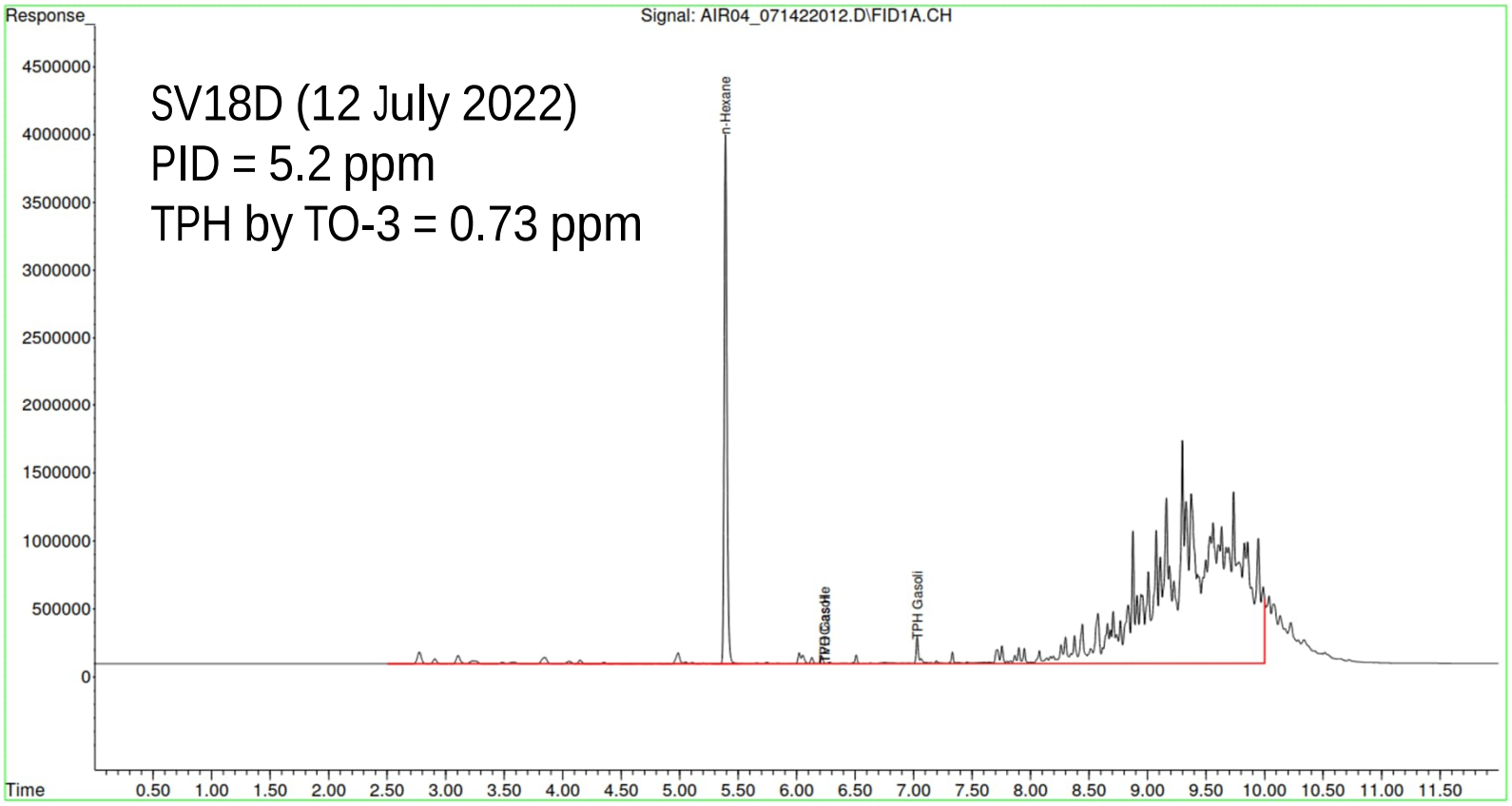

Response_
Signal: AIR04_071422007.D\FID1A.CH
SV15S (12 July 2022)
PID = 0.090 ppm
TPH by TO-3 = 0.10 ppm
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

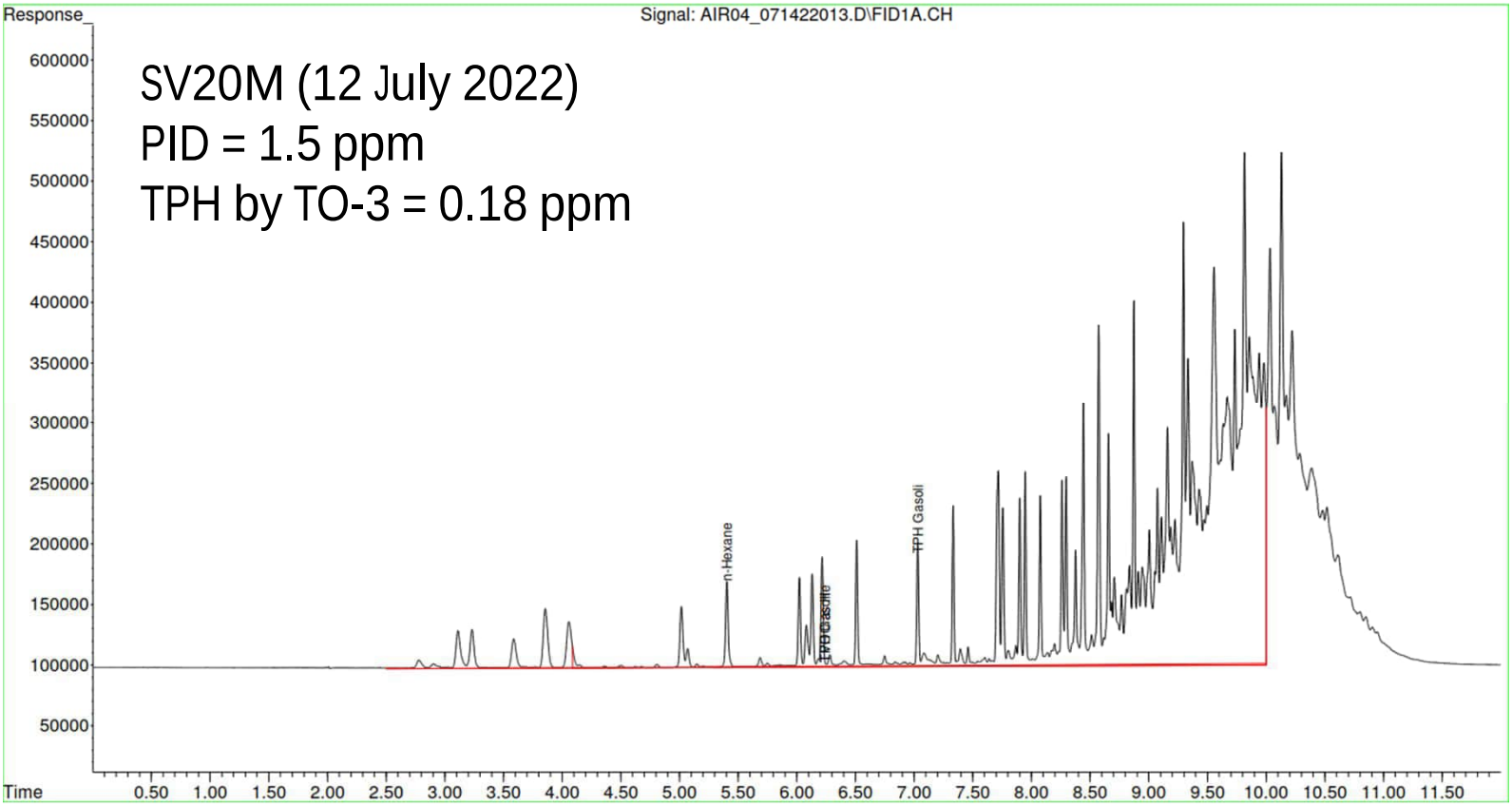

Response_
Signal: AIR04_071422008.D\FID1A.CH
SV15D (12 July 2022)
PID = 0.070 ppm
TPH by TO-3 = 0.055 ppm
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
n-Hexane
TPH Gasoline
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

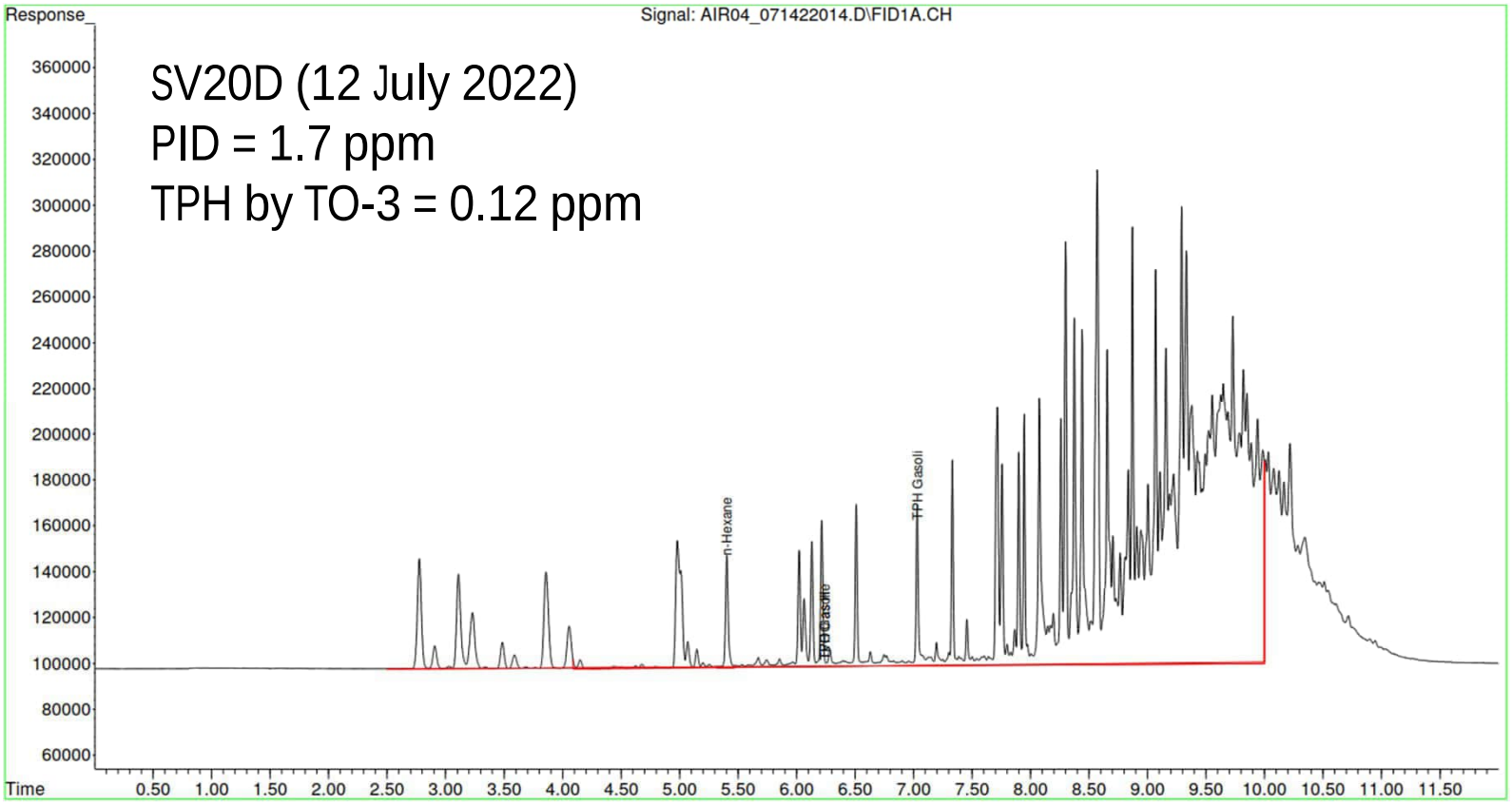

Response_
Signal: AIR04_071422009.D\FID1A.CH
SV17S (12 July 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.45 ppm
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
n-Hexane
TPH Gasoline
TPH Gasoil
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_071422010.D\FID1A.CH
SV17D (12 July 2022)
PID = 1.9 ppm
TPH by TO-3 = 0.25 ppm
n-Hexane
TPH Gasoil
Time


Response_
Signal: AIR04_071422011.D\FID1A.CH
SV18S (12 July 2022)
PID = 3.1 ppm
TPH by TO-3 = 0.58 ppm
n-Hexane
TPH Gasoil
Time

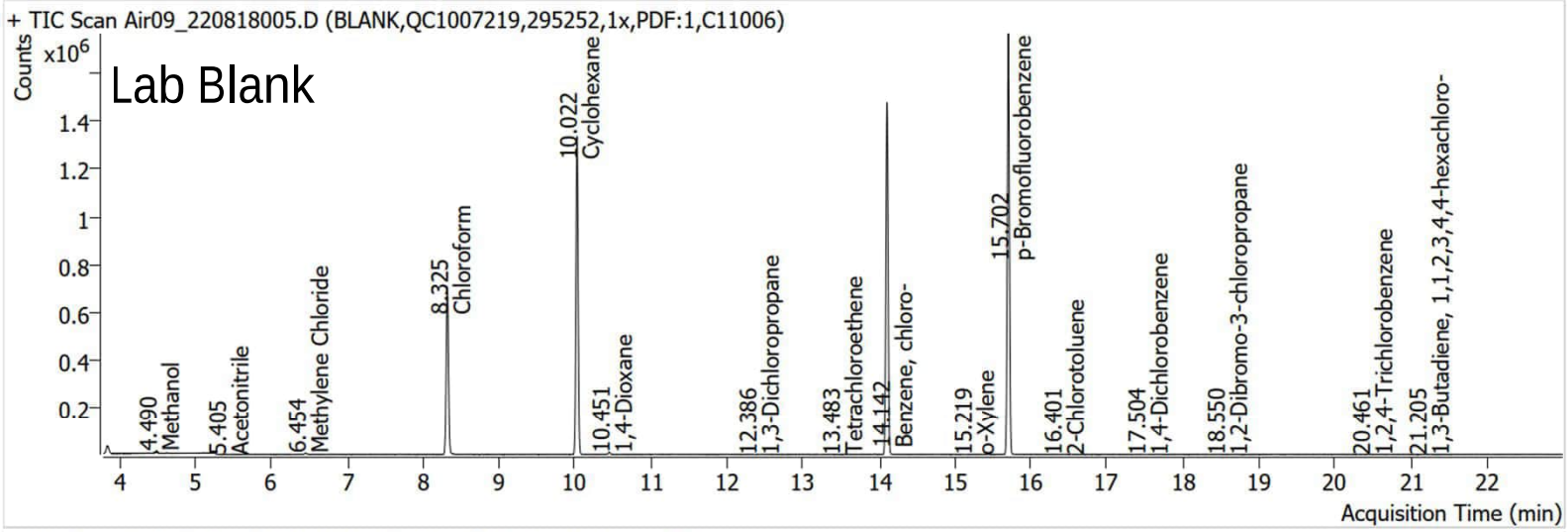

Response_
Signal: AIR04_071422012.D\FID1A.CH
SV18D (12 July 2022)
PID = 5.2 ppm
TPH by TO-3 = 0.73 ppm
n-Hexane
TPH Gasoli
Time

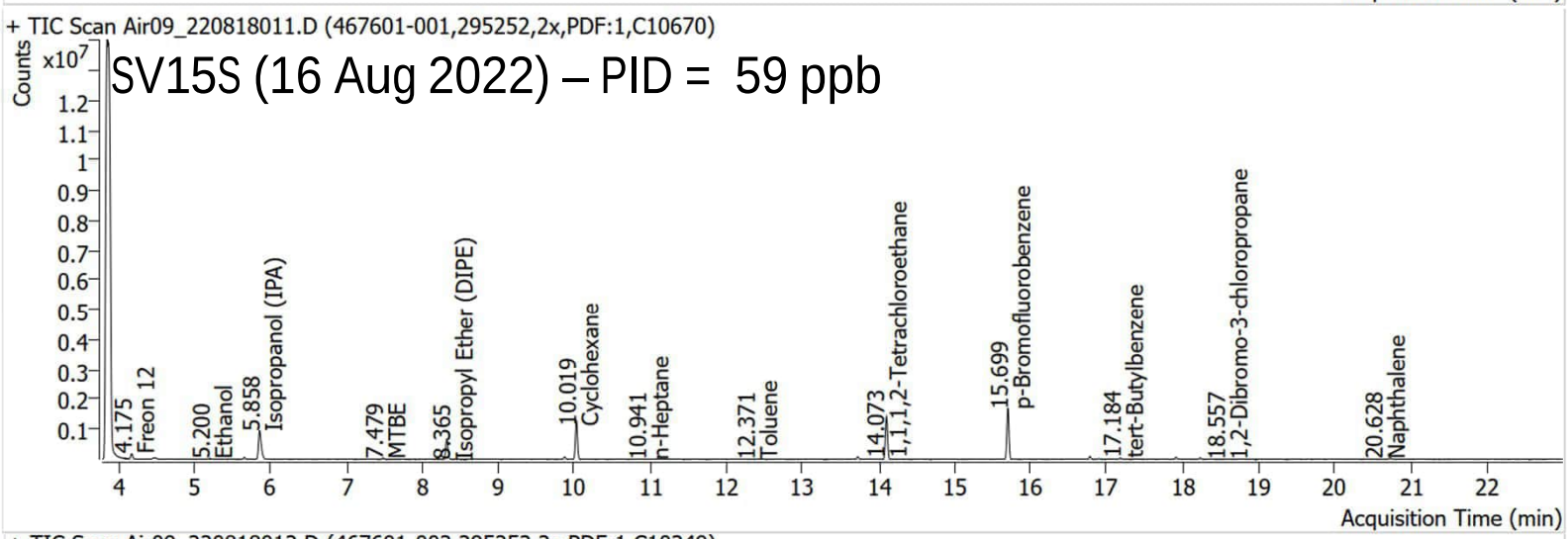

Response_
Signal: AIR04_071422013.D\FID1A.CH
SV20M (12 July 2022)
PID = 1.5 ppm
TPH by TO-3 = 0.18 ppm
n-Hexane
TPH Gasoli
Time

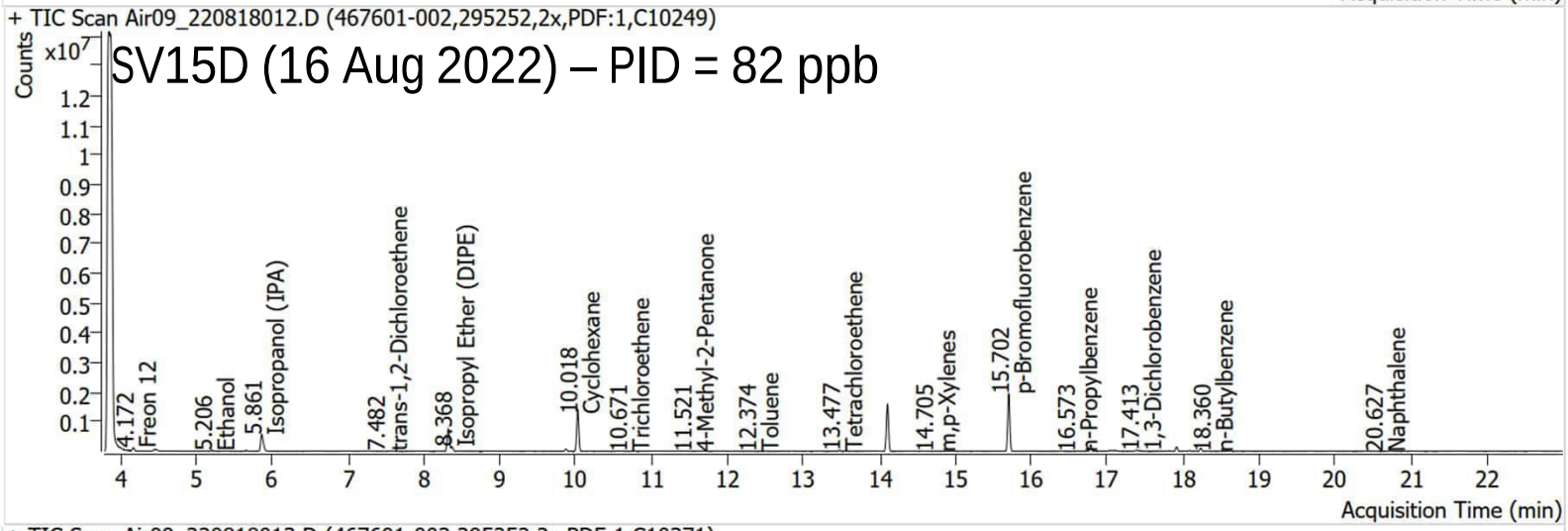

Response_
Signal: AIR04_071422014.D\FID1A.CH
SV20D (12 July 2022)
PID = 1.7 ppm
TPH by TO-3 = 0.12 ppm
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
n-Hexane
TPH Gasoli
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

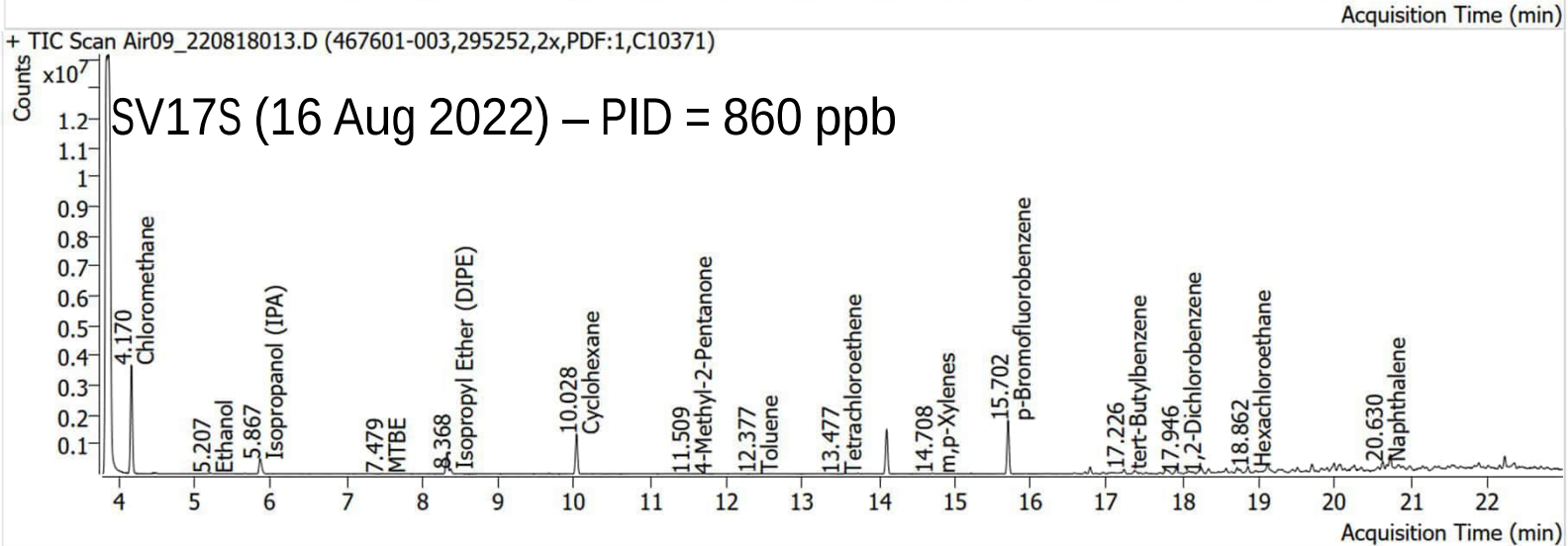
August 2022
Soil Vapor Samples

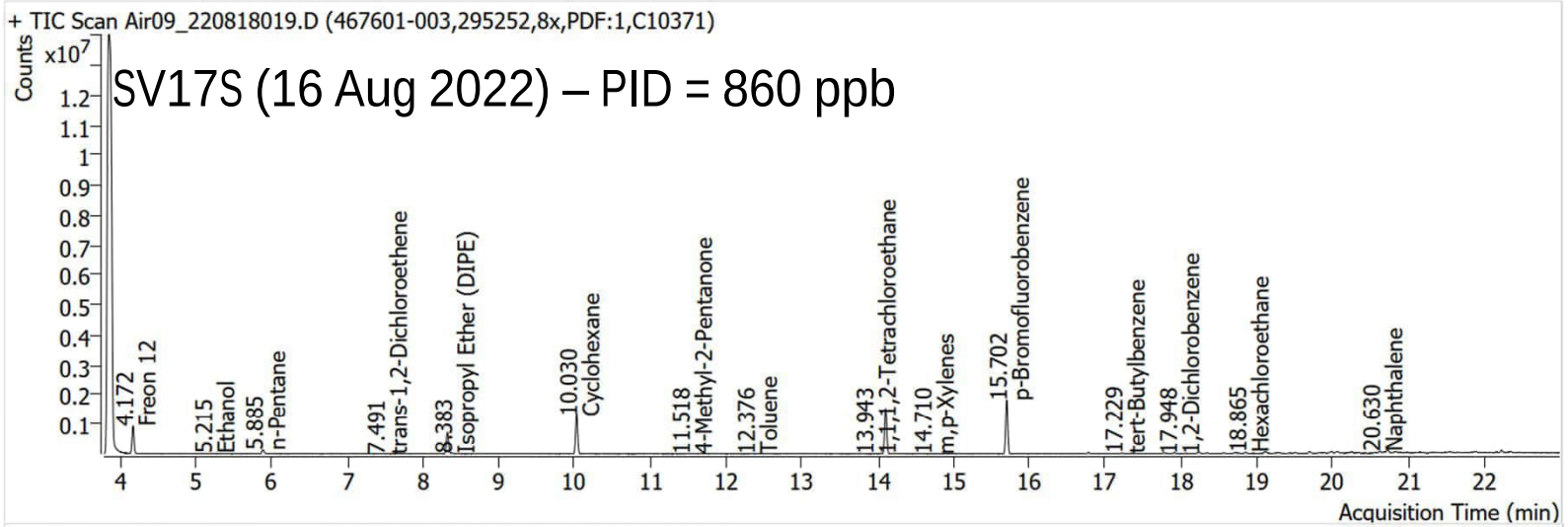
Mass Spec Chromatograms

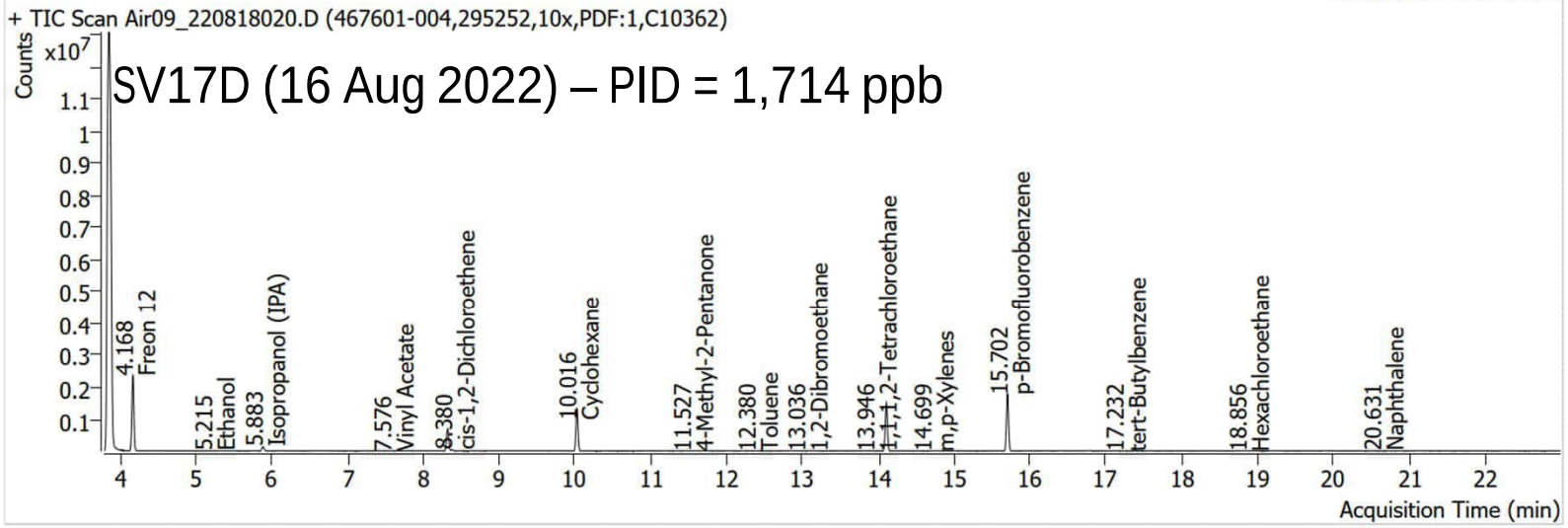

+ TIC Scan Air09_220818005.D (BLANK,QC1007219,295252,1x,PDF:1,C11006)
Lab Blank
Counts
x10^6
4.490 Methanol
5.405 Acetonitrile
6.454 Methylene Chloride
8.325 Chloroform
10.022 Cyclohexane
10.451 1,4-Dioxane
12.386 1,3-Dichloropropane
13.483 Tetrachloroethene
14.142 Benzene, chloro-
15.219 o-Xylene
15.702 p-Bromofluorobenzene
16.401 2-Chlorotoluene
17.504 1,4-Dichlorobenzene
18.550 1,2-Dibromo-3-chloropropane
20.461 1,2,4-Trichlorobenzene
21.205 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

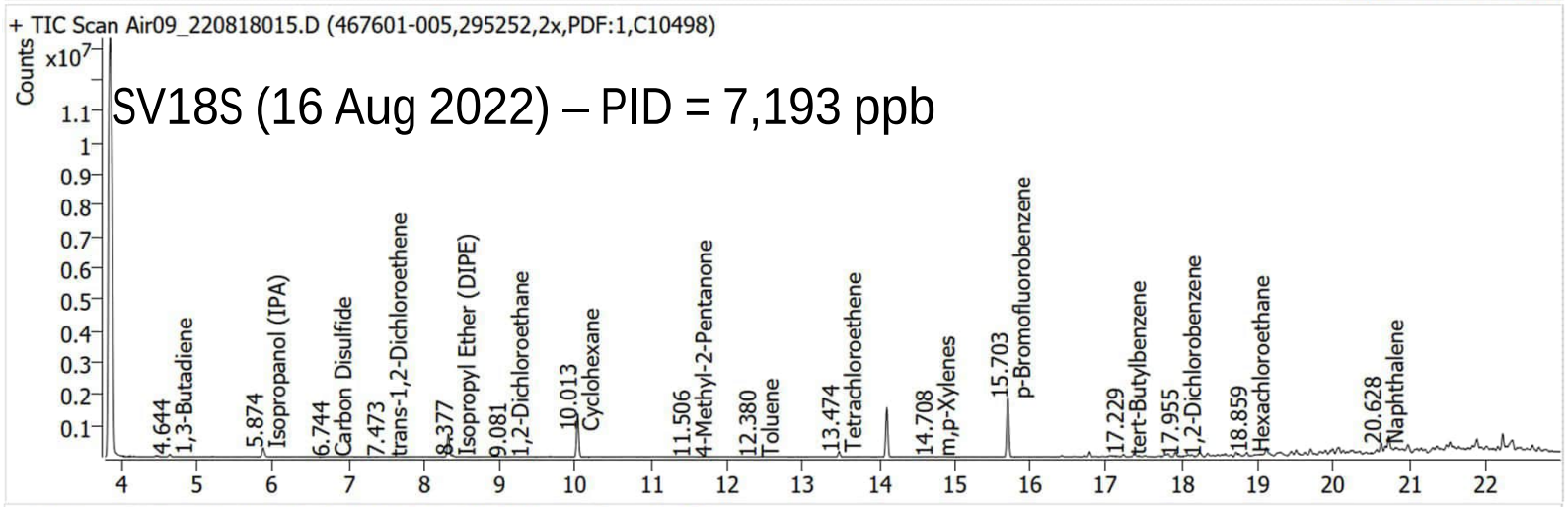

+ TIC Scan Air09_220818011.D (467601-001,295252,2x,PDF:1,C10670)
SV15S (16 Aug 2022) – PID = 59 ppb
Counts
x10^7
4.175 Freon 12
5.200 Ethanol
5.858 Isopropanol (IPA)
7.479 MTBE
8.365 Isopropyl Ether (DIPE)
10.019 Cyclohexane
10.941 n-Heptane
12.371 Toluene
14.073 1,1,1,2-Tetrachloroethane
15.699 p-Bromofluorobenzene
17.184 tert-Butylbenzene
18.557 1,2-Dibromo-3-chloropropane
20.628 Naphthalene
Acquisition Time (min)

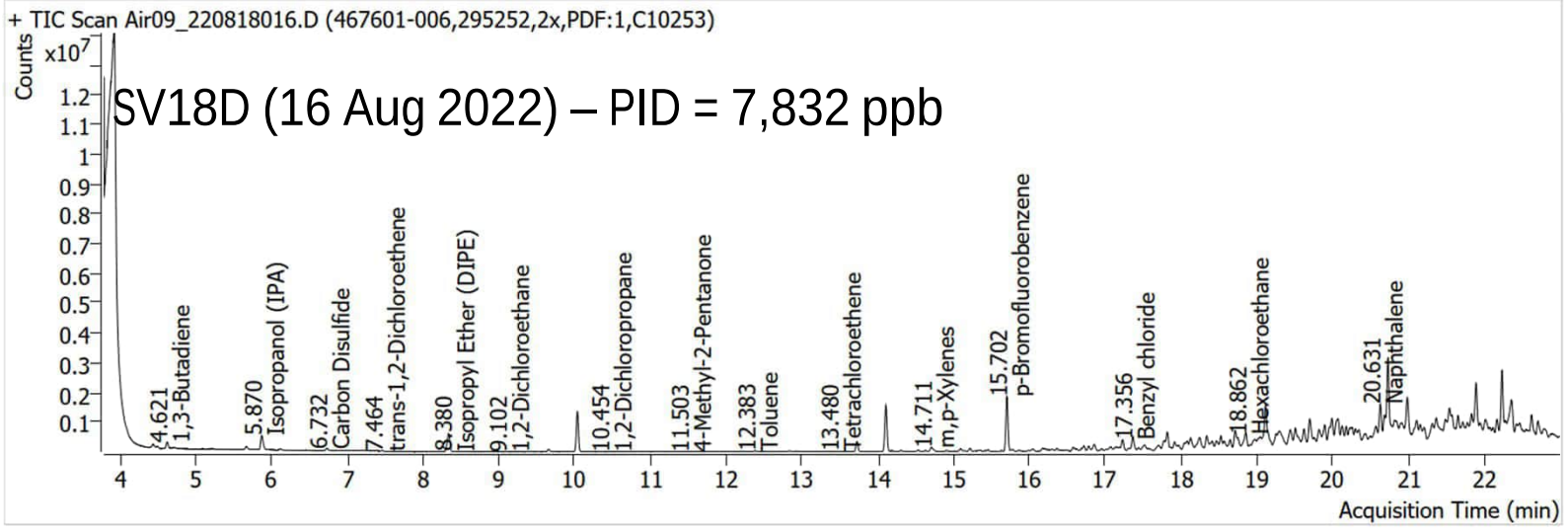

+ TIC Scan Air09_220818012.D (467601-002,295252,2x,PDF:1,C10249)
SV15D (16 Aug 2022) – PID = 82 ppb
Counts
x10^7
4.172 Freon 12
5.206 Ethanol
5.861 Isopropanol (IPA)
7.482 trans-1,2-Dichloroethene
8.368 Isopropyl Ether (DIPE)
10.018 Cyclohexane
10.671 Trichloroethene
11.521 4-Methyl-2-Pentanone
12.374 Toluene
13.477 Tetrachloroethene
14.705 m,p-Xylenes
15.702 p-Bromofluorobenzene
16.573 n-Propylbenzene
17.413 1,3-Dichlorobenzene
18.360 n-Butylbenzene
20.627 Naphthalene
Acquisition Time (min)

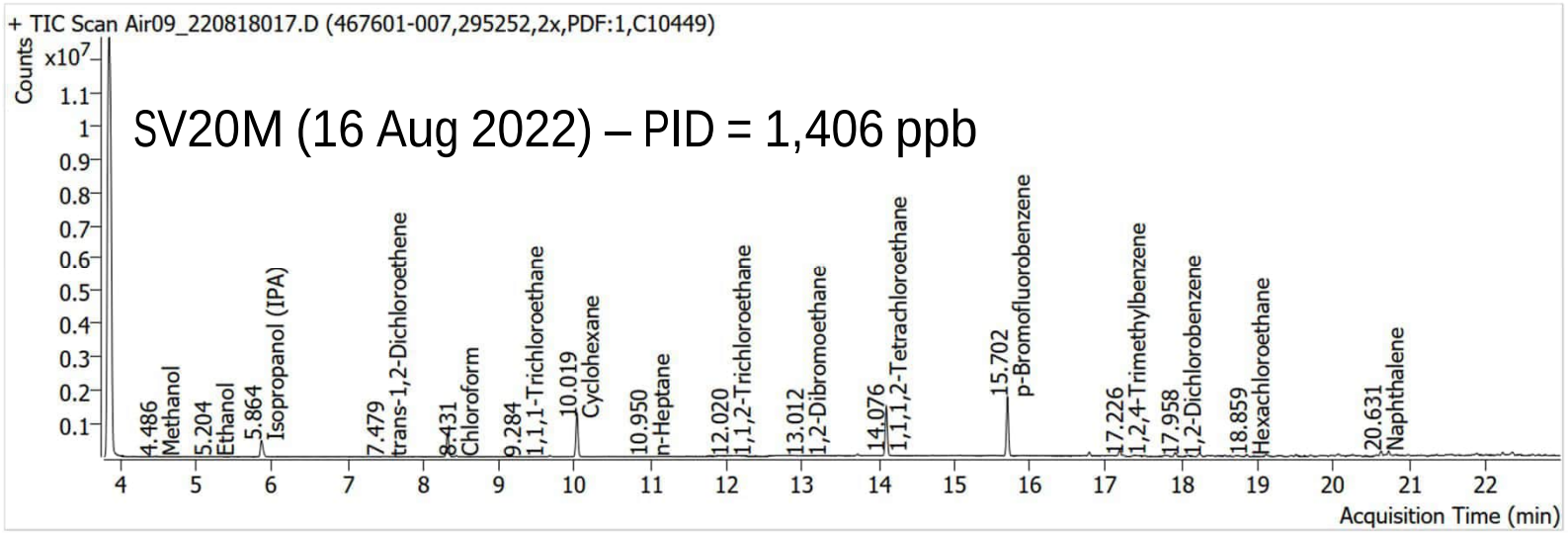

+ TIC Scan Air09_220818013.D (467601-003,295252,2x,PDF:1,C10371)
SV17S (16 Aug 2022) – PID = 860 ppb
Counts
x10^7
4.170 Chloromethane
5.207 Ethanol
5.867 Isopropanol (IPA)
7.479 MTBE
8.368 Isopropyl Ether (DIPE)
10.028 Cyclohexane
11.509 4-Methyl-2-Pentanone
12.377 Toluene
13.477 Tetrachloroethene
14.708 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.226 tert-Butylbenzene
17.946 1,2-Dichlorobenzene
18.862 Hexachloroethane
20.630 Naphthalene
Acquisition Time (min)

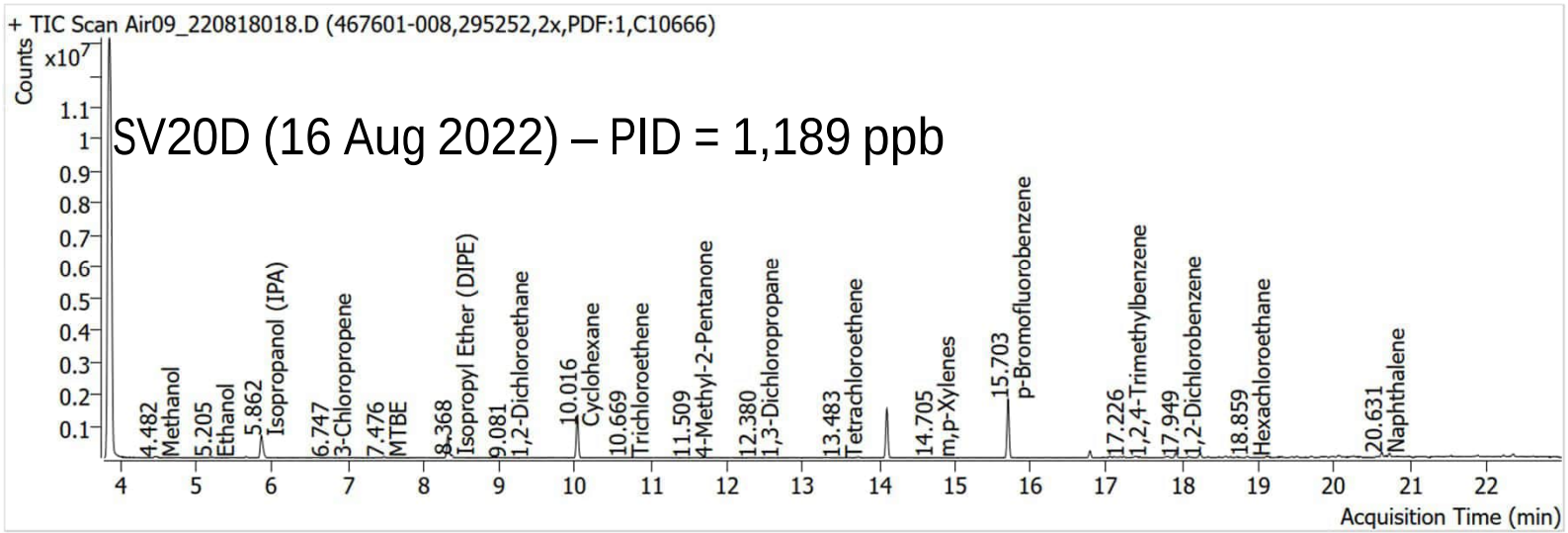

+ TIC Scan Air09_220818019.D (467601-003,295252,8x,PDF:1,C10371)
SV17S (16 Aug 2022) – PID = 860 ppb
Counts
x10^7
4.172 Freon 12
5.215 Ethanol
5.885 n-Pentane
7.491 trans-1,2-Dichloroethene
8.383 Isopropyl Ether (DIPE)
10.030 Cyclohexane
11.518 4-Methyl-2-Pentanone
12.376 Toluene
13.943 1,1,2-Tetrachloroethane
14.710 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.229 tert-Butylbenzene
17.948 1,2-Dichlorobenzene
18.865 Hexachloroethane
20.630 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_220818020.D (467601-004,295252,10x,PDF:1,C10362)
SV17D (16 Aug 2022) – PID = 1,714 ppb
Counts
x10^7
4.168 Freon 12
5.215 Ethanol
5.883 Isopropanol (IPA)
7.576 Vinyl Acetate
8.380 cis-1,2-Dichloroethene
10.016 Cyclohexane
11.527 4-Methyl-2-Pentanone
12.380 Toluene
13.036 1,2-Dibromoethane
13.946 1,1,1,2-Tetrachloroethane
14.699 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.232 tert-Butylbenzene
18.856 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_220818015.D (467601-005,295252,2x,PDF:1,C10498)
SV18S (16 Aug 2022) – PID = 7,193 ppb
Counts
x10^7
4.644 1,3-Butadiene
5.874 Isopropanol (IPA)
6.744 Carbon Disulfide
7.473 trans-1,2-Dichloroethene
8.377 Isopropyl Ether (DIPE)
9.081 1,2-Dichloroethane
10.013 Cyclohexane
11.506 4-Methyl-2-Pentanone
12.380 Toluene
13.474 Tetrachloroethene
14.708 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.229 tert-Butylbenzene
17.955 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.628 Naphthalene

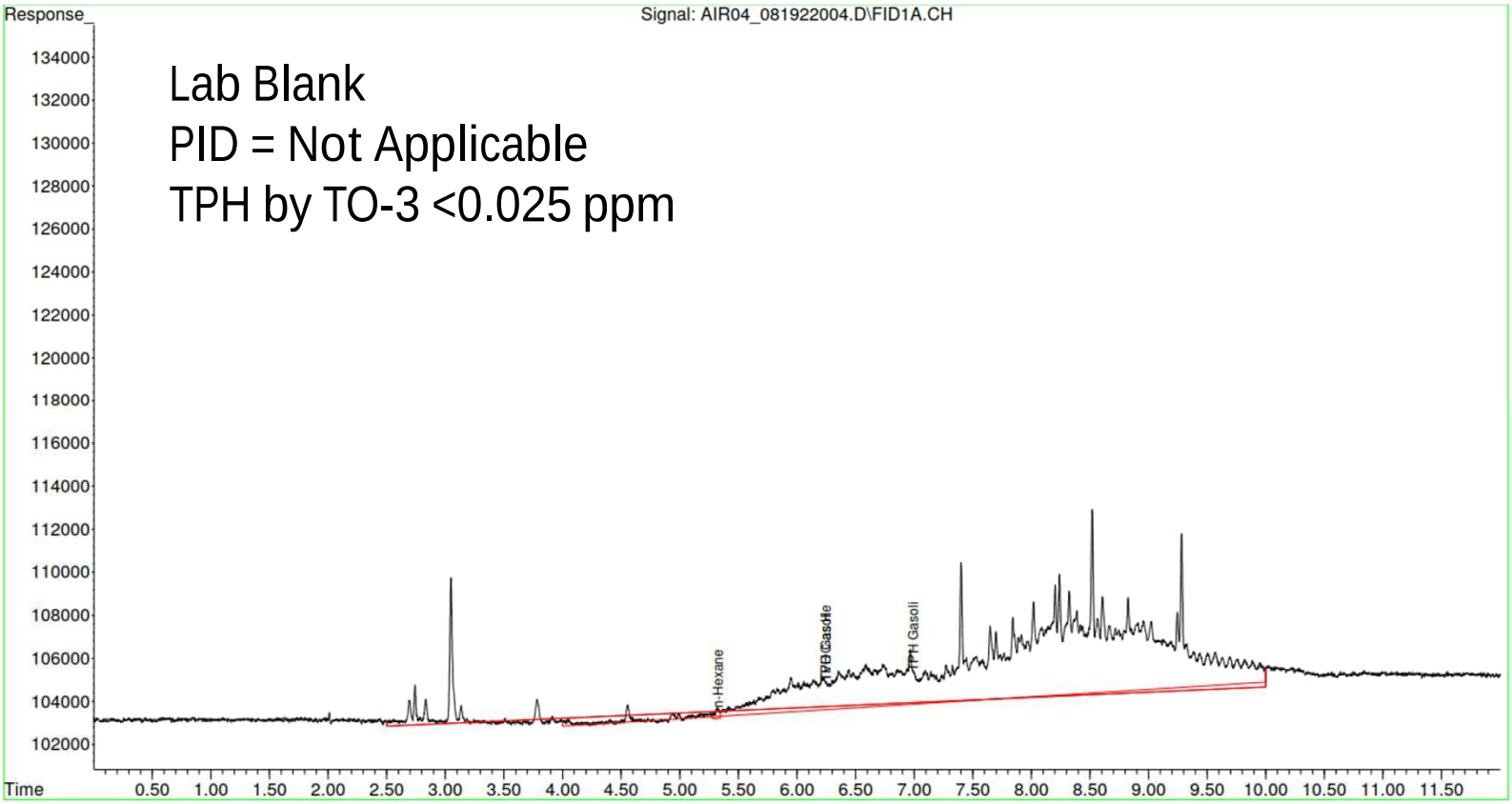

+ TIC Scan Air09_220818016.D (467601-006,295252,2x,PDF:1,C10253)
SV18D (16 Aug 2022) – PID = 7,832 ppb
Counts
x10^7
4.621 1,3-Butadiene
5.870 Isopropanol (IPA)
6.732 Carbon Disulfide
7.464 trans-1,2-Dichloroethene
8.380 Isopropyl Ether (DIPE)
9.102 1,2-Dichloroethane
10.454 1,2-Dichloropropane
11.503 4-Methyl-2-Pentanone
12.383 Toluene
13.480 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.356 Benzyl chloride
18.862 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

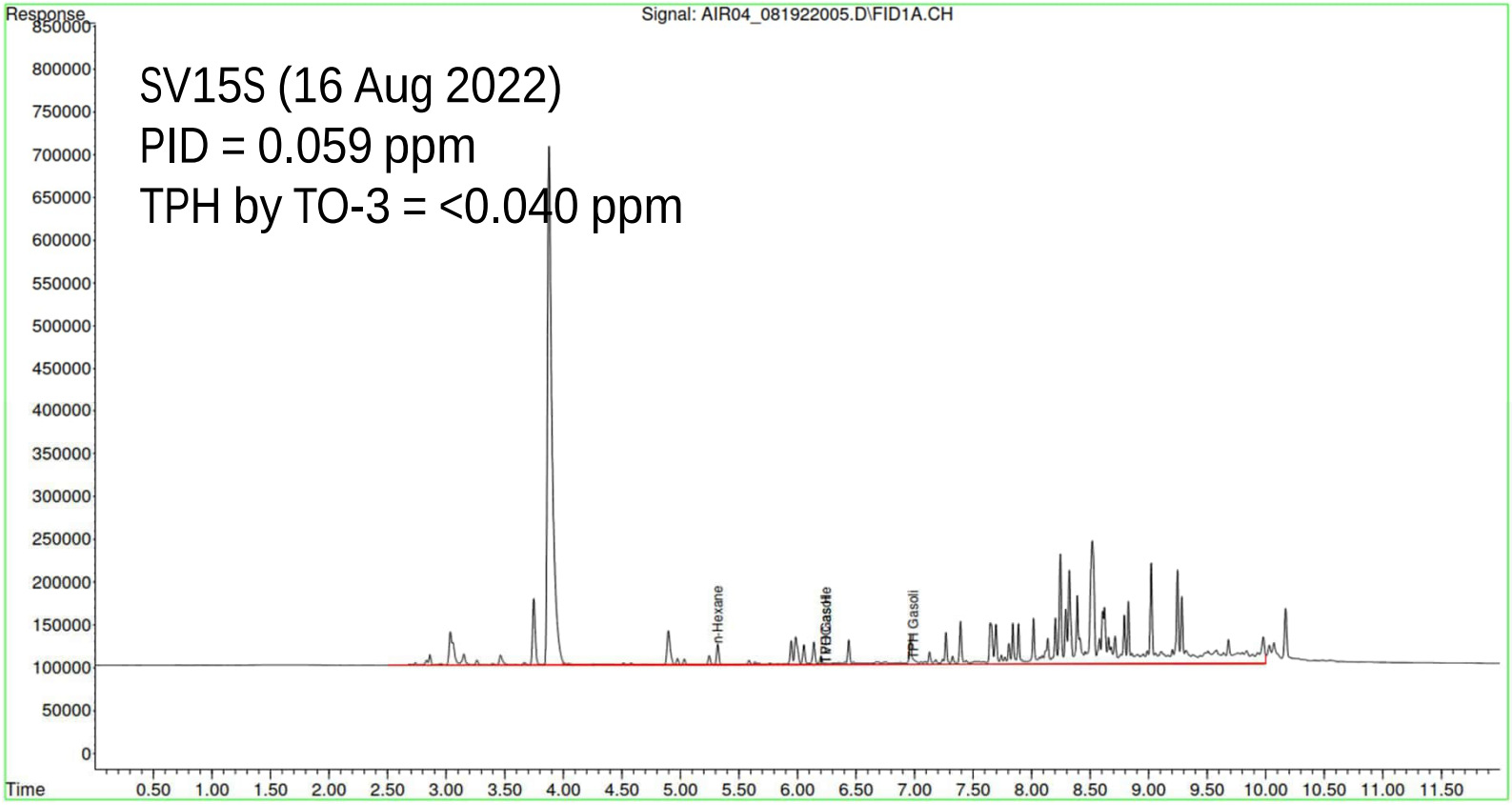

+ TIC Scan Air09_220818017.D (467601-007,295252,2x,PDF:1,C10449)
Counts
x10^7
SV20M (16 Aug 2022) – PID = 1,406 ppb
4.486 Methanol
5.204 Ethanol
5.864 Isopropanol (IPA)
7.479 trans-1,2-Dichloroethene
8.431 Chloroform
9.284 1,1,1-Trichloroethane
10.019 Cyclohexane
10.950 n-Heptane
12.020 1,1,2-Trichloroethane
13.012 1,2-Dibromoethane
14.076 1,1,1,2-Tetrachloroethane
15.702 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.958 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

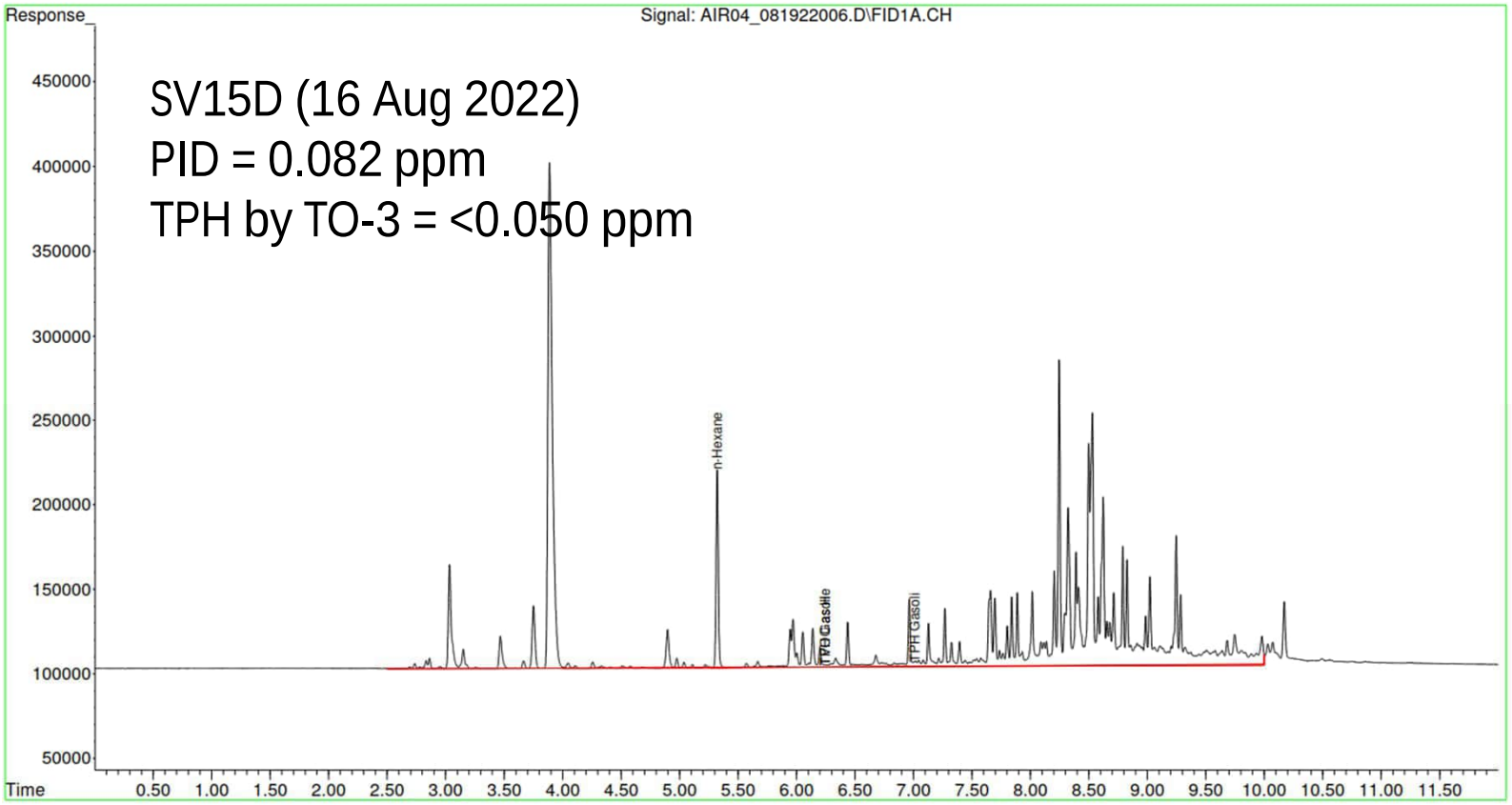

+ TIC Scan Air09_220818018.D (467601-008,295252,2x,PDF:1,C10666)
Counts
x10^7
SV20D (16 Aug 2022) – PID = 1,189 ppb
4.482 Methanol
5.205 Ethanol
5.862 Isopropanol (IPA)
6.747 3-Chloropropene
7.476 MTBE
8.368 Isopropyl Ether (DIPE)
9.081 1,2-Dichloroethane
10.016 Cyclohexane
10.669 Trichloroethene
11.509 4-Methyl-2-Pentanone
12.380 1,3-Dichloropropane
13.483 Tetrachloroethene
14.705 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.631 Naphthalene
Acquisition Time (min)

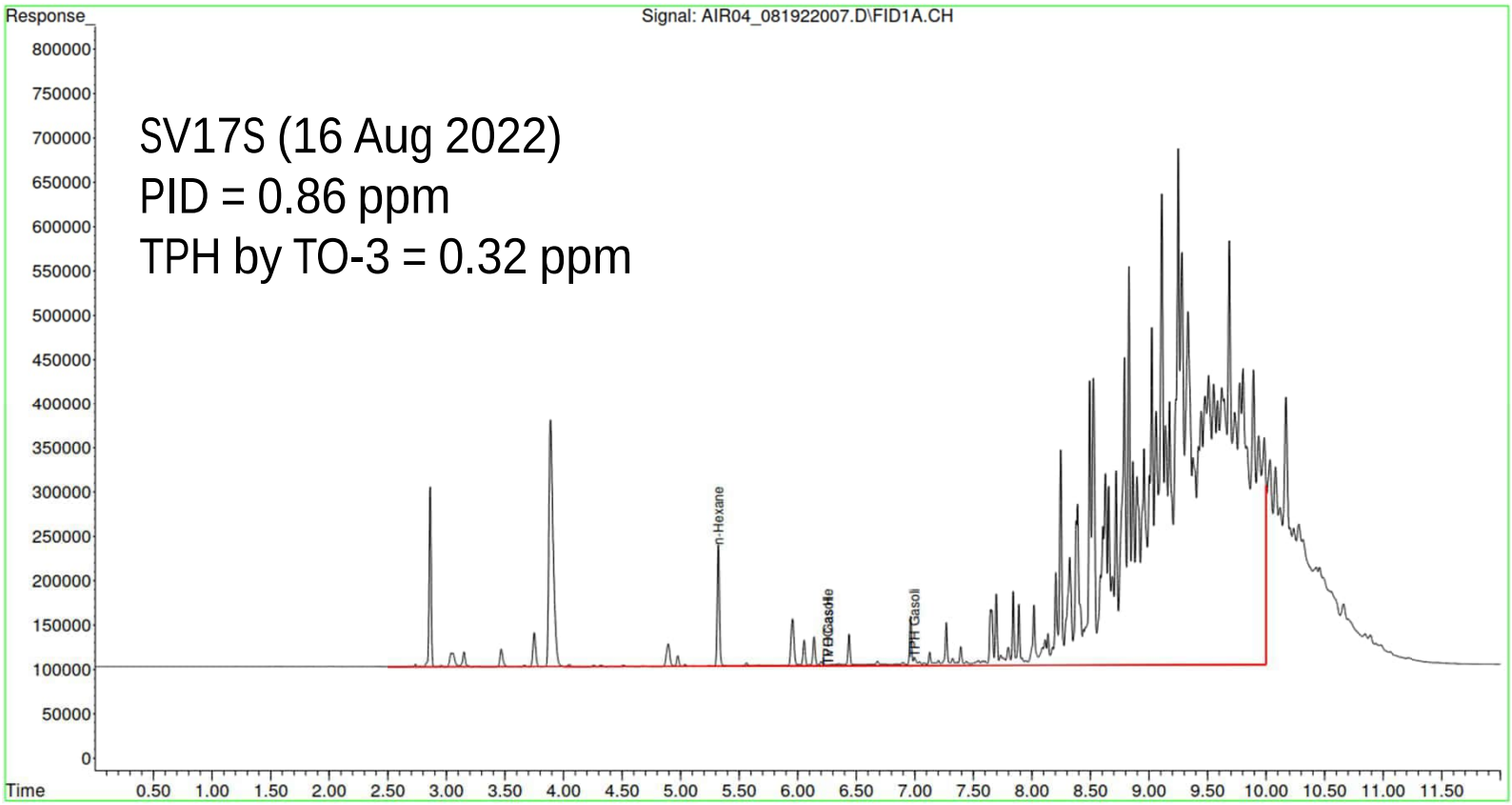
August 2022
Soil Vapor Samples

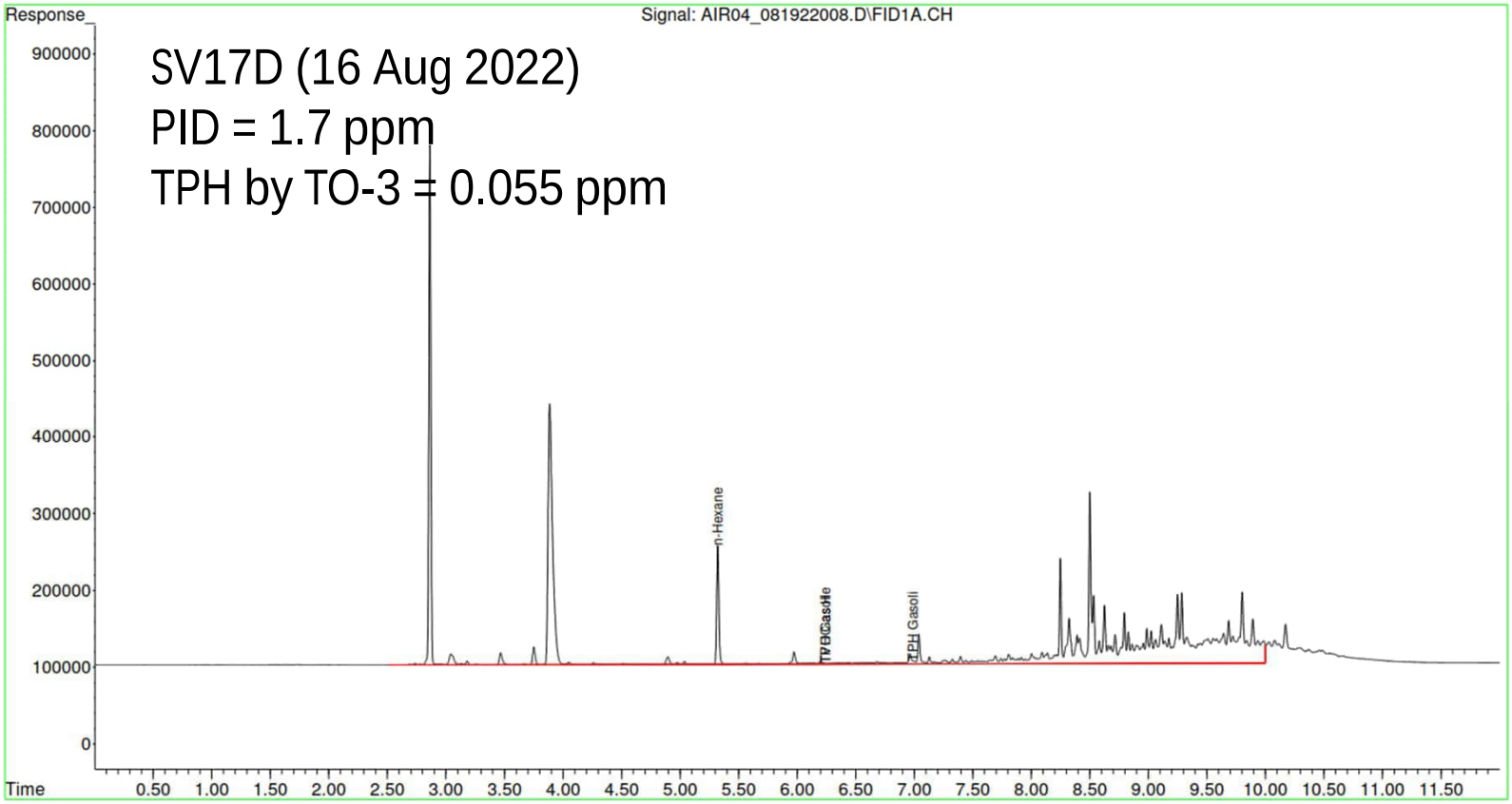
FID Chromatograms

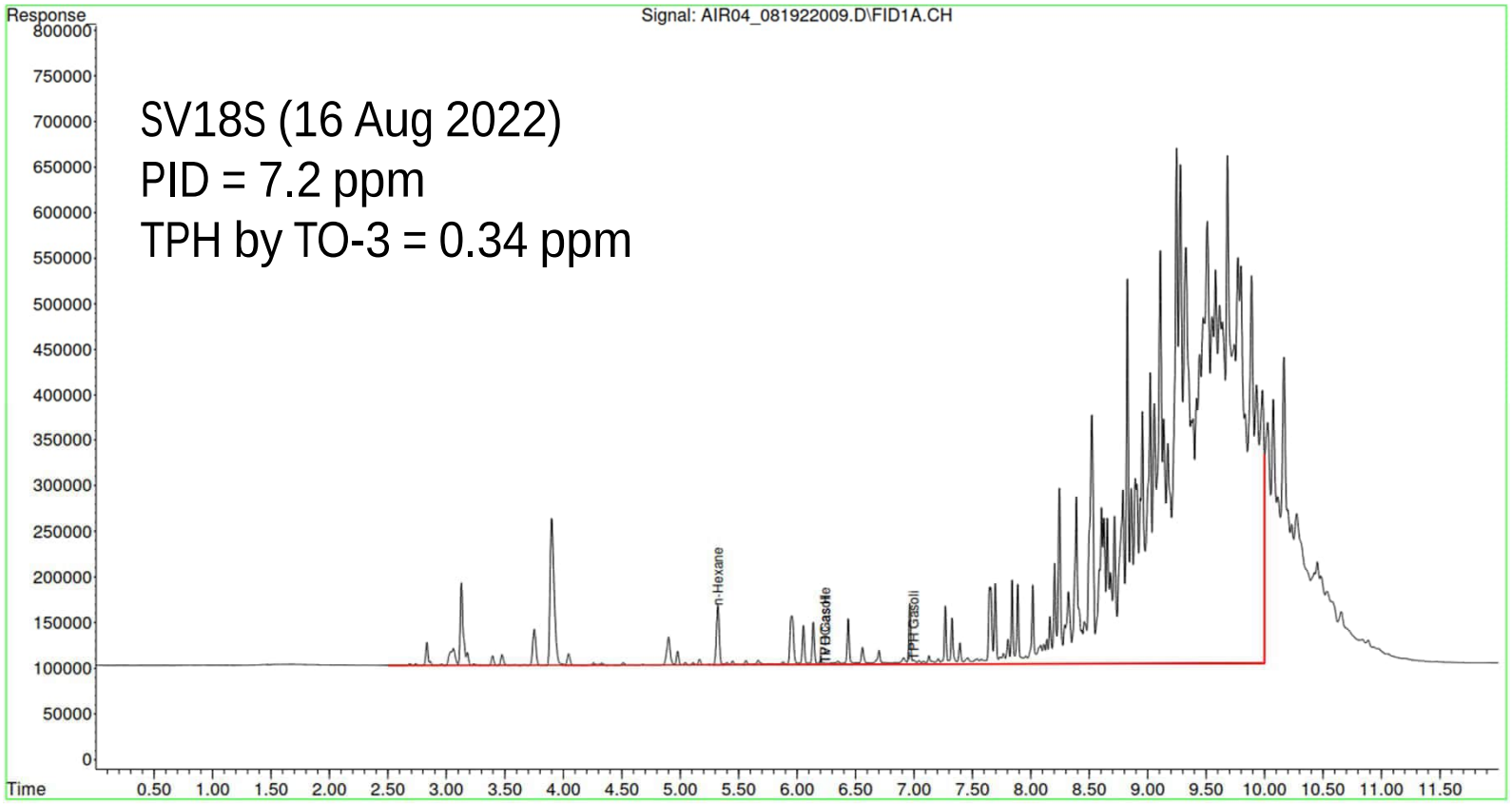

Response_
Signal: AIR04_081922004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
n-Hexane
TPH Gasoil
Time

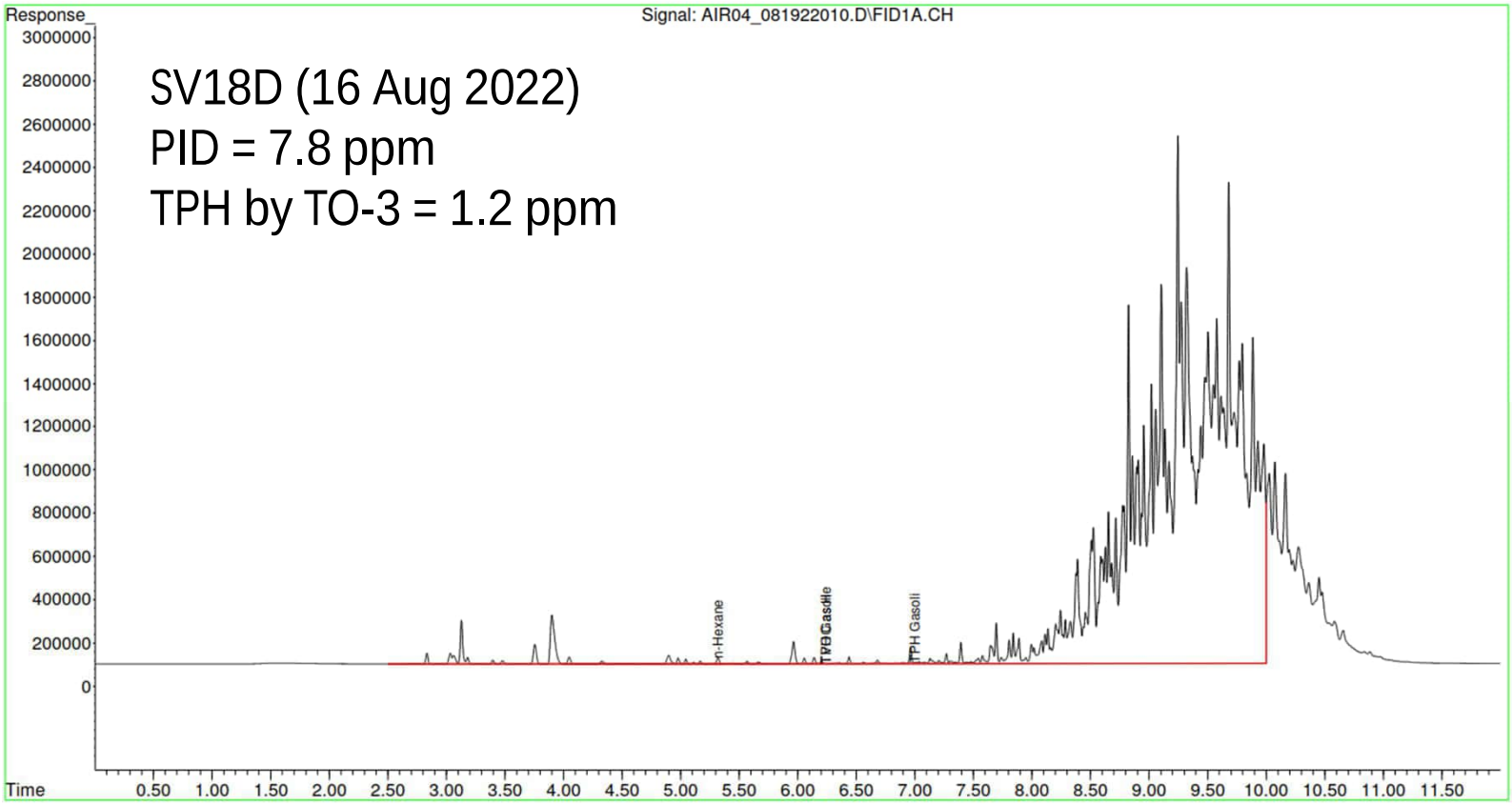

Response
Signal: AIR04_081922005.D\FID1A.CH
SV15S (16 Aug 2022)
PID = 0.059 ppm
TPH by TO-3 = <0.040 ppm
n-Hexane
TPH Gasoil
Time

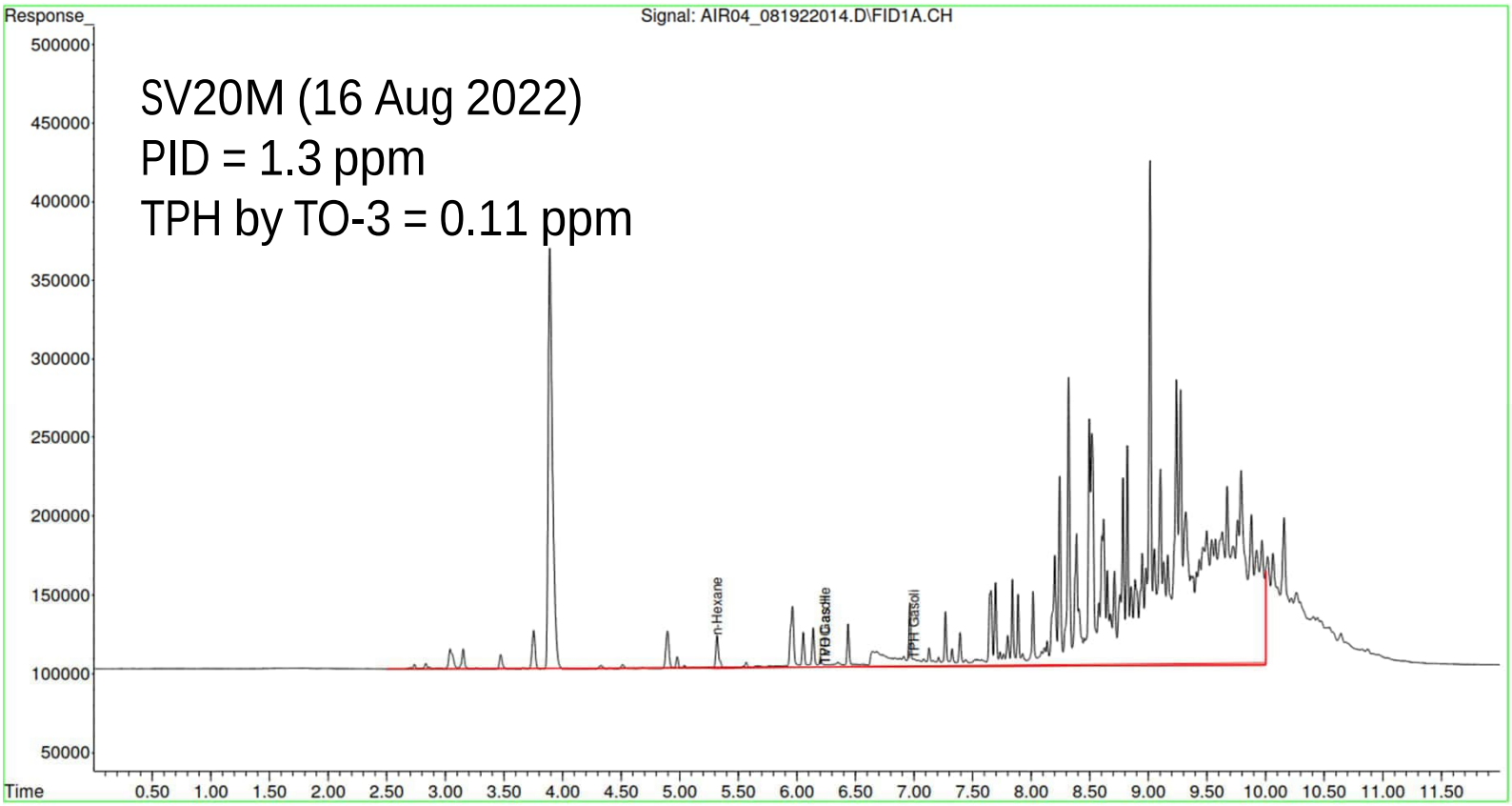

Response_
Signal: AIR04_081922006.D\FID1A.CH
SV15D (16 Aug 2022)
PID = 0.082 ppm
TPH by TO-3 = <0.050 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time

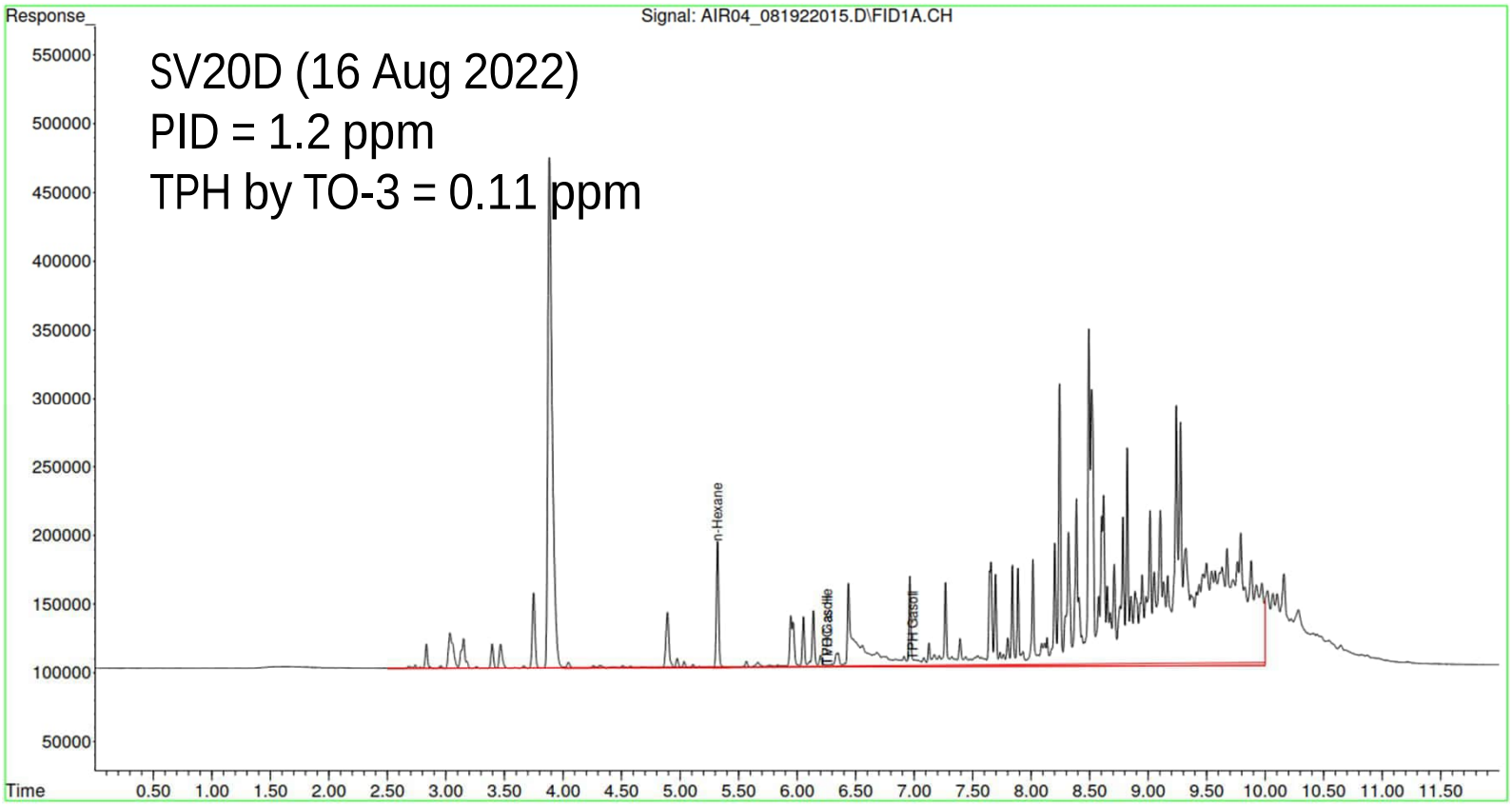

Response_
Signal: AIR04_081922007.D\FID1A.CH
SV17S (16 Aug 2022)
PID = 0.86 ppm
TPH by TO-3 = 0.32 ppm
n-Hexane
TPH Gasoline
TPH Gasoil
Time


Response_
Signal: AIR04_081922008.D\FID1A.CH
SV17D (16 Aug 2022)
PID = 1.7 ppm
TPH by TO-3 = 0.055 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time


Response
Signal: AIR04_081922009.D\FID1A.CH
SV18S (16 Aug 2022)
PID = 7.2 ppm
TPH by TO-3 = 0.34 ppm
n-Hexane
TPH Gasoli
TPH Gasoli
Time

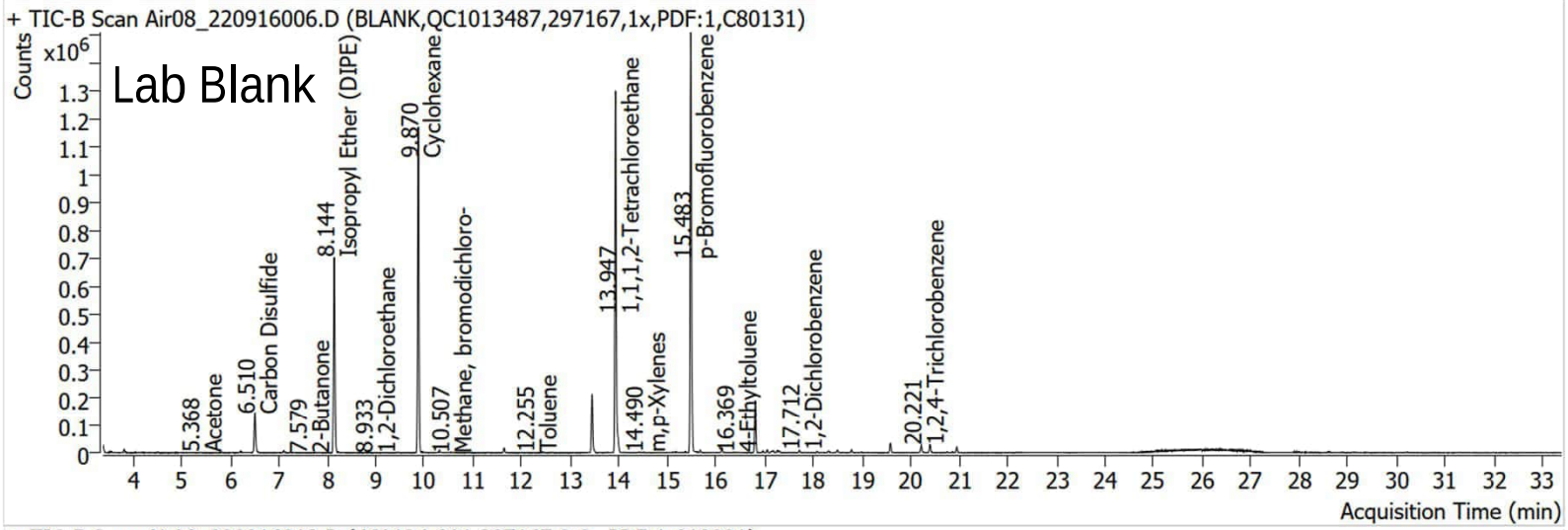

Response_
Signal: AIR04_081922010.D\FID1A.CH
SV18D (16 Aug 2022)
PID = 7.8 ppm
TPH by TO-3 = 1.2 ppm
n-Hexane
TPH Gasoli
Time

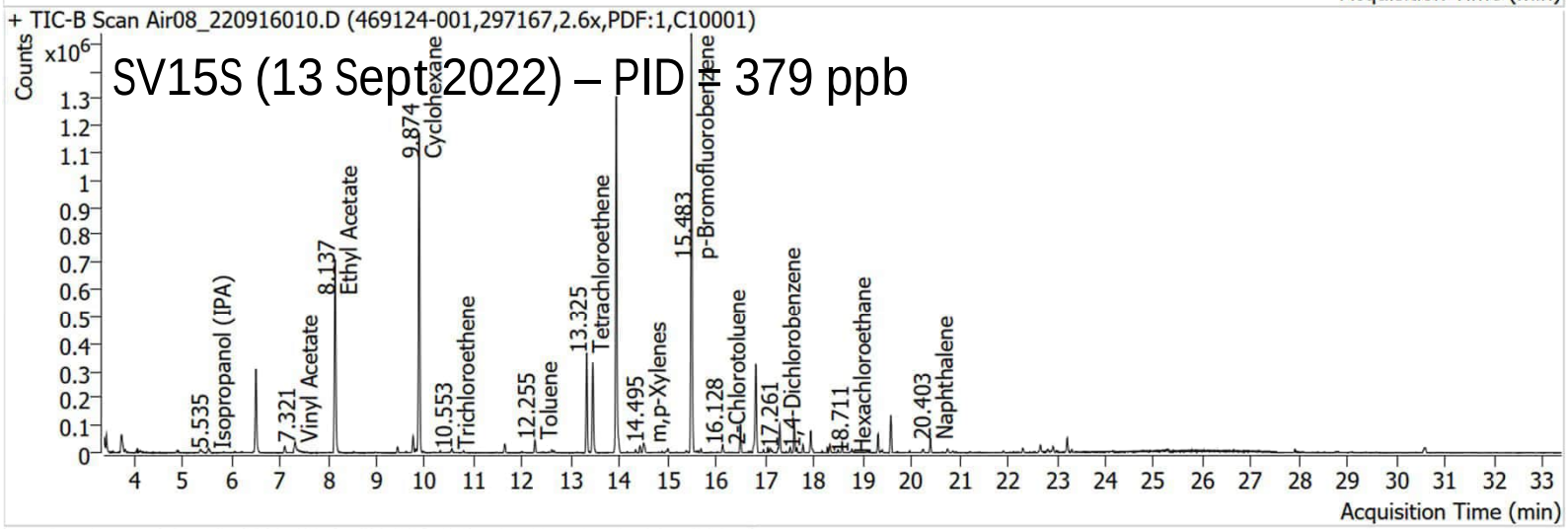

Response_
Signal: AIR04_081922014.D\FID1A.CH
SV20M (16 Aug 2022)
PID = 1.3 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
TPH Gasoli
Time

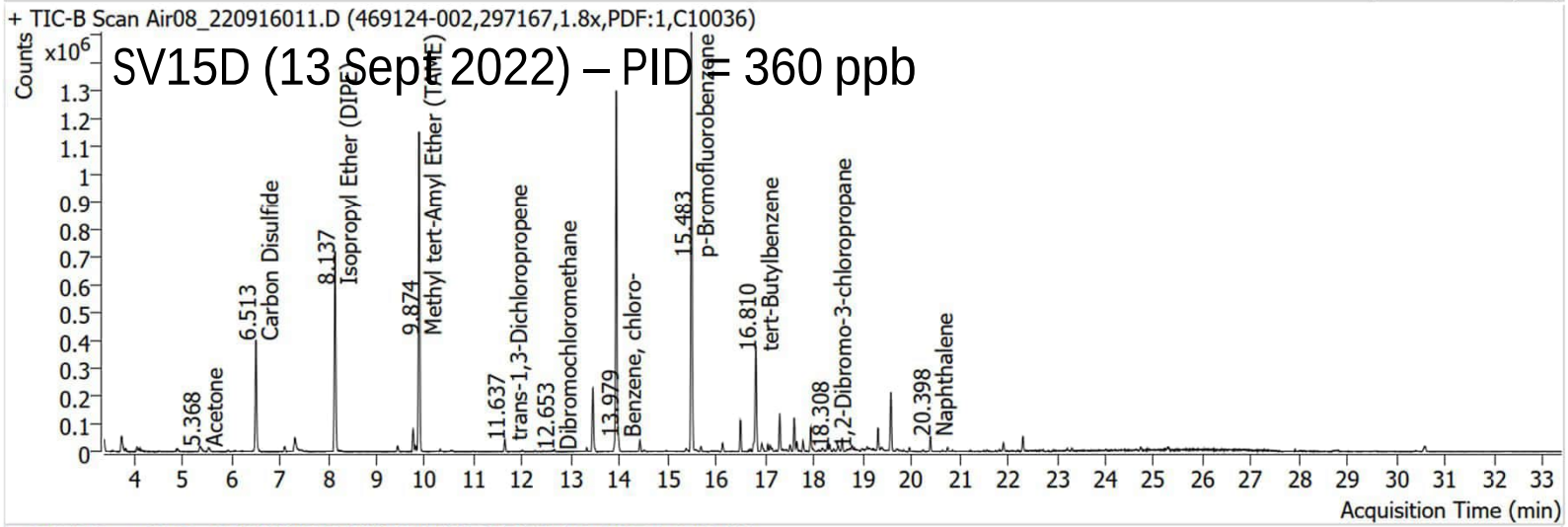

Response_
Signal: AIR04_081922015.D\FID1A.CH
SV20D (16 Aug 2022)
PID = 1.2 ppm
TPH by TO-3 = 0.11 ppm
n-Hexane
TPH Gasoline
TPH Diesel
Time

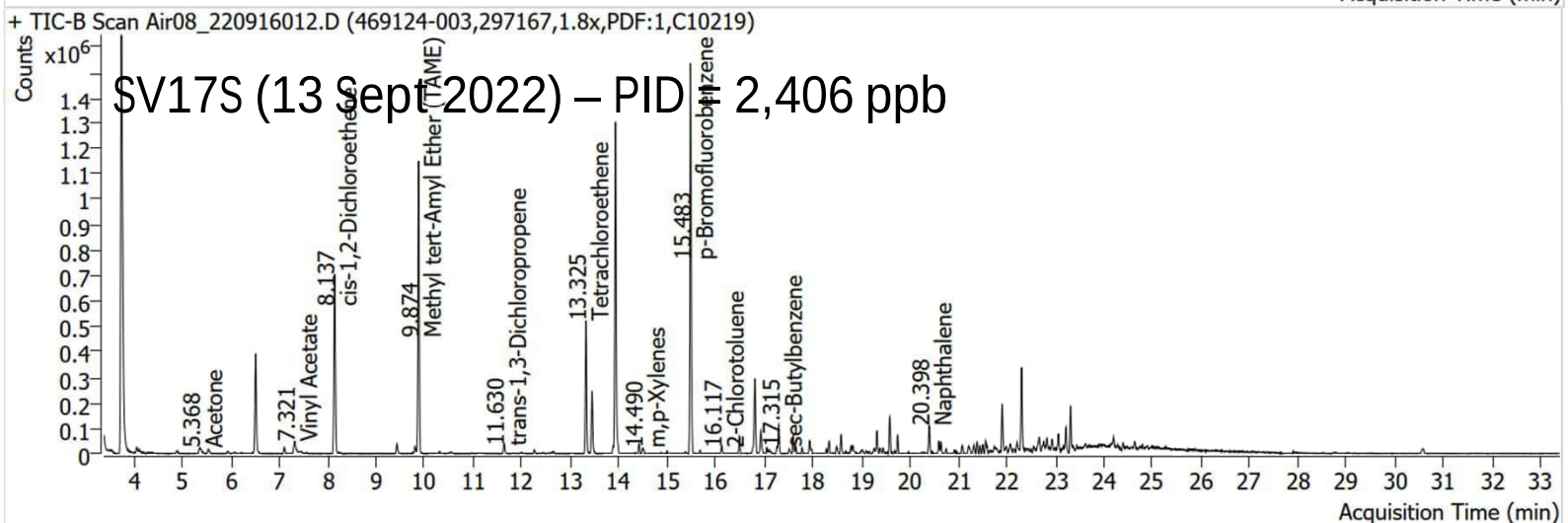
September 2022
Soil Vapor Samples

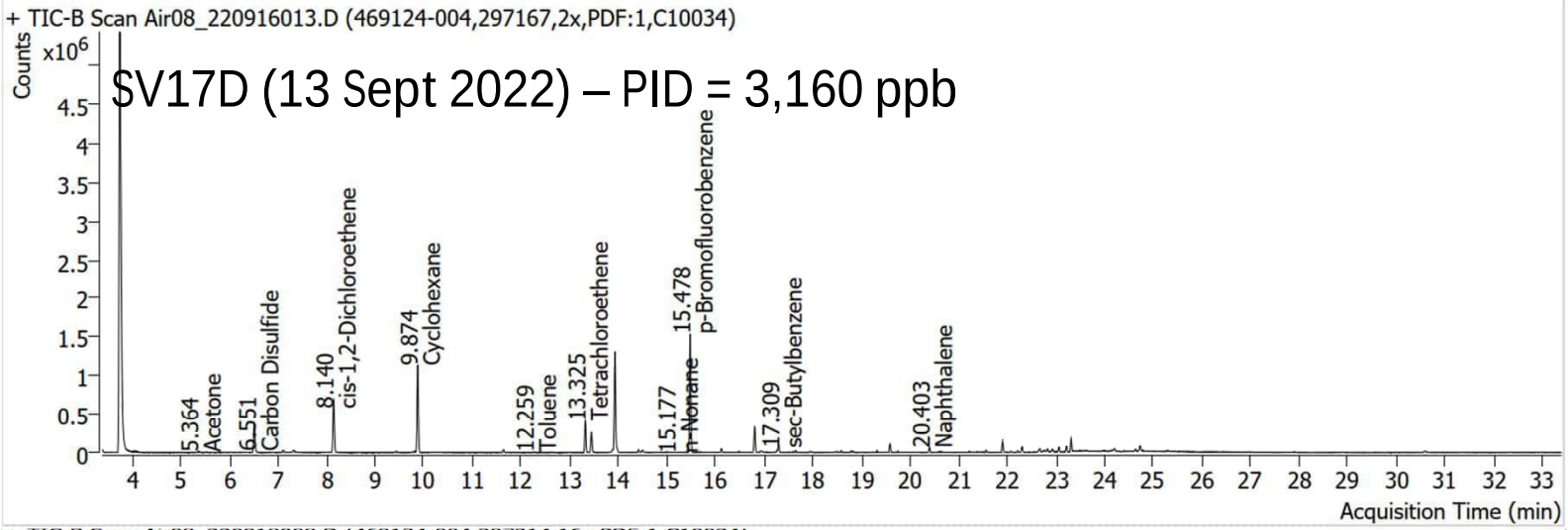
Mass Spec Chromatograms

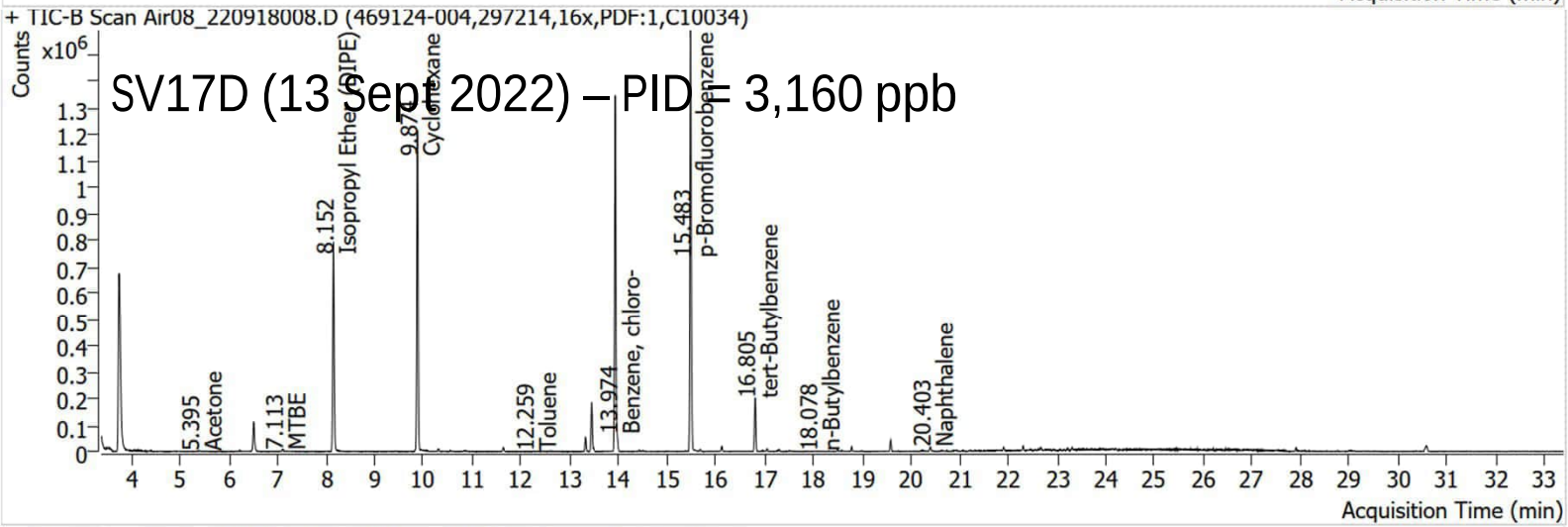

+ TIC-B Scan Air08_220916006.D (BLANK,QC1013487,297167,1x,PDF:1,C80131)
Lab Blank
Counts
x10^6
5.368 Acetone
6.510 Carbon Disulfide
7.579 2-Butanone
8.144 Isopropyl Ether (DIPE)
8.933 1,2-Dichloroethane
9.870 Cyclohexane
10.507 Methane, bromodichloro-
12.255 Toluene
13.947 1,1,1,2-Tetrachloroethane
14.490 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.369 4-Ethyltoluene
17.712 1,2-Dichlorobenzene
20.221 1,2,4-Trichlorobenzene
Acquisition Time (min)

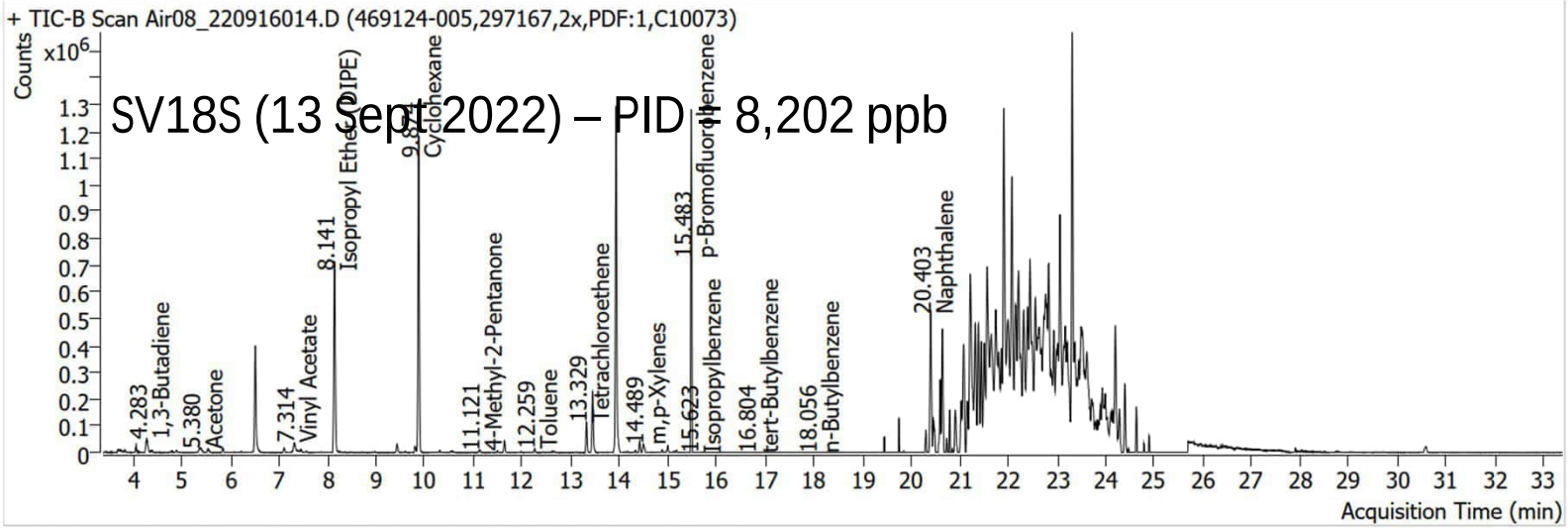

+ TIC-B Scan Air08_220916010.D (469124-001,297167,2.6x,PDF:1,C10001)
SV15S (13 Sept 2022) – PID = 379 ppb
Counts
x10^6
5.535 Isopropanol (IPA)
7.321 Vinyl Acetate
8.137 Ethyl Acetate
9.874 Cyclohexane
10.553 Trichloroethene
12.255 Toluene
13.325 Tetrachloroethene
14.495 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.128 2-Chlorotoluene
17.261 1,4-Dichlorobenzene
18.711 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

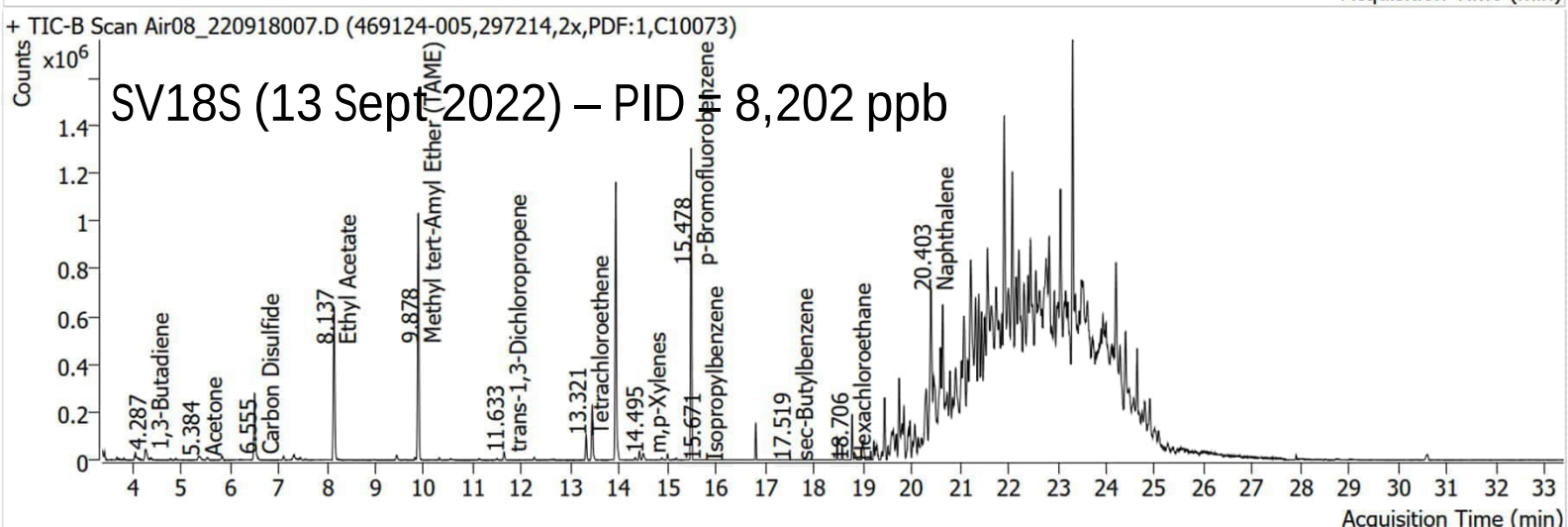

+ TIC-B Scan Air08_220916011.D (469124-002,297167,1.8x,PDF:1,C10036)
SV15D (13 Sept 2022) – PID = 360 ppb
Counts
x10^6
5.368 Acetone
6.513 Carbon Disulfide
8.137 Isopropyl Ether (DIPE)
9.874 Methyl tert-Amyl Ether (TAME)
11.637 trans-1,3-Dichloropropene
12.653 Dibromochloromethane
13.979 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.810 tert-Butylbenzene
18.308 1,2-Dibromo-3-chloropropane
20.398 Naphthalene
Acquisition Time (min)

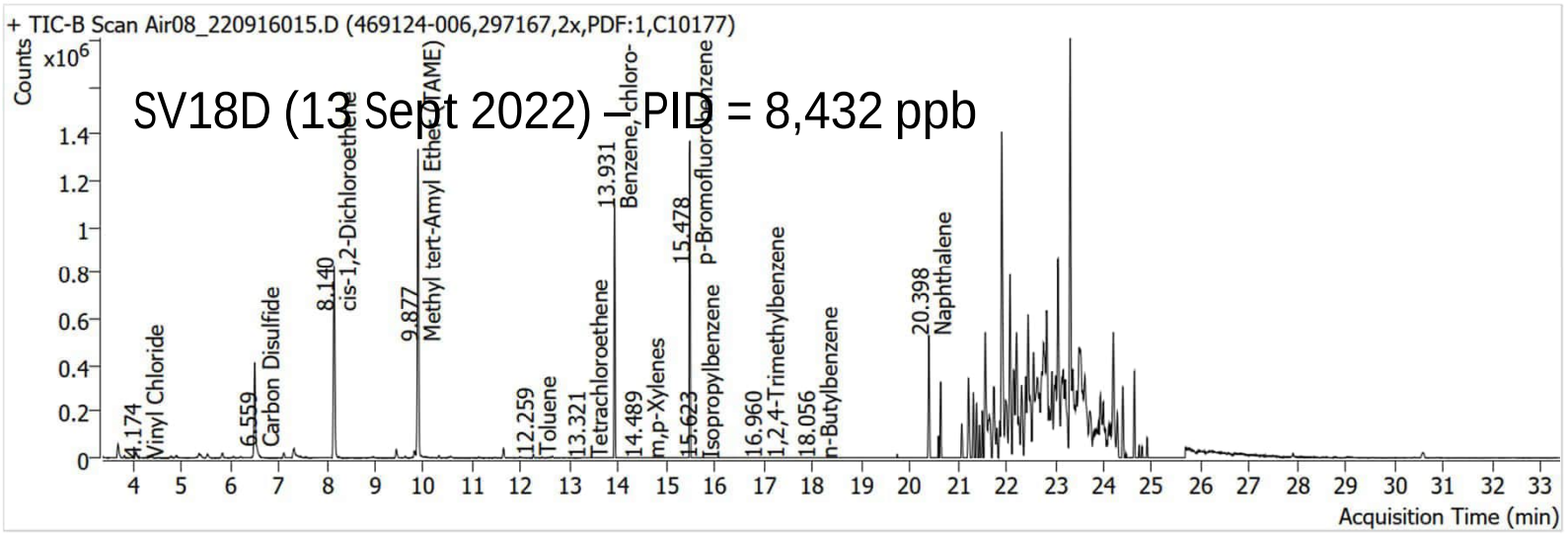

+ TIC-B Scan Air08_220916012.D (469124-003,297167,1.8x,PDF:1,C10219)
SV17S (13 Sept 2022) – PID = 2,406 ppb
Counts
x10^6
5.368 Acetone
7.321 Vinyl Acetate
8.137 cis-1,2-Dichloroethene
9.874 Methyl tert-Amyl Ether (TAME)
11.630 trans-1,3-Dichloropropene
13.325 Tetrachloroethene
14.490 m,p-Xylenes
15.483 p-Bromofluorobenzene
16.117 2-Chlorotoluene
17.315 sec-Butylbenzene
20.398 Naphthalene
Acquisition Time (min)

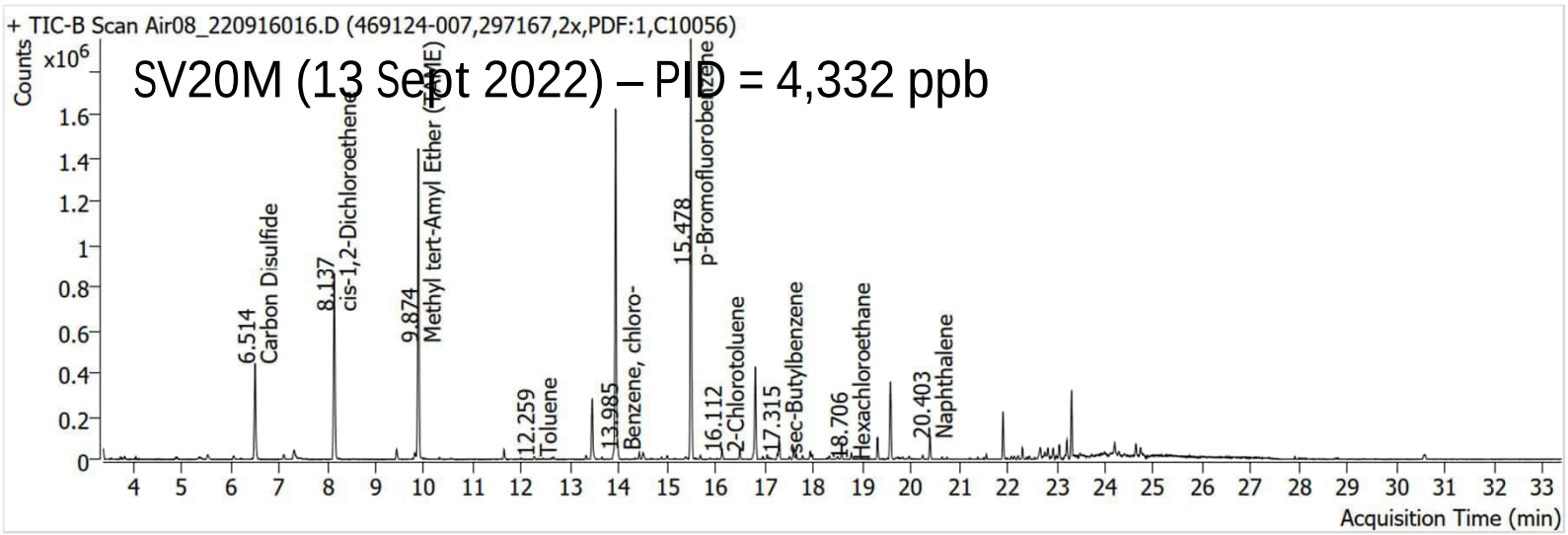

+ TIC-B Scan Air08_220916013.D (469124-004,297167,2x,PDF:1,C10034)
SV17D (13 Sept 2022) – PID = 3,160 ppb
Counts
x10^6
5.364 Acetone
6.551 Carbon Disulfide
8.140 cis-1,2-Dichloroethene
9.874 Cyclohexane
12.259 Toluene
13.325 Tetrachloroethene
15.177 n-Nonane
15.478 p-Bromofluorobenzene
17.309 sec-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)

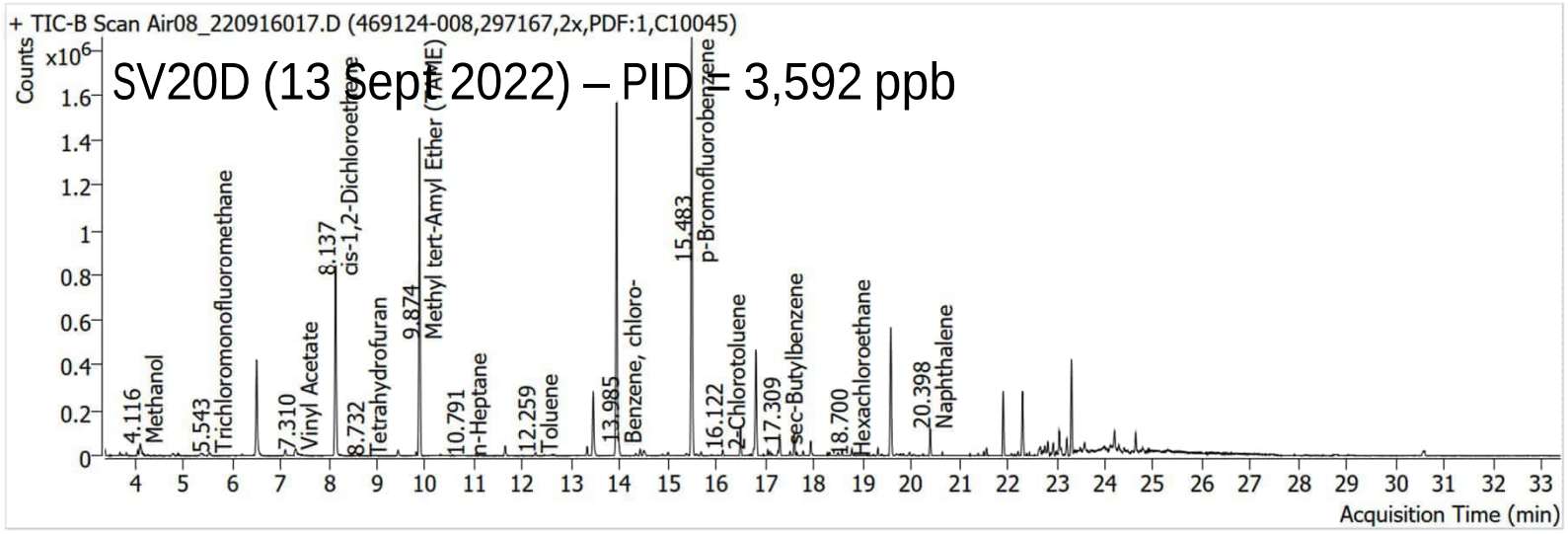

+ TIC-B Scan Air08_220918008.D (469124-004,297214,16x,PDF:1,C10034)
SV17D (13 Sept 2022) – PID = 3,160 ppb
Counts
x10^6
5.395 Acetone
7.113 MTBE
8.152 Isopropyl Ether (DIPE)
9.874 Cyclohexane
12.259 Toluene
13.974 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.805 tert-Butylbenzene
18.078 n-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_220916014.D (469124-005,297167,2x,PDF:1,C10073)
SV18S (13 Sept 2022) – PID = 8,202 ppb
Counts
x10^6
4.283 1,3-Butadiene
5.380 Acetone
7.314 Vinyl Acetate
8.141 Isopropyl Ether (DIPE)
9.874 Cyclohexane
11.121 4-Methyl-2-Pentanone
12.259 Toluene
13.329 Tetrachloroethene
14.489 m,p-Xylenes
15.483 p-Bromofluorobenzene
15.623 Isopropylbenzene
16.804 tert-Butylbenzene
18.056 n-Butylbenzene
20.403 Naphthalene
Acquisition Time (min)


+ TIC-B Scan Air08_220918007.D (469124-005,297214,2x,PDF:1,C10073)
SV18S (13 Sept 2022) – PID = 8,202 ppb
Counts
x10^6
4.287 1,3-Butadiene
5.384 Acetone
6.555 Carbon Disulfide
8.137 Ethyl Acetate
9.878 Methyl tert-Amyl Ether (TAME)
11.633 trans-1,3-Dichloropropene
13.321 Tetrachloroethene
14.495 m,p-Xylenes
15.478 p-Bromofluorobenzene
15.671 Isopropylbenzene
17.519 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

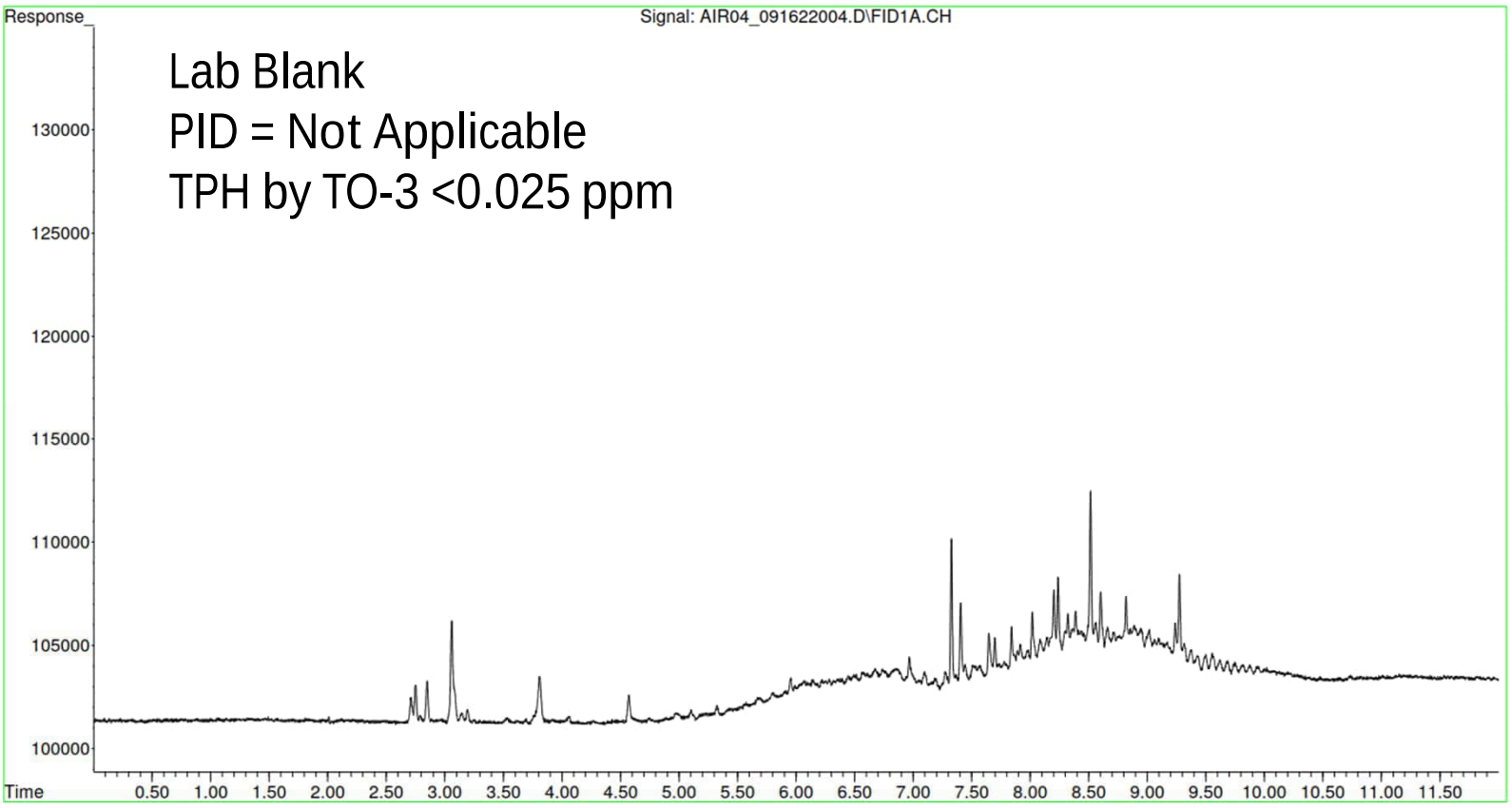

+ TIC-B Scan Air08_220916015.D (469124-006,297167,2x,PDF:1,C10177)
SV18D (13 Sept 2022) – PID = 8,432 ppb
Counts
x10^6
4.174 Vinyl Chloride
6.559 Carbon Disulfide
8.140 cis-1,2-Dichloroethene
9.877 Methyl tert-Amyl Ether (TAME)
12.259 Toluene
13.321 Tetrachloroethene
13.931 Benzene, chloro-
14.489 m,p-Xylenes
15.478 p-Bromofluorobenzene
15.623 Isopropylbenzene
16.960 1,2,4-Trimethylbenzene
18.056 n-Butylbenzene
20.398 Naphthalene
Acquisition Time (min)

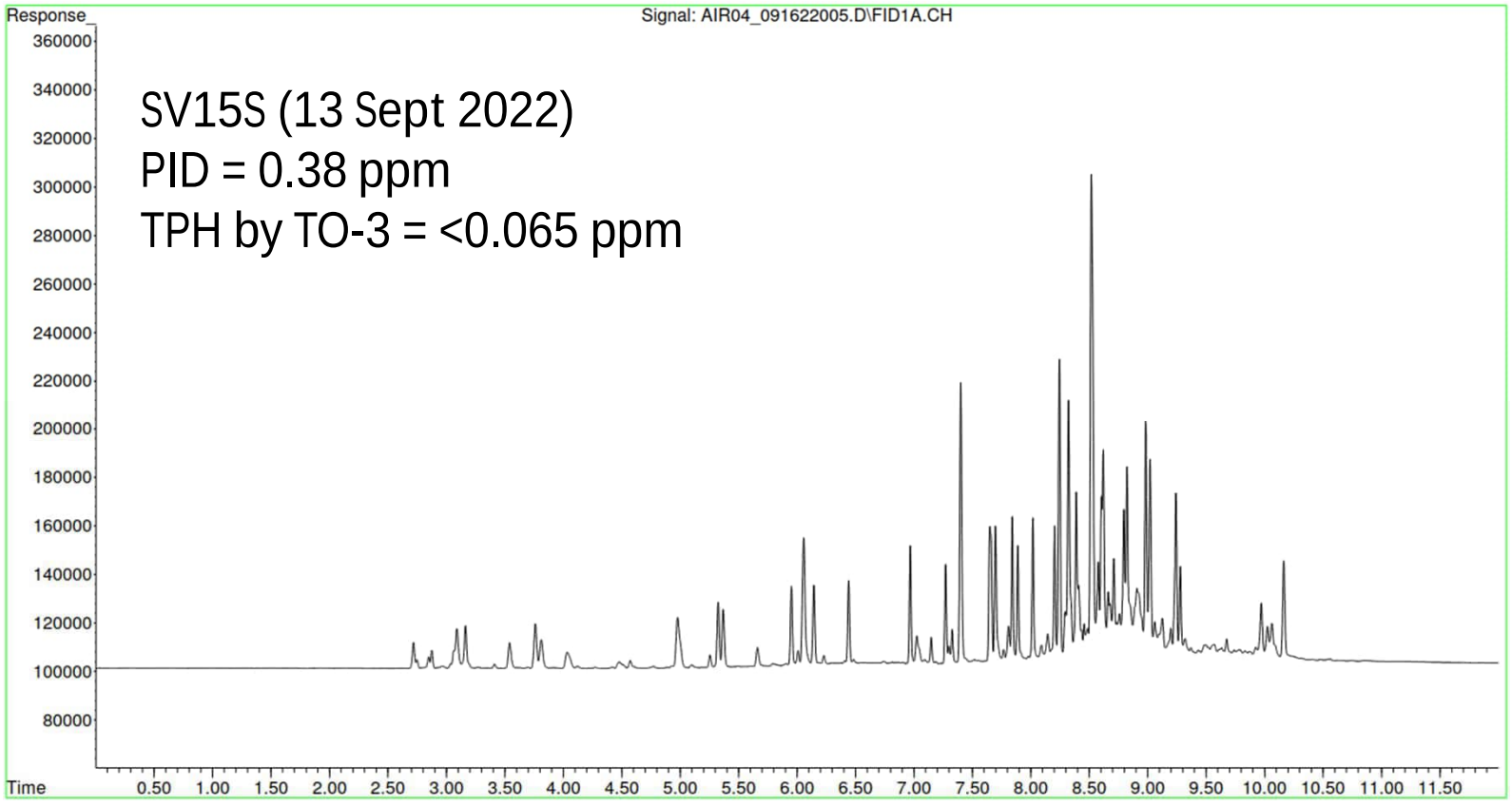

+ TIC-B Scan Air08_220916016.D (469124-007,297167,2x,PDF:1,C10056)
SV20M (13 Sept 2022) – PID = 4,332 ppb
Counts
x10^6
6.514 Carbon Disulfide
8.137 cis-1,2-Dichloroethene
9.874 Methyl tert-Amyl Ether (TAME)
12.259 Toluene
13.985 Benzene, chloro-
15.478 p-Bromofluorobenzene
16.112 2-Chlorotoluene
17.315 sec-Butylbenzene
18.706 Hexachloroethane
20.403 Naphthalene
Acquisition Time (min)

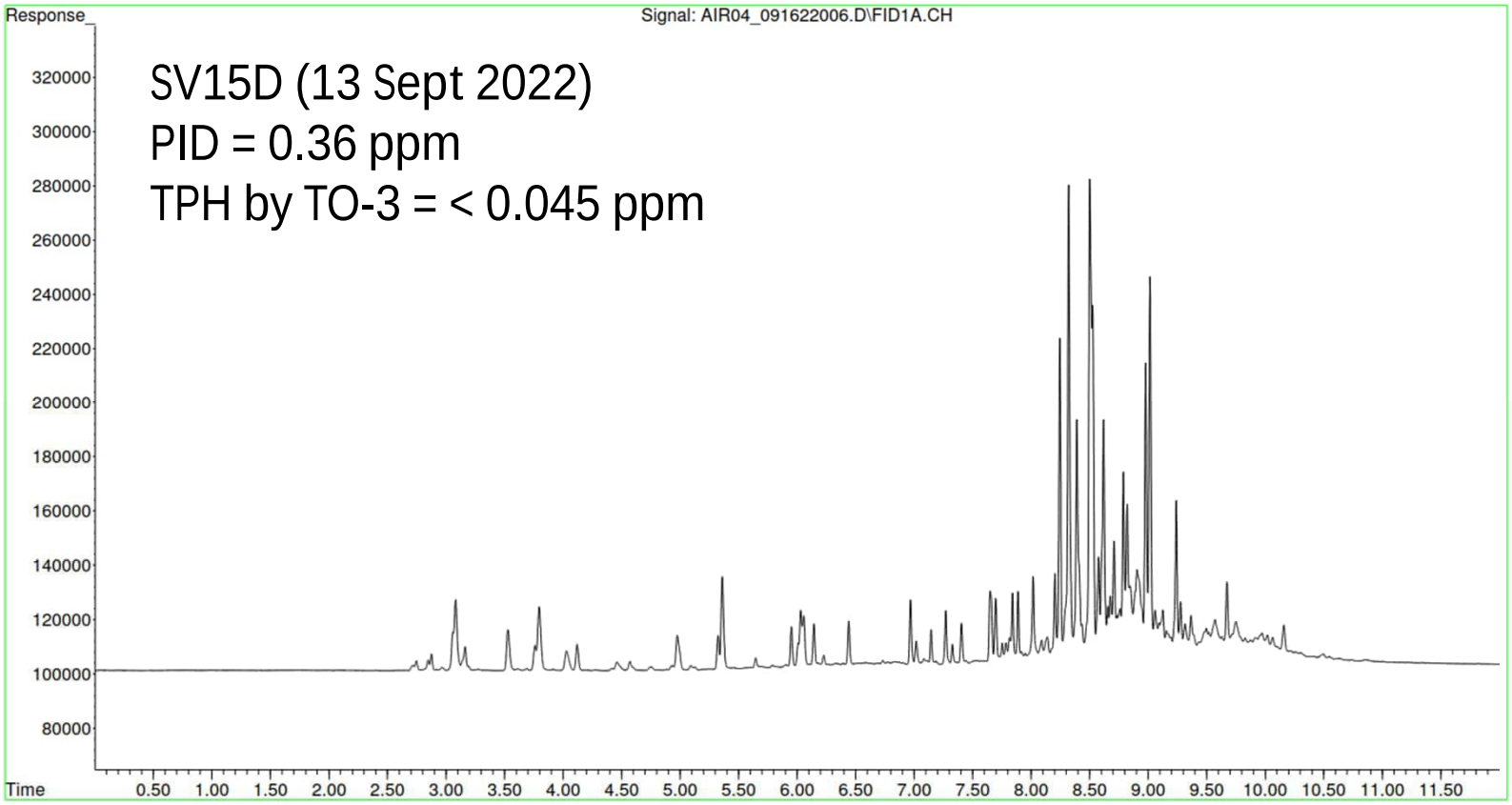

+ TIC-B Scan Air08_220916017.D (469124-008,297167,2x,PDF:1,C10045)
SV20D (13 Sept 2022) – PID = 3,592 ppb
Counts
x10^6
4.116 Methanol
5.543 Trichloromonofluoromethane
7.310 Vinyl Acetate
8.137 cis-1,2-Dichloroethene
8.732 Tetrahydrofuran
9.874 Methyl tert-Amyl Ether (TAME)
10.791 n-Heptane
12.259 Toluene
13.985 Benzene, chloro-
15.483 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.309 sec-Butylbenzene
18.700 Hexachloroethane
20.398 Naphthalene
Acquisition Time (min)

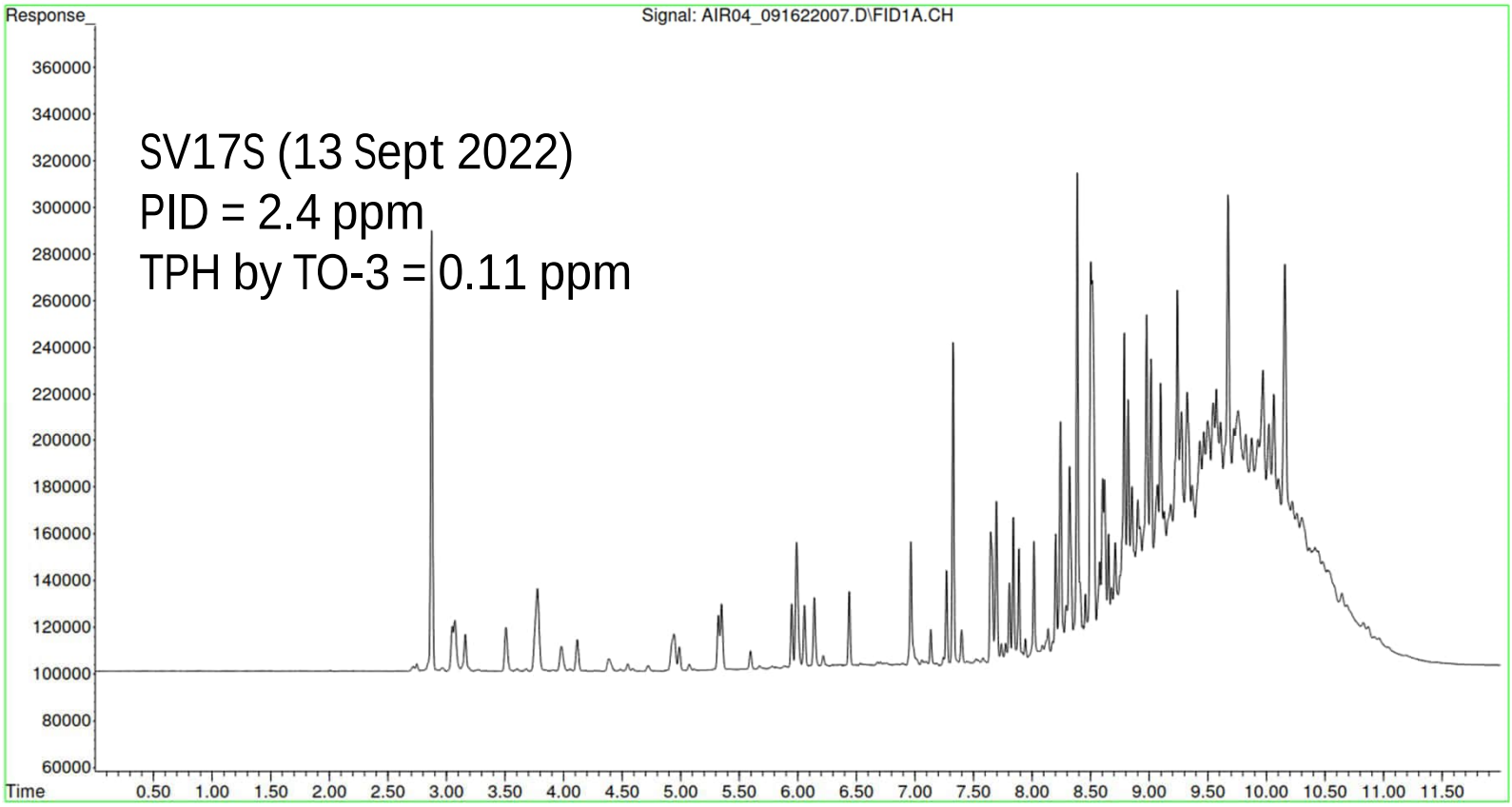
September 2022
Soil Vapor Samples

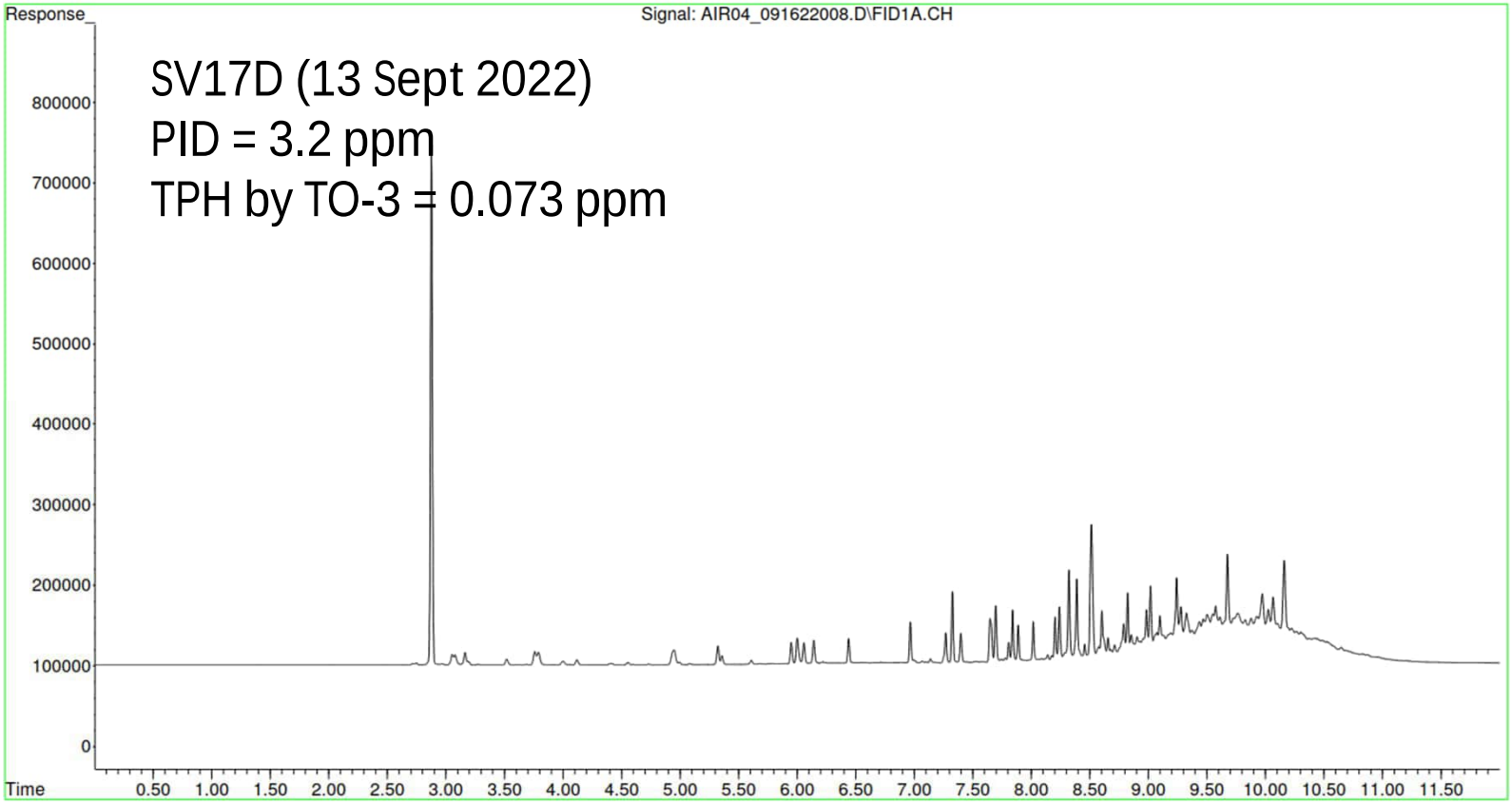
FID Chromatograms

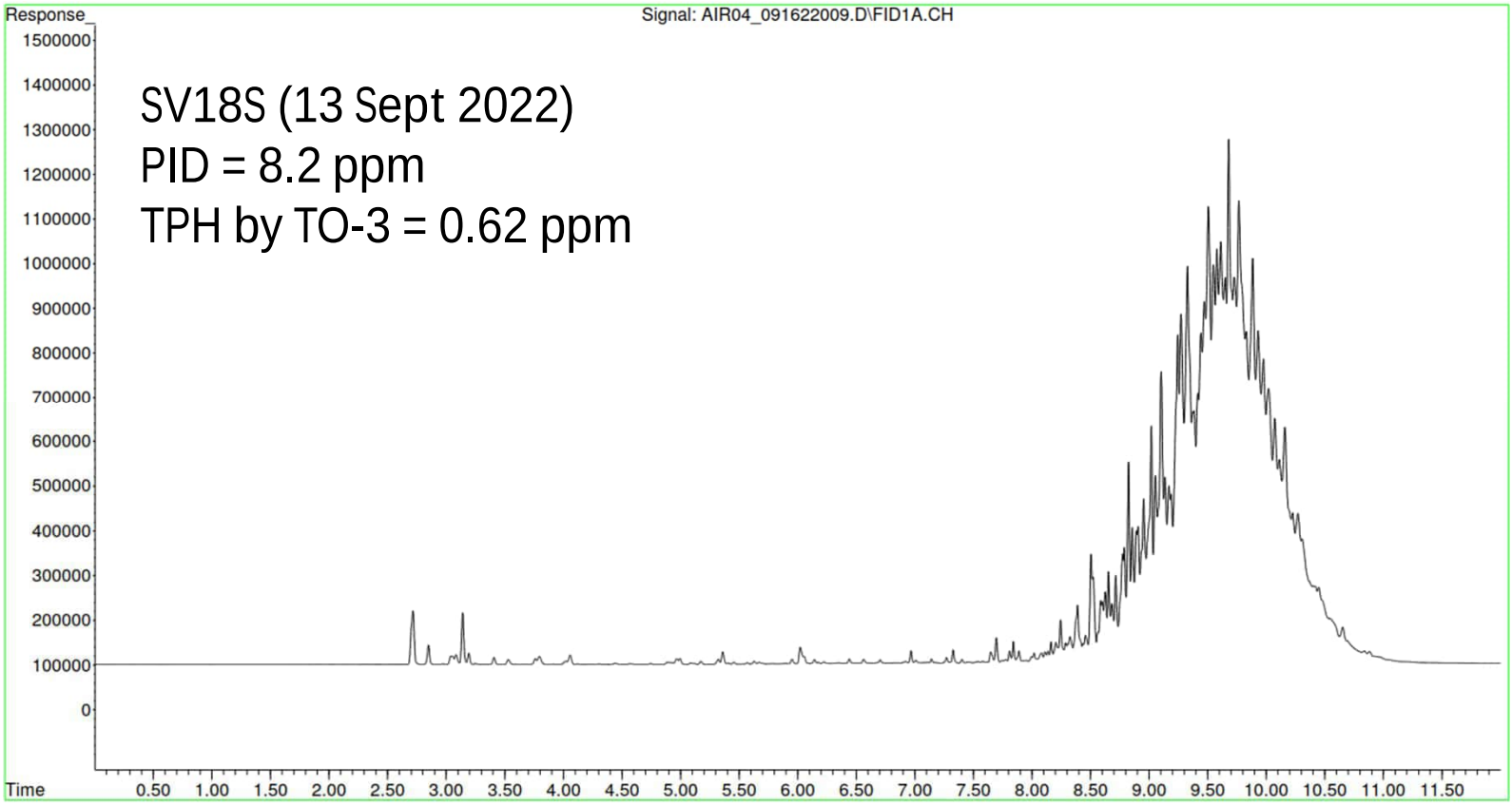

Response_
Signal: AIR04_091622004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

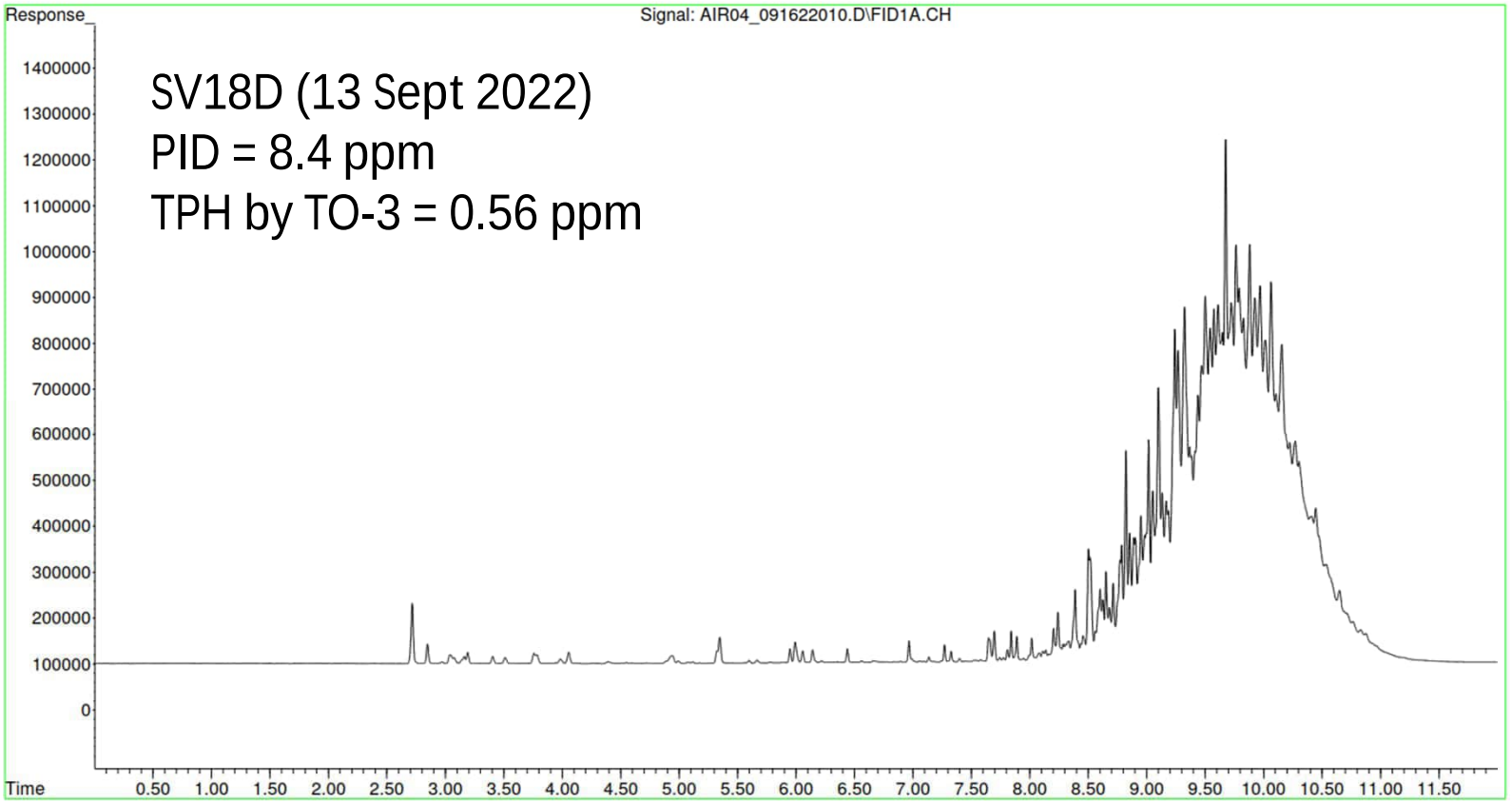

Response_
Signal: AIR04_091622005.D\FID1A.CH
SV15S (13 Sept 2022)
PID = 0.38 ppm
TPH by TO-3 = <0.065 ppm
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

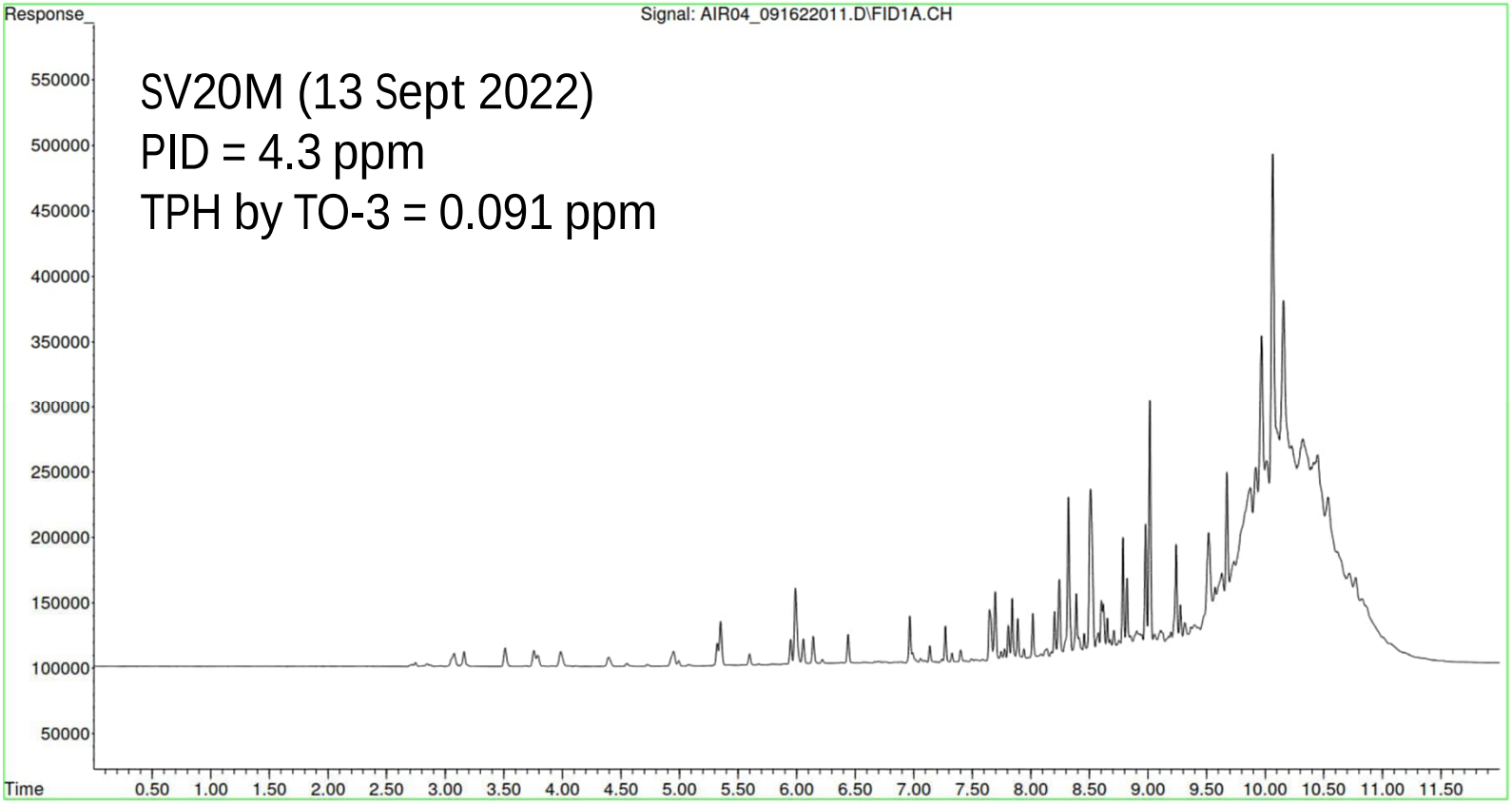

Response_
Signal: AIR04_091622006.D\FID1A.CH
SV15D (13 Sept 2022)
PID = 0.36 ppm
TPH by TO-3 = < 0.045 ppm
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

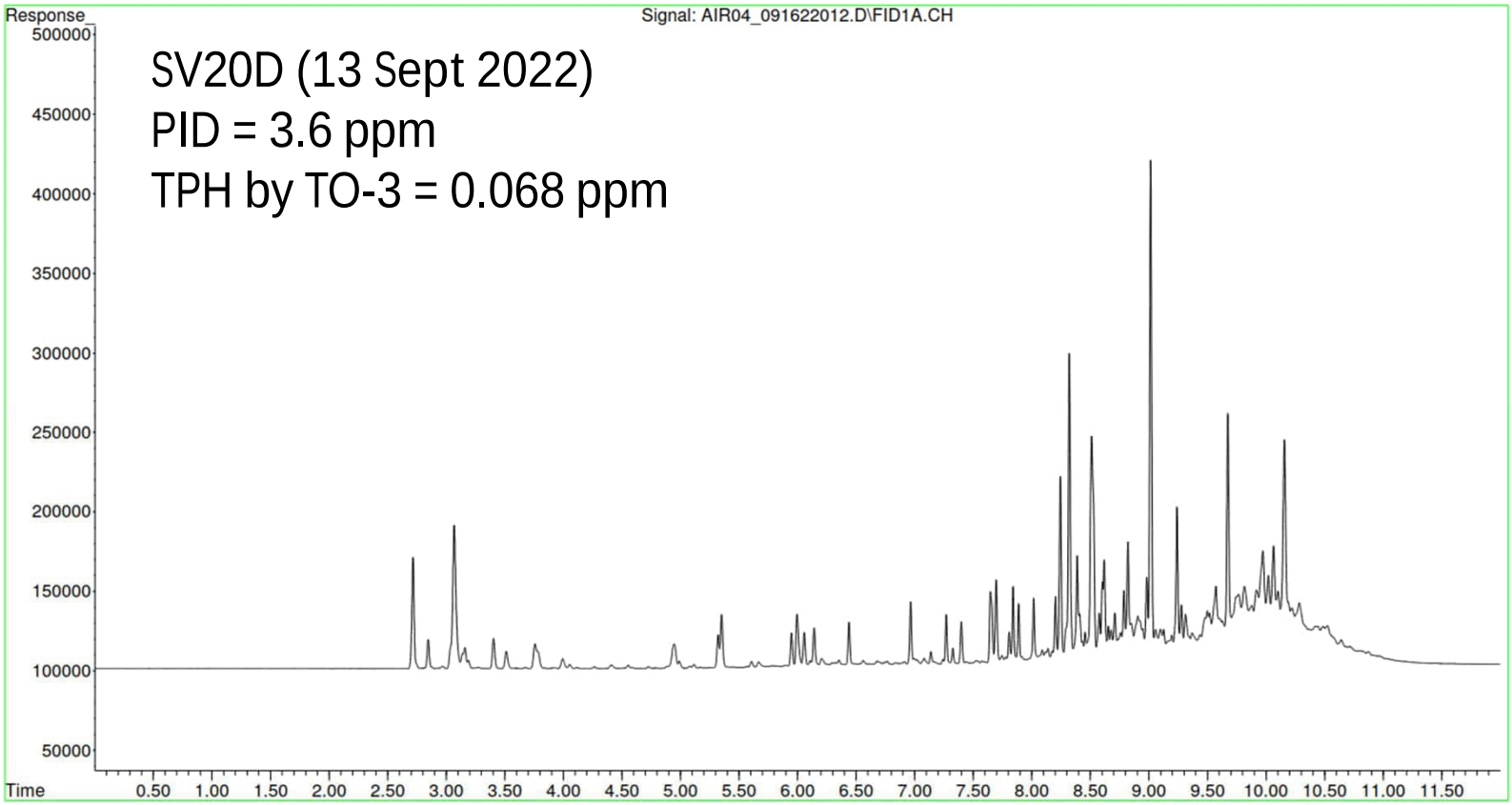

Response_
Signal: AIR04_091622007.D\FID1A.CH
SV17S (13 Sept 2022)
PID = 2.4 ppm
TPH by TO-3 = 0.11 ppm
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_091622008.D\FID1A.CH
SV17D (13 Sept 2022)
PID = 3.2 ppm
TPH by TO-3 = 0.073 ppm
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_091622009.D\FID1A.CH
SV18S (13 Sept 2022)
PID = 8.2 ppm
TPH by TO-3 = 0.62 ppm
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_091622010.D\FID1A.CH
SV18D (13 Sept 2022)
PID = 8.4 ppm
TPH by TO-3 = 0.56 ppm
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_091622011.D\FID1A.CH
SV20M (13 Sept 2022)
PID = 4.3 ppm
TPH by TO-3 = 0.091 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

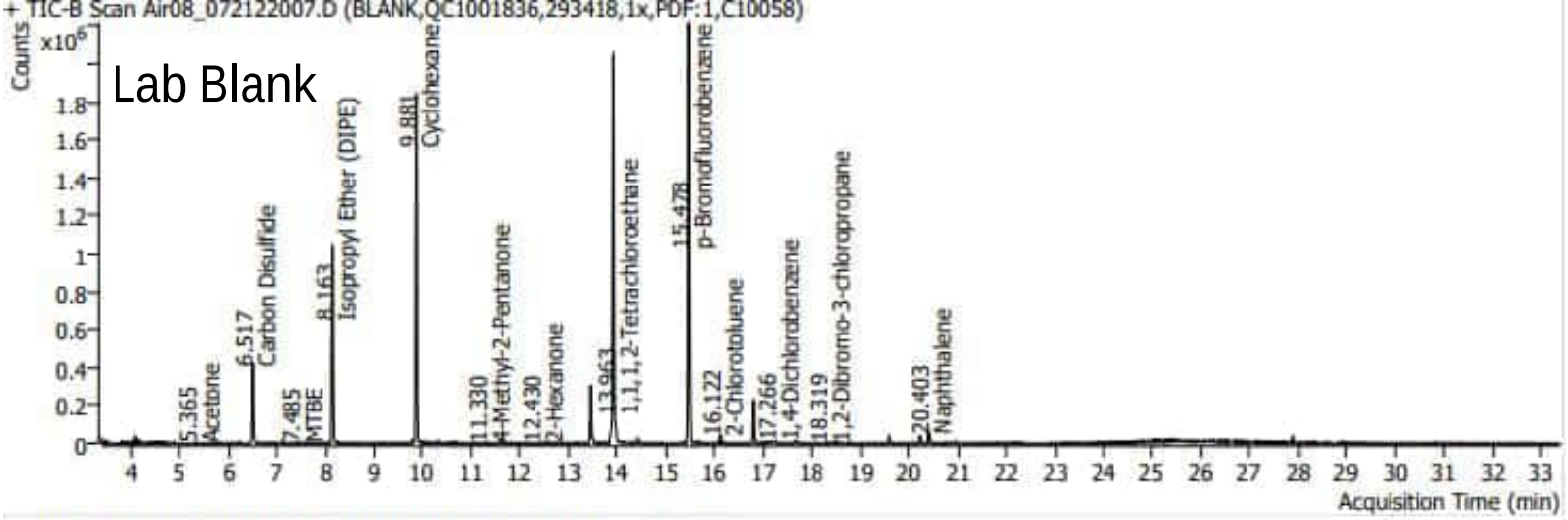

Response_
Signal: AIR04_091622012.D\FID1A.CH
SV20D (13 Sept 2022)
PID = 3.6 ppm
TPH by TO-3 = 0.068 ppm
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

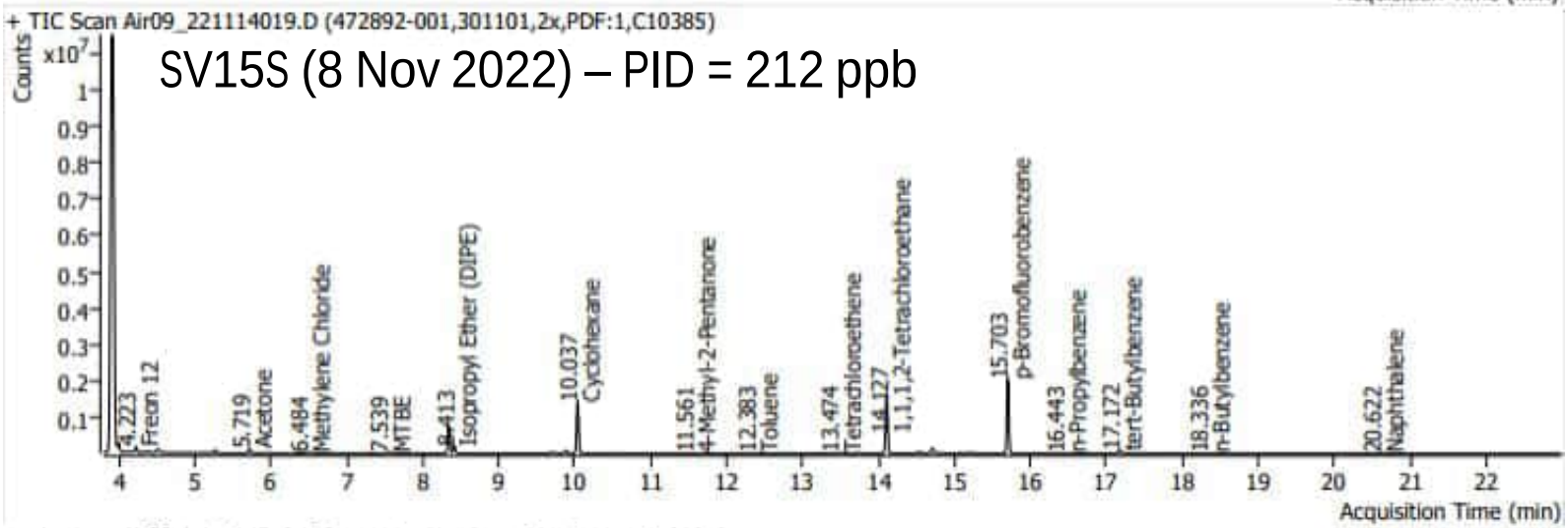
October 2022
Soil Vapor Samples

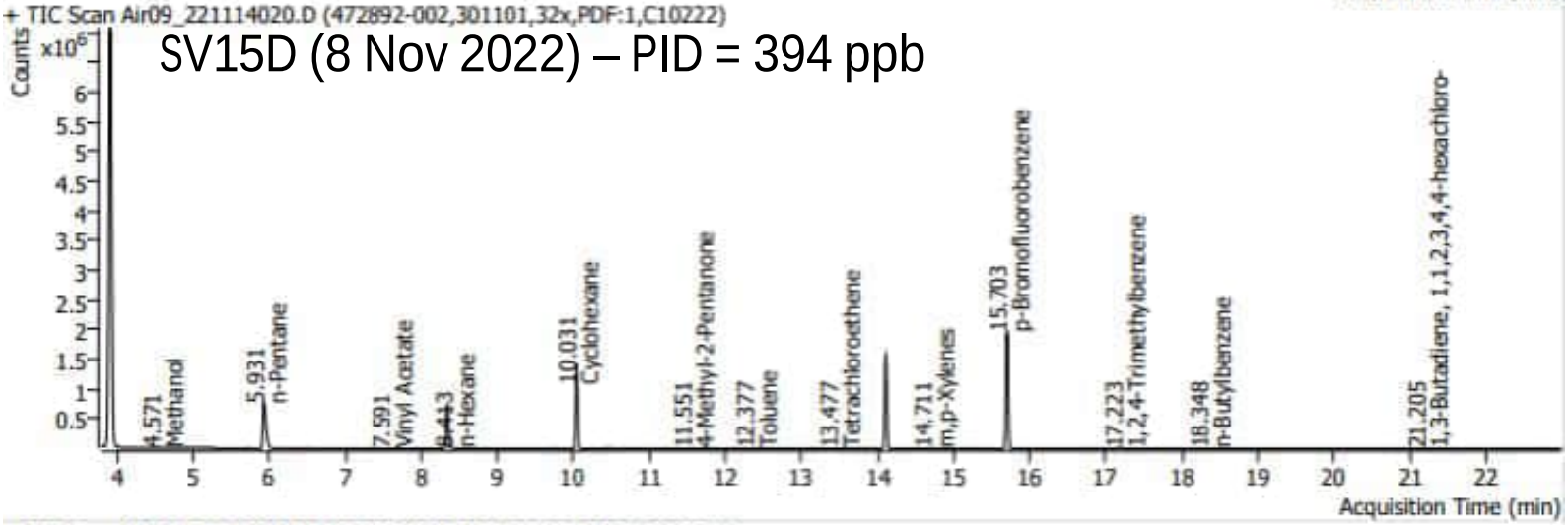
No Samples Were Collected During Unpacking Event.
Additional Samples Collected November 8, 2022.

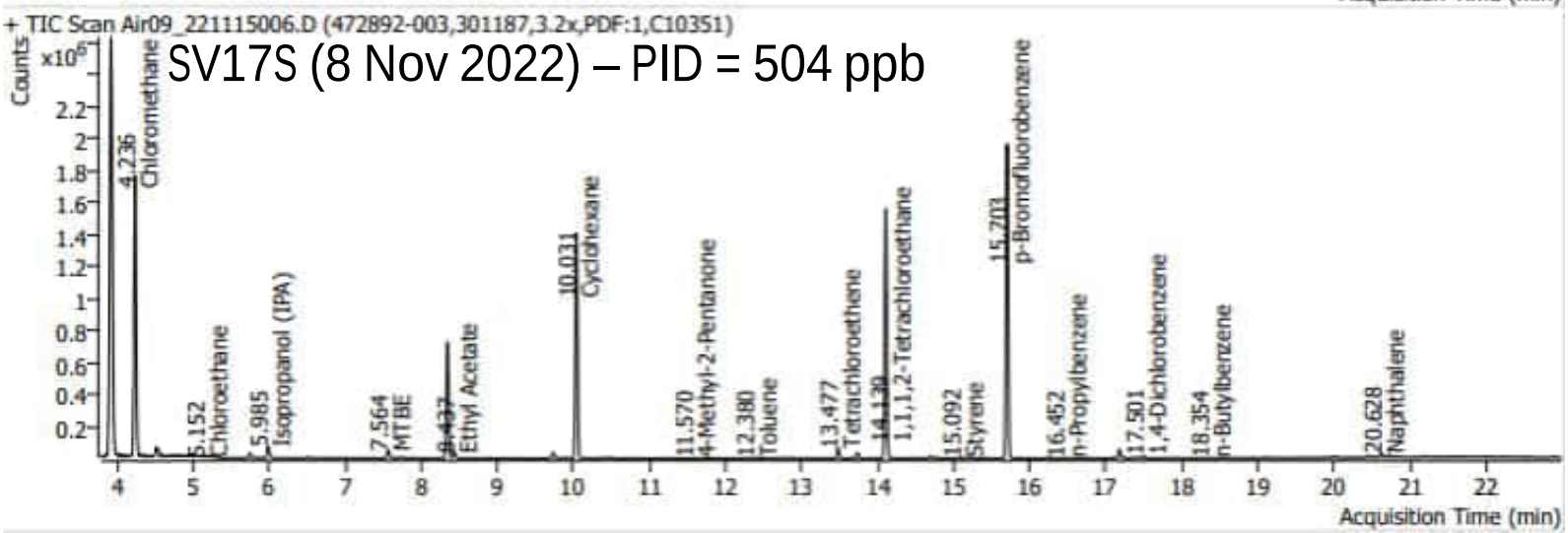
November 8, 2022
Soil Vapor Samples

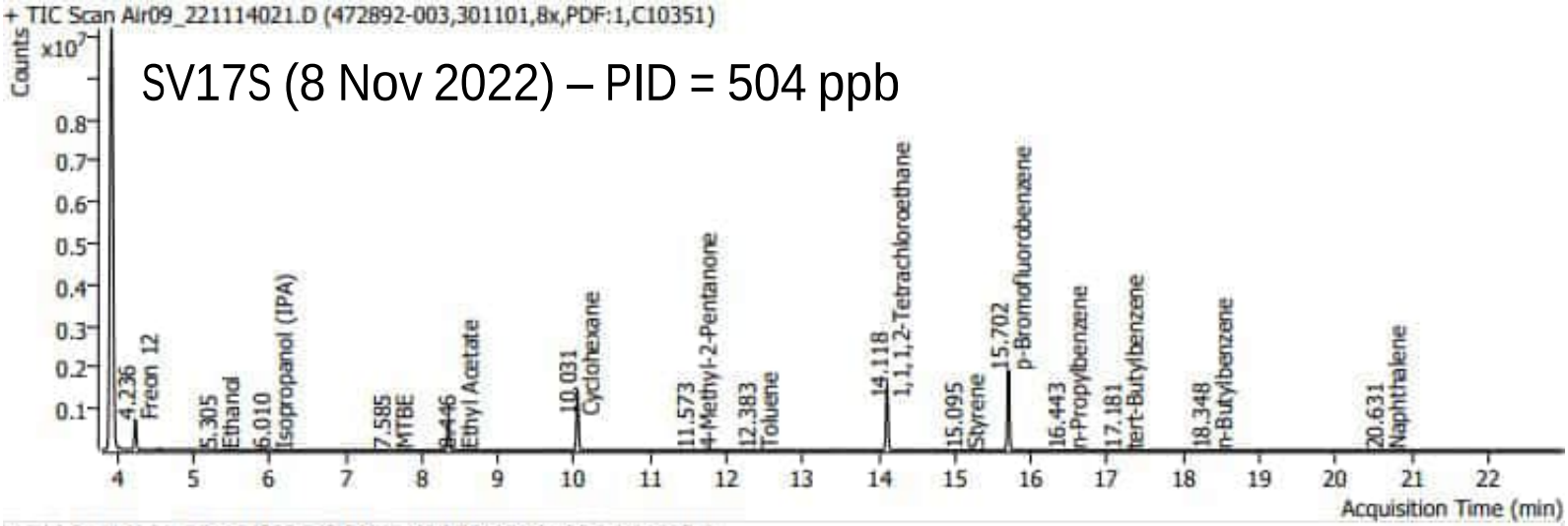
Mass Spec Chromatograms

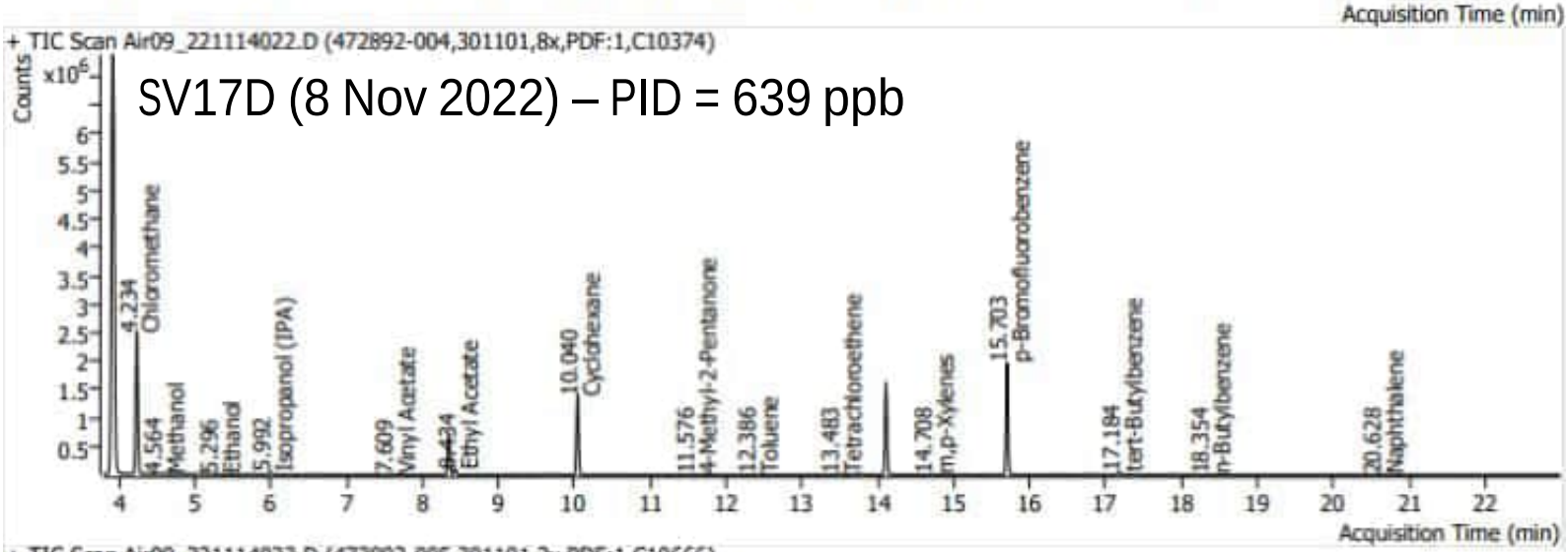

+ TIC-B Scan Air08_072122007.D (BLANK,QC1001836,293418,1x,PDF:1,C10058)
Lab Blank
Counts
x10^6
5.365 Acetone
6.517 Carbon Disulfide
7.485 MTBE
8.163 Isopropyl Ether (DIPE)
9.881 Cyclohexane
11.330 4-Methyl-2-Pentanone
12.430 2-Hexanone
13.963 1,1,1,2-Tetrachloroethane
15.478 p-Bromofluorobenzene
16.122 2-Chlorotoluene
17.266 1,4-Dichlorobenzene
18.319 1,2-Dibromo-3-chloropropane
20.403 Naphthalene
Acquisition Time (min)

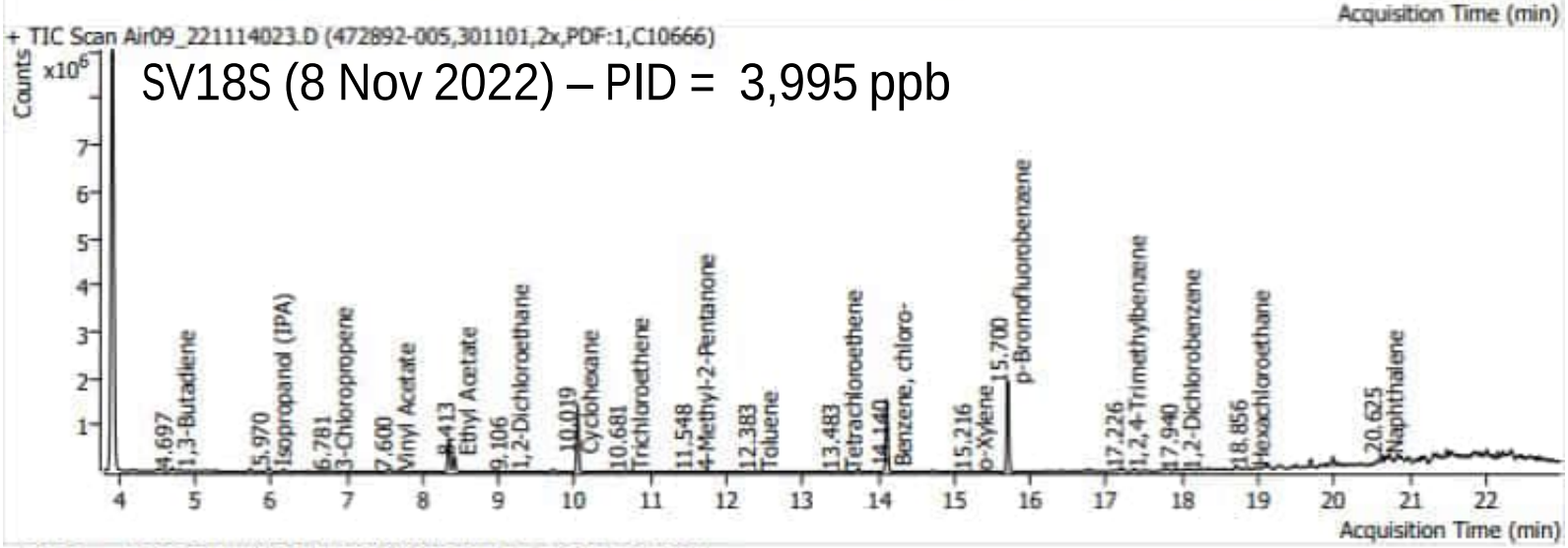

+ TIC Scan Air09_221114019.D (472892-001,301101,2x,PDF:1,C10385)
SV15S (8 Nov 2022) – PID = 212 ppb
Counts
x10^7
4.223 Freon 12
5.719 Acetone
6.484 Methylene Chloride
7.539 MTBE
8.413 Isopropyl Ether (DIPE)
10.037 Cyclohexane
11.561 4-Methyl-2-Pentanone
12.383 Toluene
13.474 Tetrachloroethene
14.127 1,1,1,2-Tetrachloroethane
15.703 p-Bromofluorobenzene
16.443 n-Propylbenzene
17.172 tert-Butylbenzene
18.336 n-Butylbenzene
20.622 Naphthalene
Acquisition Time (min)

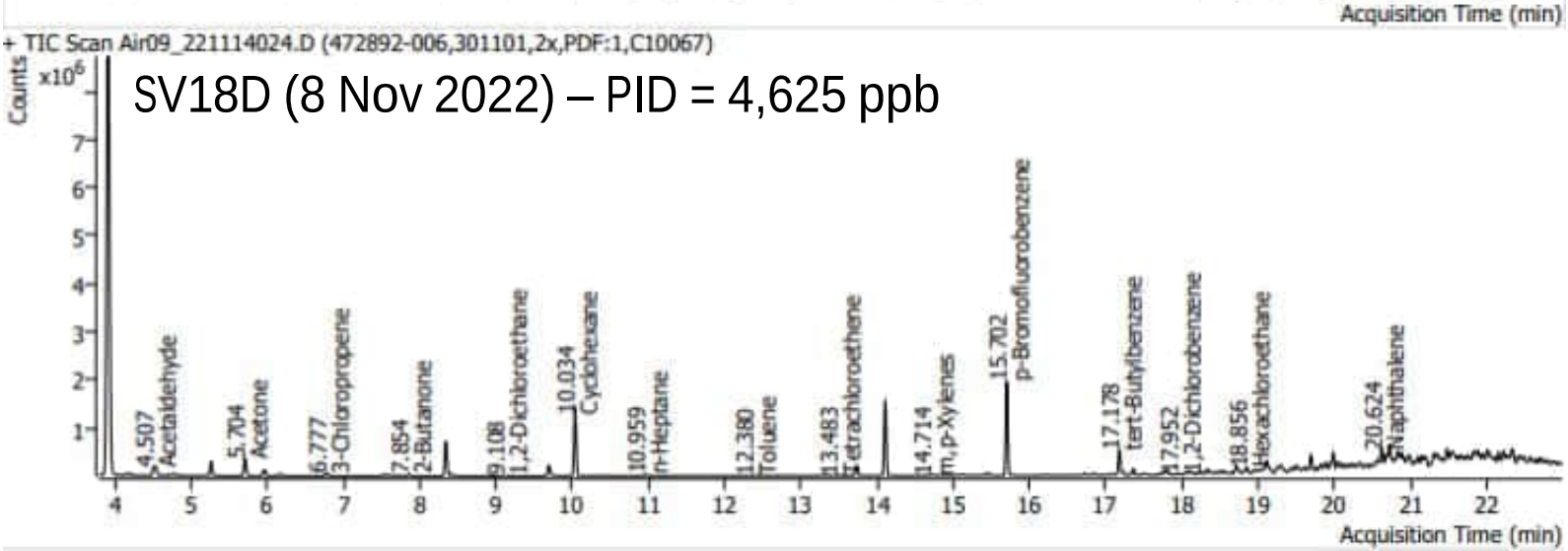

+ TIC Scan Air09_221114020.D (472892-002,301101,32x,PDF:1,C10222)
SV15D (8 Nov 2022) – PID = 394 ppb
Counts
x10^6
4.571 Methanol
5.931 n-Pentane
7.591 Vinyl Acetate
8.413 n-Hexane
10.031 Cyclohexane
11.551 4-Methyl-2-Pentanone
12.377 Toluene
13.477 Tetrachloroethene
14.711 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.223 1,2,4-Trimethylbenzene
18.348 n-Butylbenzene
21.205 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

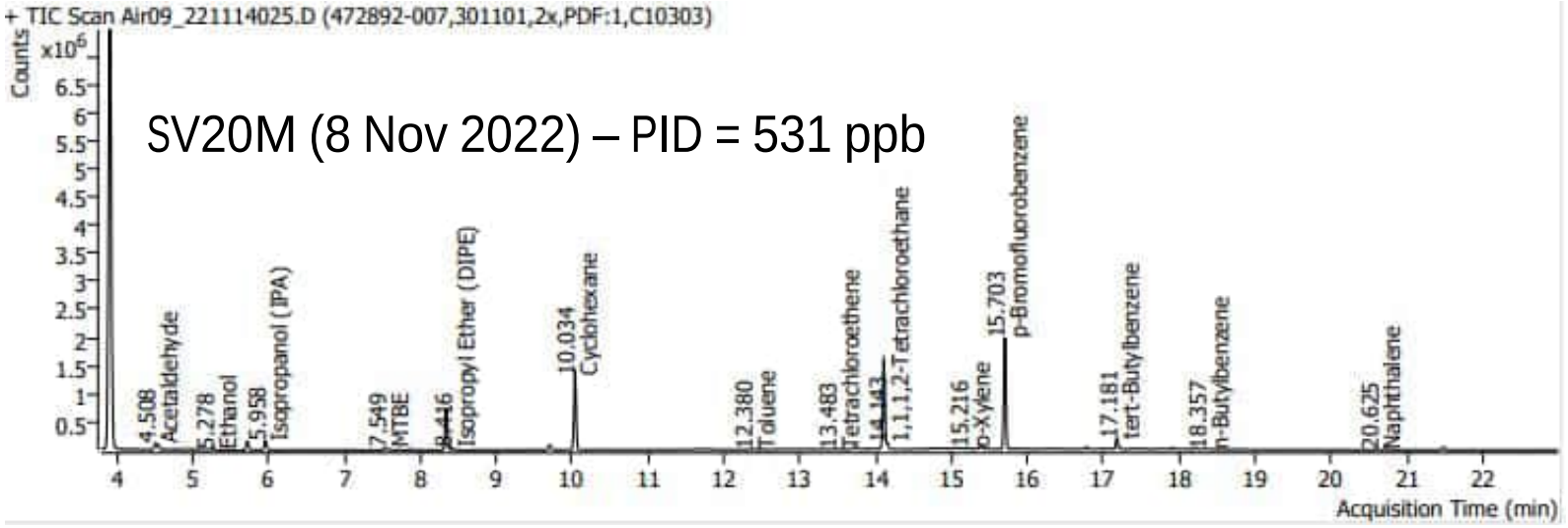

+ TIC Scan Air09_221115006.D (472892-003,301187,3.2x,PDF:1,C10351)
SV17S (8 Nov 2022) – PID = 504 ppb
Counts
x10^6
4.236 Chloromethane
5.152 Chloroethane
5.985 Isopropanol (IPA)
7.564 MTBE
8.437 Ethyl Acetate
10.031 Cyclohexane
11.570 4-Methyl-2-Pentanone
12.380 Toluene
13.477 Tetrachloroethene
14.130 1,1,1,2-Tetrachloroethane
15.092 Styrene
15.703 p-Bromofluorobenzene
16.452 n-Propylbenzene
17.501 1,4-Dichlorobenzene
18.354 n-Butylbenzene
20.628 Naphthalene
Acquisition Time (min)

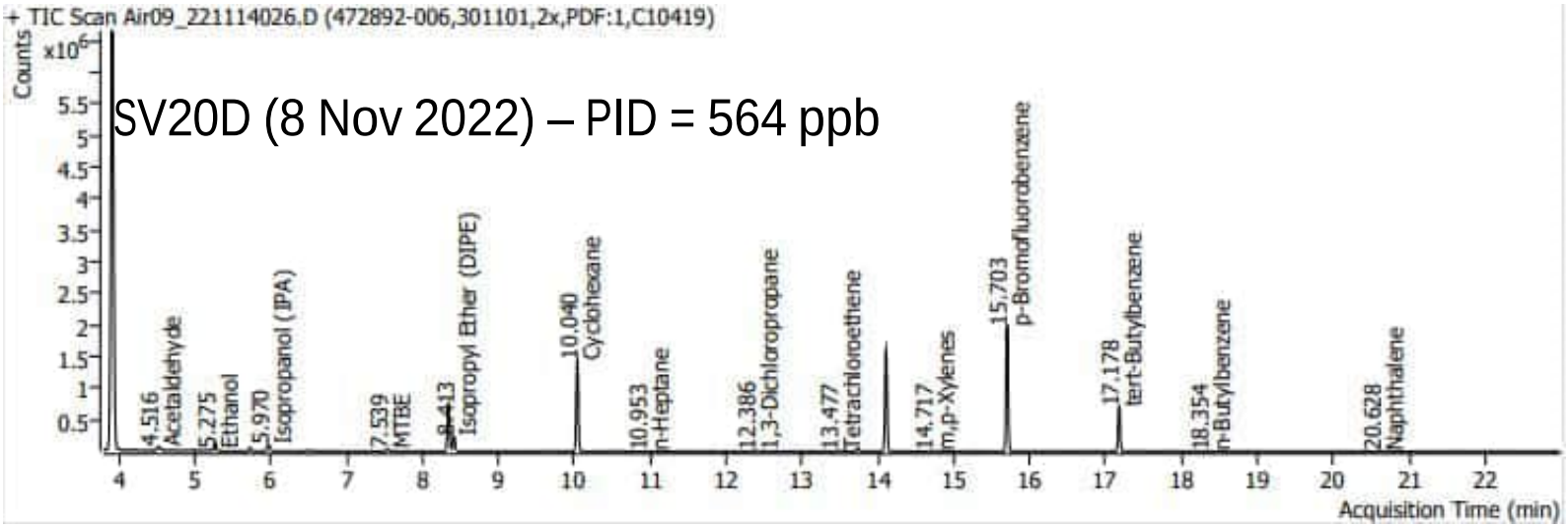

+ TIC Scan Air09_221114021.D (472892-003,301101,8x,PDF:1,C10351)
Counts
x10^7
SV17S (8 Nov 2022) – PID = 504 ppb
4.236 Freon 12
5.305 Ethanol
6.010 Isopropanol (IPA)
7.585 MTBE
8.446 Ethyl Acetate
10.031 Cyclohexane
11.573 4-Methyl-2-Pentanone
12.383 Toluene
14.118 1,1,1,2-Tetrachloroethane
15.095 Styrene
15.702 p-Bromofluorobenzene
16.443 n-Propylbenzene
17.181 tert-Butylbenzene
18.348 n-Butylbenzene
20.631 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221114022.D (472892-004,301101,8x,PDF:1,C10374)
Counts
x10^6
SV17D (8 Nov 2022) – PID = 639 ppb
4.234 Chloromethane
4.564 Methanol
5.296 Ethanol
5.992 Isopropanol (IPA)
7.609 Vinyl Acetate
8.434 Ethyl Acetate
10.040 Cyclohexane
11.576 4-Methyl-2-Pentanone
12.386 Toluene
13.483 Tetrachloroethene
14.708 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.184 tert-Butylbenzene
18.354 n-Butylbenzene
20.628 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221114023.D (472892-005,301101,2x,PDF:1,C10666)
Counts
x10^6
SV18S (8 Nov 2022) – PID = 3,995 ppb
4.697 1,3-Butadiene
5.970 Isopropanol (IPA)
6.781 3-Chloropropene
7.600 Vinyl Acetate
8.413 Ethyl Acetate
9.106 1,2-Dichloroethane
10.019 Cyclohexane
10.681 Trichloroethene
11.548 4-Methyl-2-Pentanone
12.383 Toluene
13.483 Tetrachloroethene
14.140 Benzene, chloro-
15.216 o-Xylene
15.700 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.940 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.625 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221114024.D (472892-006,301101,2x,PDF:1,C10067)
Counts
x10^6
SV18D (8 Nov 2022) – PID = 4,625 ppb
4.507 Acetaldehyde
5.704 Acetone
6.777 3-Chloropropene
7.854 2-Butanone
9.108 1,2-Dichloroethane
10.034 Cyclohexane
10.959 n-Heptane
12.380 Toluene
13.483 Tetrachloroethene
14.714 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.178 tert-Butylbenzene
17.952 1,2-Dichlorobenzene
18.856 Hexachloroethane
20.624 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221114025.D (472892-007,301101,2x,PDF:1,C10303)
Counts
x10^6
SV20M (8 Nov 2022) – PID = 531 ppb
4.508 Acetaldehyde
5.278 Ethanol
5.958 Isopropanol (IPA)
7.549 MTBE
8.416 Isopropyl Ether (DIPE)
10.034 Cyclohexane
12.380 Toluene
13.483 Tetrachloroethene
14.143 1,1,1,2-Tetrachloroethane
15.216 o-Xylene
15.703 p-Bromofluorobenzene
17.181 tert-Butylbenzene
18.357 n-Butylbenzene
20.625 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221114026.D (472892-006,301101,2x,PDF:1,C10419)
Counts
x10^6
SV20D (8 Nov 2022) – PID = 564 ppb
4.516 Acetaldehyde
5.275 Ethanol
5.970 Isopropanol (IPA)
7.539 MTBE
8.413 Isopropyl Ether (DIPE)
10.040 Cyclohexane
10.953 n-Heptane
12.386 1,3-Dichloropropane
13.477 Tetrachloroethene
14.717 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.178 tert-Butylbenzene
18.354 n-Butylbenzene
20.628 Naphthalene
Acquisition Time (min)

November 8,2022
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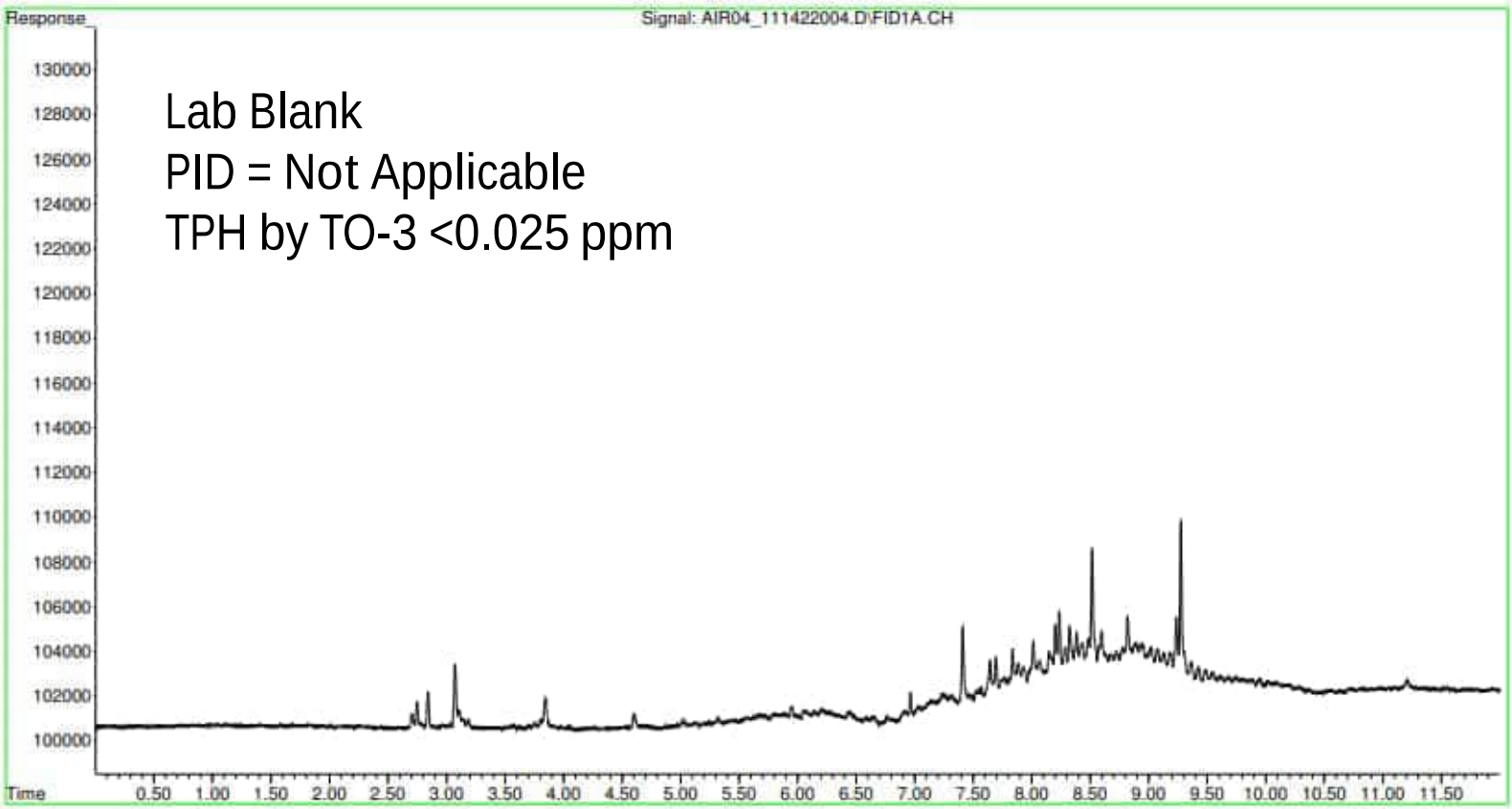
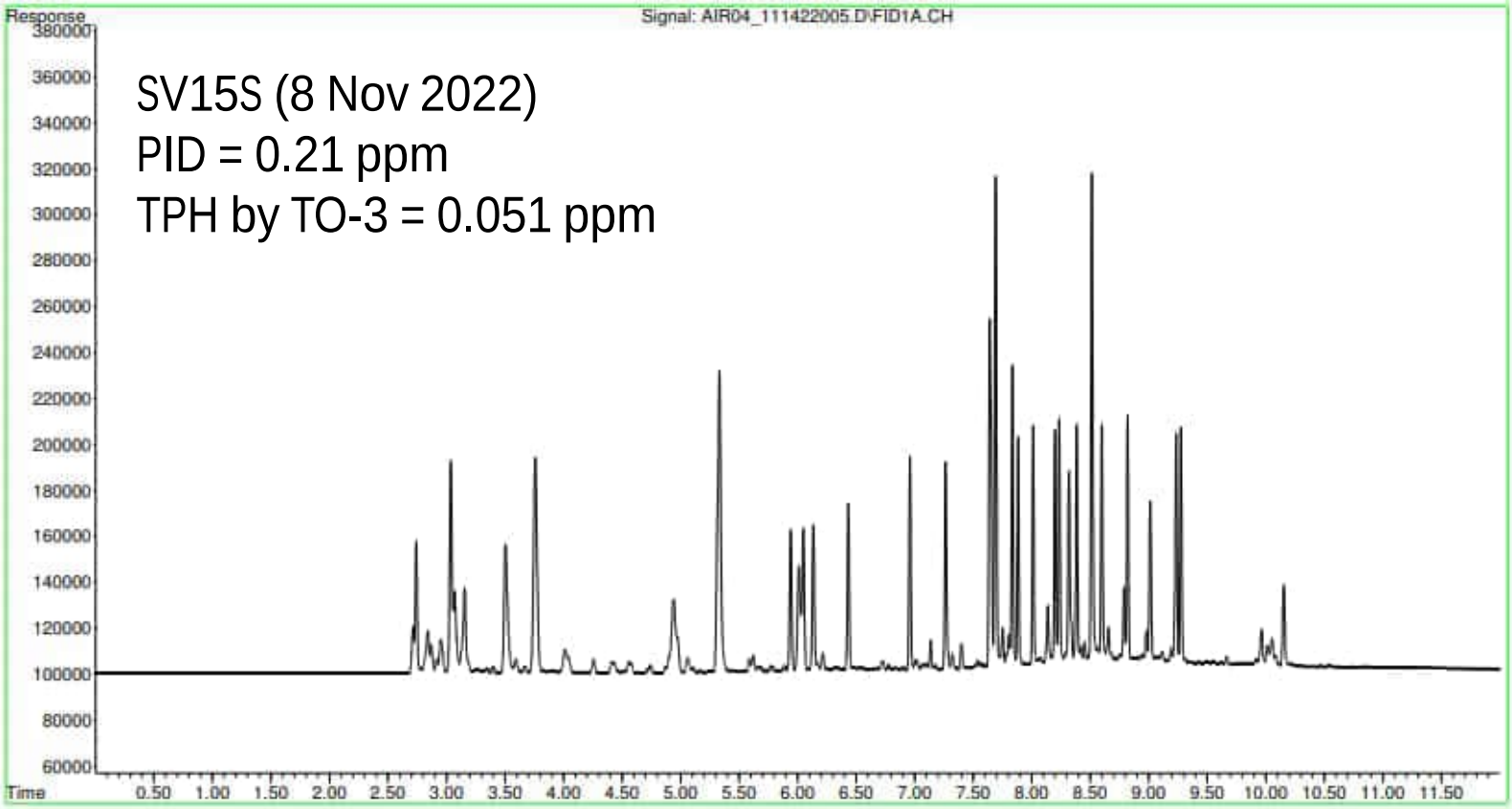
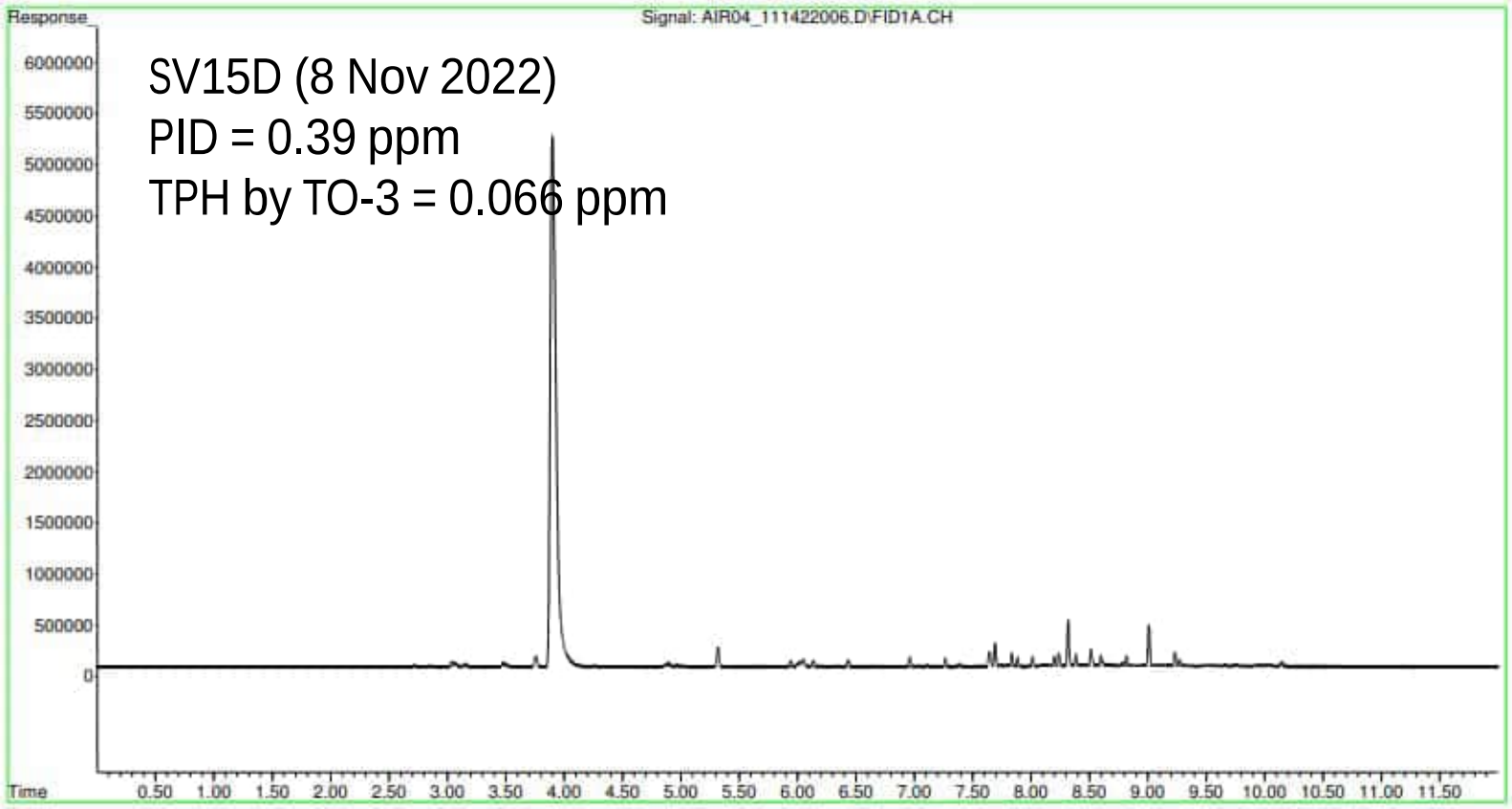
FID Chromatograms

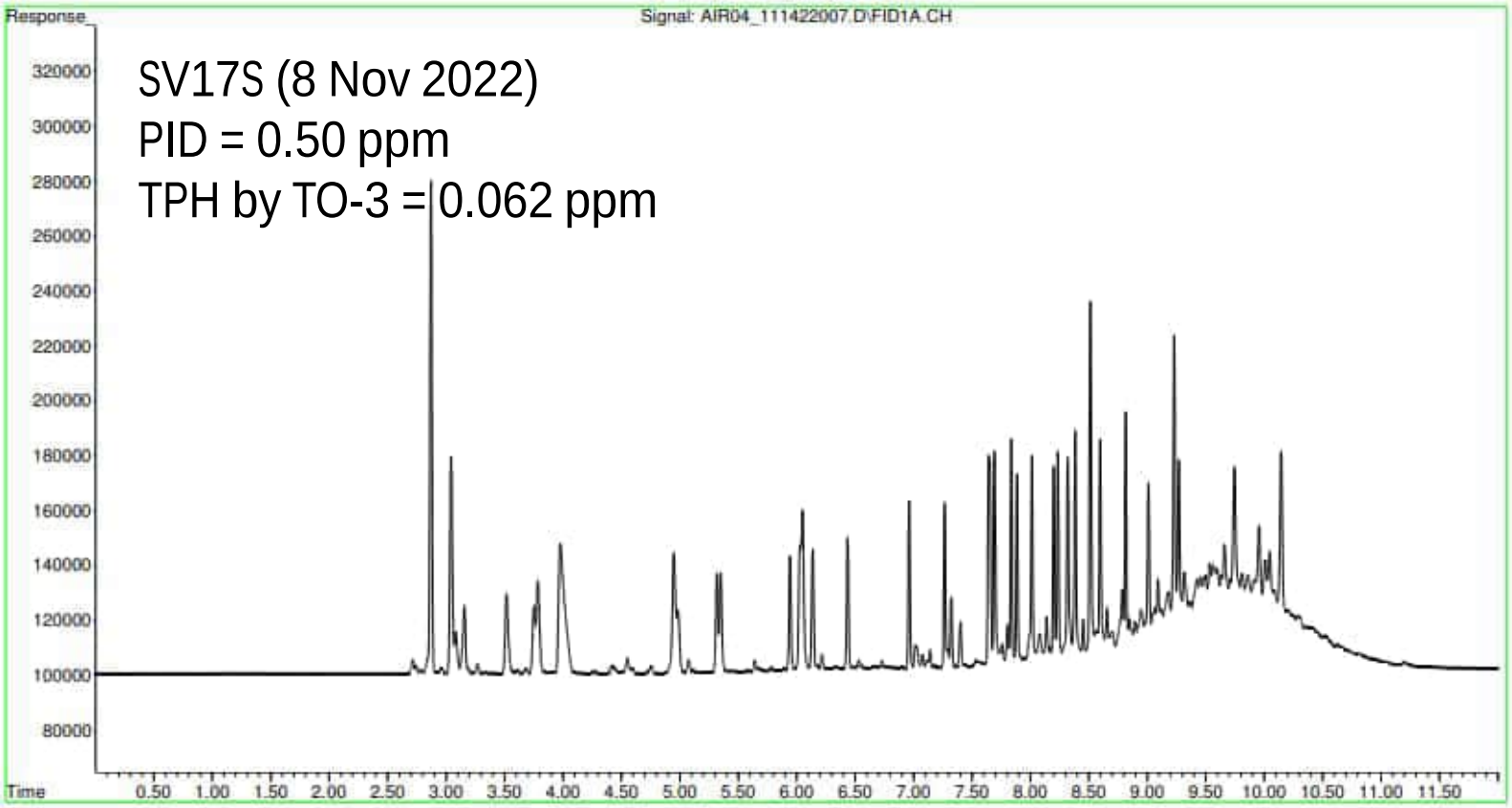


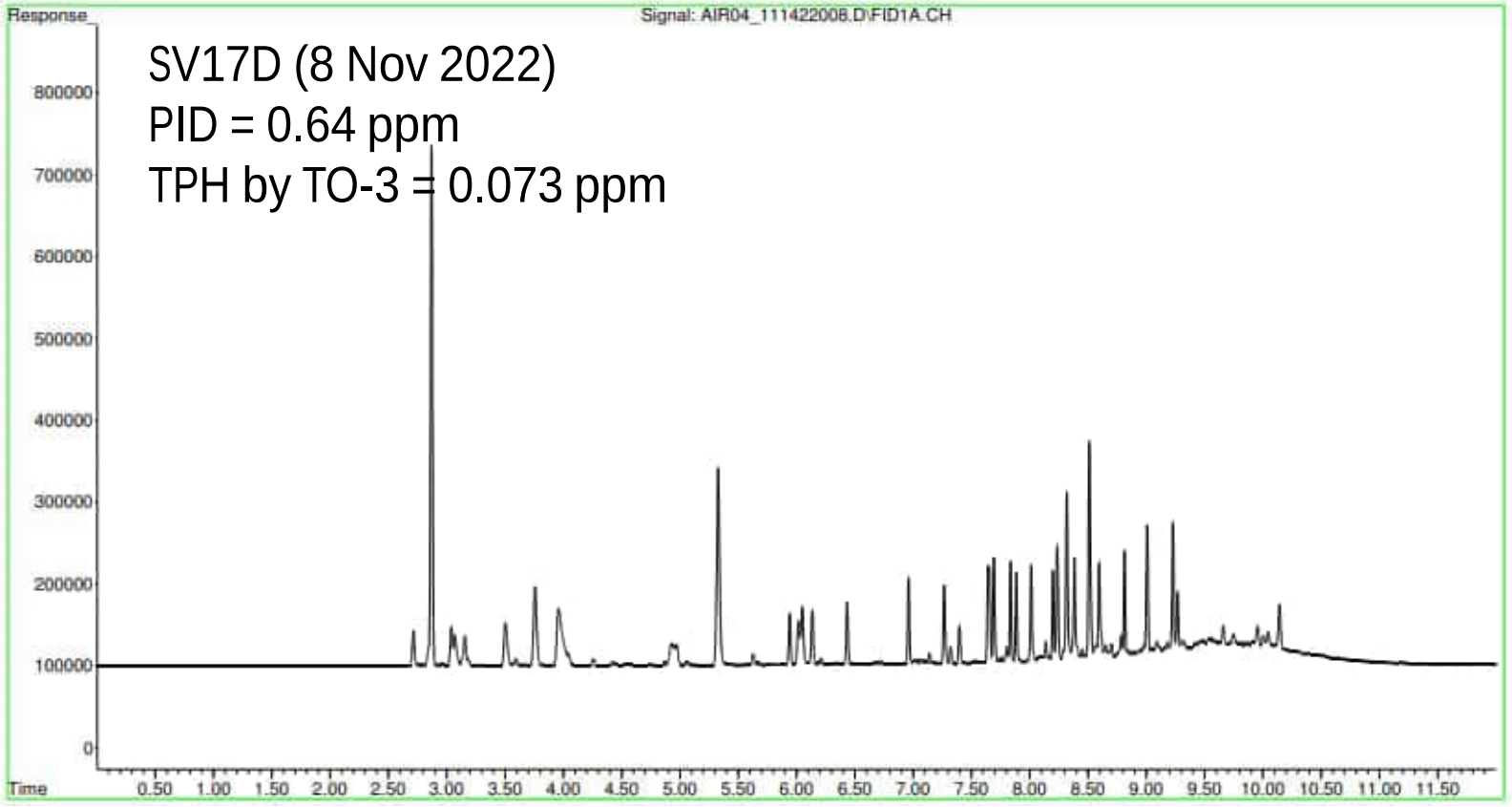
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

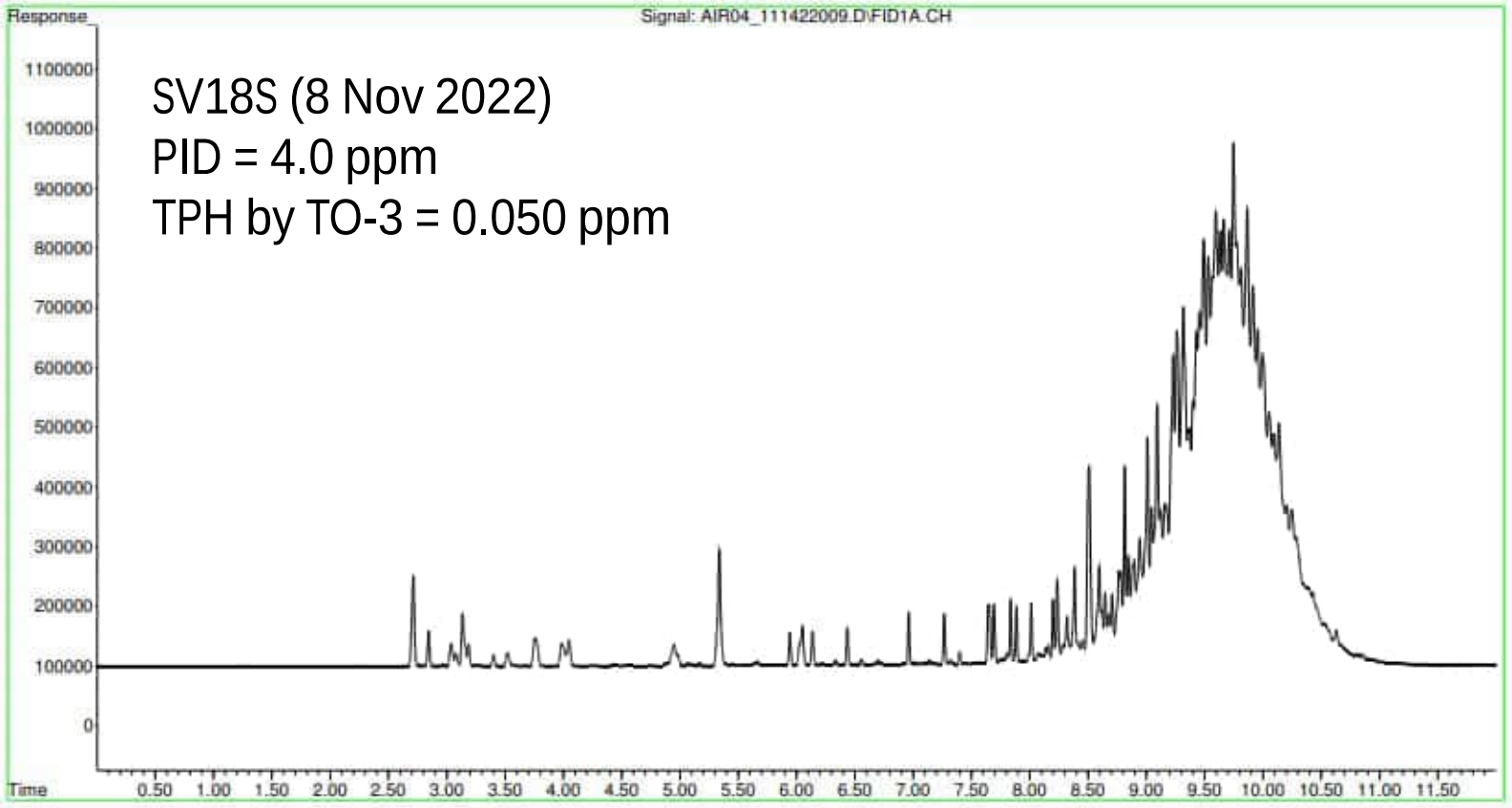


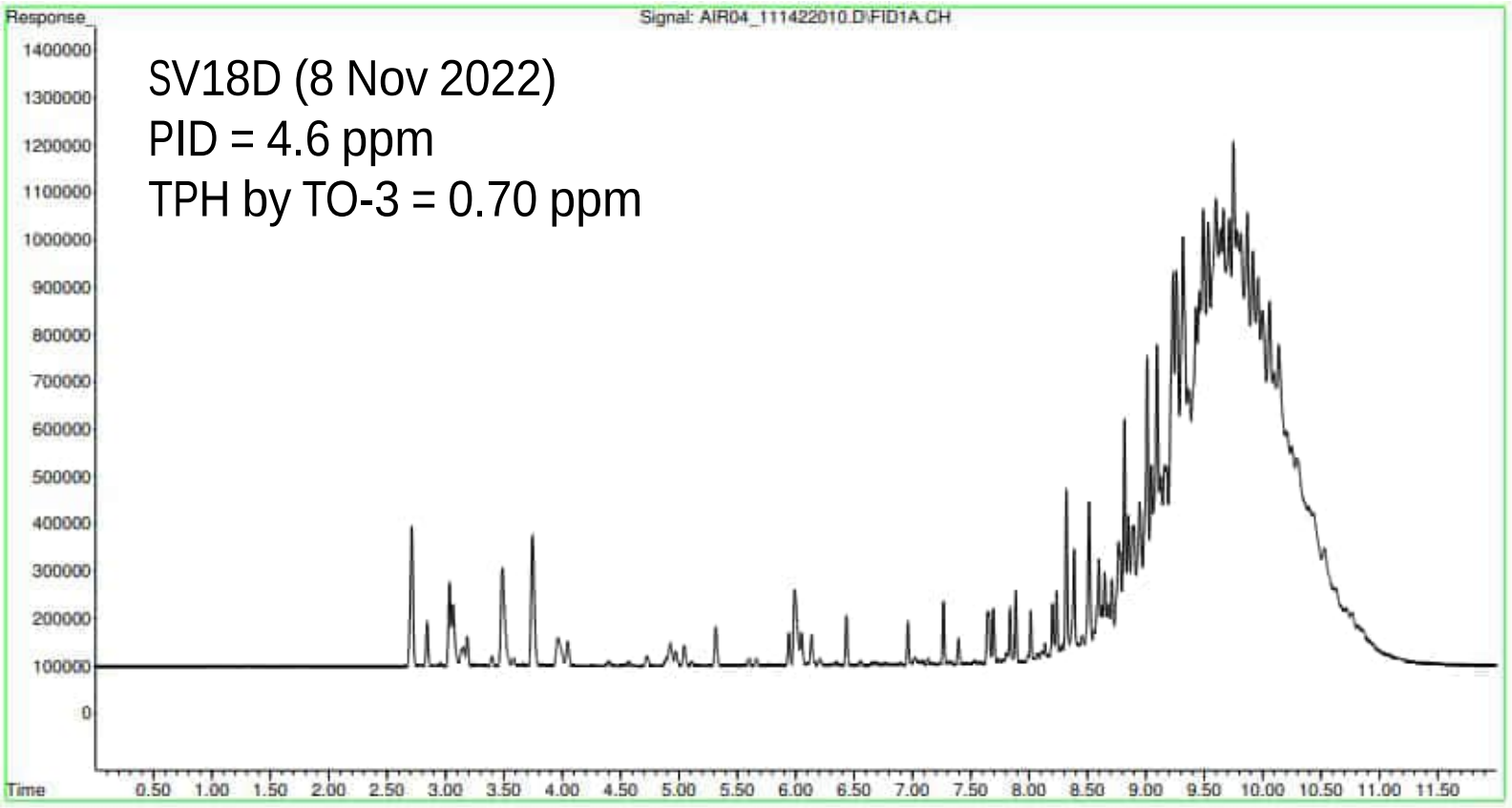
SV15S (8 Nov 2022)
PID = 0.21 ppm
TPH by TO-3 = 0.051 ppm


Response_
Signal: AIR04_111422006.D\FID1A.CH
SV15D (8 Nov 2022)
PID = 0.39 ppm
TPH by TO-3 = 0.066 ppm
6000000
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

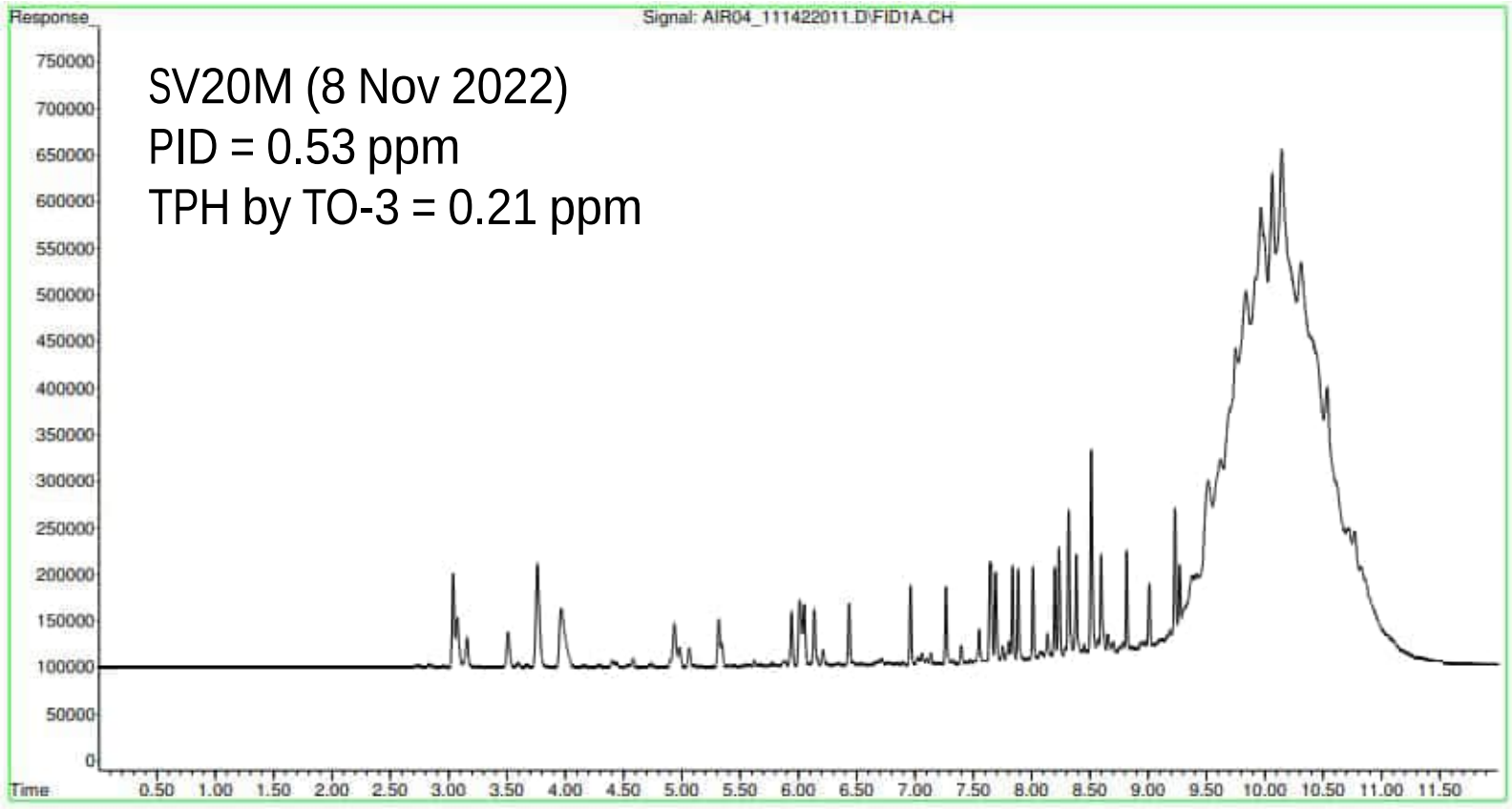

Response_
Signal: AIR04_111422007.D\FID1A.CH
SV17S (8 Nov 2022)
PID = 0.50 ppm
TPH by TO-3 = 0.062 ppm
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_111422008.D\FID1A.CH
SV17D (8 Nov 2022)
PID = 0.64 ppm
TPH by TO-3 = 0.073 ppm
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

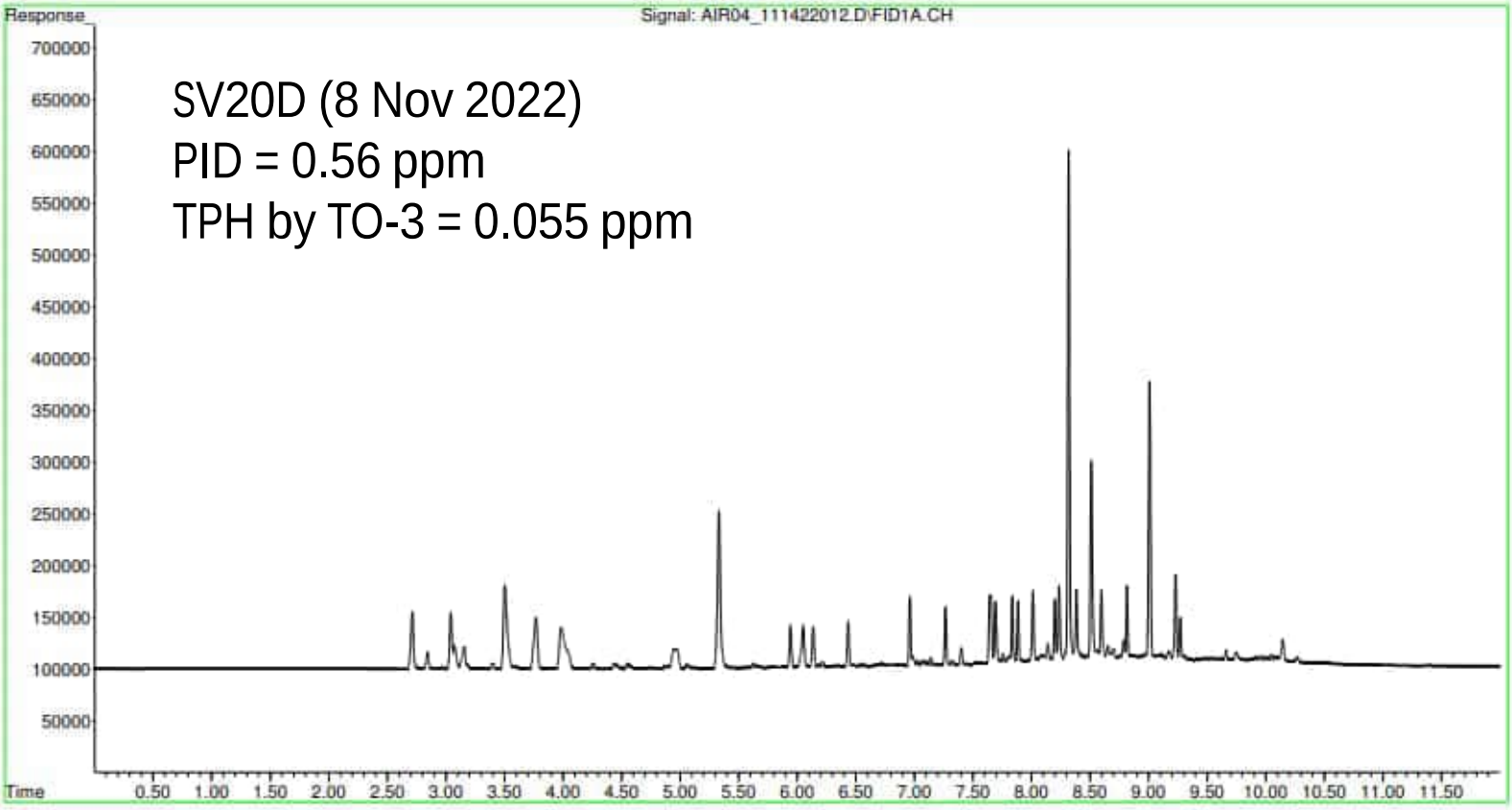

Response
Signal: AIR04_111422009.D\FID1A.CH
SV18S (8 Nov 2022)
PID = 4.0 ppm
TPH by TO-3 = 0.050 ppm
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50



SV18D (8 Nov 2022)
PID = 4.6 ppm
TPH by TO-3 = 0.70 ppm

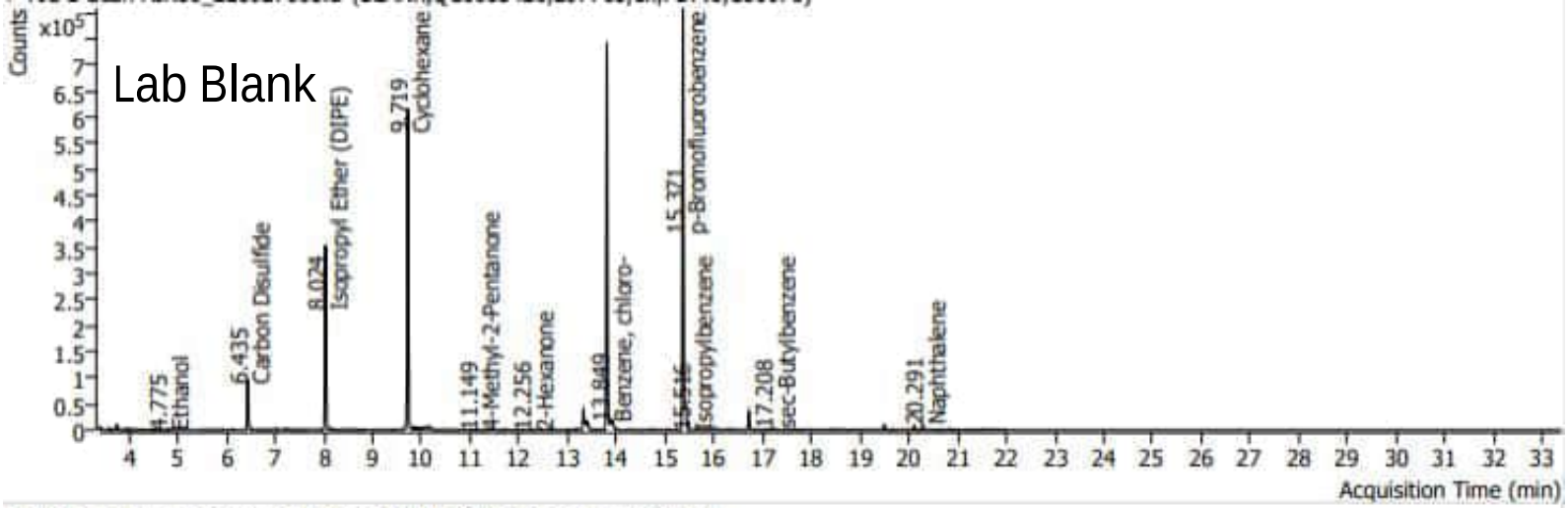


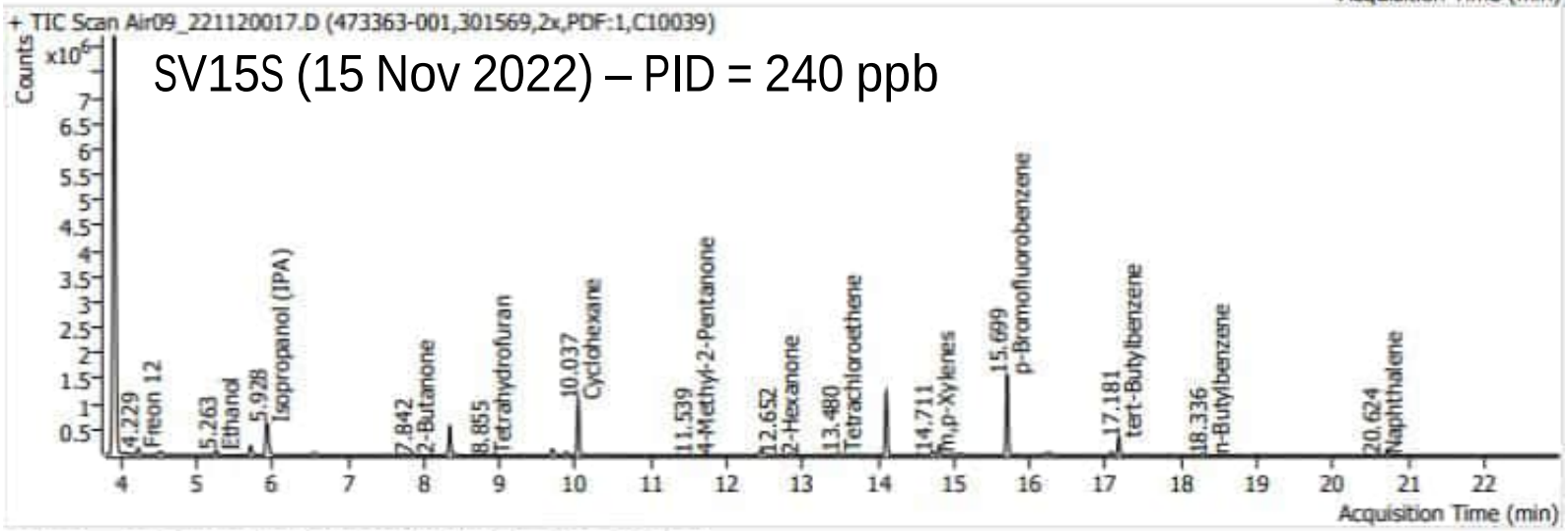
SV20M (8 Nov 2022)
PID = 0.53 ppm
TPH by TO-3 = 0.21 ppm

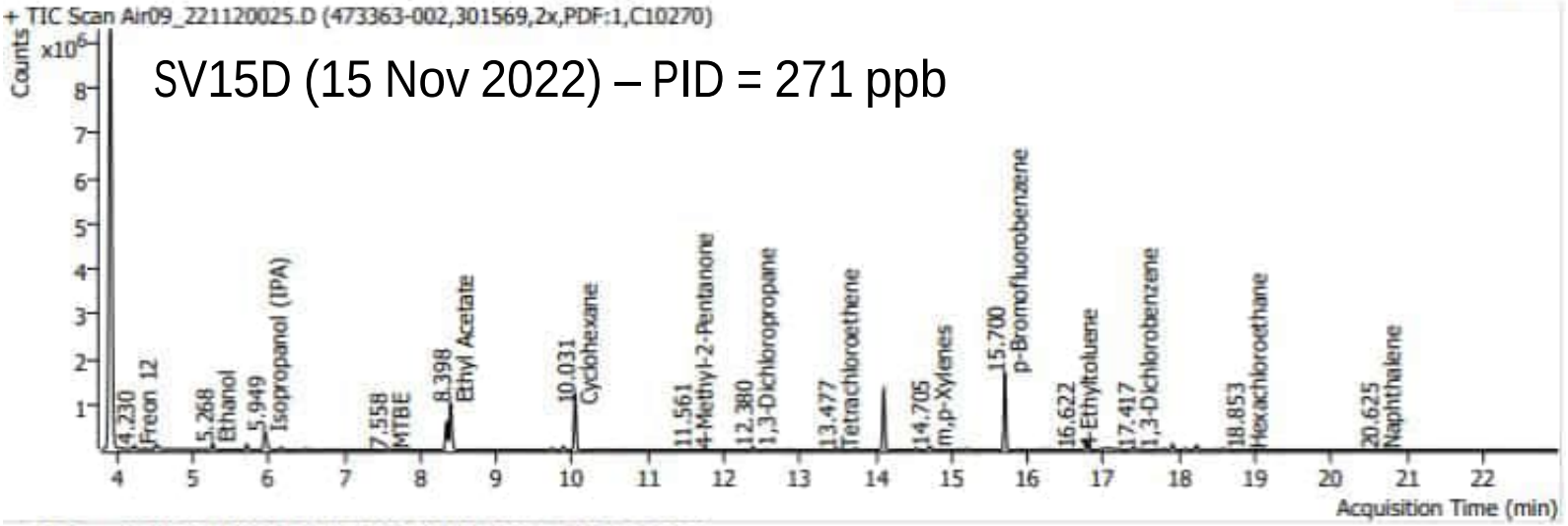

Response
Signal: AIR04_111422012.D\FID1A.CH
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV20D (8 Nov 2022)
PID = 0.56 ppm
TPH by TO-3 = 0.055 ppm

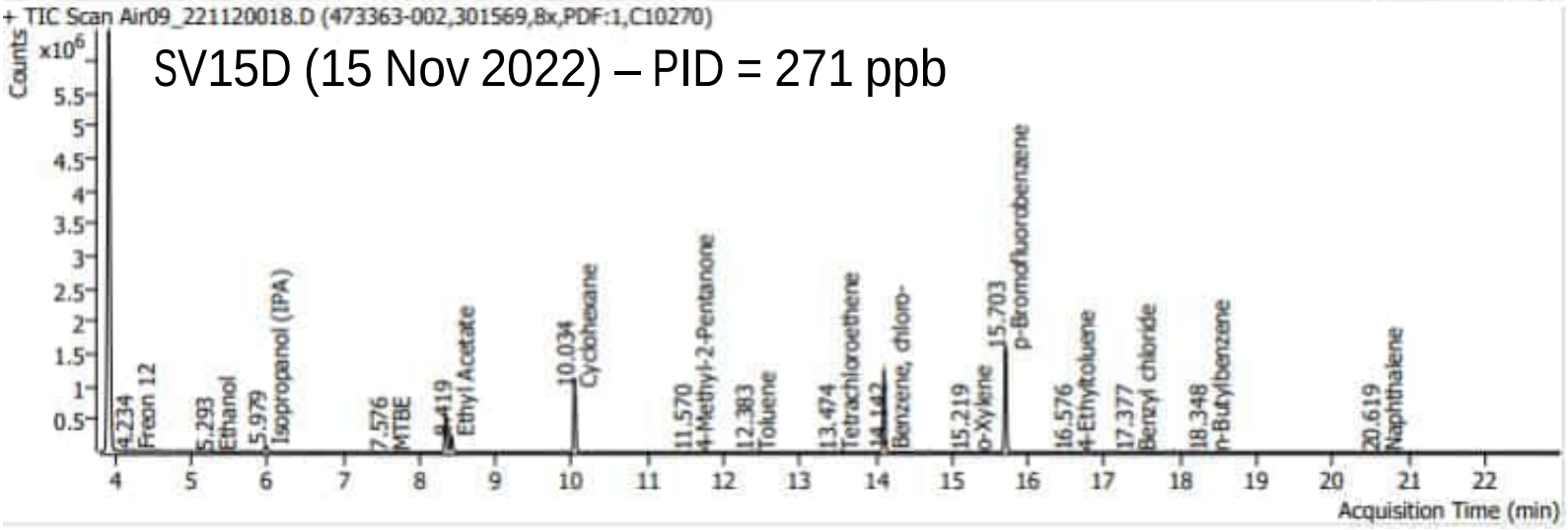
November 15, 2022
Soil Vapor Samples

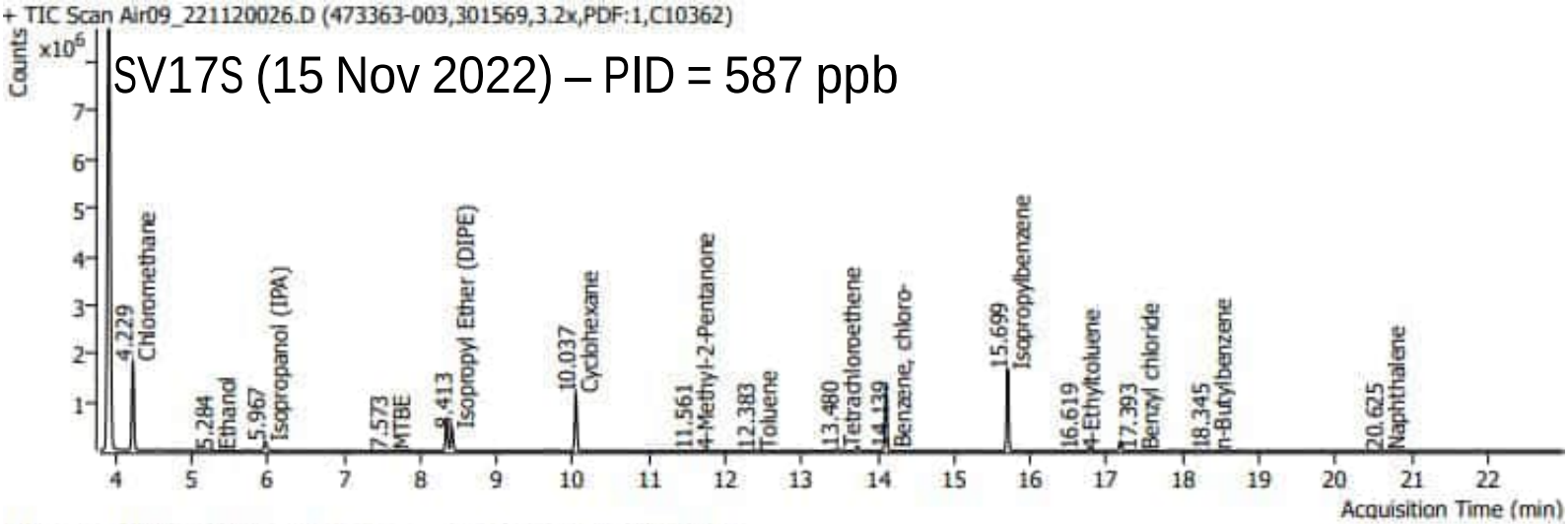
Mass Spec Chromatograms

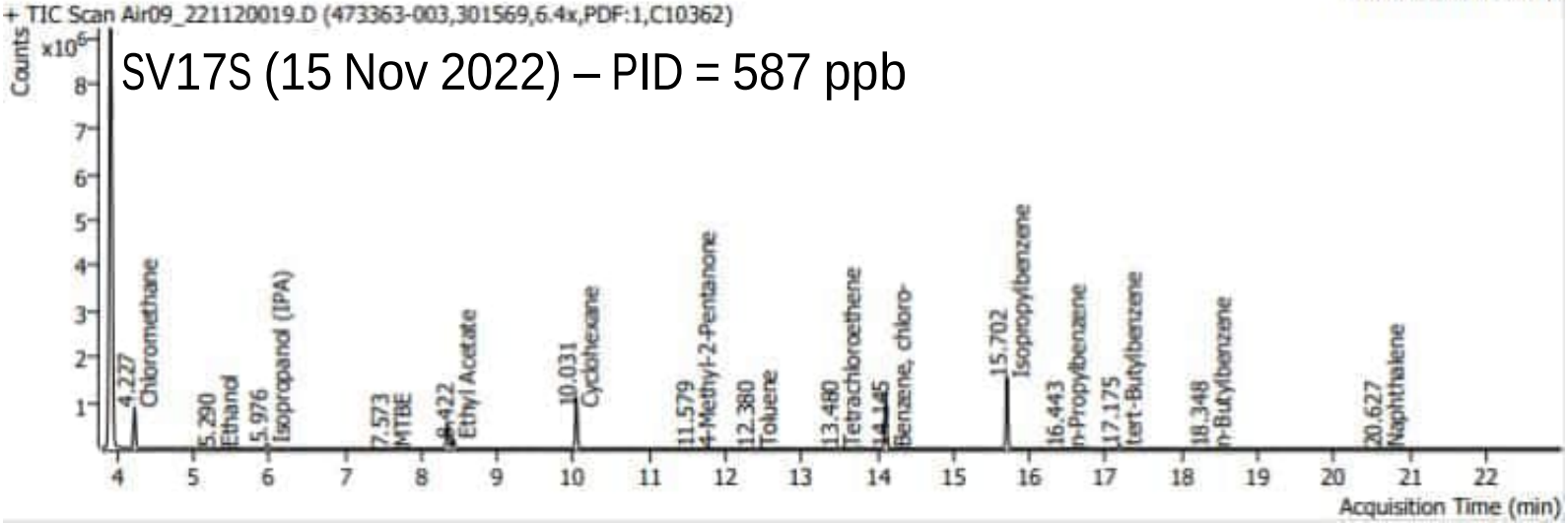

Lab Blank
Counts
x10^5
4.775 Ethanol
6.435 Carbon Disulfide
8.024 Isopropyl Ether (DIPE)
9.719 Cyclohexane
11.149 4-Methyl-2-Pentanone
12.256 2-Hexanone
13.849 Benzene, chloro-
15.371 p-Bromofluorobenzene
15.516 Isopropylbenzene
17.208 sec-Butylbenzene
20.291 Naphthalene
Acquisition Time (min)

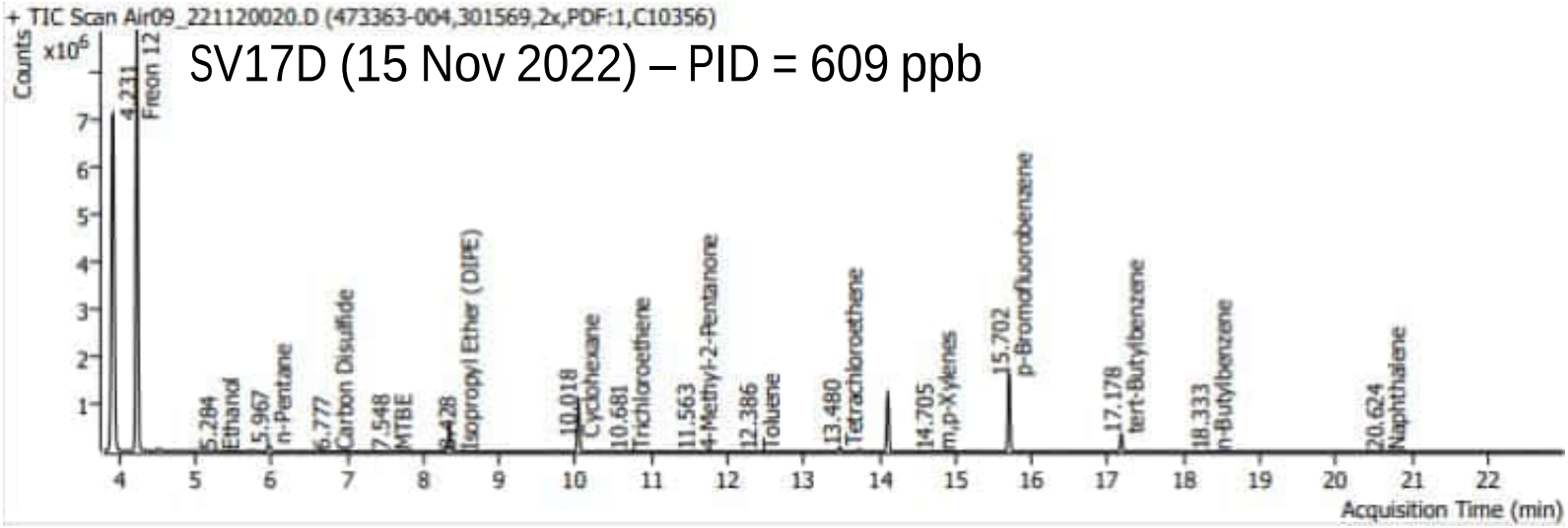

+ TIC Scan Air09_221120017.D (473363-001,301569,2x,PDF:1,C10039)
SV15S (15 Nov 2022) – PID = 240 ppb
Counts
x10^6
4.229 Freon 12
5.263 Ethanol
5.928 Isopropanol (IPA)
7.842 2-Butanone
8.855 Tetrahydrofuran
10.037 Cyclohexane
11.539 4-Methyl-2-Pentanone
12.652 2-Hexanone
13.480 Tetrachloroethene
14.711 m,p-Xylenes
15.699 p-Bromofluorobenzene
17.181 tert-Butylbenzene
18.336 n-Butylbenzene
20.624 Naphthalene
Acquisition Time (min)

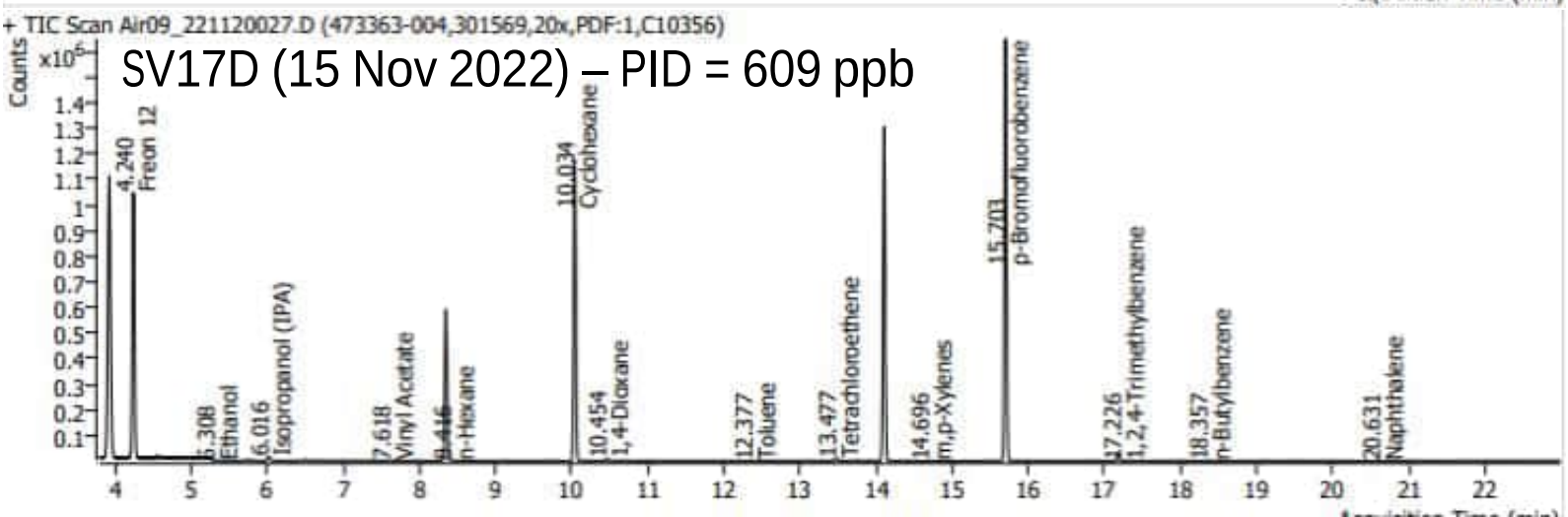

+ TIC Scan Air09_221120025.D (473363-002,301569,2x,PDF:1,C10270)
SV15D (15 Nov 2022) – PID = 271 ppb
Counts
x10^6
4.230 Freon 12
5.268 Ethanol
5.949 Isopropanol (IPA)
7.558 MTBE
8.398 Ethyl Acetate
10.031 Cyclohexane
11.561 4-Methyl-2-Pentanone
12.380 1,3-Dichloropropane
13.477 Tetrachloroethene
14.705 m,p-Xylenes
15.700 p-Bromofluorobenzene
16.622 4-Ethyltoluene
17.417 1,3-Dichlorobenzene
18.853 Hexachloroethane
20.625 Naphthalene
Acquisition Time (min)

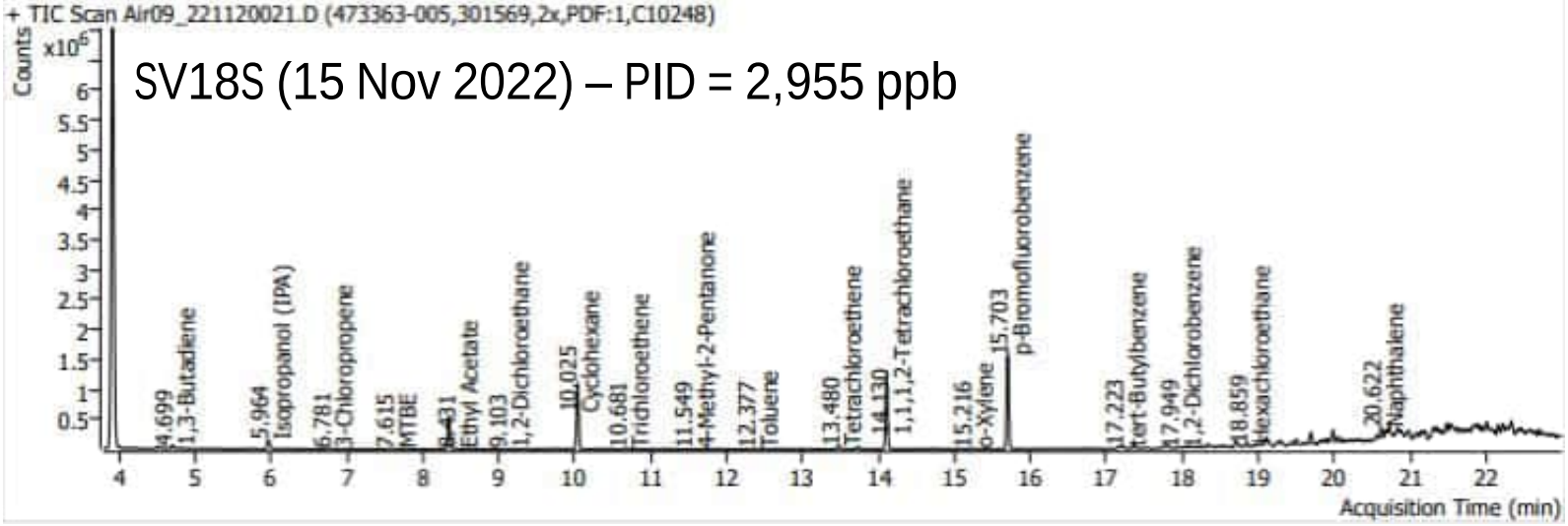

+ TIC Scan Air09_221120018.D (473363-002,301569,8x,PDF:1,C10270)
SV15D (15 Nov 2022) – PID = 271 ppb
Counts
x10^6
4.234 Freon 12
5.293 Ethanol
5.979 Isopropanol (IPA)
7.576 MTBE
8.419 Ethyl Acetate
10.034 Cyclohexane
11.570 4-Methyl-2-Pentanone
12.383 Toluene
13.474 Tetrachloroethene
14.142 Benzene, chloro-
15.219 o-Xylene
15.703 p-Bromofluorobenzene
16.576 4-Ethyltoluene
17.377 Benzyl chloride
18.348 n-Butylbenzene
20.619 Naphthalene
Acquisition Time (min)

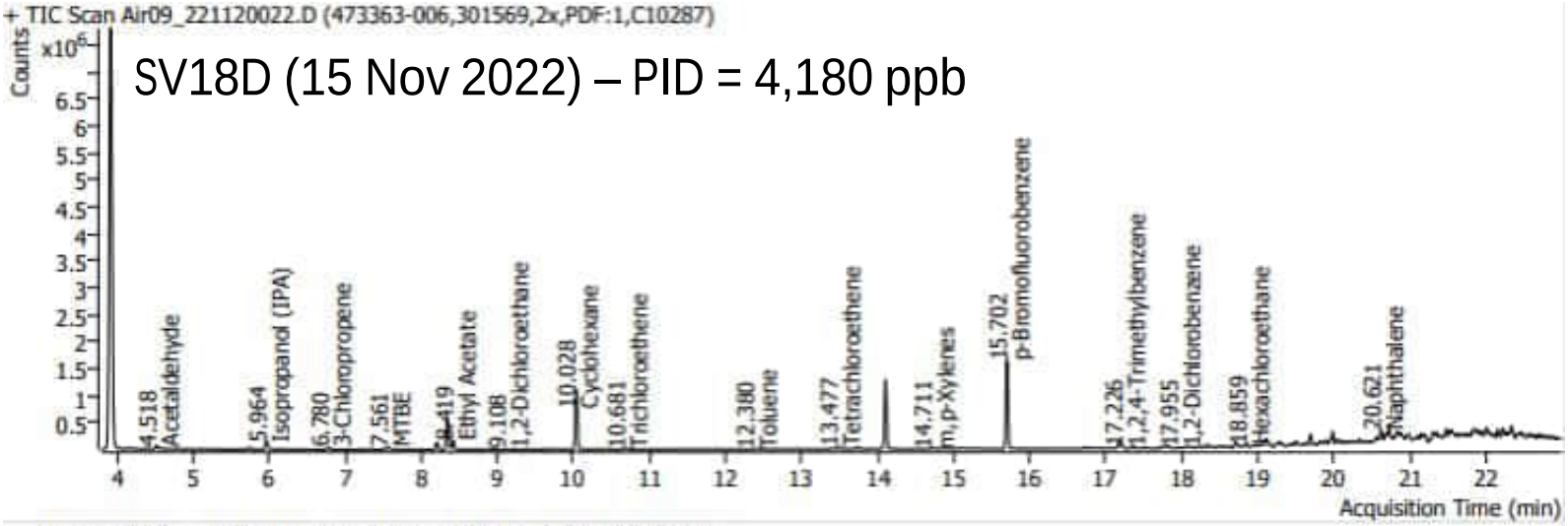

+ TIC Scan Air09_221120026.D (473363-003,301569,3.2x,PDF:1,C10362)
Counts
x10^6
SV17S (15 Nov 2022) – PID = 587 ppb
4.229 Chloromethane
5.284 Ethanol
5.967 Isopropanol (IPA)
7.573 MTBE
8.413 Isopropyl Ether (DIPE)
10.037 Cyclohexane
11.561 4-Methyl-2-Pentanone
12.383 Toluene
13.480 Tetrachloroethene
14.139 Benzene, chloro-
15.699 Isopropylbenzene
16.619 4-Ethyltoluene
17.393 Benzyl chloride
18.345 n-Butylbenzene
20.625 Naphthalene
Acquisition Time (min)

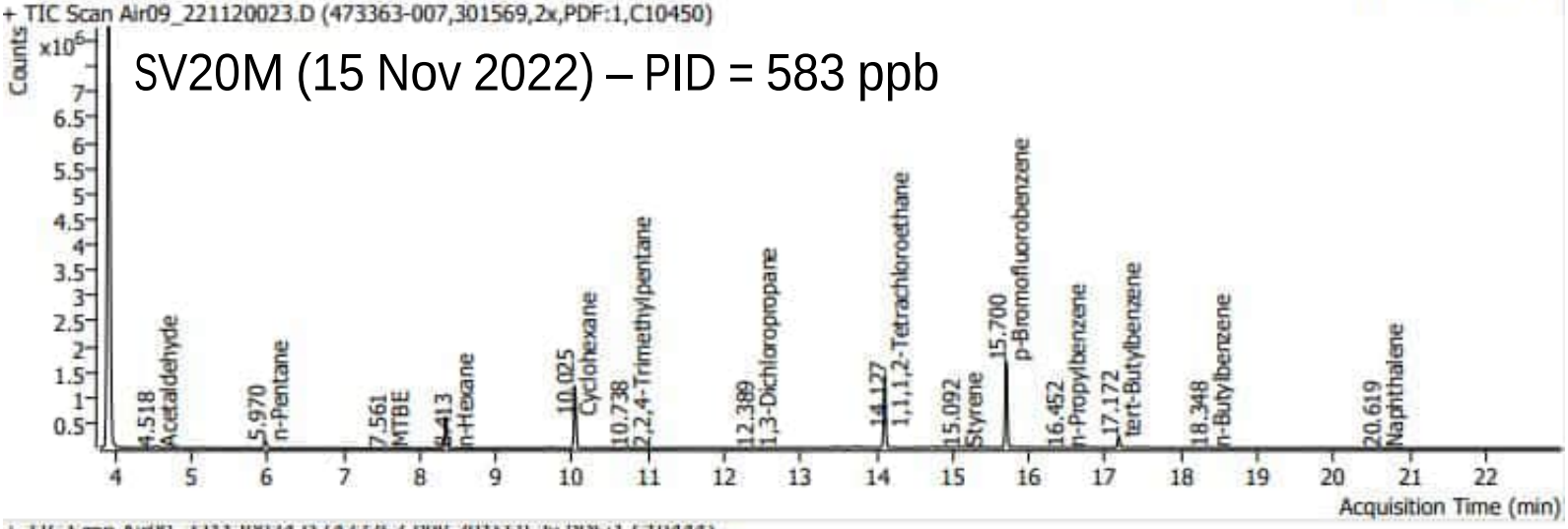

+ TIC Scan Air09_221120019.D (473363-003,301569,6.4x,PDF:1,C10362)
Counts
x10^6
SV17S (15 Nov 2022) – PID = 587 ppb
4.227 Chloromethane
5.290 Ethanol
5.976 Isopropanol (IPA)
7.573 MTBE
8.422 Ethyl Acetate
10.031 Cyclohexane
11.579 4-Methyl-2-Pentanone
12.380 Toluene
13.480 Tetrachloroethene
14.145 Benzene, chloro-
15.702 Isopropylbenzene
16.443 n-Propylbenzene
17.175 tert-Butylbenzene
18.348 n-Butylbenzene
20.627 Naphthalene
Acquisition Time (min)

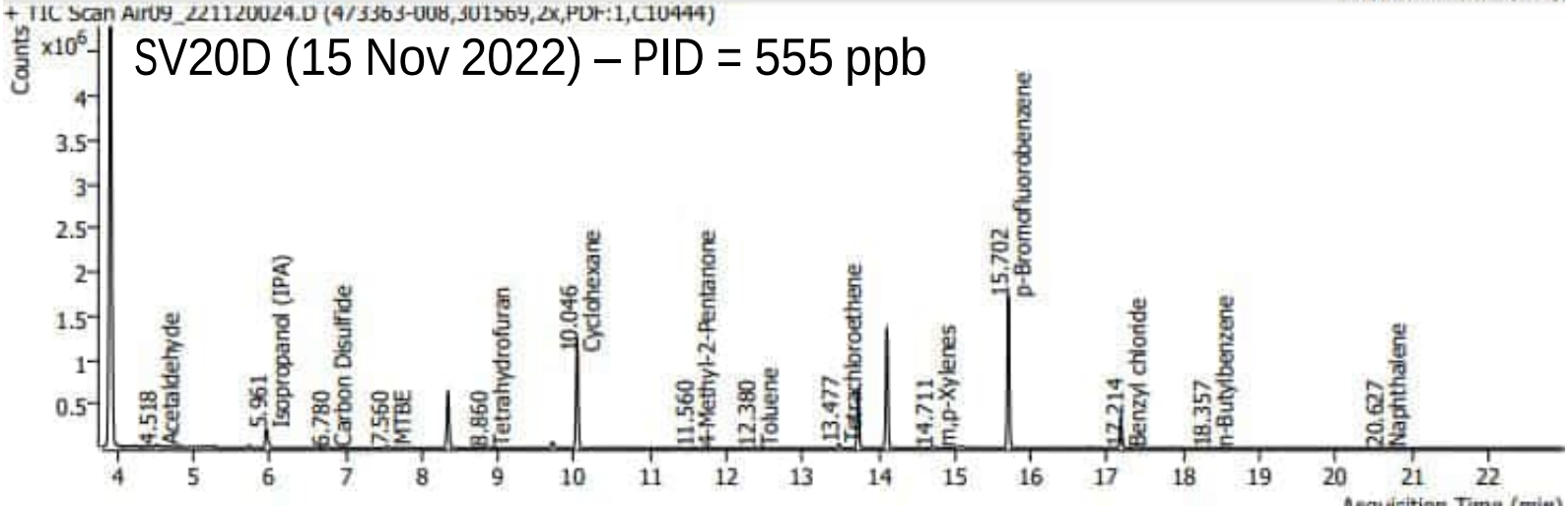

+ TIC Scan Air09_221120020.D (473363-004,301569,2x,PDF:1,C10356)
Counts
x10^6
SV17D (15 Nov 2022) – PID = 609 ppb
4.231 Freon 12
5.284 Ethanol
5.967 n-Pentane
6.777 Carbon Disulfide
7.548 MTBE
8.428 Isopropyl Ether (DIPE)
10.018 Cyclohexane
10.681 Trichloroethene
11.563 4-Methyl-2-Pentanone
12.386 Toluene
13.480 Tetrachloroethene
14.705 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.178 tert-Butylbenzene
18.333 n-Butylbenzene
20.624 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221120027.D (473363-004,301569,20x,PDF:1,C10356)
Counts
x10^6
SV17D (15 Nov 2022) – PID = 609 ppb
4.240 Freon 12
5.308 Ethanol
6.016 Isopropanol (IPA)
7.618 Vinyl Acetate
8.416 n-Hexane
10.034 Cyclohexane
10.454 1,4-Dioxane
12.377 Toluene
13.477 Tetrachloroethene
14.696 m,p-Xylenes
15.703 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
18.357 n-Butylbenzene
20.631 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221120021.D (473363-005,301569,2x,PDF:1,C10248)
SV18S (15 Nov 2022) – PID = 2,955 ppb
Counts
x10^6
4.699 1,3-Butadiene
5.964 Isopropanol (IPA)
6.781 3-Chloropropene
7.615 MTBE
8.431 Ethyl Acetate
9.103 1,2-Dichloroethane
10.025 Cyclohexane
10.681 Trichloroethene
11.549 4-Methyl-2-Pentanone
12.377 Toluene
13.480 Tetrachloroethene
14.130 1,1,1,2-Tetrachloroethane
15.216 o-Xylene
15.703 p-Bromofluorobenzene
17.223 tert-Butylbenzene
17.949 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.622 Naphthalene
Acquisition Time (min)

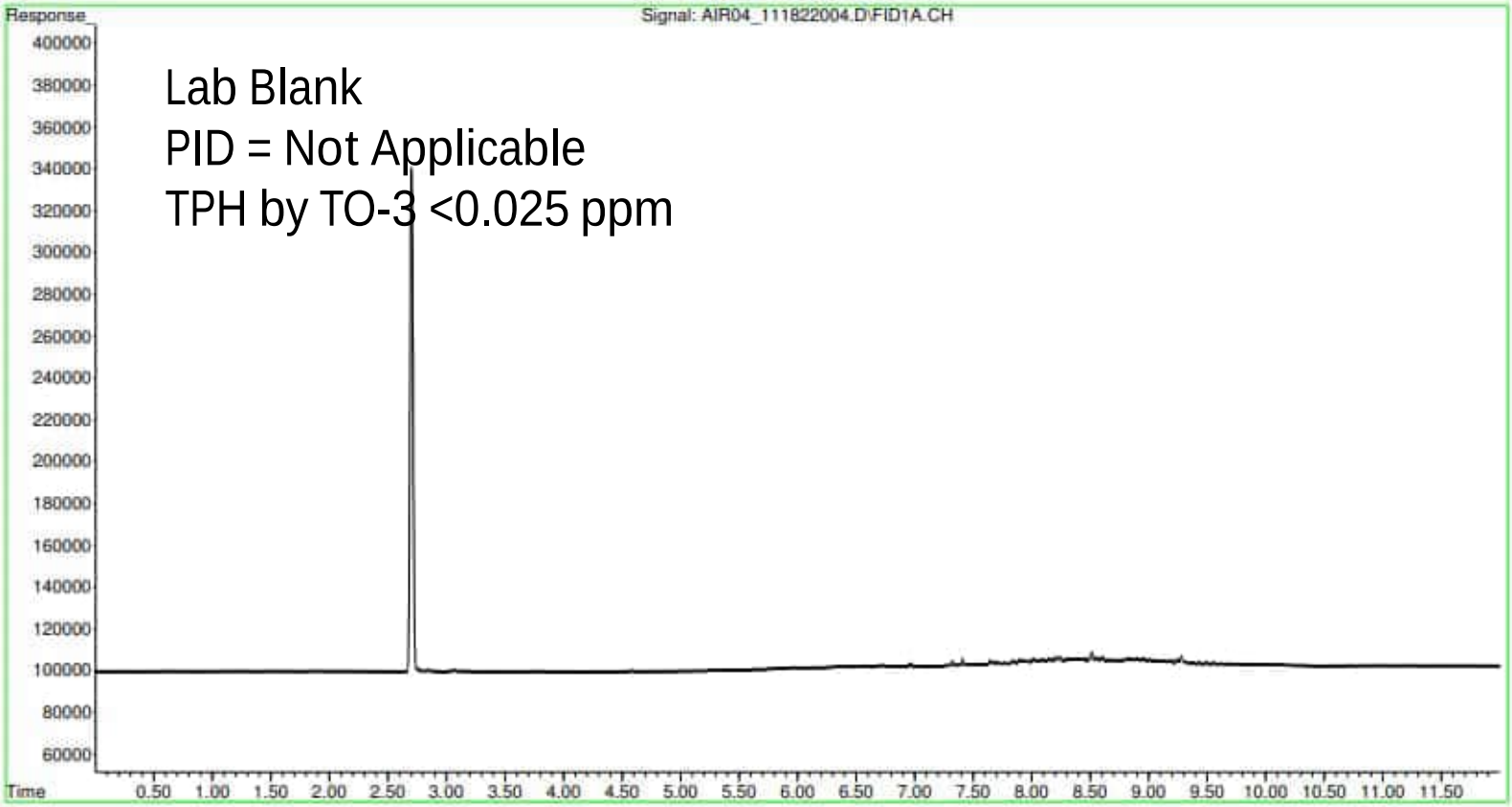

+ TIC Scan Air09_221120022.D (473363-006,301569,2x,PDF:1,C10287)
SV18D (15 Nov 2022) – PID = 4,180 ppb
Counts
x10^6
4.518 Acetaldehyde
5.964 Isopropanol (IPA)
6.780 3-Chloropropene
7.561 MTBE
8.419 Ethyl Acetate
9.108 1,2-Dichloroethane
10.028 Cyclohexane
10.681 Trichloroethene
12.380 Toluene
13.477 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.226 1,2,4-Trimethylbenzene
17.955 1,2-Dichlorobenzene
18.859 Hexachloroethane
20.621 Naphthalene
Acquisition Time (min)

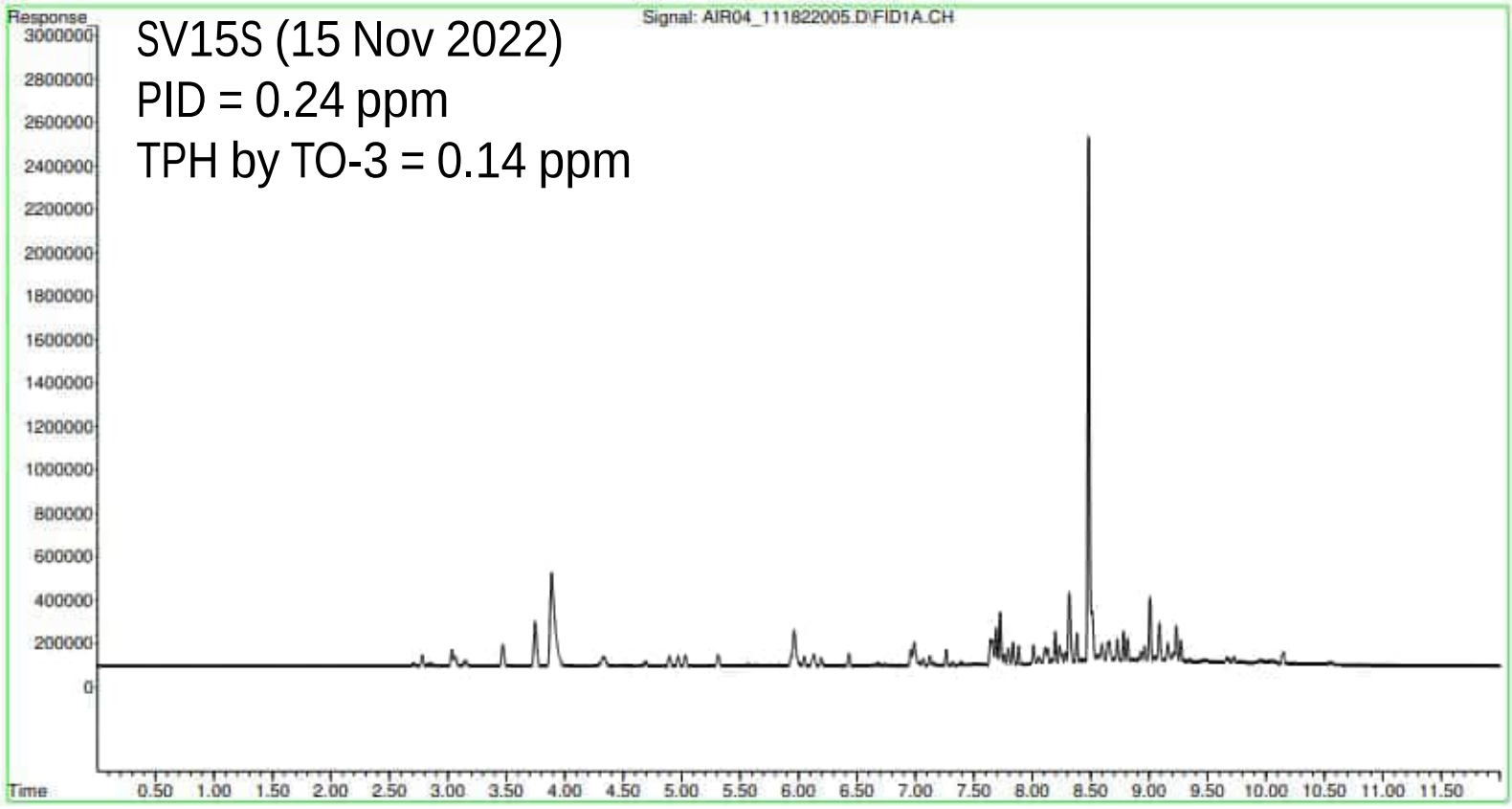

+ TIC Scan Air09_221120023.D (473363-007,301569,2x,PDF:1,C10450)
SV20M (15 Nov 2022) – PID = 583 ppb
Counts
x10^6
4.518 Acetaldehyde
5.970 n-Pentane
7.561 MTBE
8.413 n-Hexane
10.025 Cyclohexane
10.738 2,2,4-Trimethylpentane
12.389 1,3-Dichloropropane
14.127 1,1,1,2-Tetrachloroethane
15.092 Styrene
15.700 p-Bromofluorobenzene
16.452 n-Propylbenzene
17.172 tert-Butylbenzene
18.348 n-Butylbenzene
20.619 Naphthalene
Acquisition Time (min)

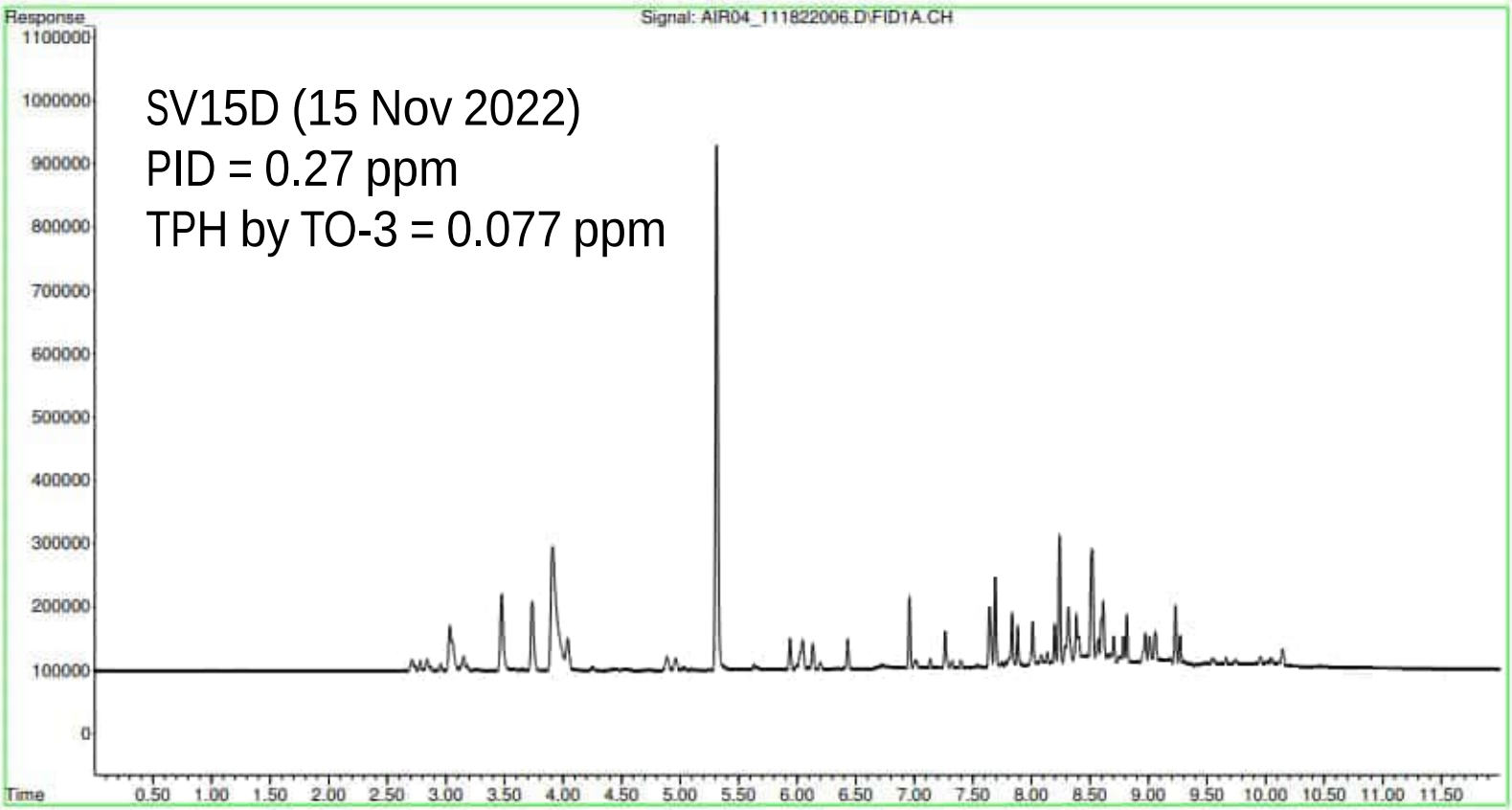

+ TIC Scan Air09_221120024.D (473363-008,301569,2x,PDF:1,C10444)
SV20D (15 Nov 2022) – PID = 555 ppb
Counts
x10^6
4.518 Acetaldehyde
5.961 Isopropanol (IPA)
6.780 Carbon Disulfide
7.560 MTBE
8.860 Tetrahydrofuran
10.046 Cyclohexane
11.560 4-Methyl-2-Pentanone
12.380 Toluene
13.477 Tetrachloroethene
14.711 m,p-Xylenes
15.702 p-Bromofluorobenzene
17.214 Benzyl chloride
18.357 n-Butylbenzene
20.627 Naphthalene
Acquisition Time (min)

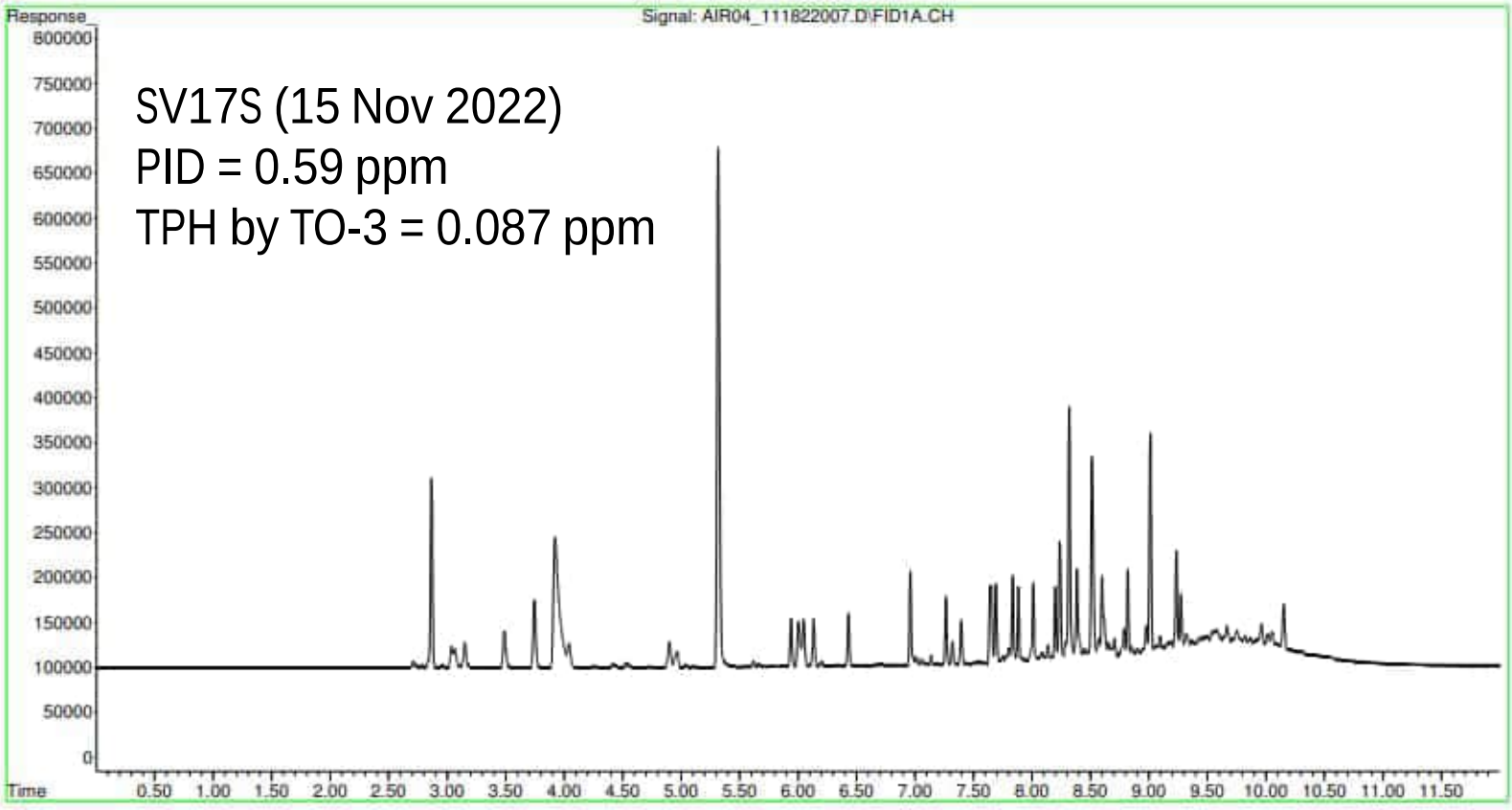
November 15, 2022
Soil Vapor Samples

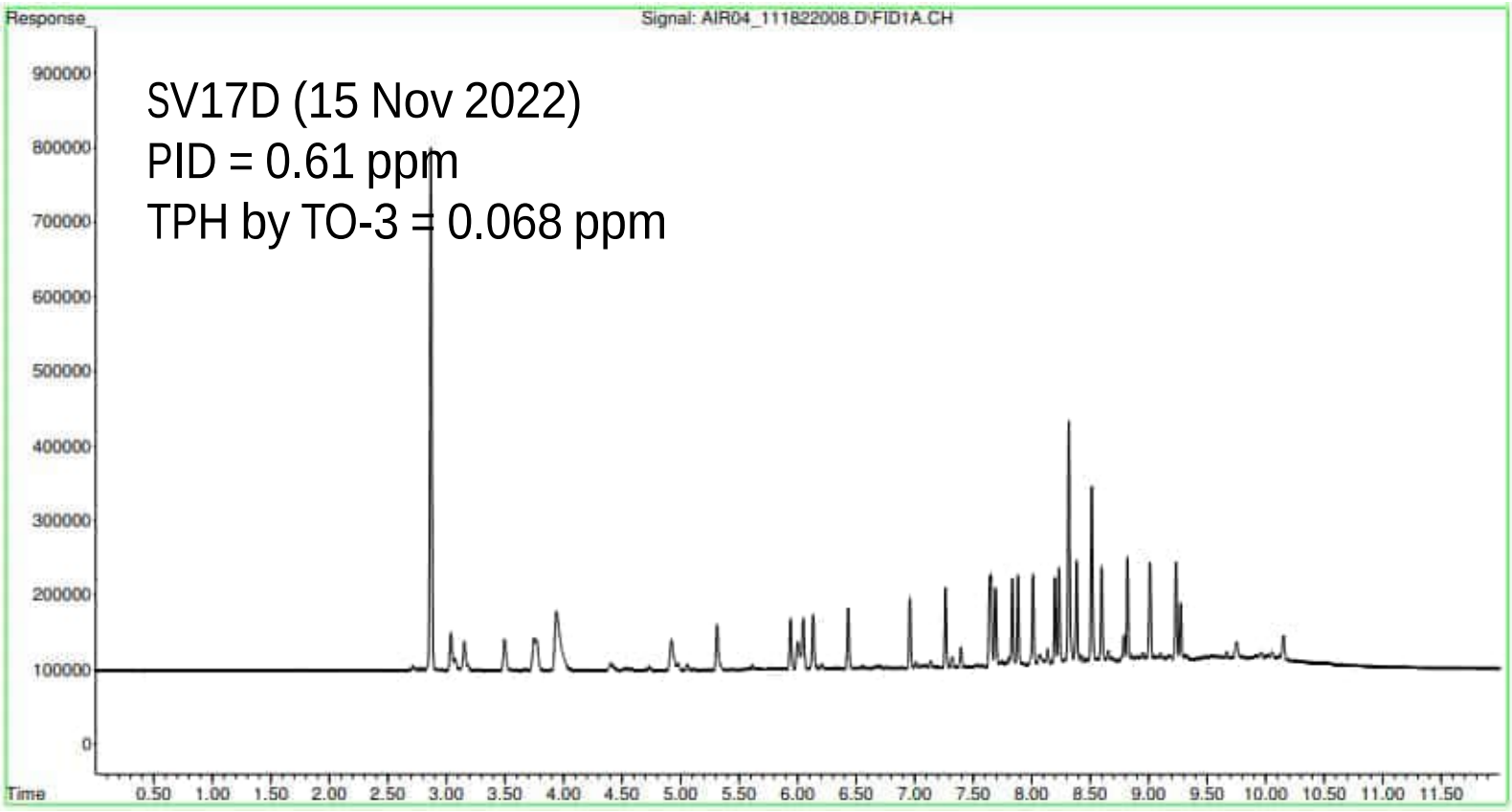
FID Chromatograms

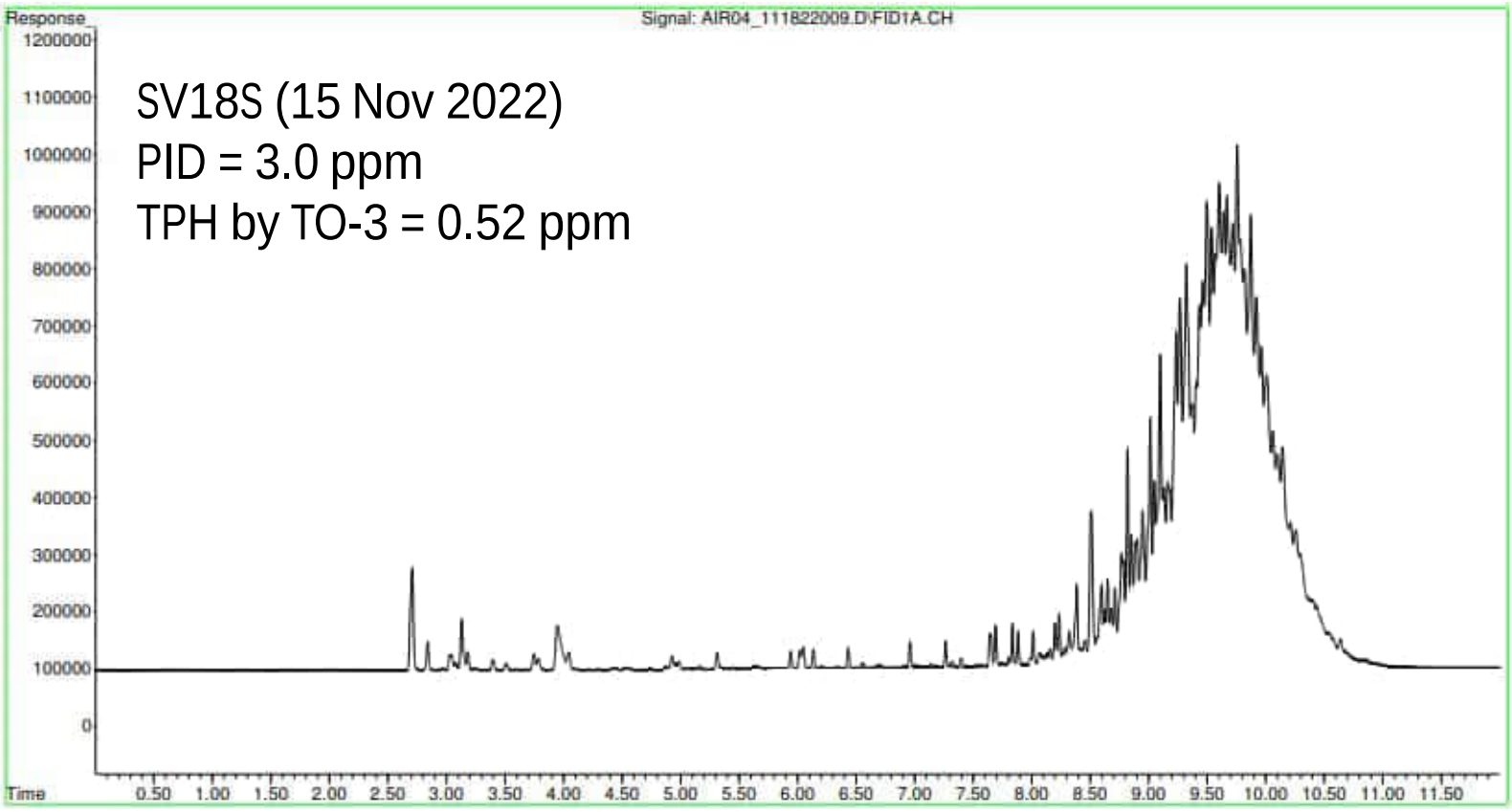

Response_
Signal: AIR04_111822004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
400000
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

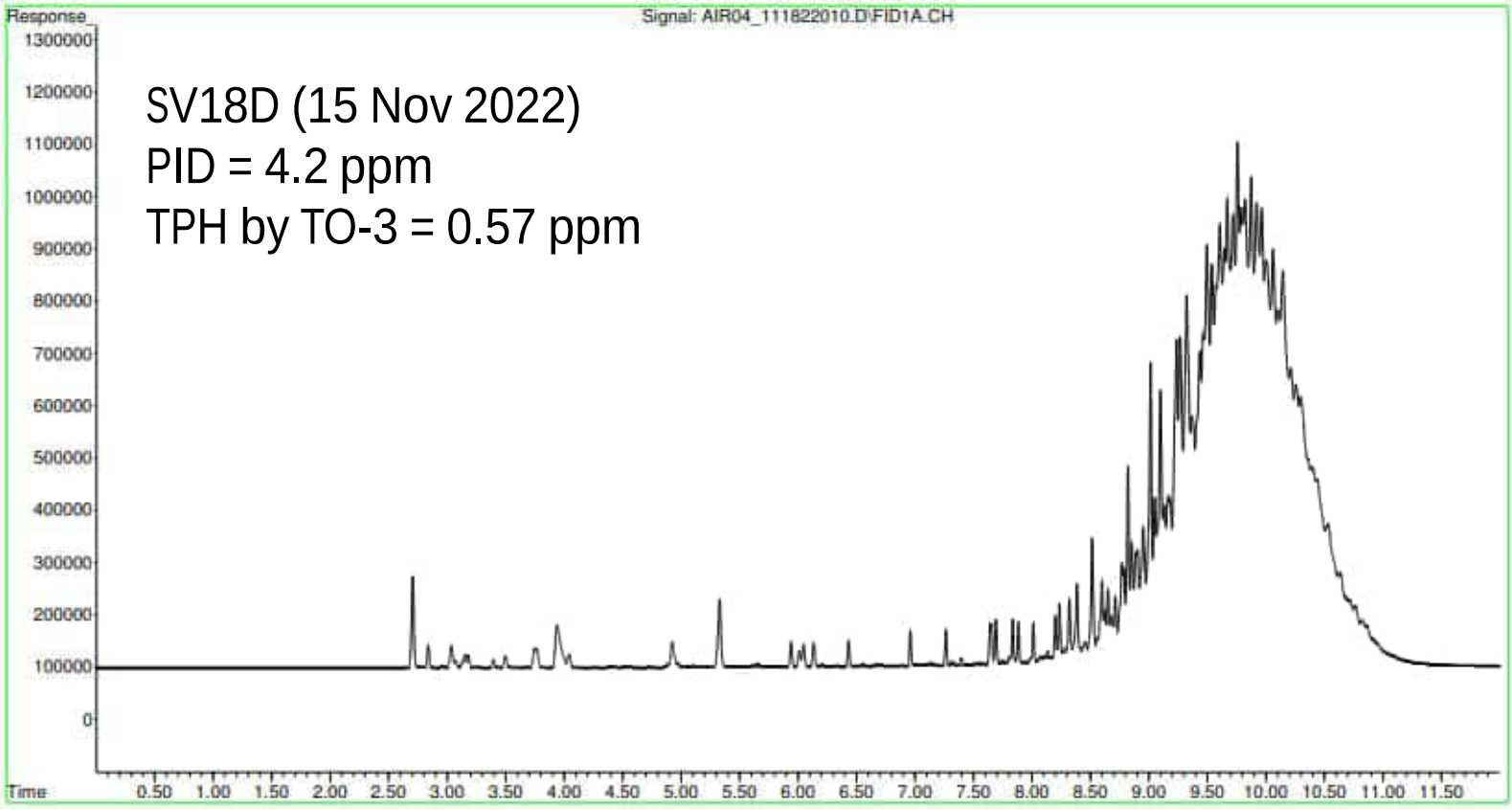

Response_
Signal: AIR04_111822005.D\FID1A.CH
SV15S (15 Nov 2022)
PID = 0.24 ppm
TPH by TO-3 = 0.14 ppm
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_111822006.D\FID1A.CH
SV15D (15 Nov 2022)
PID = 0.27 ppm
TPH by TO-3 = 0.077 ppm
Time

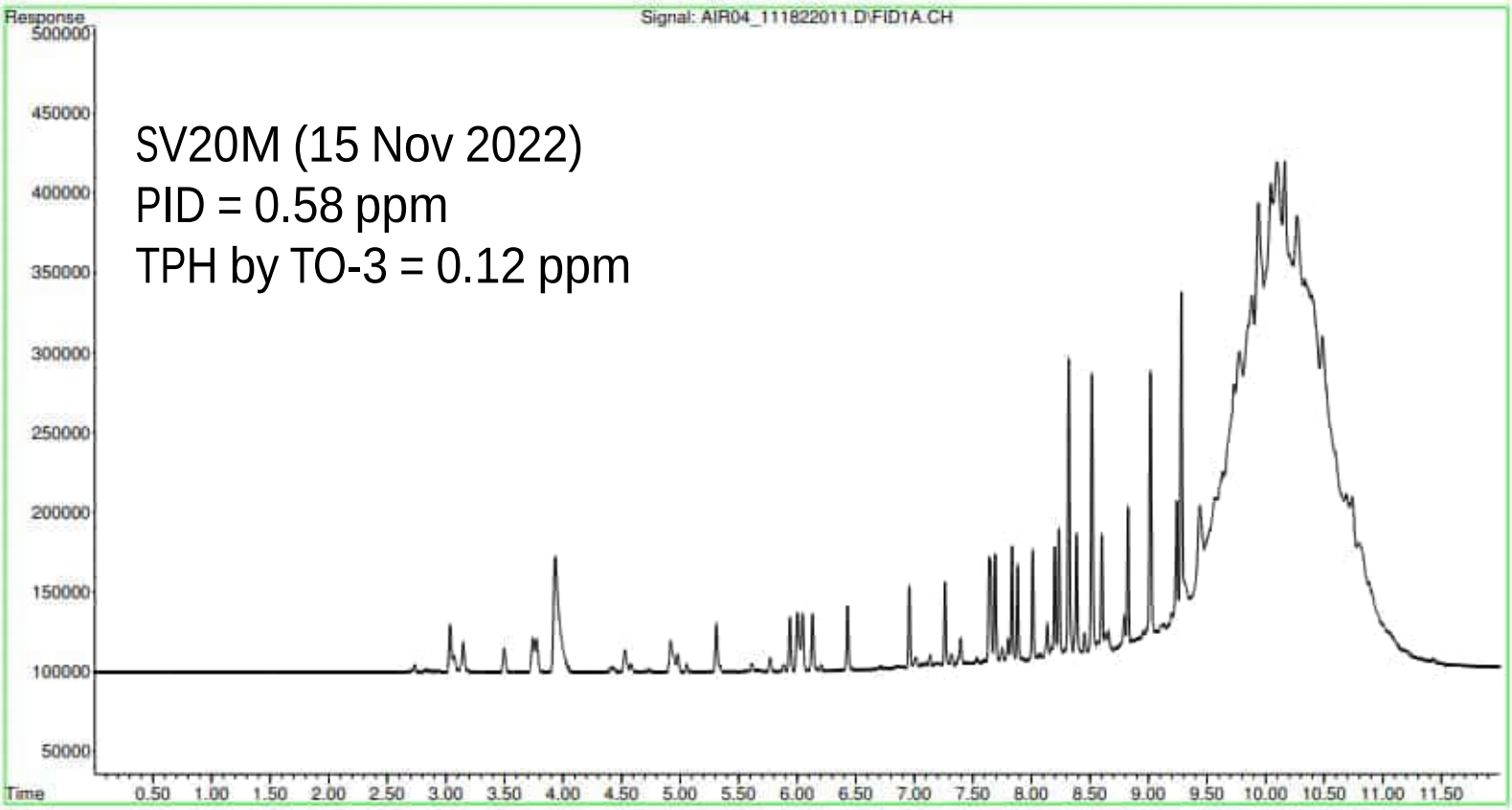

Response
Signal: AIR04_111822007.D\FID1A.CH
SV17S (15 Nov 2022)
PID = 0.59 ppm
TPH by TO-3 = 0.087 ppm
Time


Response_
Signal: AIR04_111822008.D\FID1A.CH
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV17D (15 Nov 2022)
PID = 0.61 ppm
TPH by TO-3 = 0.068 ppm

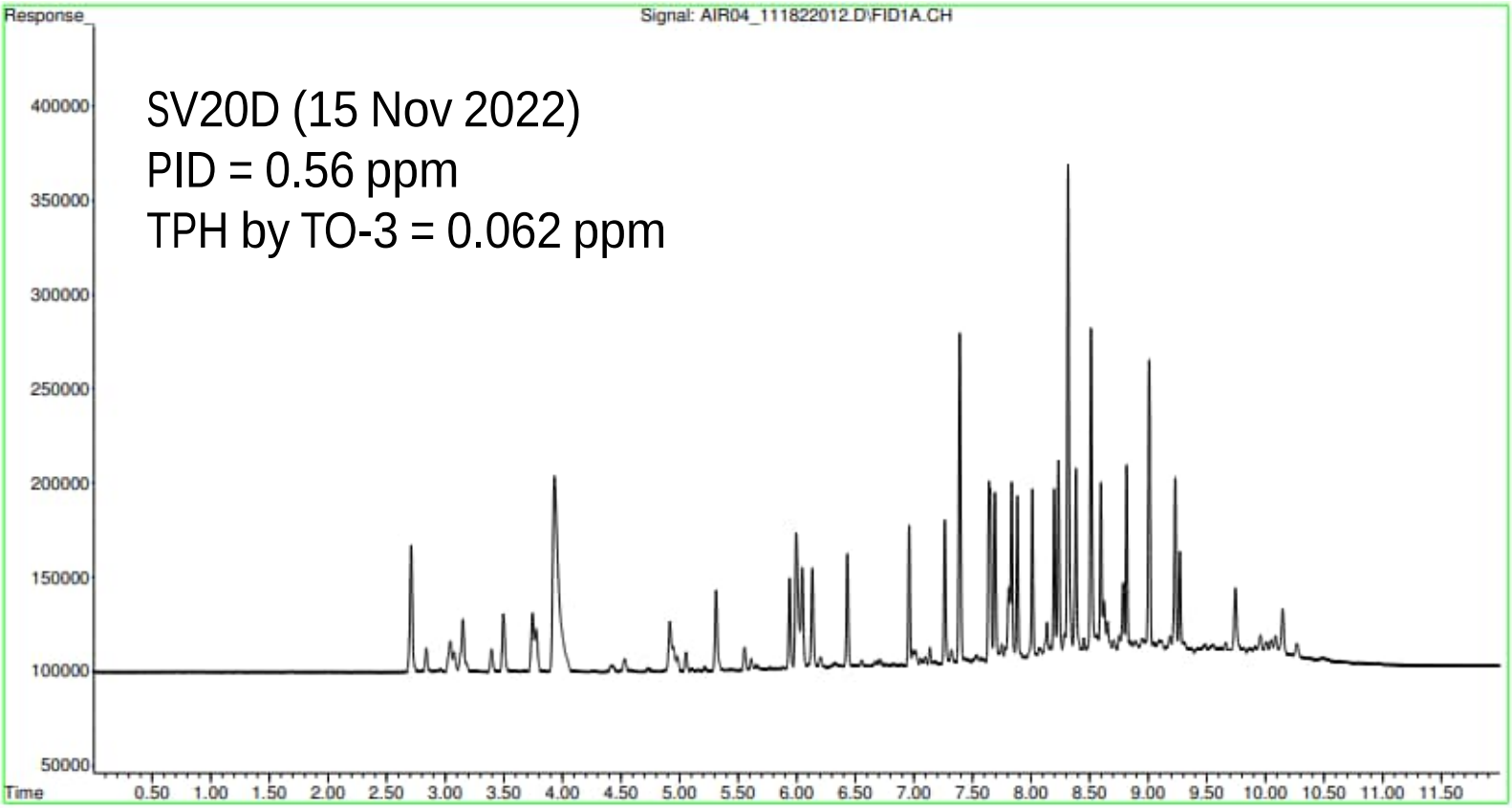

Response_
Signal: AIR04_111822009.D\FID1A.CH
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV18S (15 Nov 2022)
PID = 3.0 ppm
TPH by TO-3 = 0.52 ppm



SV18D (15 Nov 2022)
PID = 4.2 ppm
TPH by TO-3 = 0.57 ppm

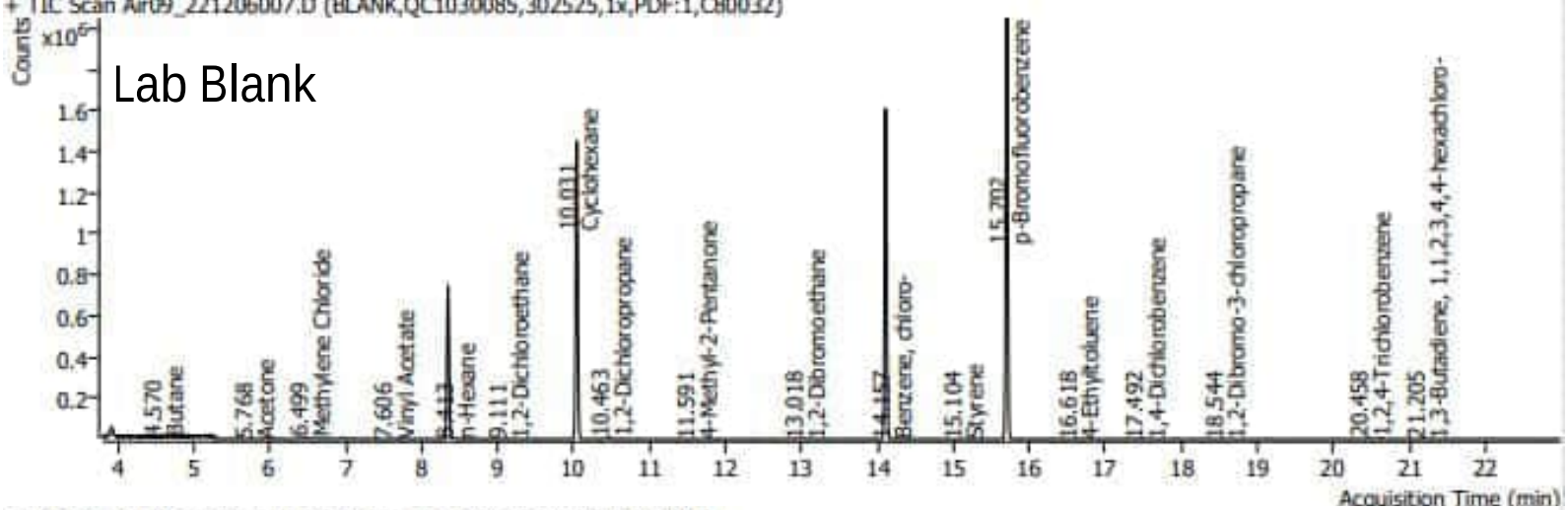


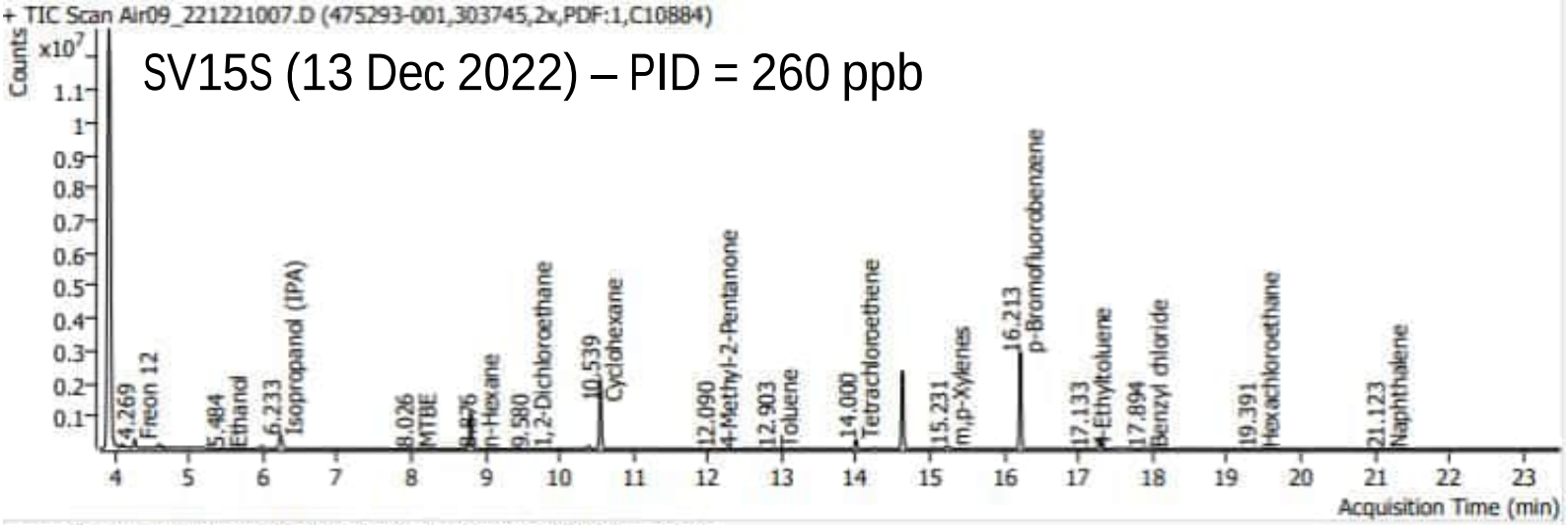
SV20M (15 Nov 2022)
PID = 0.58 ppm
TPH by TO-3 = 0.12 ppm

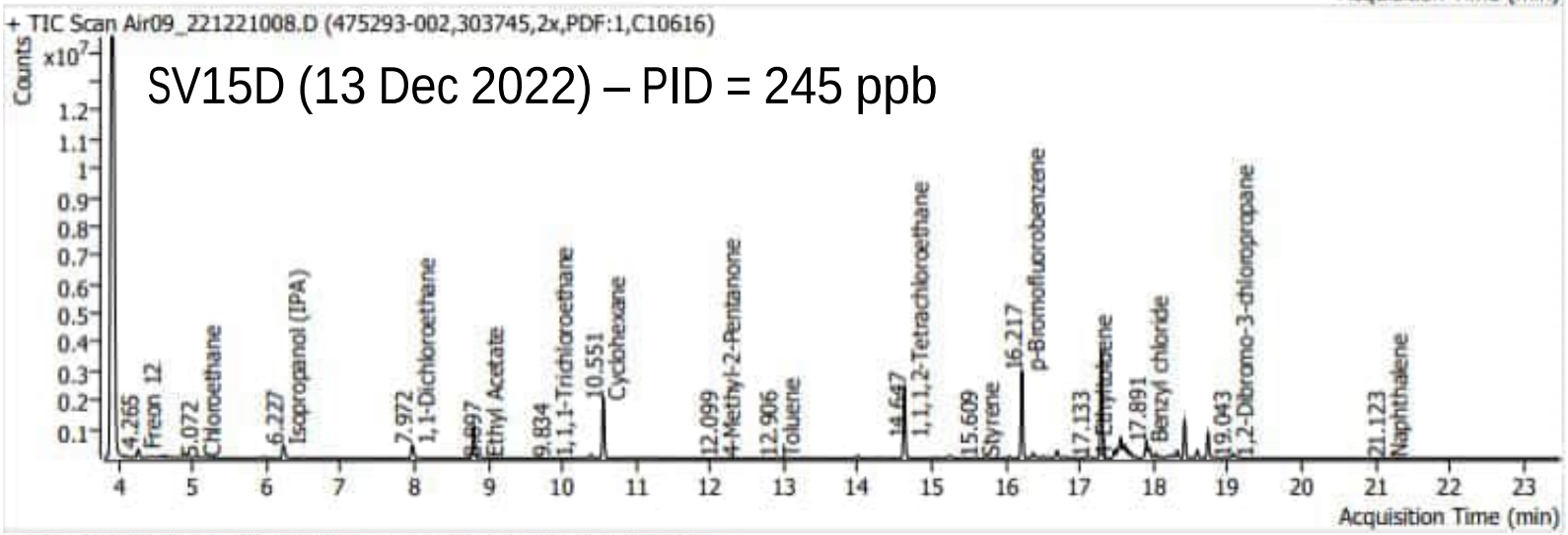

Response
Signal: AIR04_111822012.D\FID1A.CH
SV20D (15 Nov 2022)
PID = 0.56 ppm
TPH by TO-3 = 0.062 ppm
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

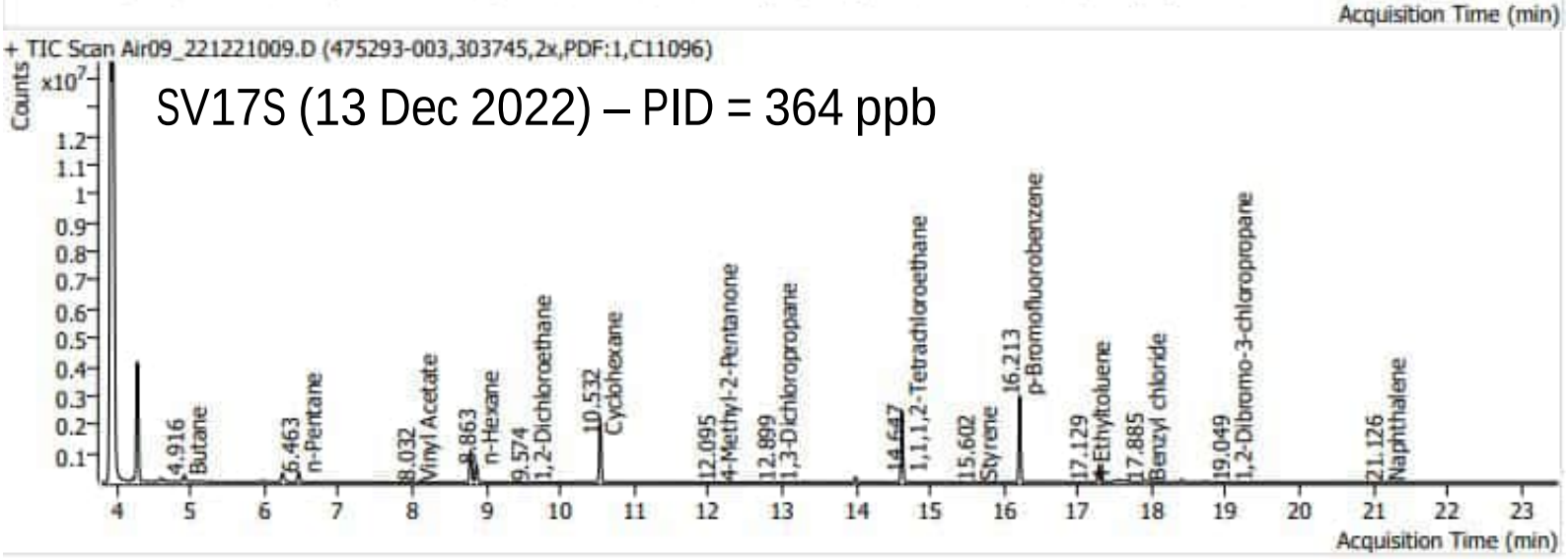
December 13, 2022
Soil Vapor Samples

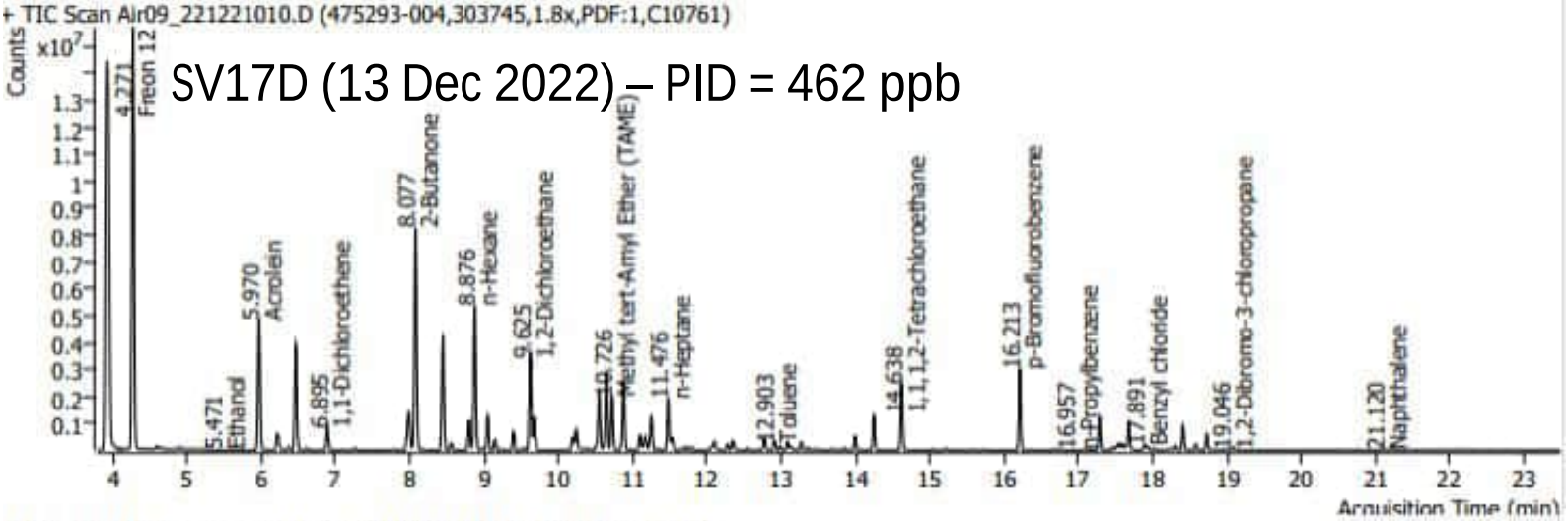
Mass Spec Chromatograms

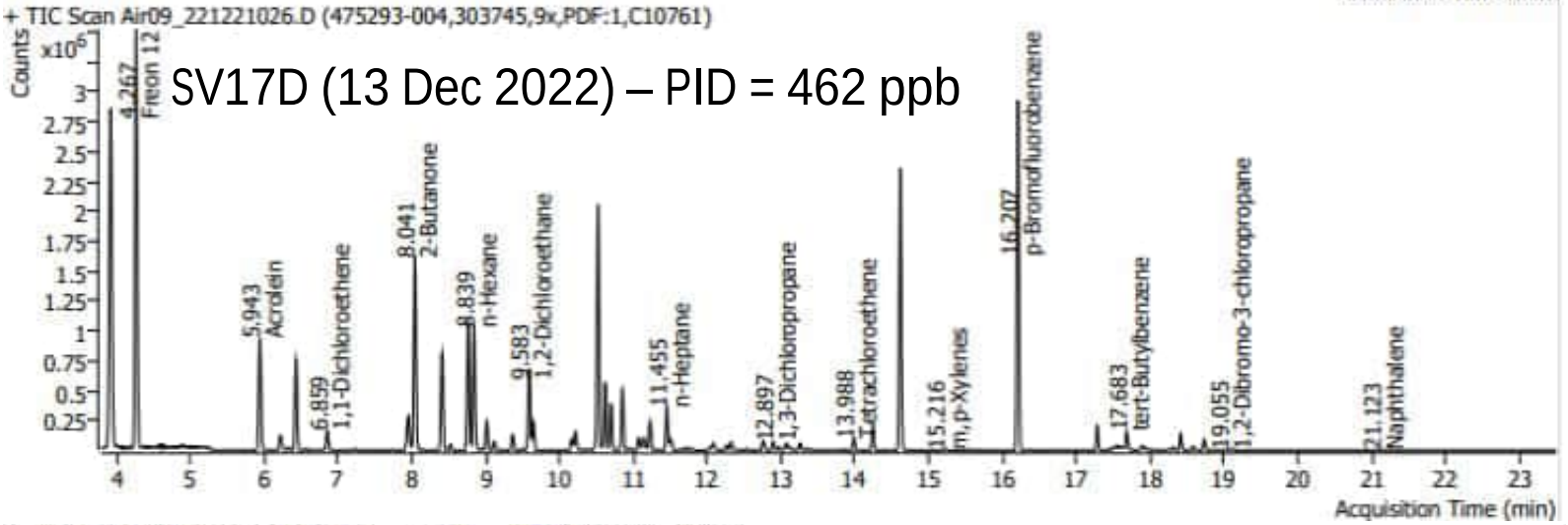

+ TIC Scan Air09_221206007.D (BLANK,QC1030085,302525,1x,PDF:1,C80032)
Lab Blank
Counts
x10^6
4.570 Butane
5.768 Acetone
6.499 Methylene Chloride
7.606 Vinyl Acetate
8.413 n-Hexane
9.111 1,2-Dichloroethane
10.011 Cyclohexane
10.463 1,2-Dichloropropane
11.591 4-Methyl-2-Pentanone
13.018 1,2-Dibromoethane
14.157 Benzene, chloro-
15.104 Styrene
15.702 p-Bromofluorobenzene
16.618 4-Ethyltoluene
17.492 1,4-Dichlorobenzene
18.544 1,2-Dibromo-3-chloropropane
20.458 1,2,4-Trichlorobenzene
21.205 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

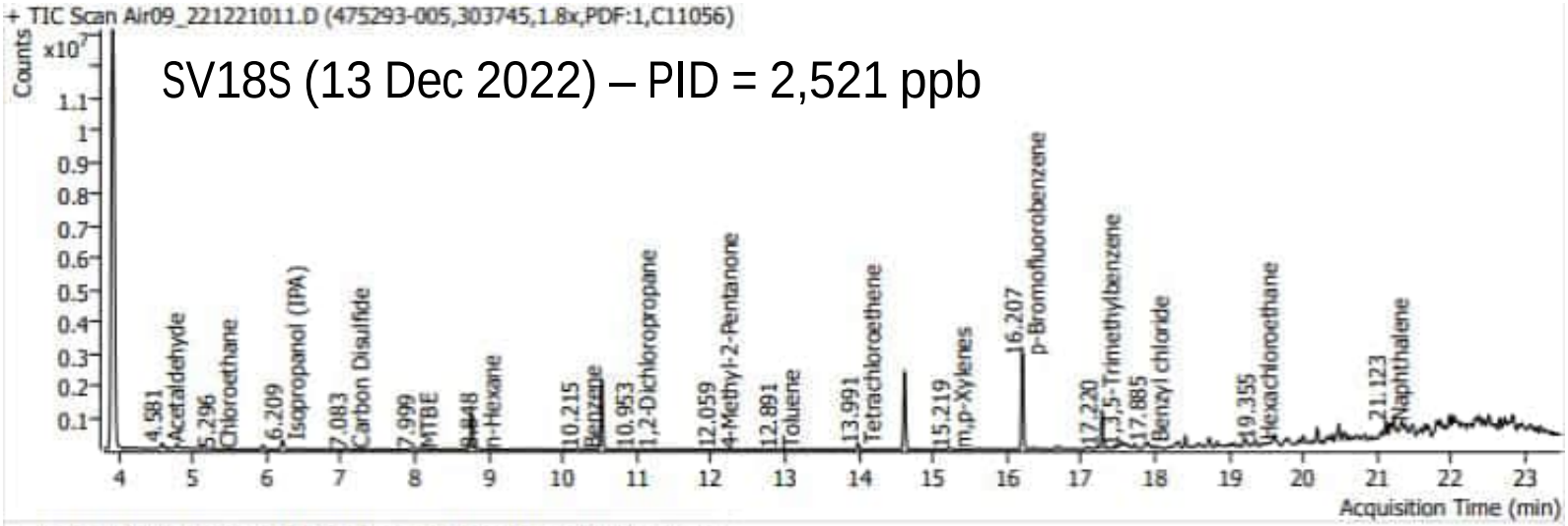

+ TIC Scan Air09_221221007.D (475293-001,303745,2x,PDF:1,C10884)
SV15S (13 Dec 2022) – PID = 260 ppb
Counts
x10^7
4.269 Freon 12
5.484 Ethanol
6.233 Isopropanol (IPA)
8.026 MTBE
8.876 n-Hexane
9.580 1,2-Dichloroethane
10.539 Cyclohexane
12.090 4-Methyl-2-Pentanone
12.903 Toluene
14.000 Tetrachloroethene
15.231 m,p-Xylenes
16.213 p-Bromofluorobenzene
17.133 4-Ethyltoluene
17.894 Benzyl chloride
19.391 Hexachloroethane
21.123 Naphthalene
Acquisition Time (min)

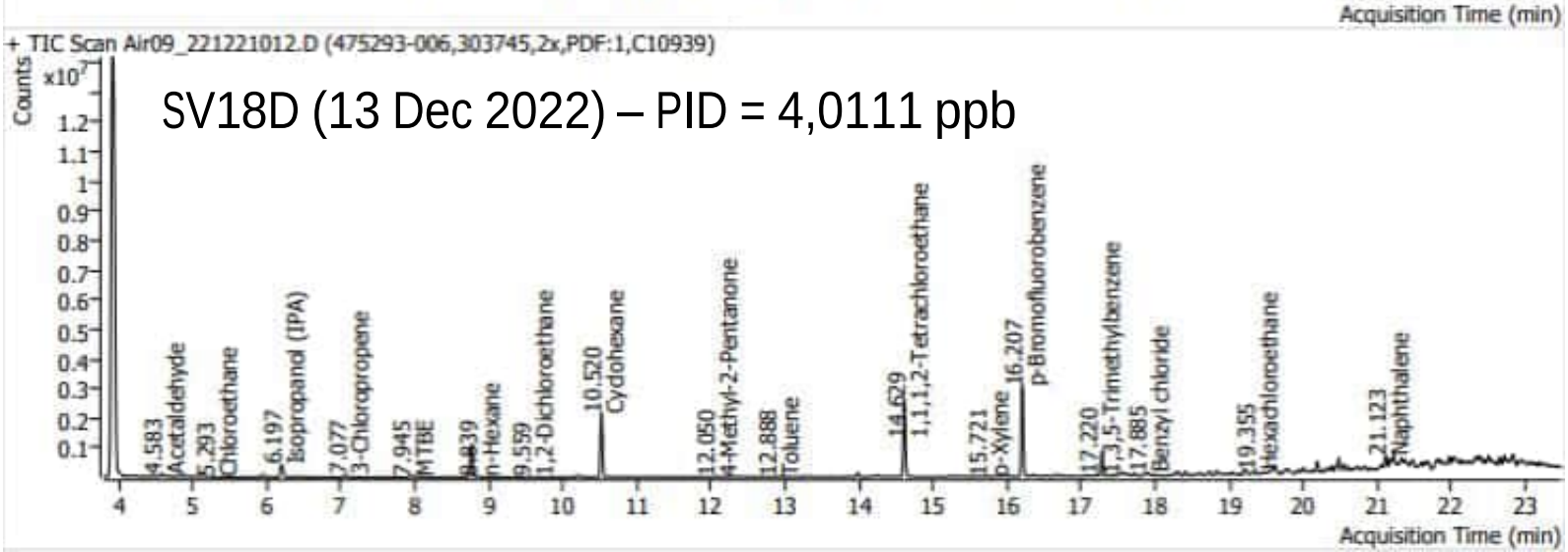

+ TIC Scan Air09_221221008.D (475293-002,303745,2x,PDF:1,C10616)
SV15D (13 Dec 2022) – PID = 245 ppb
Counts
x10^7
4.265 Freon 12
5.072 Chloroethane
6.227 Isopropanol (IPA)
7.972 1,1-Dichloroethane
8.697 Ethyl Acetate
9.834 1,1,1-Trichloroethane
10.551 Cyclohexane
12.099 4-Methyl-2-Pentanone
12.906 Toluene
14.647 1,1,1,2-Tetrachloroethane
15.609 Styrene
16.217 p-Bromofluorobenzene
17.133 4-Ethyltoluene
17.891 Benzyl chloride
19.043 1,2-Dibromo-3-chloropropane
21.123 Naphthalene
Acquisition Time (min)

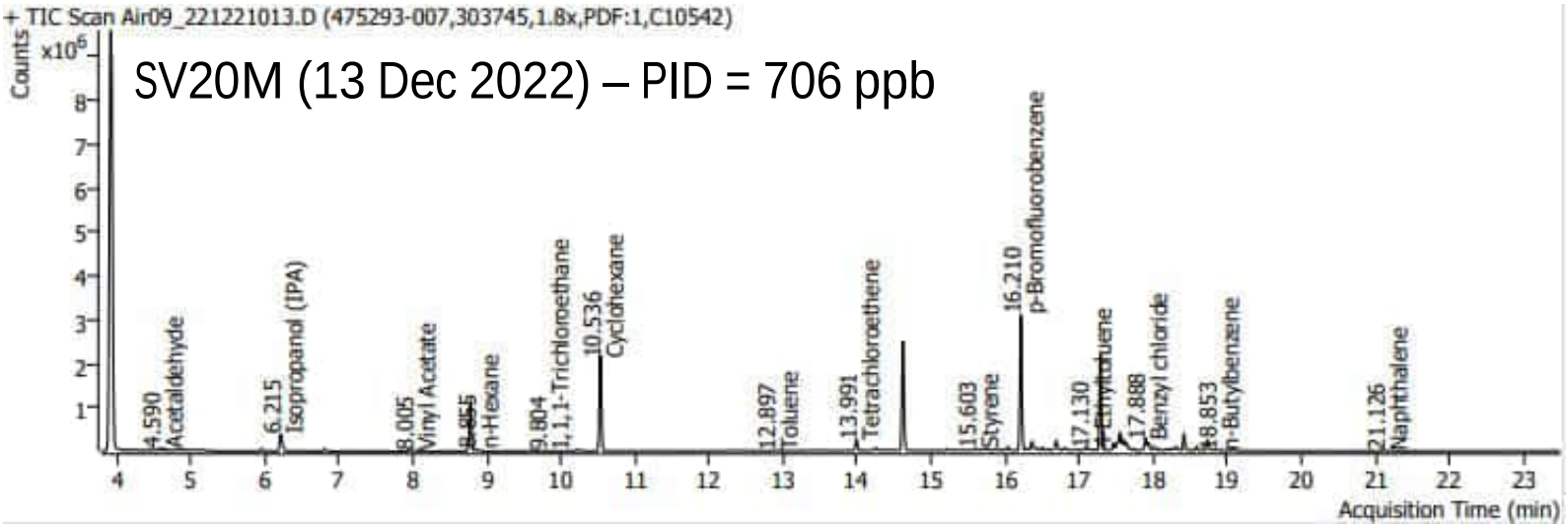

+ TIC Scan Air09_221221009.D (475293-003,303745,2x,PDF:1,C11096)
SV17S (13 Dec 2022) – PID = 364 ppb
Counts
x10^7
4.916 Butane
6.463 n-Pentane
8.032 Vinyl Acetate
8.863 n-Hexane
9.574 1,2-Dichloroethane
10.532 Cyclohexane
12.095 4-Methyl-2-Pentanone
12.899 1,3-Dichloropropane
14.647 1,1,1,2-Tetrachloroethane
15.602 Styrene
16.213 p-Bromofluorobenzene
17.129 4-Ethyltoluene
17.885 Benzyl chloride
19.049 1,2-Dibromo-3-chloropropane
21.126 Naphthalene
Acquisition Time (min)

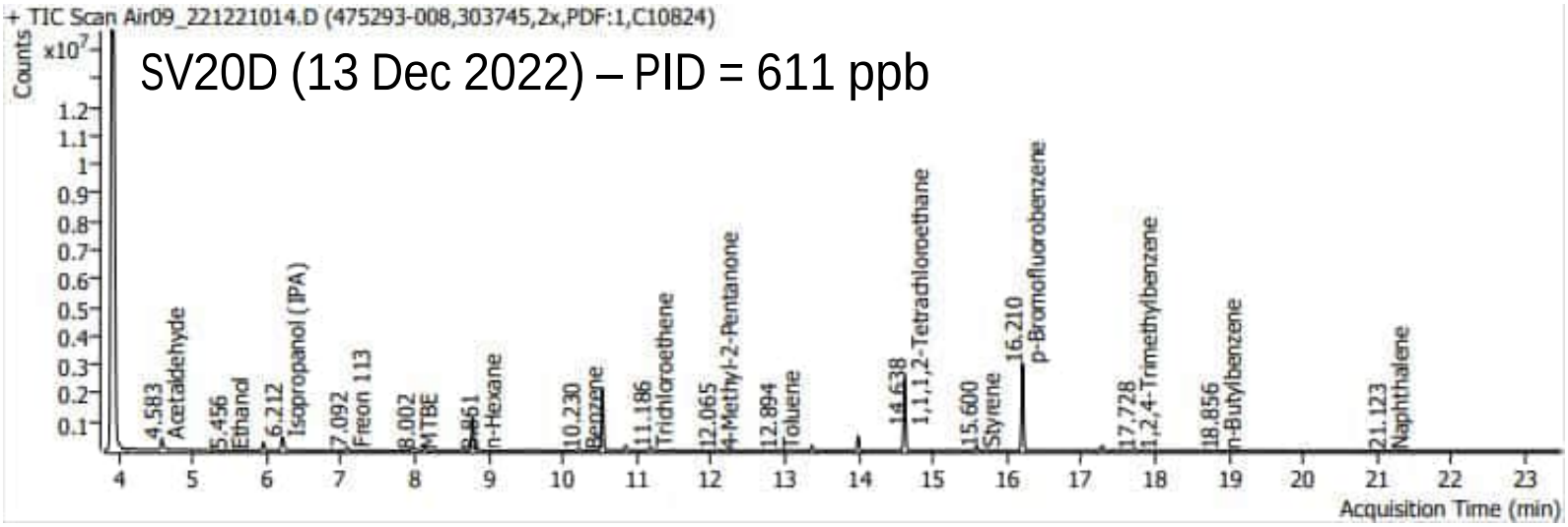

+ TIC Scan Air09_221221010.D (475293-004,303745,1.8x,PDF:1,C10761)
Counts
x10^7
SV17D (13 Dec 2022) – PID = 462 ppb
4.271 Freon 12
5.471 Ethanol
5.970 Acrolein
6.895 1,1-Dichloroethene
8.077 2-Butanone
8.876 n-Hexane
9.625 1,2-Dichloroethane
9.726 Methyl tert-Amyl Ether (TAME)
11.476 n-Heptane
12.903 Toluene
14.638 1,1,1,2-Tetrachloroethane
16.213 p-Bromofluorobenzene
16.957 n-Propylbenzene
17.891 Benzyl chloride
19.046 1,2-Dibromo-3-chloropropane
21.120 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221221026.D (475293-004,303745,9x,PDF:1,C10761)
Counts
x10^6
SV17D (13 Dec 2022) – PID = 462 ppb
4.267 Freon 12
5.943 Acrolein
6.859 1,1-Dichloroethene
8.041 2-Butanone
8.839 n-Hexane
9.583 1,2-Dichloroethane
11.455 n-Heptane
12.897 1,3-Dichloropropane
13.988 Tetrachloroethene
15.216 m,p-Xylenes
16.207 p-Bromofluorobenzene
17.683 tert-Butylbenzene
19.055 1,2-Dibromo-3-chloropropane
21.123 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_221221011.D (475293-005,303745,1.8x,PDF:1,C11056)
Counts
x10^7
SV18S (13 Dec 2022) – PID = 2,521 ppb
4.581 Acetaldehyde
5.296 Chloroethane
6.209 Isopropanol (IPA)
7.083 Carbon Disulfide
7.999 MTBE
8.848 n-Hexane
10.215 Benzene
10.953 1,2-Dichloropropane
12.059 4-Methyl-2-Pentanone
12.891 Toluene
13.991 Tetrachloroethene
15.219 m,p-Xylenes
16.207 p-Bromofluorobenzene
17.220 1,3,5-Trimethylbenzene
17.885 Benzyl chloride
19.355 Hexachloroethane
21.123 Naphthalene
Acquisition Time (min)

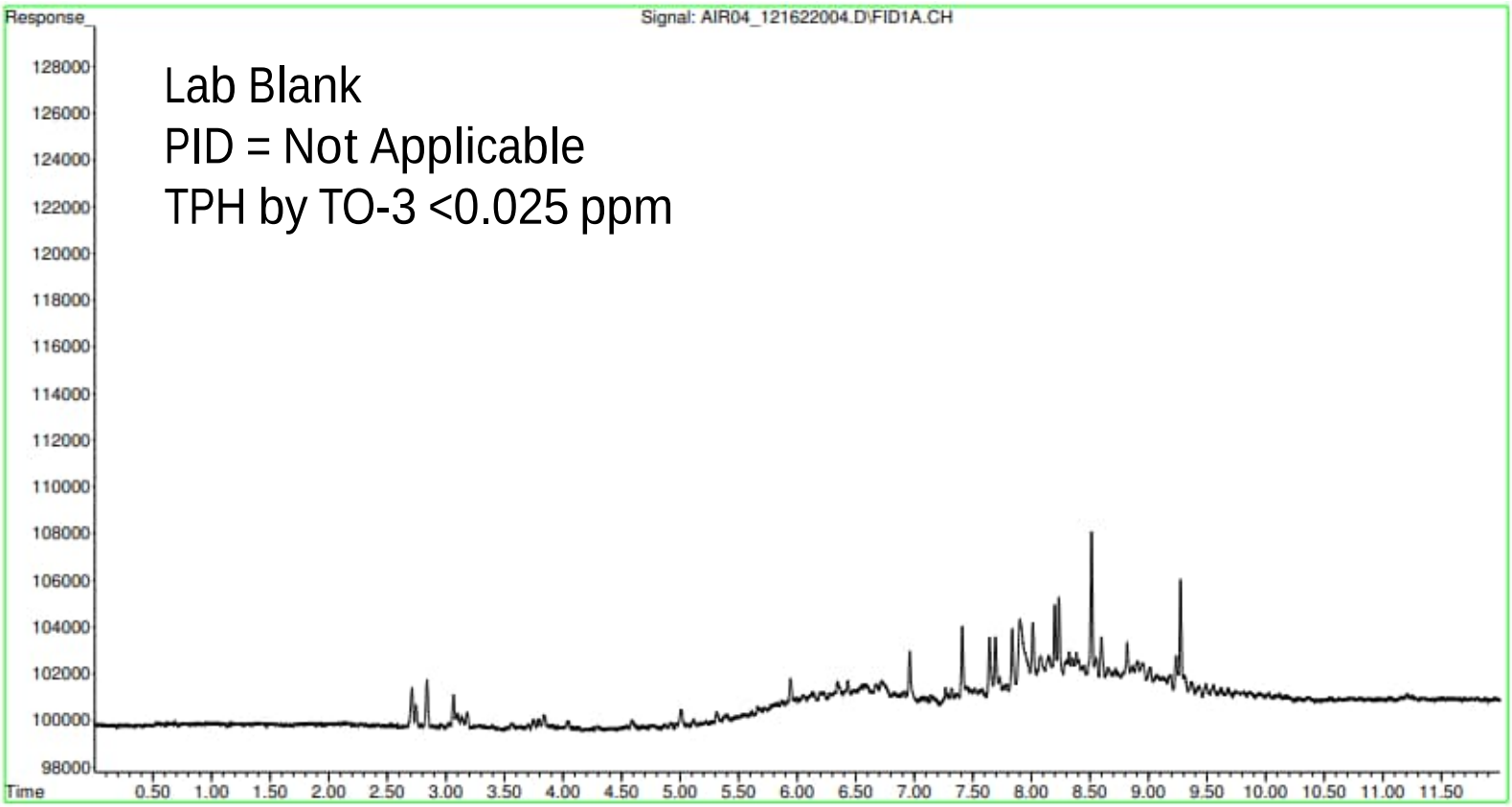

+ TIC Scan Air09_221221012.D (475293-006,303745,2x,PDF:1,C10939)
Counts
x10^7
SV18D (13 Dec 2022) – PID = 4,0111 ppb
4.583 Acetaldehyde
5.293 Chloroethane
6.197 Isopropanol (IPA)
7.077 3-Chloropropene
7.945 MTBE
8.839 n-Hexane
9.559 1,2-Dichloroethane
10.520 Cydohexane
12.050 4-Methyl-2-Pentanone
12.888 Toluene
14.629 1,1,1,2-Tetrachloroethane
15.721 p-Xylene
16.207 p-Bromofluorobenzene
17.220 1,3,5-Trimethylbenzene
17.885 Benzyl chloride
19.355 Hexachloroethane
21.123 Naphthalene
Acquisition Time (min)

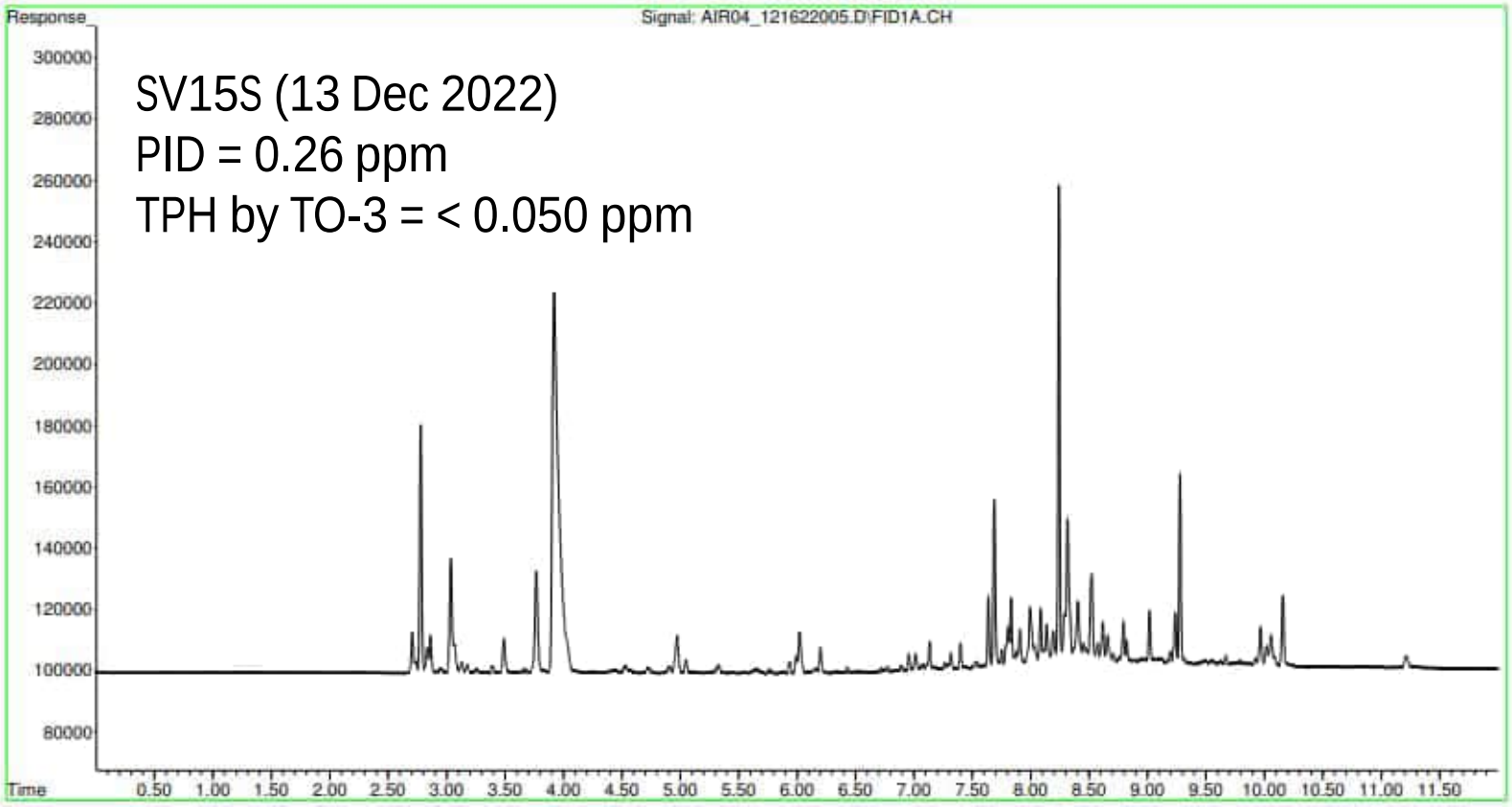

+ TIC Scan Air09_221221013.D (475293-007,303745,1.8x,PDF:1,C10542)
Counts
x10^6
SV20M (13 Dec 2022) – PID = 706 ppb
4.590 Acetaldehyde
6.215 Isopropanol (IPA)
8.005 Vinyl Acetate
n-Hexane
9.804 1,1,1-Trichloroethane
10.536 Cyclohexane
12.897 Toluene
13.991 Tetrachloroethene
15.603 Styrene
16.210 p-Bromofluorobenzene
17.130 Ethyltoluene
17.888 Benzyl chloride
18.853 n-Butylbenzene
21.126 Naphthalene
Acquisition Time (min)

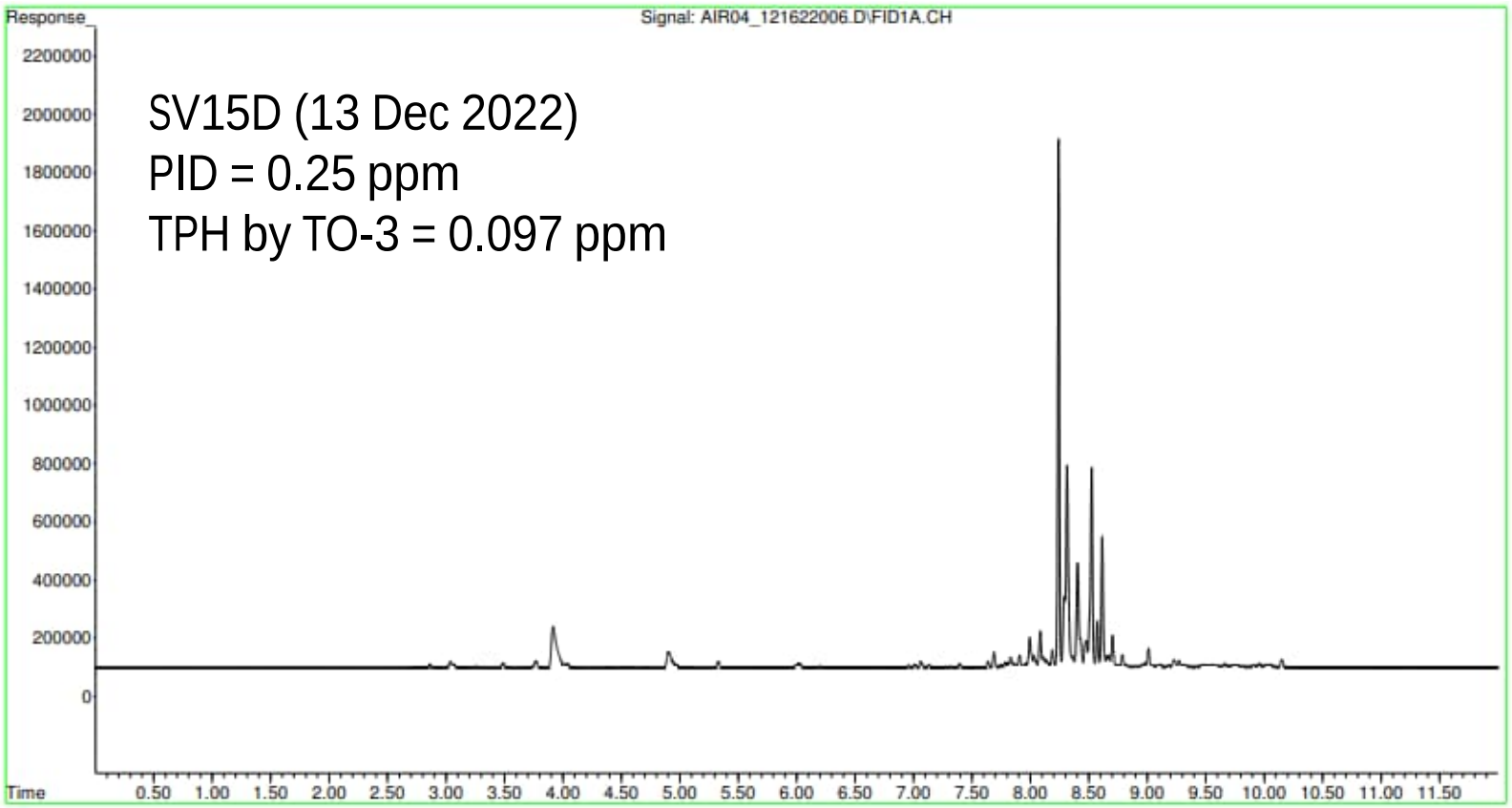

+ TIC Scan Air09_221221014.D (475293-008,303745,2x,PDF:1,C10824)
Counts
x10^7
SV20D (13 Dec 2022) – PID = 611 ppb
4.583 Acetaldehyde
5.456 Ethanol
6.212 Isopropanol (IPA)
7.092 Freon 113
8.002 MTBE
n-Hexane
10.230 Benzene
11.186 Trichloroethene
12.065 4-Methyl-2-Pentanone
12.894 Toluene
14.638 1,1,1,2-Tetrachloroethane
15.600 Styrene
16.210 p-Bromofluorobenzene
17.728 1,2,4-Trimethylbenzene
18.856 n-Butylbenzene
21.123 Naphthalene
Acquisition Time (min)

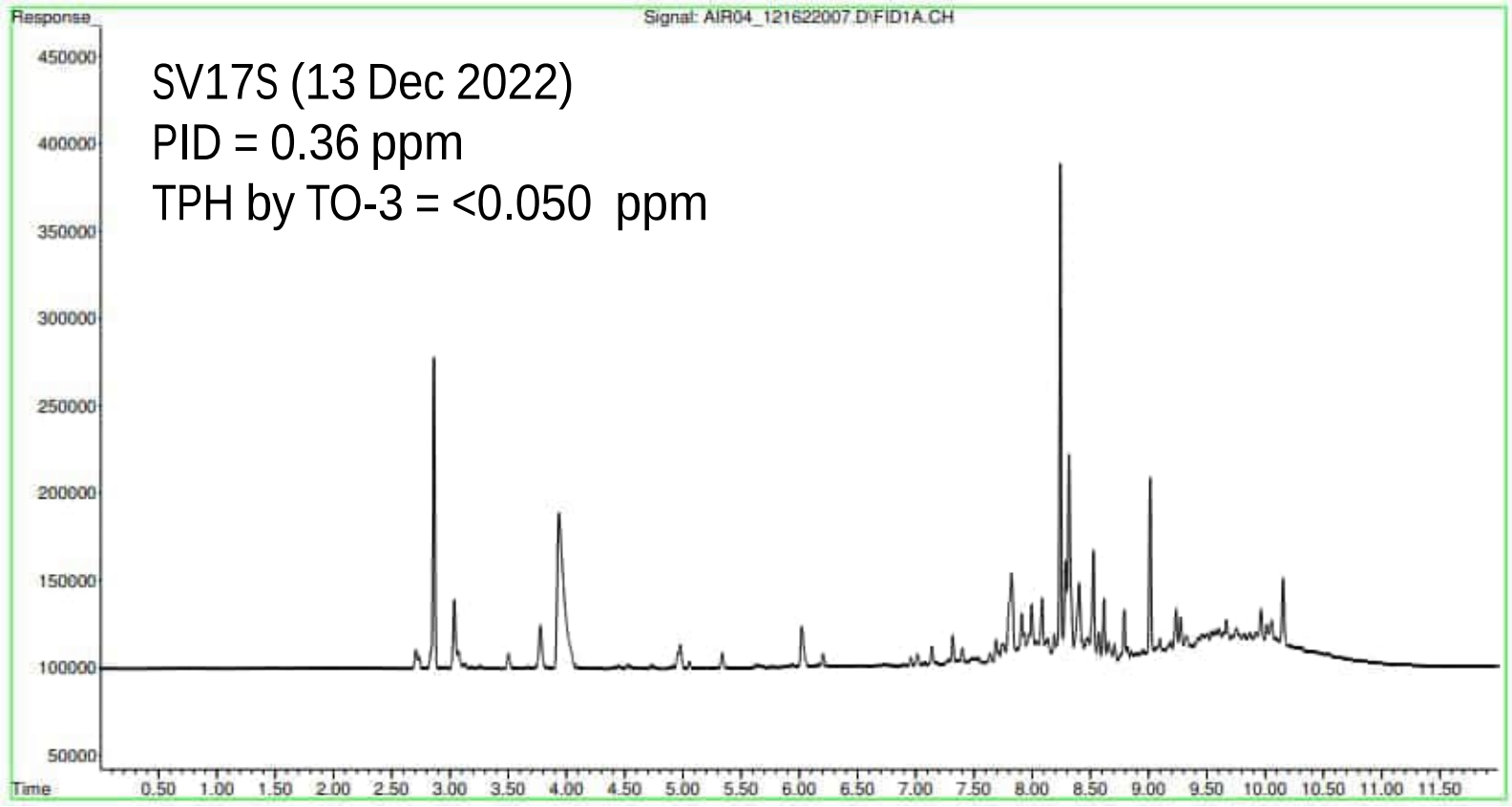
December 13, 2022
Soil Vapor Samples

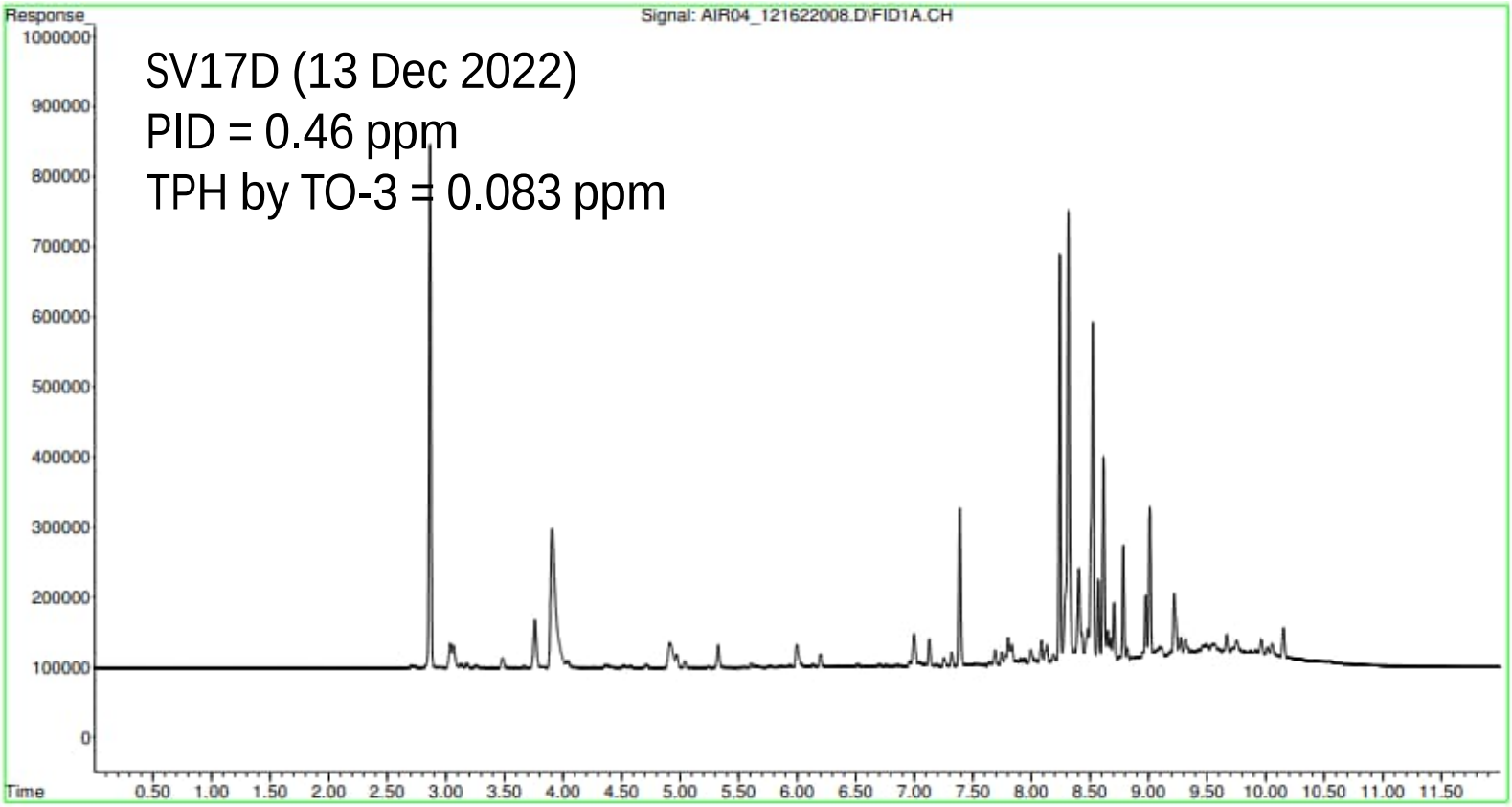
FID Chromatograms


Response
Signal: AIR04_121622004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
128000
126000
124000
122000
120000
118000
116000
114000
112000
110000
108000
106000
104000
102000
100000
98000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

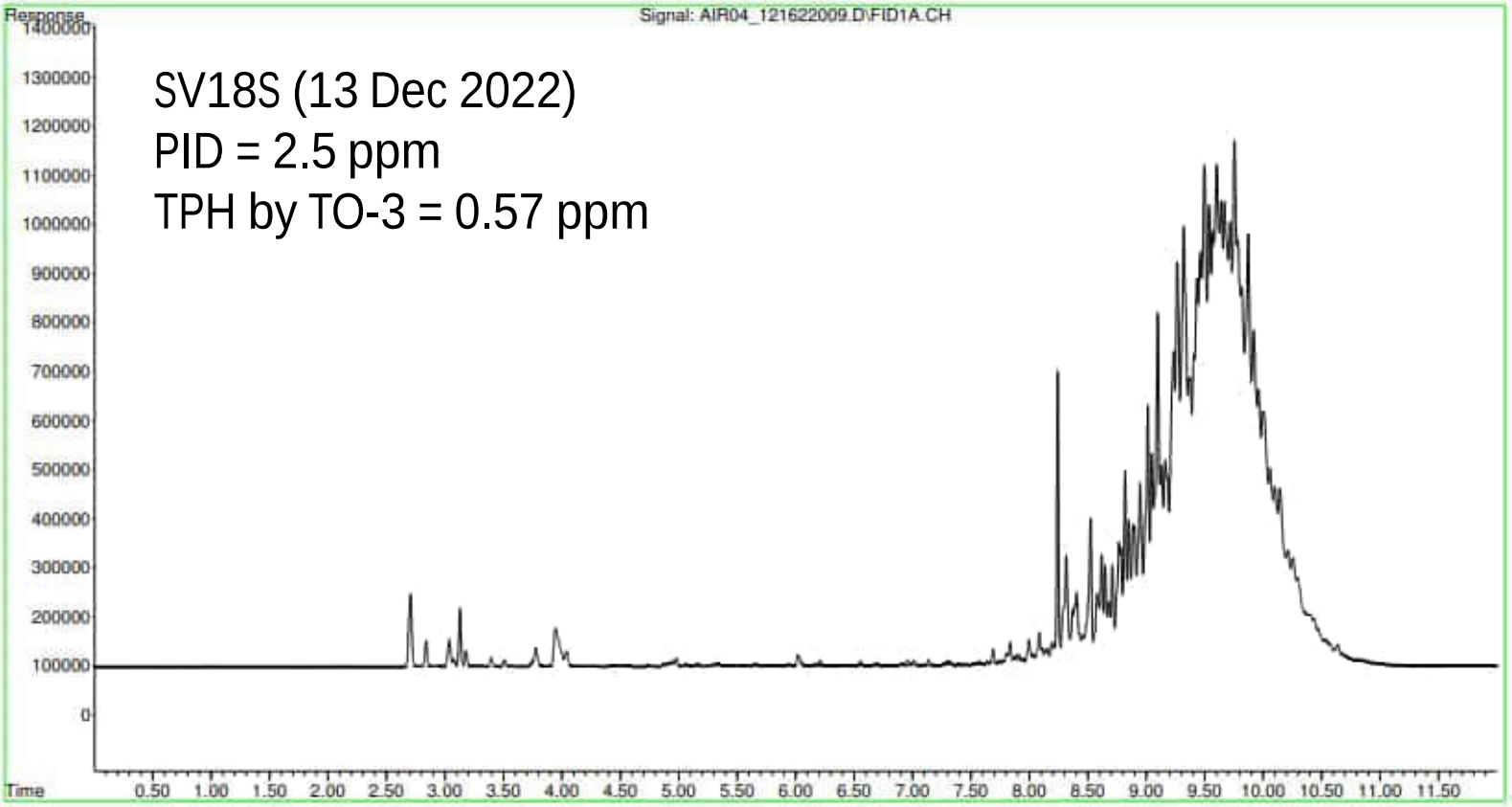

Response
Signal: AIR04_121622005.D\FID1A.CH
SV15S (13 Dec 2022)
PID = 0.26 ppm
TPH by TO-3 = < 0.050 ppm
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_121622006.D\FID1A.CH
SV15D (13 Dec 2022)
PID = 0.25 ppm
TPH by TO-3 = 0.097 ppm
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

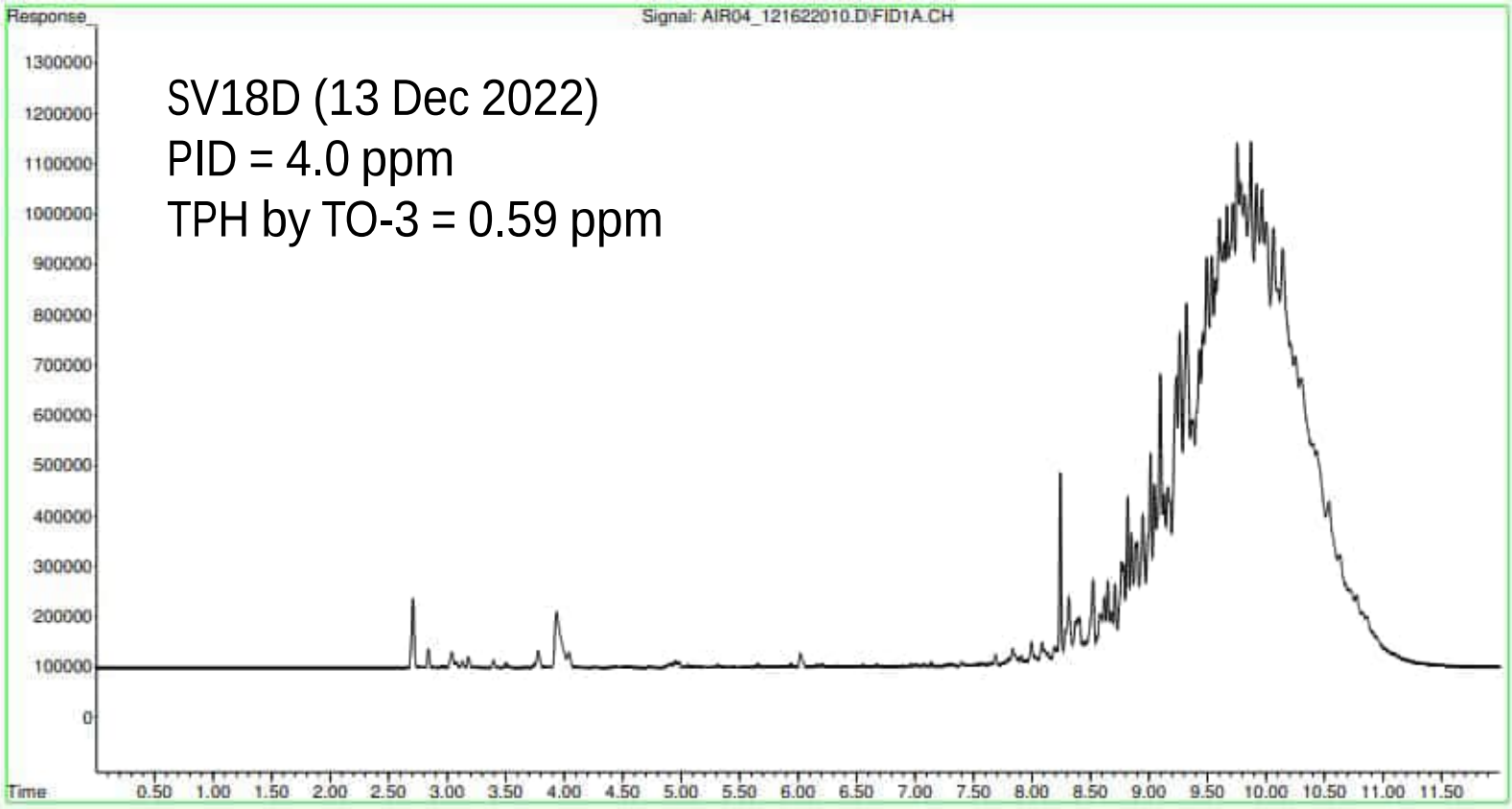

Response
Signal: AIR04_121622007.D\FID1A.CH
SV17S (13 Dec 2022)
PID = 0.36 ppm
TPH by TO-3 = <0.050 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

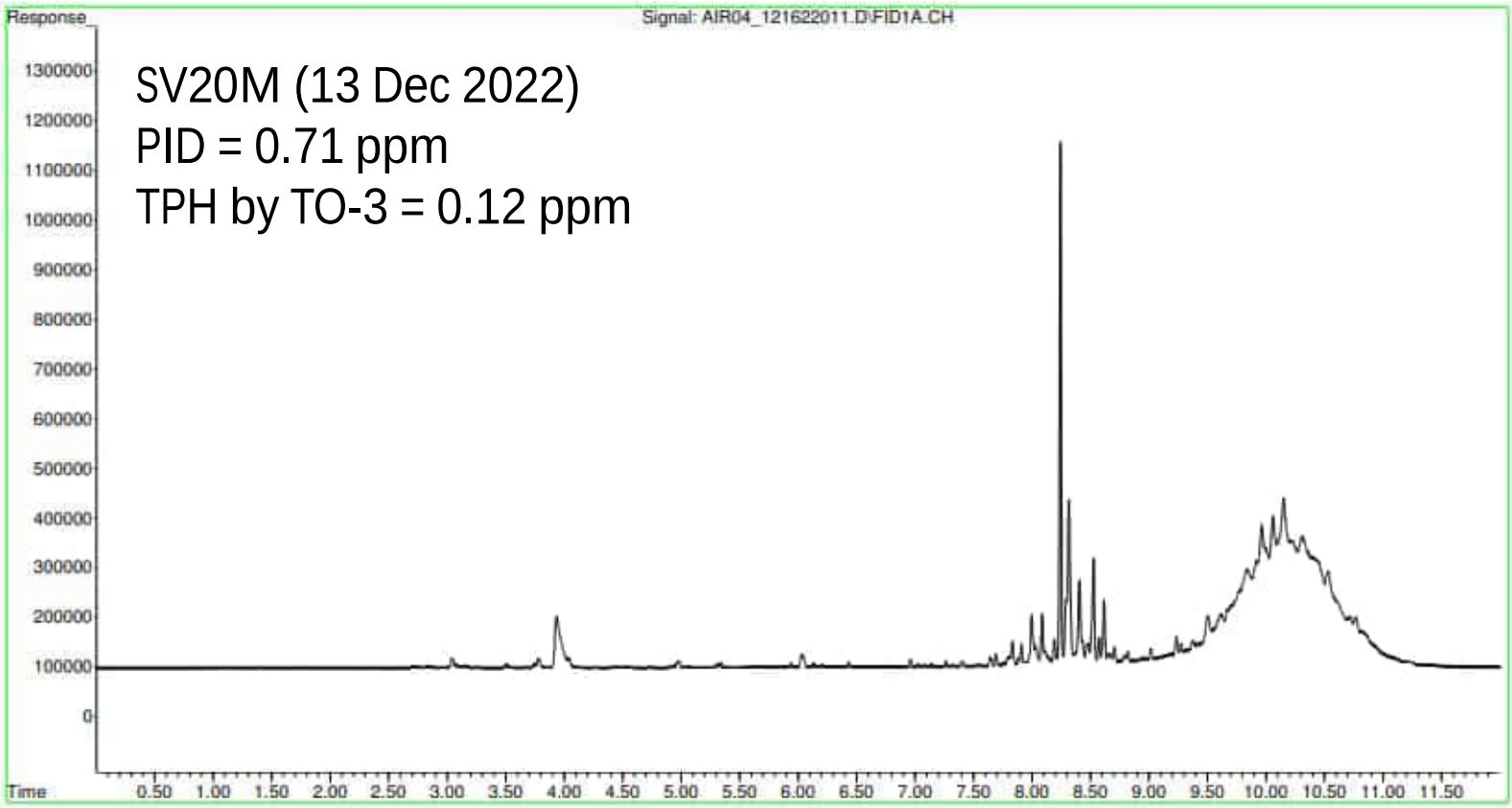


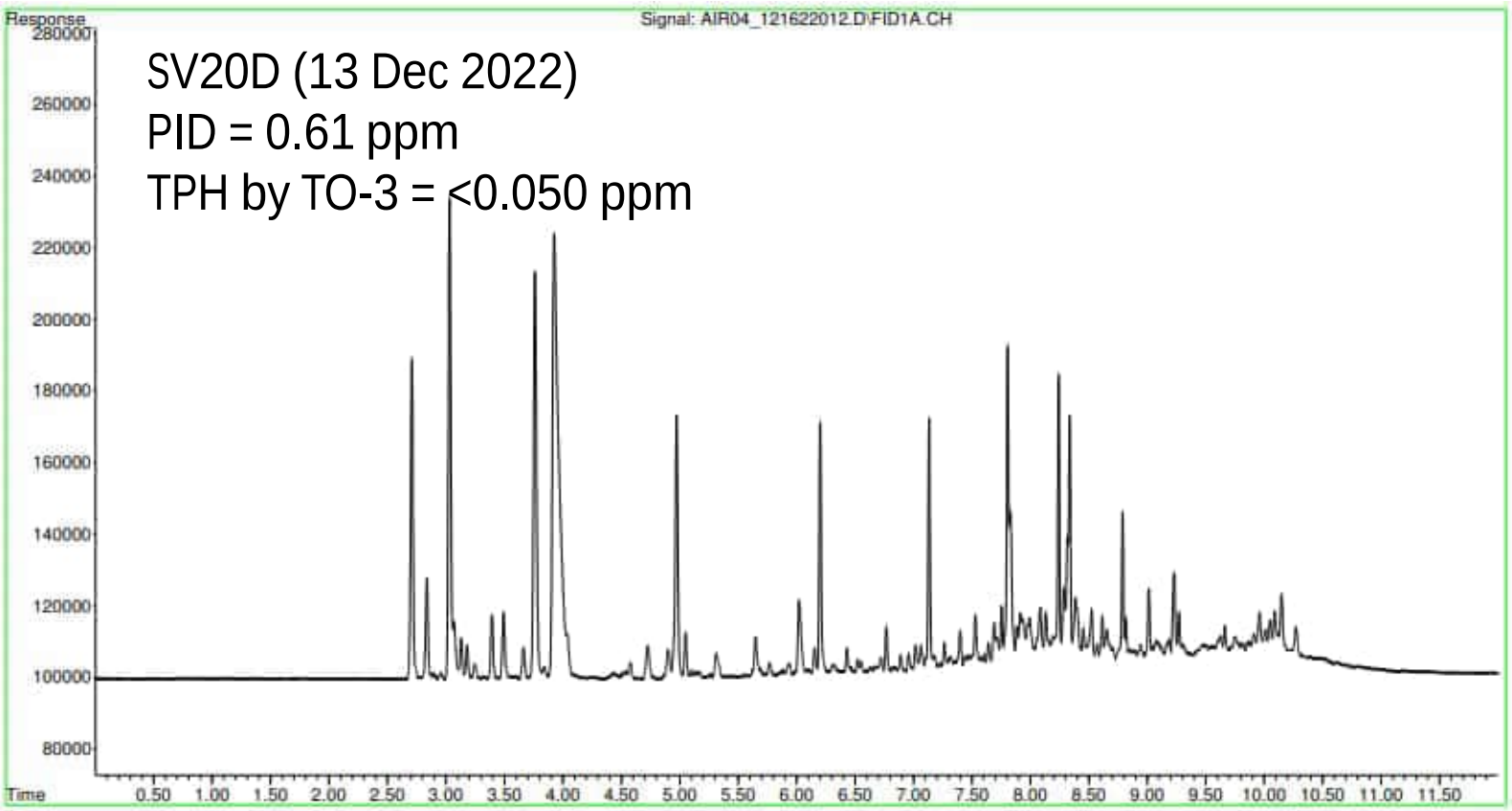
SV17D (13 Dec 2022)
PID = 0.46 ppm
TPH by TO-3 = 0.083 ppm



SV18S (13 Dec 2022)
PID = 2.5 ppm
TPH by TO-3 = 0.57 ppm

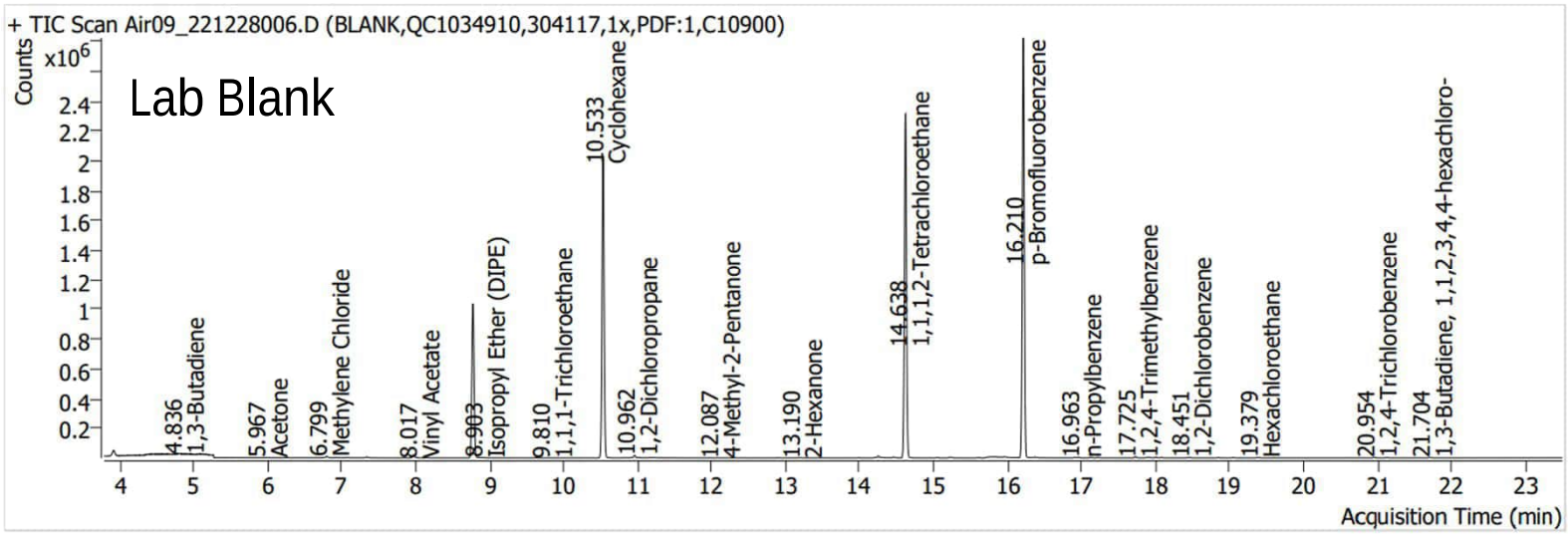

Response_
Signal: AIR04_121622010.D\FID1A.CH
SV18D (13 Dec 2022)
PID = 4.0 ppm
TPH by TO-3 = 0.59 ppm
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

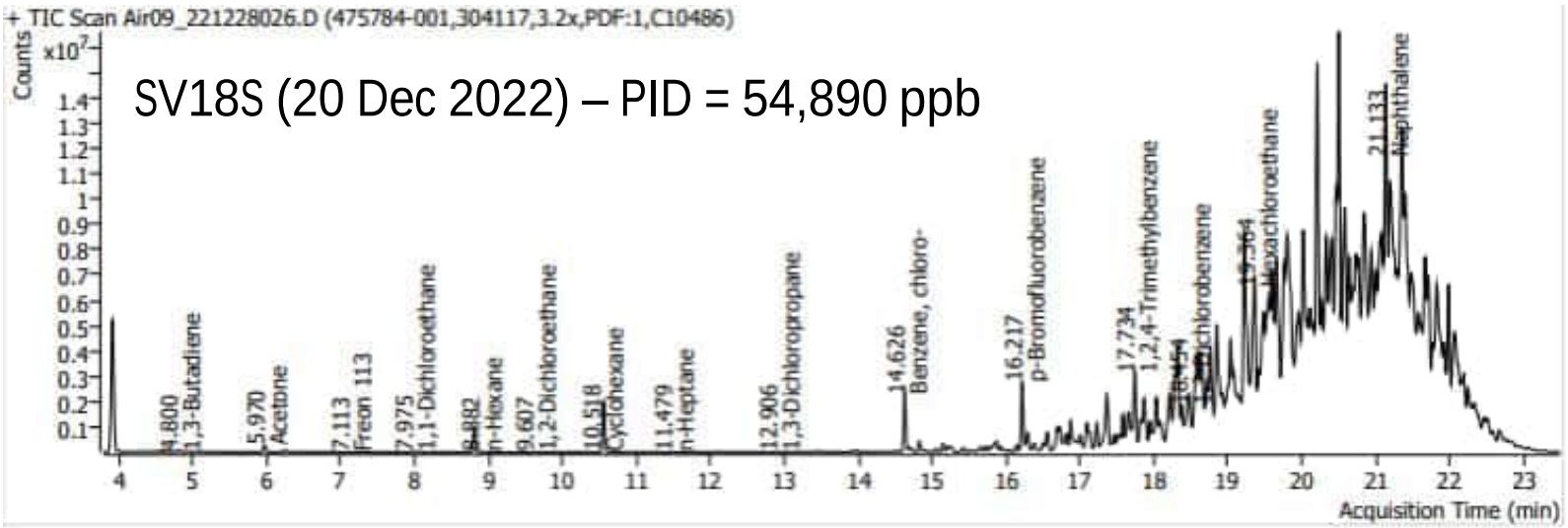

Response_
Signal: AIR04_121622011.D\FID1A.CH
SV20M (13 Dec 2022)
PID = 0.71 ppm
TPH by TO-3 = 0.12 ppm
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

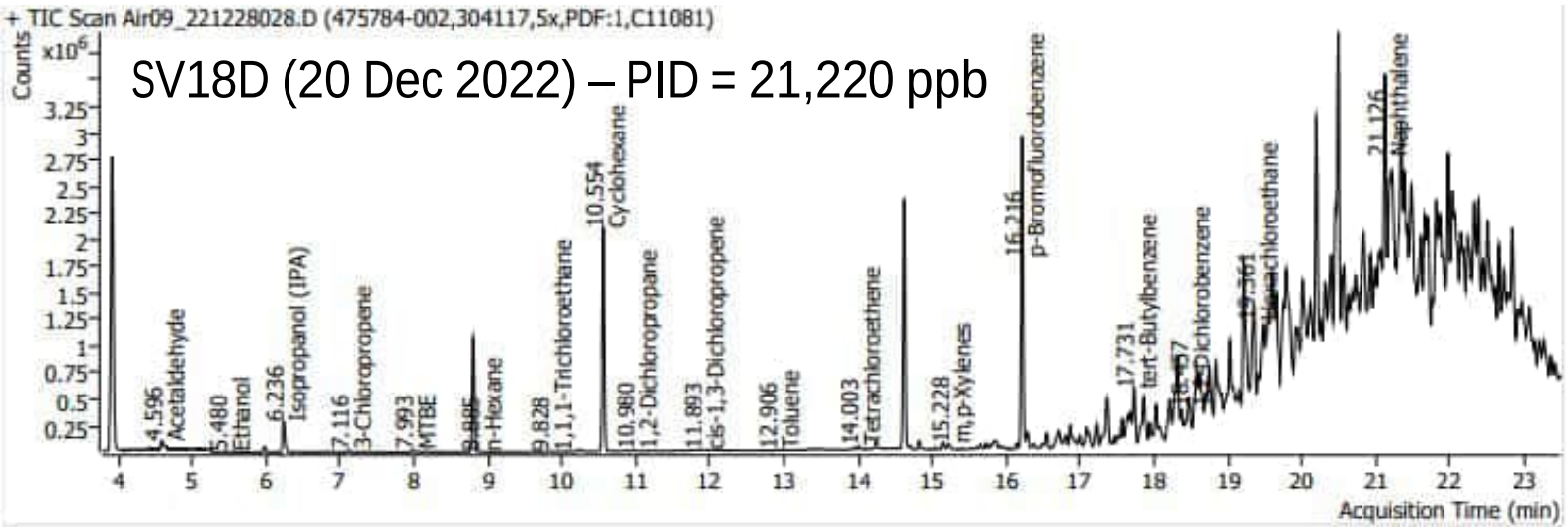

Response
Signal: AIR04_121622012.D\FID1A.CH
SV20D (13 Dec 2022)
PID = 0.61 ppm
TPH by TO-3 = <0.050 ppm
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

December 20, 2022
Soil Vapor Samples

Mass Spec Chromatograms

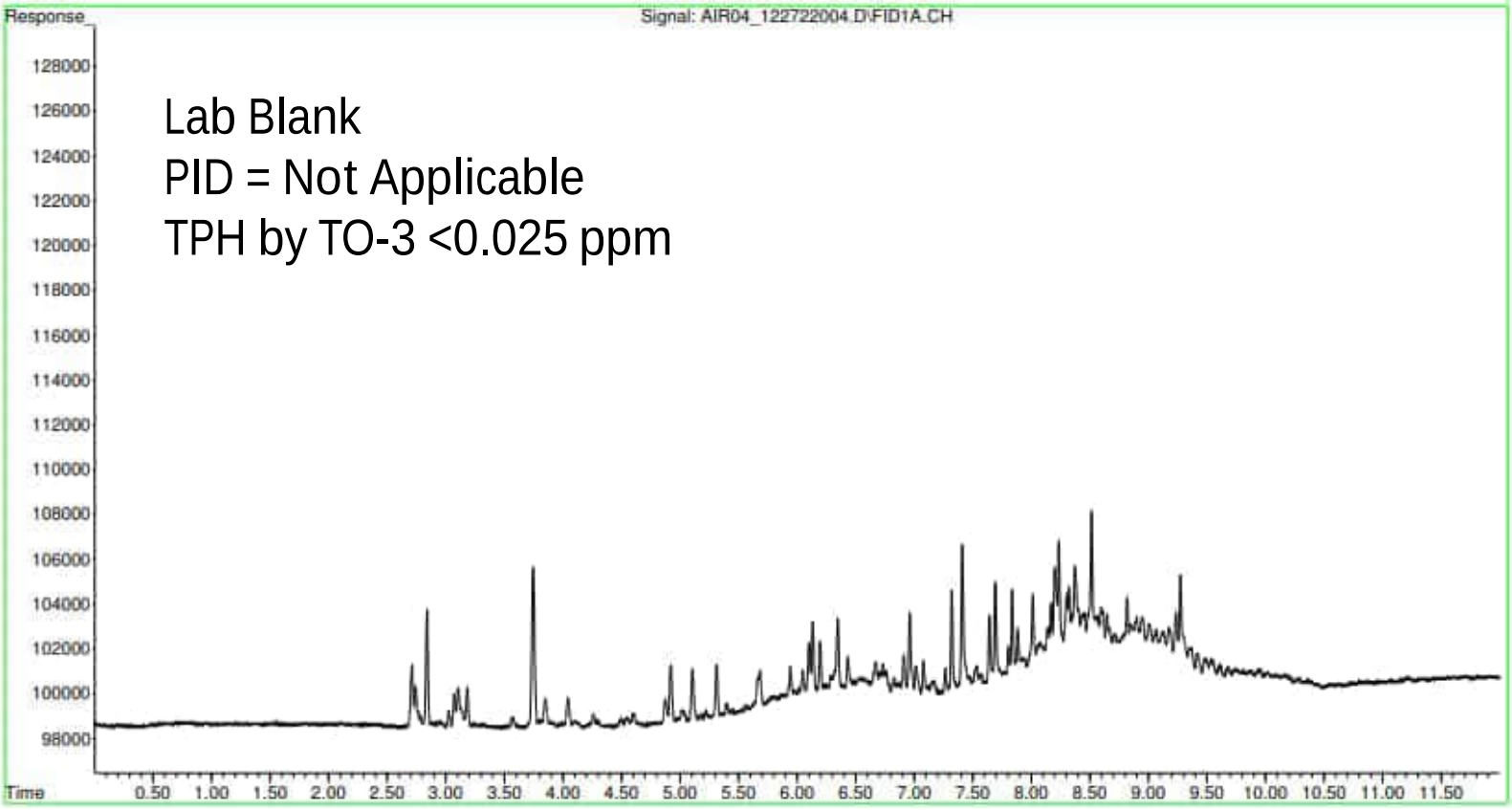

+ TIC Scan Air09_221228006.D (BLANK,QC1034910,304117,1x,PDF:1,C10900)
Lab Blank
Counts
x10^6
4.836 1,3-Butadiene
5.967 Acetone
6.799 Methylene Chloride
8.017 Vinyl Acetate
8.903 Isopropyl Ether (DIPE)
9.810 1,1,1-Trichloroethane
10.533 Cyclohexane
10.962 1,2-Dichloropropane
12.087 4-Methyl-2-Pentanone
13.190 2-Hexanone
14.638 1,1,1,2-Tetrachloroethane
16.210 p-Bromofluorobenzene
16.963 n-Propylbenzene
17.725 1,2,4-Trimethylbenzene
18.451 1,2-Dichlorobenzene
19.379 Hexachloroethane
20.954 1,2,4-Trichlorobenzene
21.704 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)


+ TIC Scan Air09_221228026.D (475784-001,304117,3.2x,PDF:1,C10486)
SV18S (20 Dec 2022) – PID = 54,890 ppb
Counts
x10^7
4.800 1,3-Butadiene
5.970 Acetone
7.113 Freon 113
7.975 1,1-Dichloroethane
8.882 n-Hexane
9.607 1,2-Dichloroethane
10.518 Cyclohexane
11.479 n-Heptane
12.906 1,3-Dichloropropane
14.626 Benzene, chloro-
16.217 p-Bromofluorobenzene
17.734 1,2,4-Trimethylbenzene
18.454 1,2-Dichlorobenzene
19.364 Hexachloroethane
21.133 Naphthalene
Acquisition Time (min)

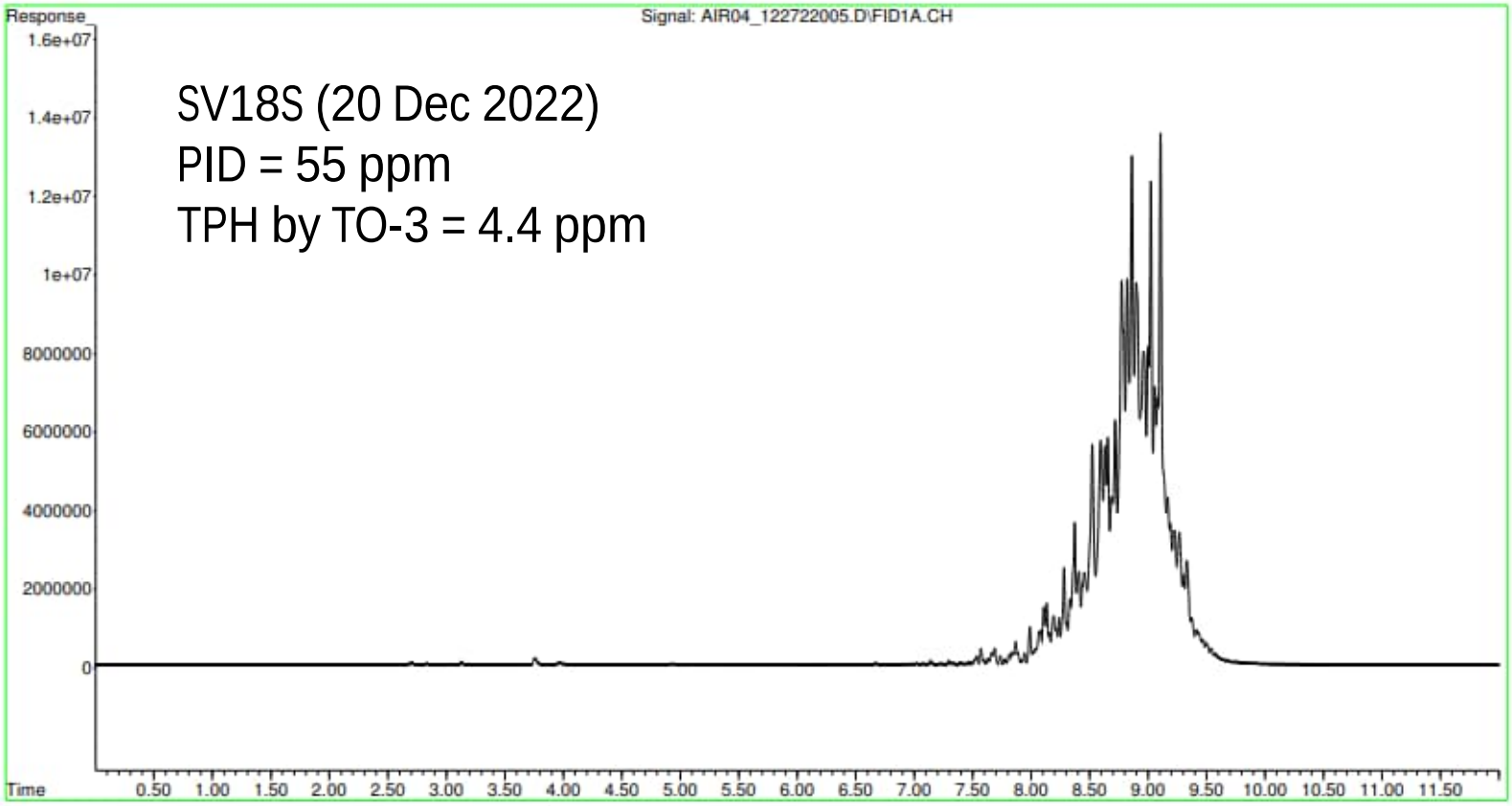

+ TIC Scan Air09_221228028.D (475784-002,304117,5x,PDF:1,C11081)
SV18D (20 Dec 2022) – PID = 21,220 ppb
Counts
x10^6
4.596 Acetaldehyde
5.480 Ethanol
6.236 Isopropanol (IPA)
7.116 3-Chloropropene
7.993 MTBE
8.885 n-Hexane
9.828 1,1,1-Trichloroethane
10.554 Cyclohexane
10.980 1,2-Dichloropropane
11.893 cis-1,3-Dichloropropene
12.906 Toluene
14.003 Tetrachloroethene
15.228 m,p-Xylenes
16.216 p-Bromofluorobenzene
17.731 tert-Butylbenzene
18.457 1,2-Dichlorobenzene
19.361 Hexachloroethane
21.126 Naphthalene
Acquisition Time (min)

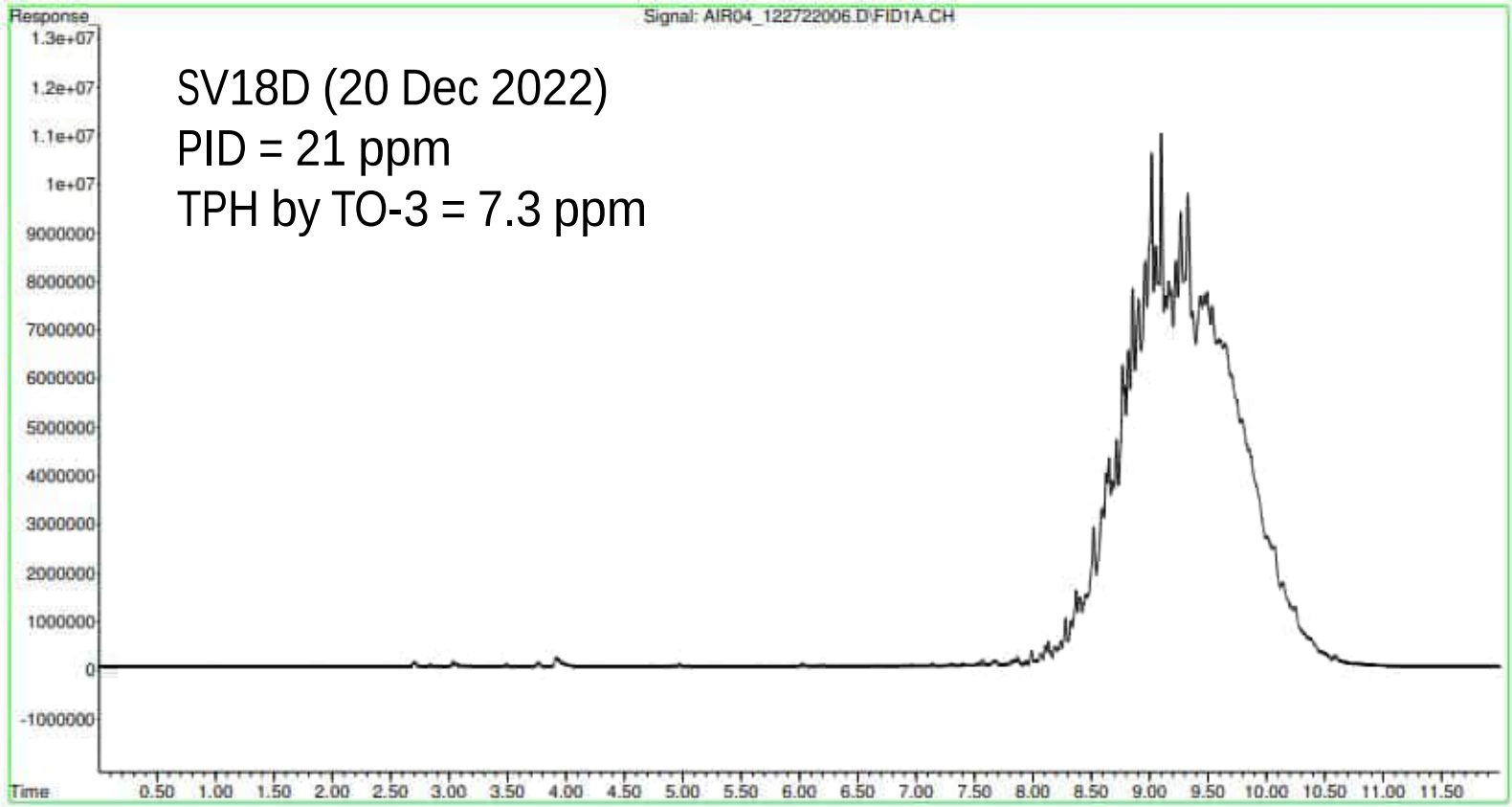
December 20, 2022
Soil Vapor Samples

FID Chromatograms



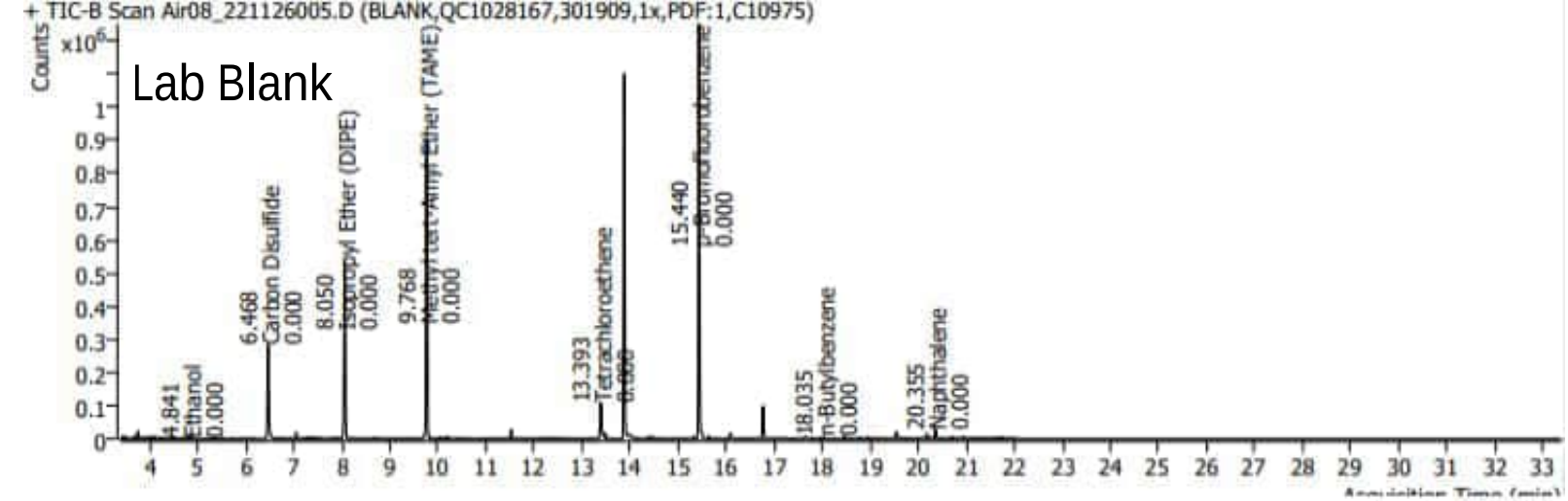
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

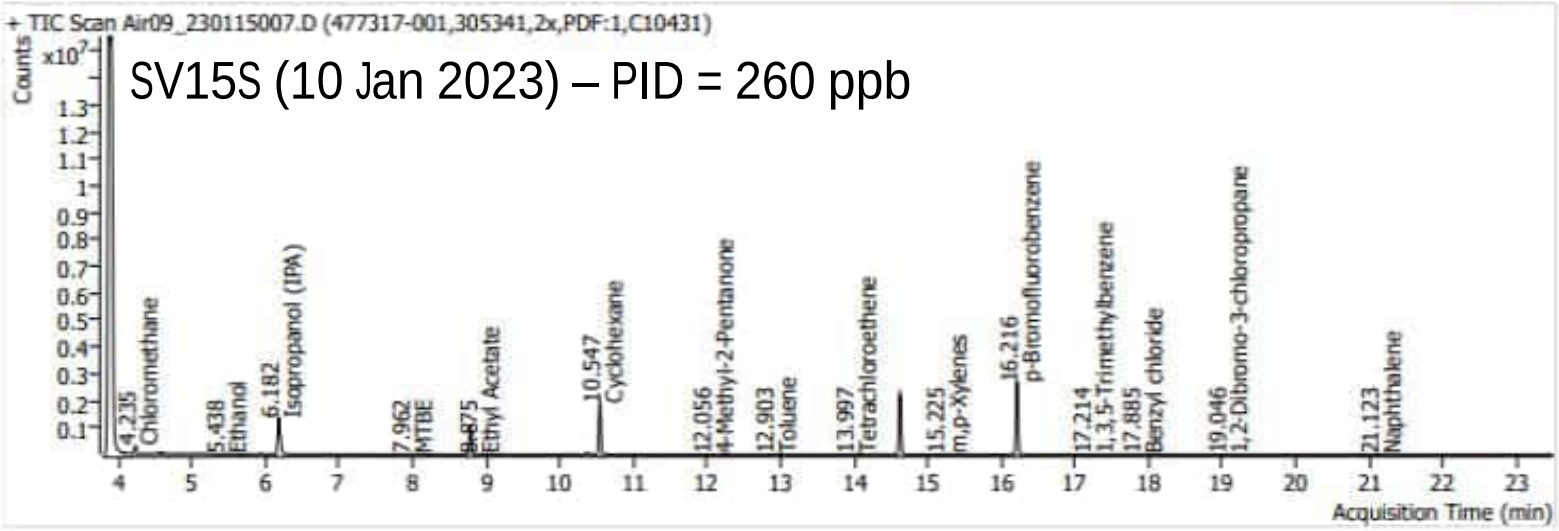

Response
Signal: AIR04_122722005.D\FID1A.CH
1.6e+07
1.4e+07
1.2e+07
1e+07
8000000
6000000
4000000
2000000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV18S (20 Dec 2022)
PID = 55 ppm
TPH by TO-3 = 4.4 ppm

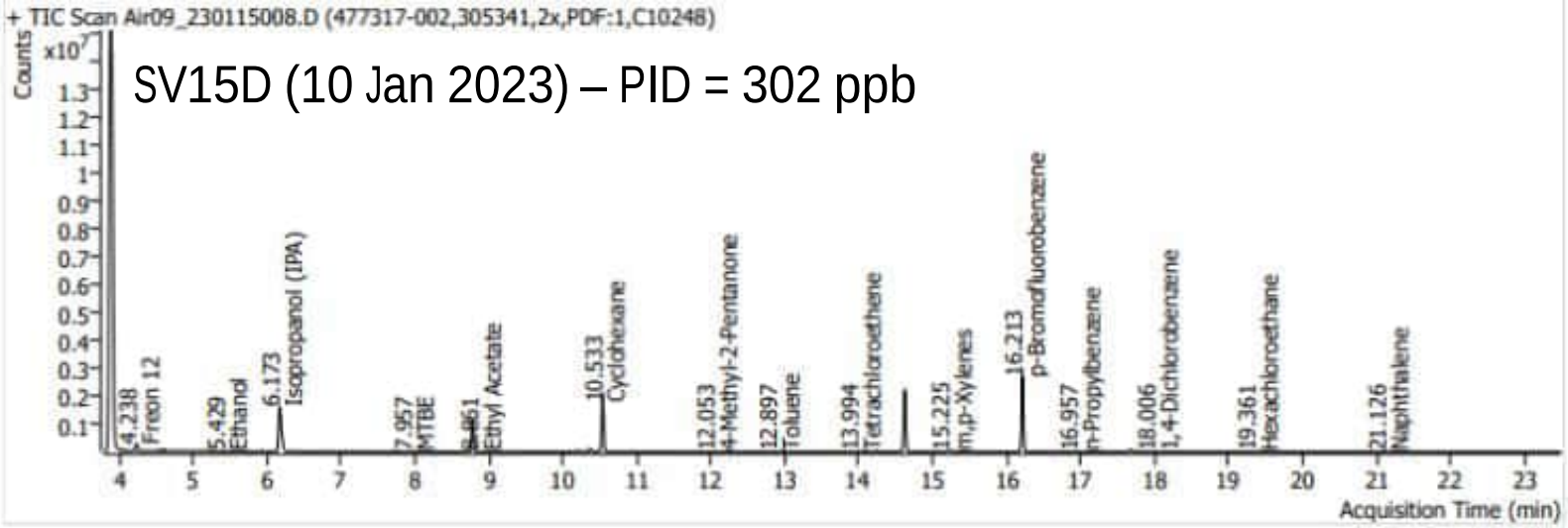

Response
Signal: AIR04_122722006.D\FID1A.CH
1.3e+07
1.2e+07
1.1e+07
1e+07
9000000
8000000
7000000
6000000
5000000
4000000
3000000
2000000
1000000
0
-1000000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV18D (20 Dec 2022)
PID = 21 ppm
TPH by TO-3 = 7.3 ppm

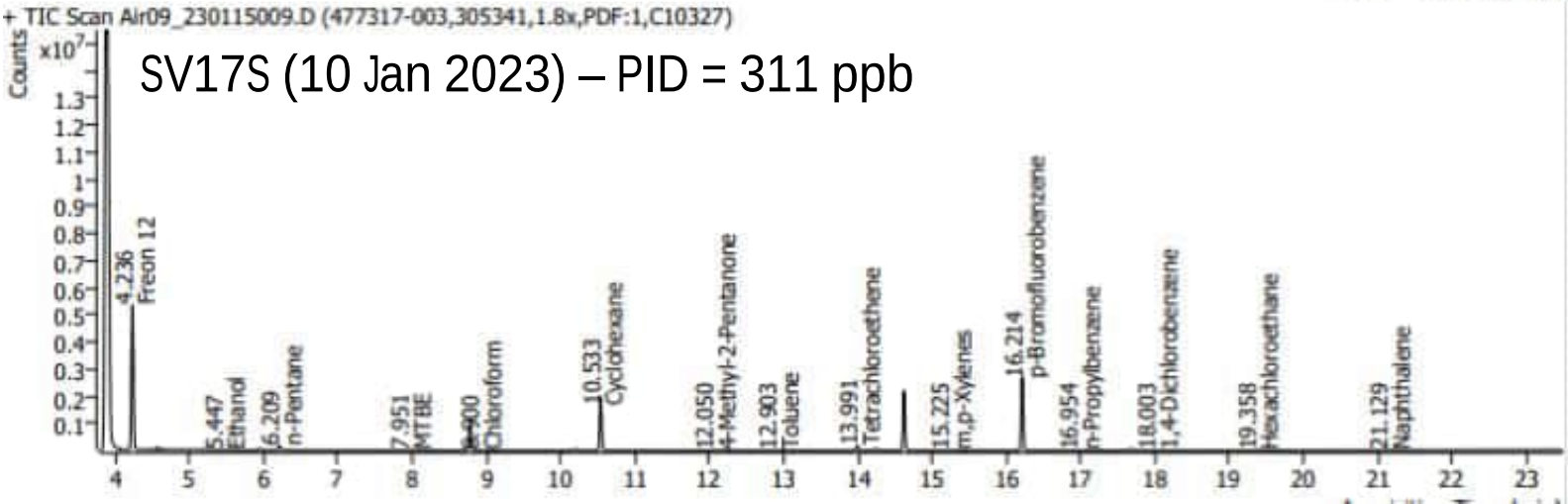
January 2023
Soil Vapor Samples

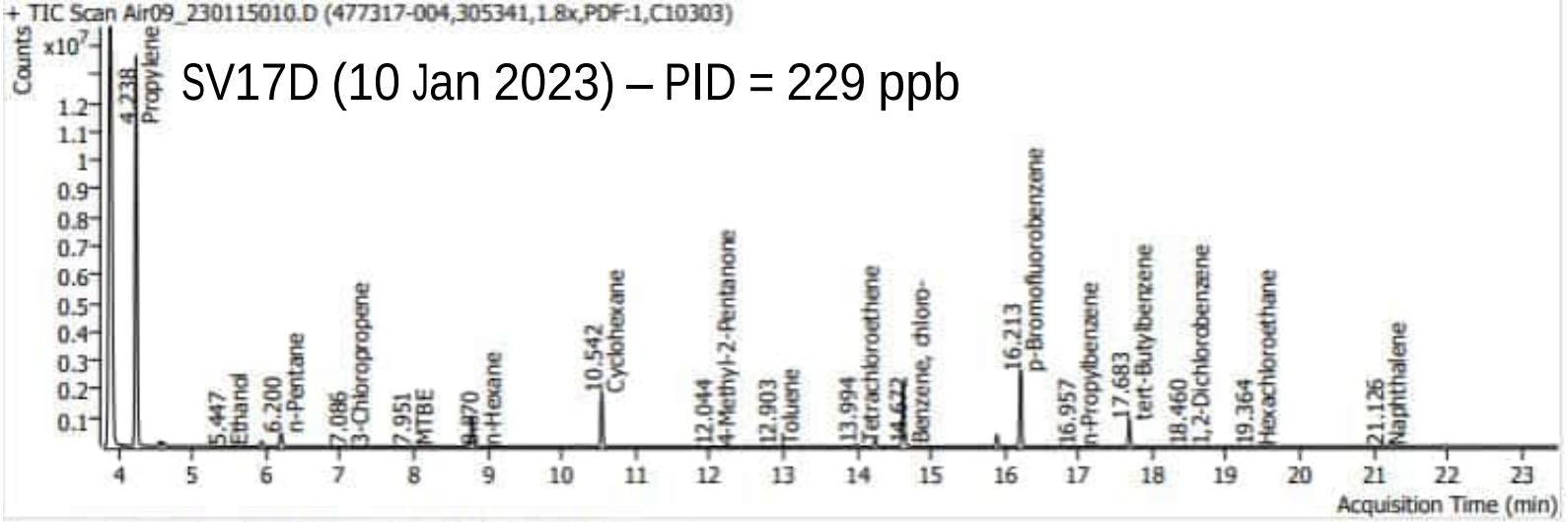
Mass Spec Chromatograms

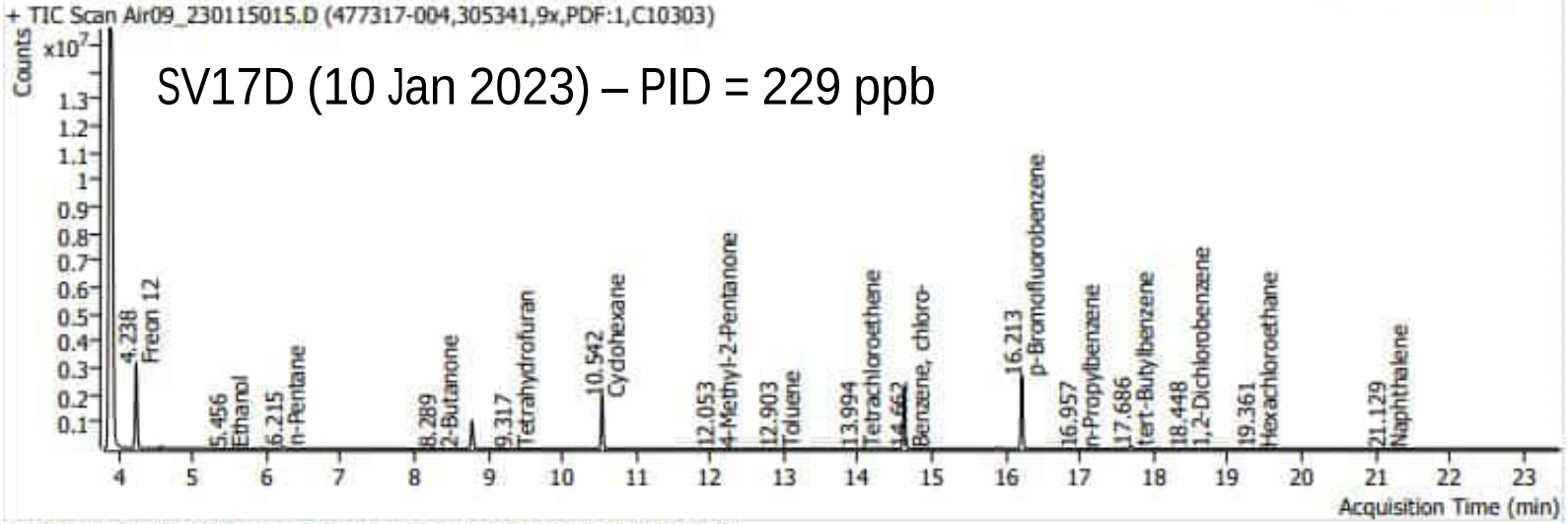

+ TIC-B Scan Air08_221126005.D (BLANK,QC1028167,301909,1x,PDF:1,C10975)
Counts
x10^6
Lab Blank
4.841 Ethanol 0.000
6.468 Carbon Disulfide 0.000
8.050 Isopropyl Ether (DIPE) 0.000
9.768 Methyl tert-Amyl Ether (TAME) 0.000
13.393 Tetrachloroethene
15.440 p-Bromofluorobenzene 0.000
18.035 n-Butylbenzene 0.000
20.355 Naphthalene 0.000

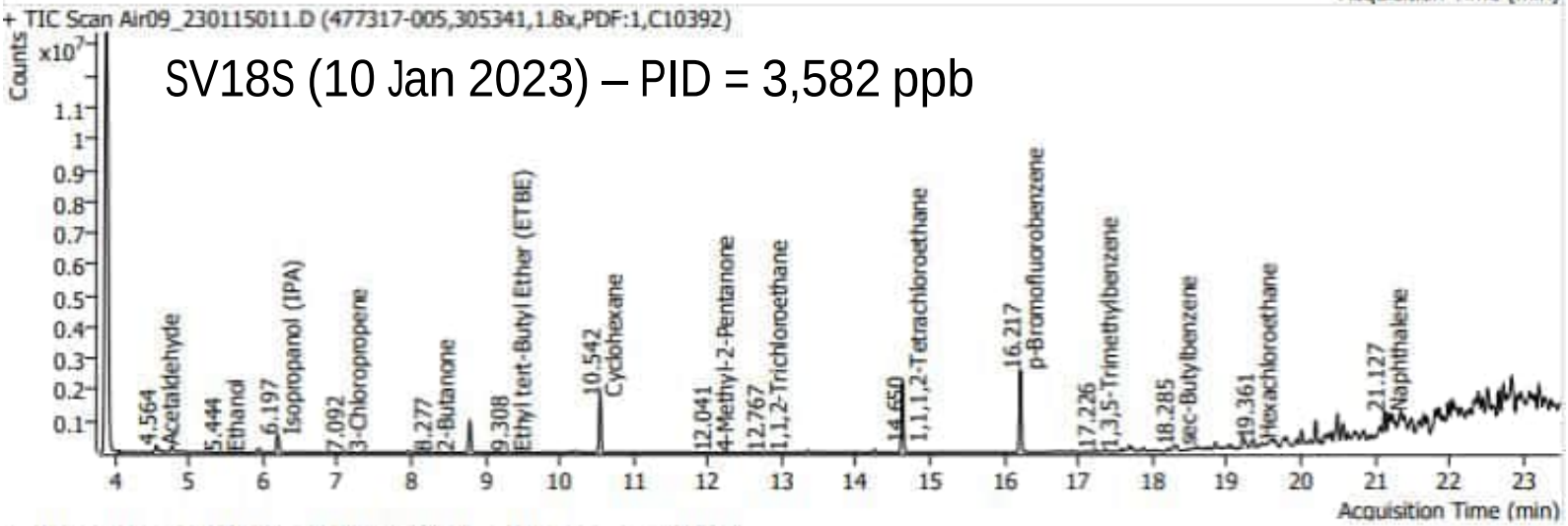

+ TIC Scan Air09_230115007.D (477317-001,305341,2x,PDF:1,C10431)
Counts
x10^7
SV15S (10 Jan 2023) – PID = 260 ppb
4.235 Chloromethane
5.438 Ethanol
6.182 Isopropanol (IPA)
7.962 MTBE
8.875 Ethyl Acetate
10.547 Cyclohexane
12.056 4-Methyl-2-Pentanone
12.903 Toluene
13.997 Tetrachloroethene
15.225 m,p-Xylenes
16.216 p-Bromofluorobenzene
17.214 1,3,5-Trimethylbenzene
17.885 Benzyl chloride
19.046 1,2-Dibromo-3-chloropropane
21.123 Naphthalene
Acquisition Time (min)

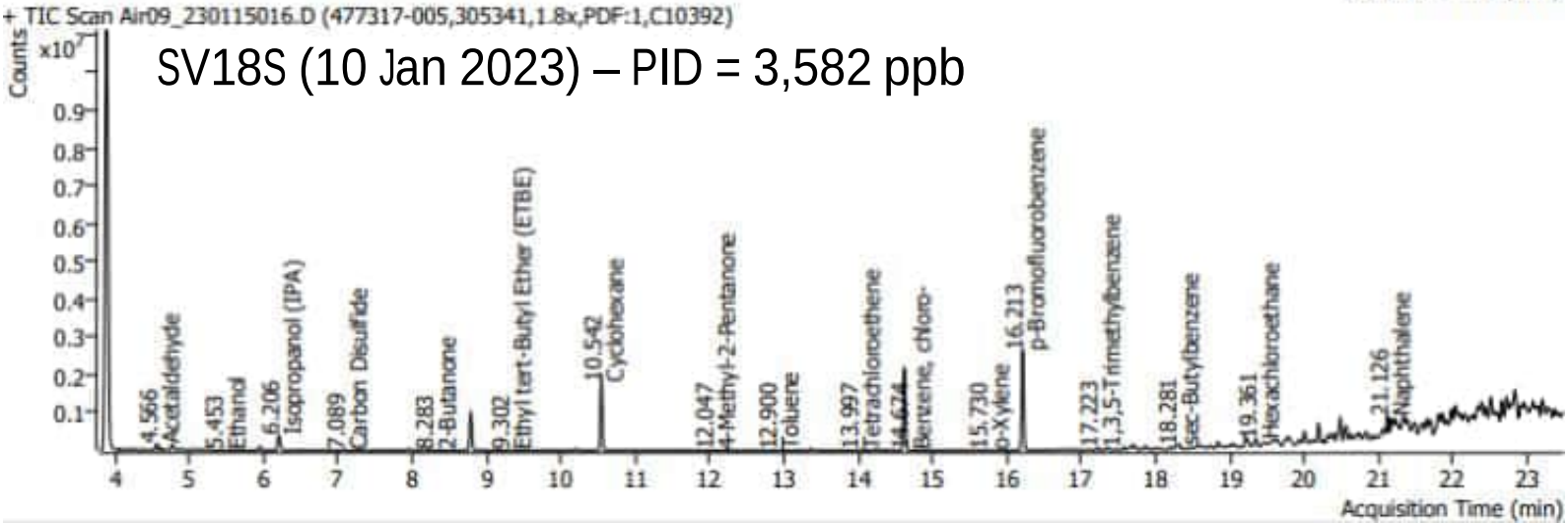

+ TIC Scan Air09_230115008.D (477317-002,305341,2x,PDF:1,C10248)
Counts
x10^7
SV15D (10 Jan 2023) – PID = 302 ppb
4.238 Freon 12
5.429 Ethanol
6.173 Isopropanol (IPA)
7.957 MTBE
8.861 Ethyl Acetate
10.533 Cyclohexane
12.053 4-Methyl-2-Pentanone
12.897 Toluene
13.994 Tetrachloroethene
15.225 m,p-Xylenes
16.213 p-Bromofluorobenzene
16.957 n-Propylbenzene
18.006 1,4-Dichlorobenzene
19.361 Hexachloroethane
21.126 Naphthalene
Acquisition Time (min)

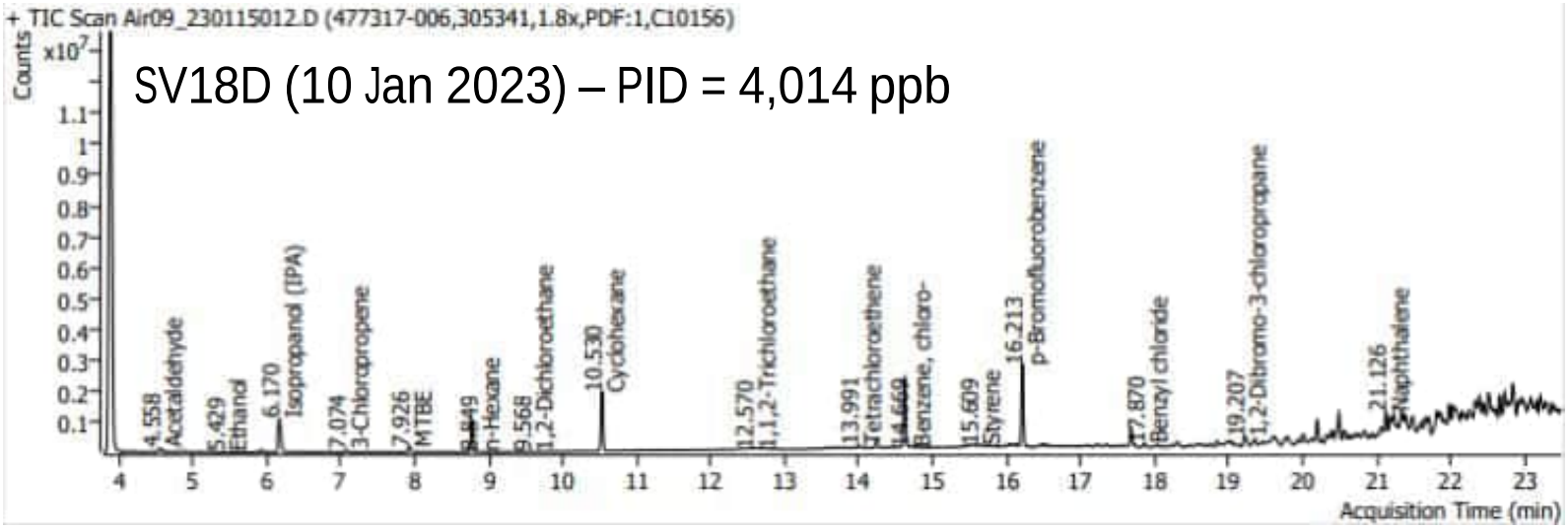

+ TIC Scan Air09_230115009.D (477317-003,305341,1.8x,PDF:1,C10327)
Counts
x10^7
SV17S (10 Jan 2023) – PID = 311 ppb
4.236 Freon 12
5.447 Ethanol
6.209 n-Pentane
7.951 MTBE
8.900 Chloroform
10.533 Cyclohexane
12.050 4-Methyl-2-Pentanone
12.903 Toluene
13.991 Tetrachloroethene
15.225 m,p-Xylenes
16.214 p-Bromofluorobenzene
16.954 n-Propylbenzene
18.003 1,4-Dichlorobenzene
19.358 Hexachloroethane
21.129 Naphthalene

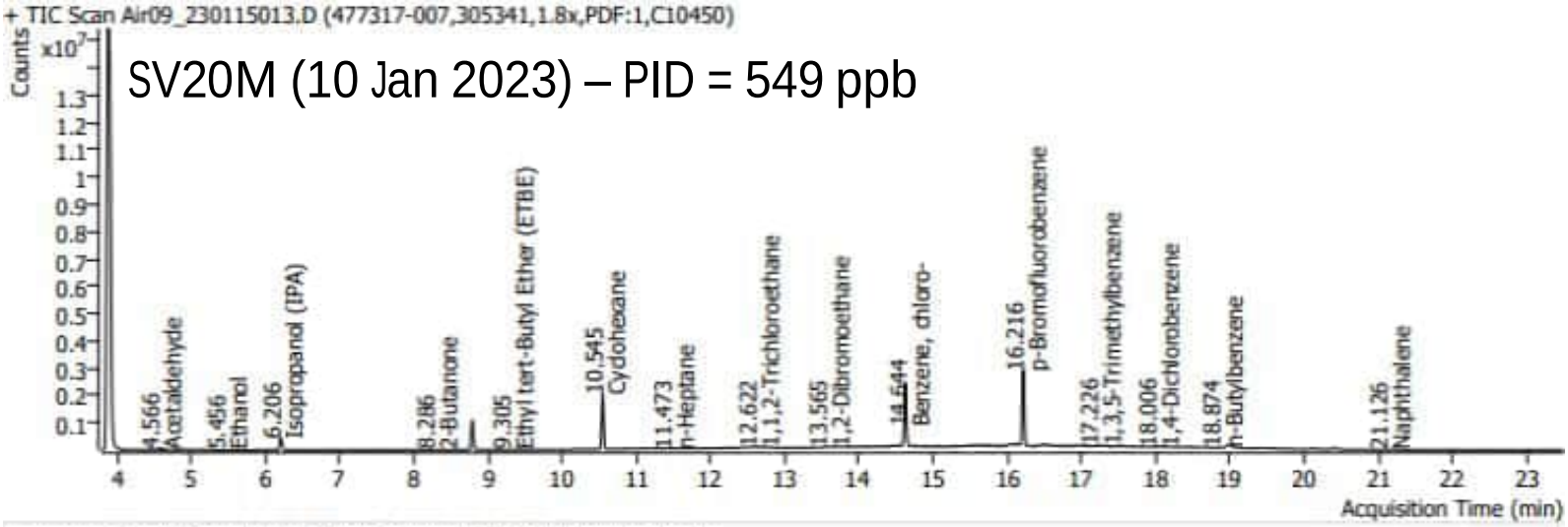

+ TIC Scan Air09_230115010.D (477317-004,305341,1.8x,PDF:1,C10303)
SV17D (10 Jan 2023) – PID = 229 ppb
Counts
Acquisition Time (min)

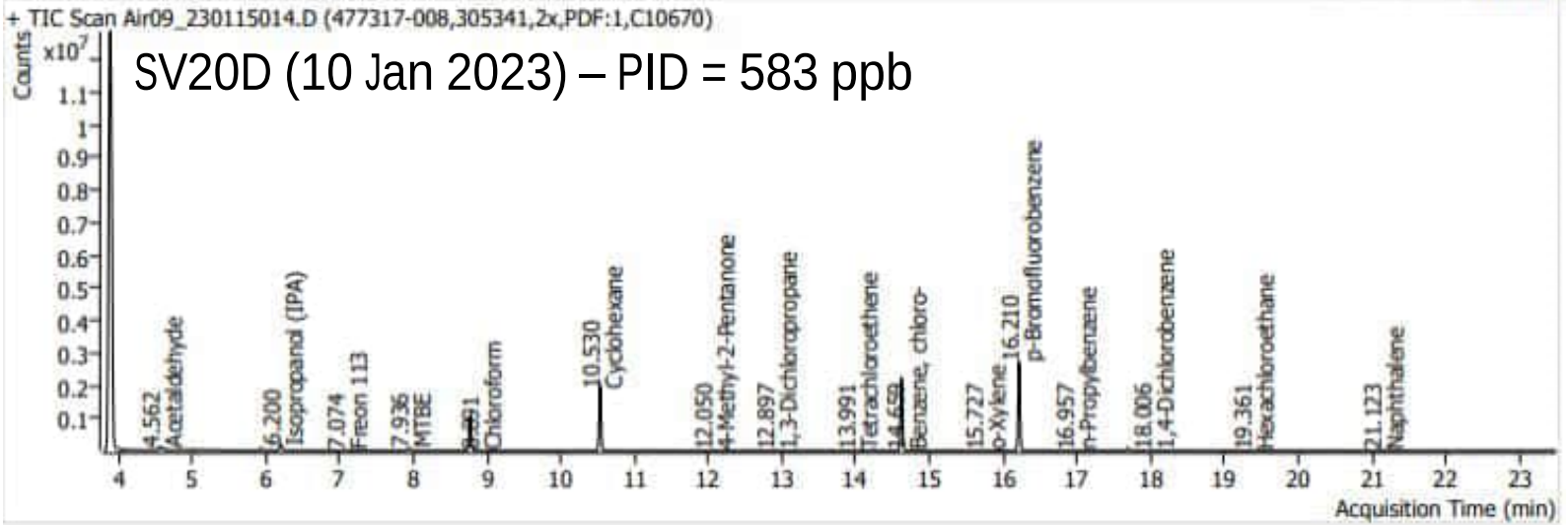

+ TIC Scan Air09_230115015.D (477317-004,305341,9x,PDF:1,C10303)
SV17D (10 Jan 2023) – PID = 229 ppb
Counts
Acquisition Time (min)


+ TIC Scan Air09_230115011.D (477317-005,305341,1.8x,PDF:1,C10392)
SV18S (10 Jan 2023) – PID = 3,582 ppb
Counts
Acquisition Time (min)


+ TIC Scan Air09_230115016.D (477317-005,305341,1.8x,PDF:1,C10392)
SV18S (10 Jan 2023) – PID = 3,582 ppb
Counts
Acquisition Time (min)

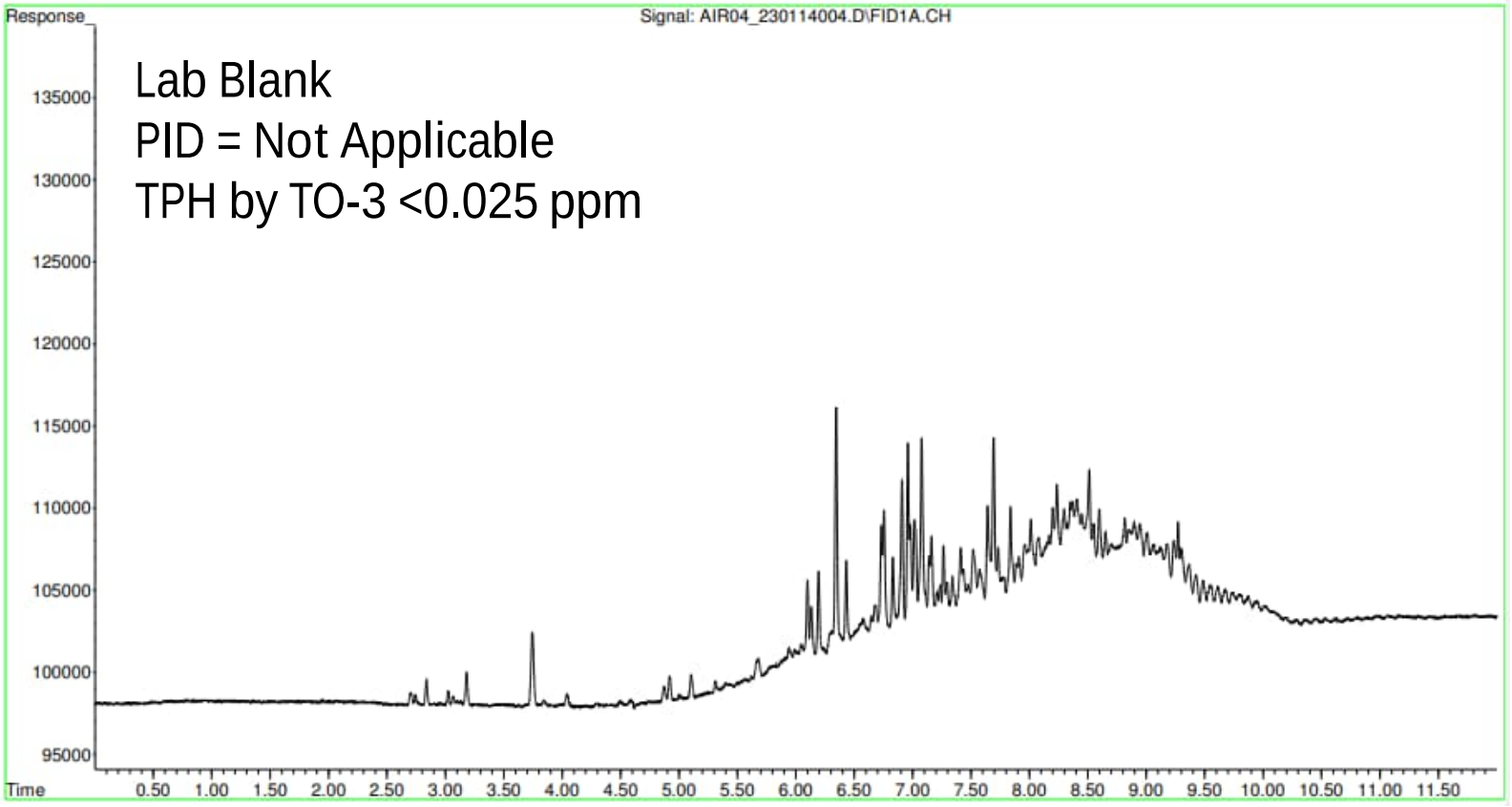

+ TIC Scan Air09_230115012.D (477317-006,305341,1.8x,PDF:1,C10156)
SV18D (10 Jan 2023) – PID = 4,014 ppb
Counts
x10^7
4.558 Acetaldehyde
5.429 Ethanol
6.170 Isopropanol (IPA)
7.074 3-Chloropropene
7.926 MTBE
8.949 n-Hexane
9.568 1,2-Dichloroethane
10.530 Cyclohexane
12.570 1,1,2-Trichloroethane
13.991 Tetrachloroethene
14.669 Benzene, chloro-
15.609 Styrene
16.213 p-Bromofluorobenzene
17.870 Benzyl chloride
19.207 1,2-Dibromo-3-chloropropane
21.126 Naphthalene
Acquisition Time (min)

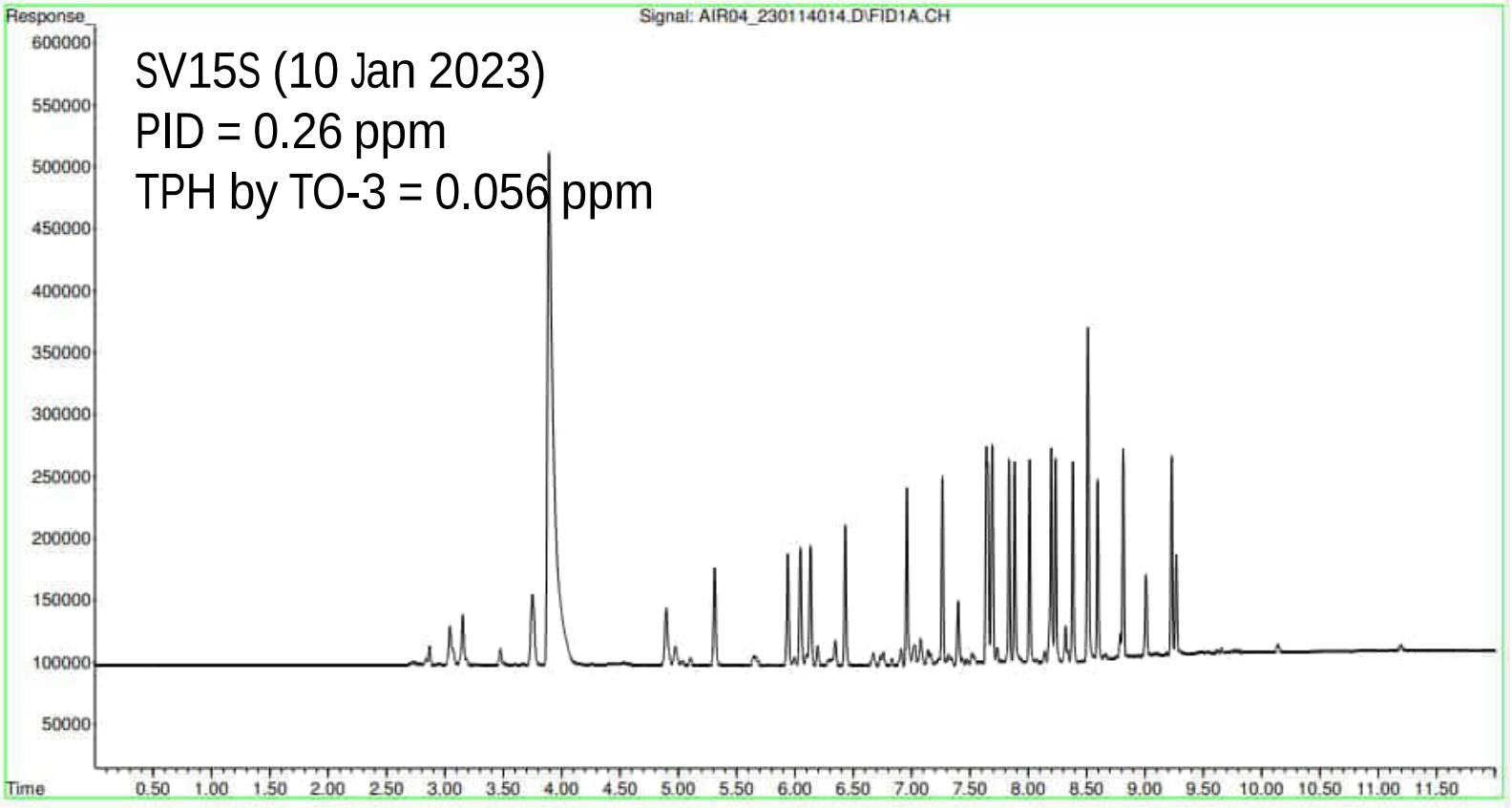

+ TIC Scan Air09_230115013.D (477317-007,305341,1.8x,PDF:1,C10450)
SV20M (10 Jan 2023) – PID = 549 ppb
Counts
x10^7
4.566 Acetaldehyde
5.456 Ethanol
6.206 Isopropanol (IPA)
8.286 2-Butanone
9.305 Ethyl tert-Butyl Ether (ETBE)
10.545 Cyclohexane
11.473 n-Heptane
12.622 1,1,2-Trichloroethane
13.565 1,2-Dibromoethane
14.644 Benzene, chloro-
16.216 p-Bromofluorobenzene
17.226 1,3,5-Trimethylbenzene
18.006 1,4-Dichlorobenzene
18.874 n-Butylbenzene
21.126 Naphthalene
Acquisition Time (min)

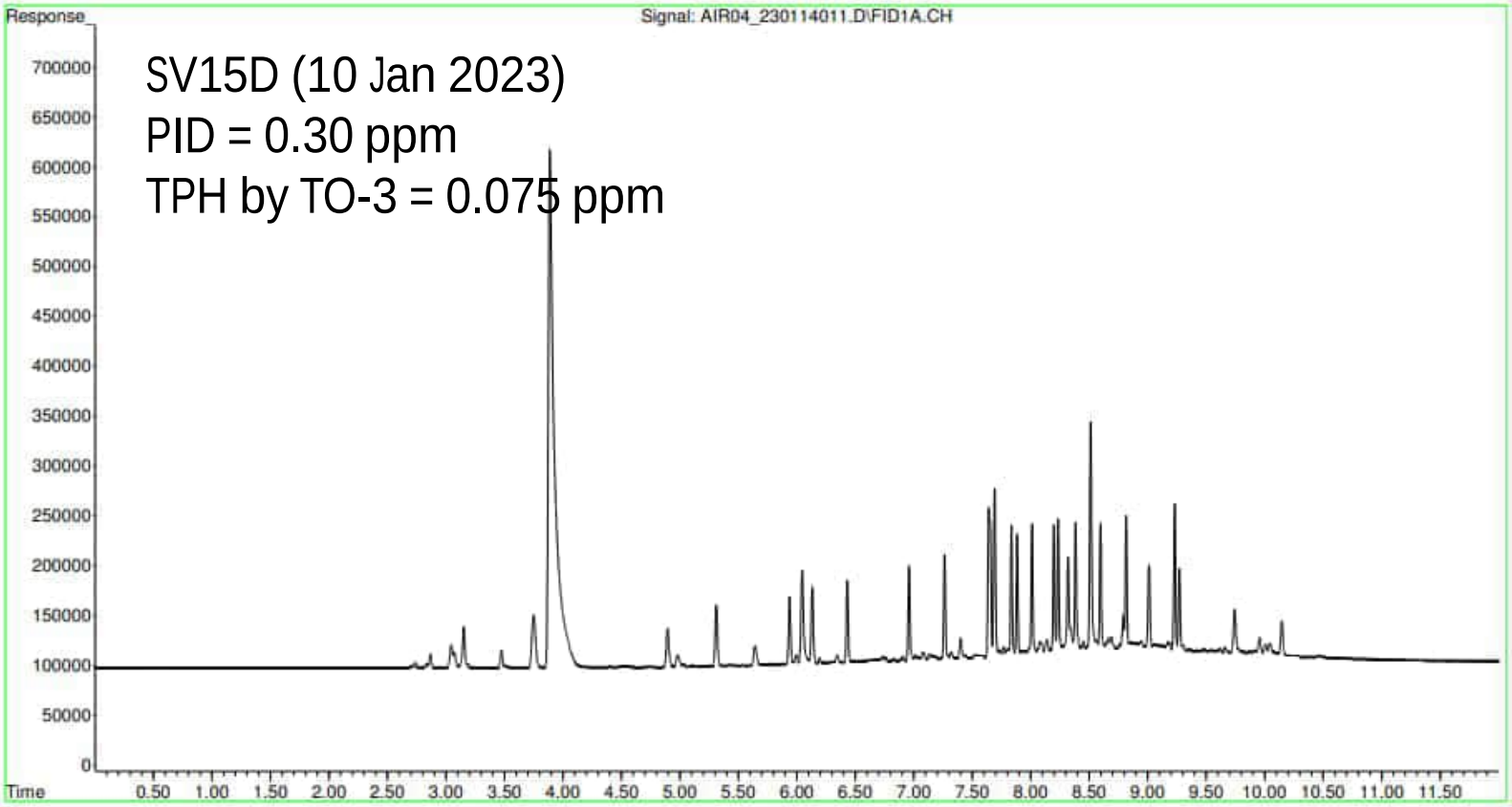

+ TIC Scan Air09_230115014.D (477317-008,305341,2x,PDF:1,C10670)
SV20D (10 Jan 2023) – PID = 583 ppb
Counts
x10^7
4.562 Acetaldehyde
6.200 Isopropanol (IPA)
7.074 Freon 113
7.936 MTBE
9.091 Chloroform
10.530 Cyclohexane
12.050 4-Methyl-2-Pentanone
12.897 1,3-Dichloropropane
13.991 Tetrachloroethene
Benzene, chloro-
15.727 o-Xylene
16.210 p-Bromofluorobenzene
16.957 n-Propylbenzene
18.006 1,4-Dichlorobenzene
19.361 Hexachloroethane
21.123 Naphthalene
Acquisition Time (min)

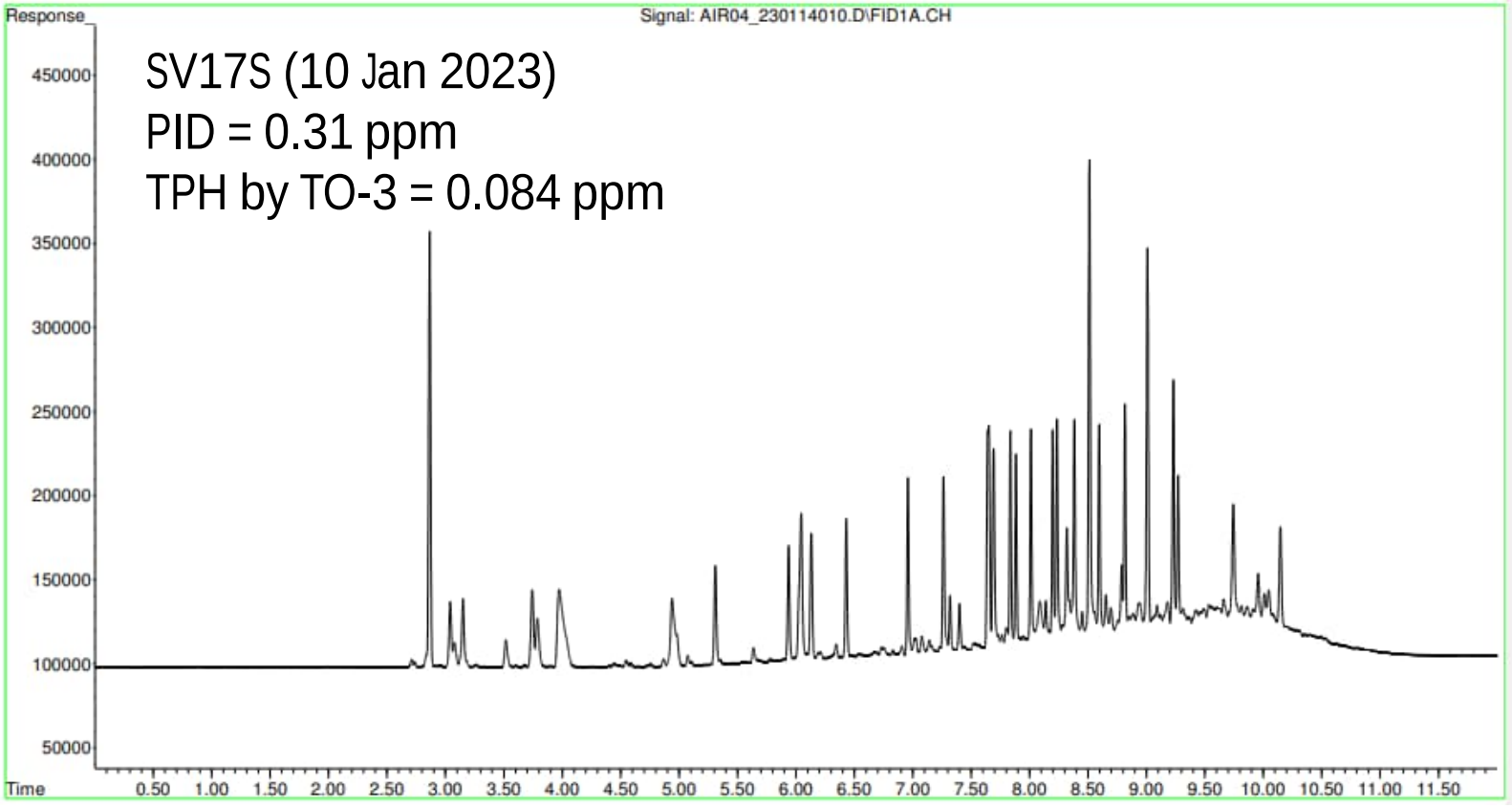
January 2023
Soil Vapor Samples

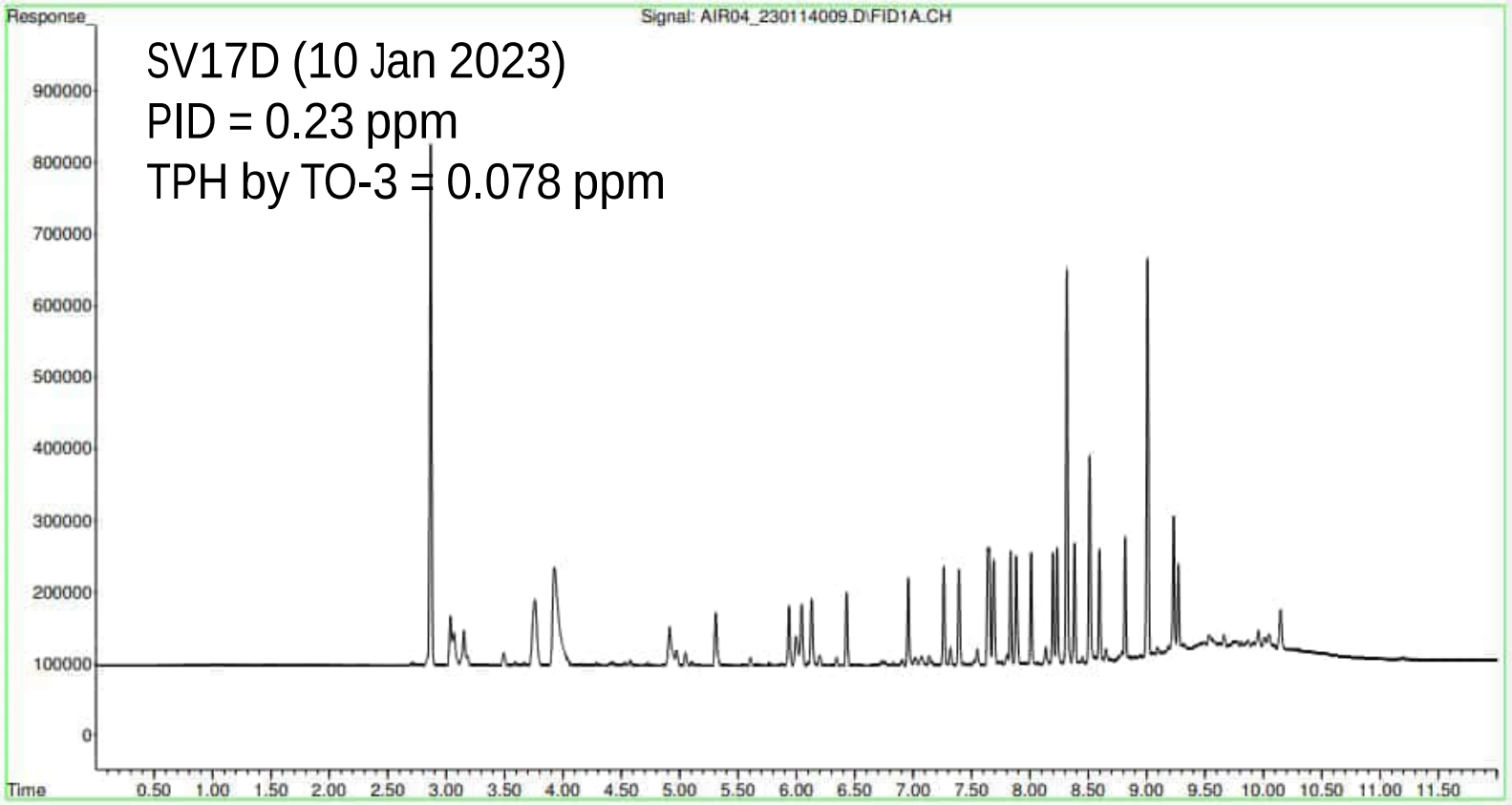
FID Chromatograms

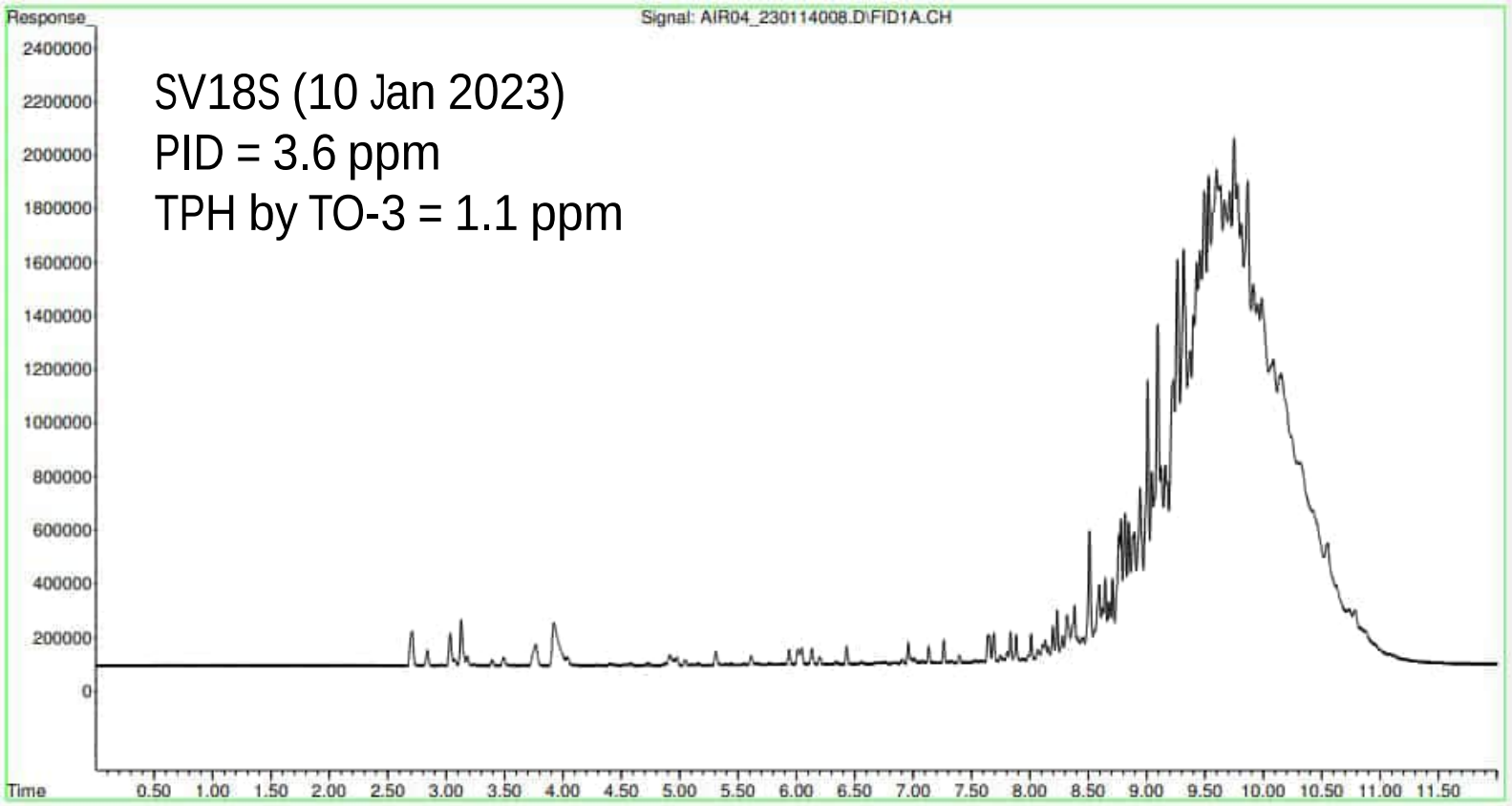

Response
Signal: AIR04_230114004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
135000
130000
125000
120000
115000
110000
105000
100000
95000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

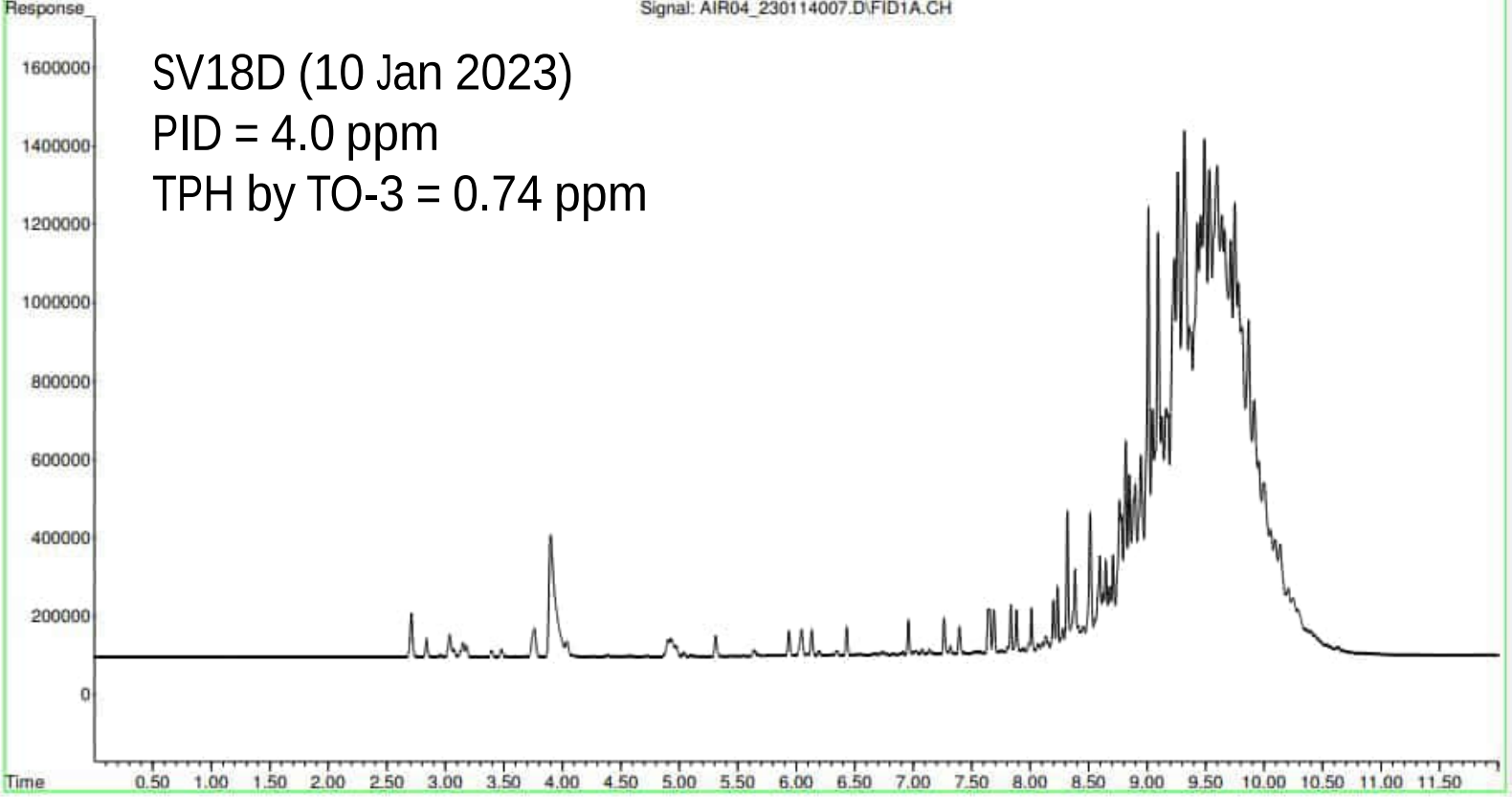

Response
Signal: AIR04_230114014.D\FID1A.CH
SV15S (10 Jan 2023)
PID = 0.26 ppm
TPH by TO-3 = 0.056 ppm
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

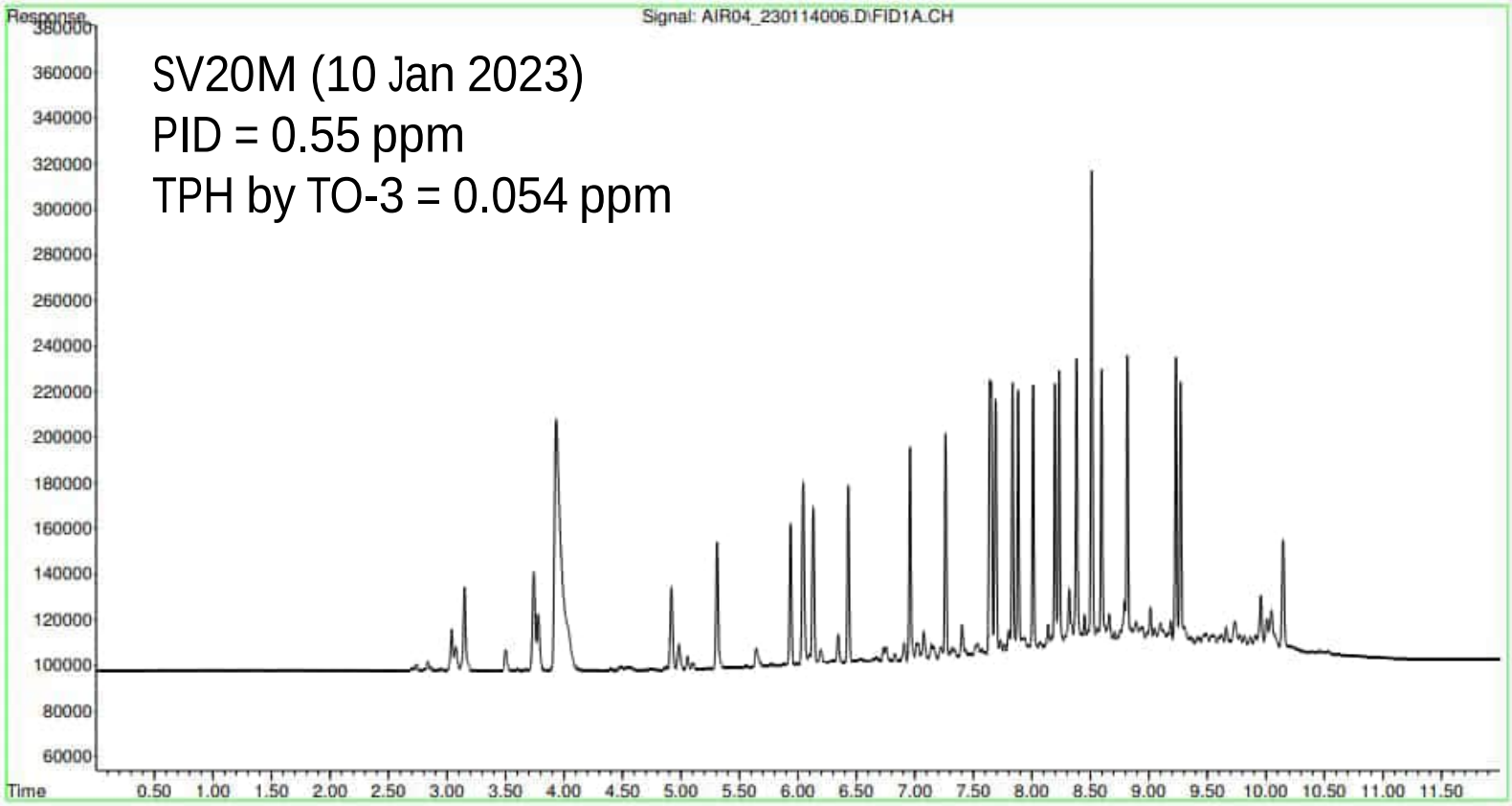

Response
Signal: AIR04_230114011.D\FID1A.CH
SV15D (10 Jan 2023)
PID = 0.30 ppm
TPH by TO-3 = 0.075 ppm
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

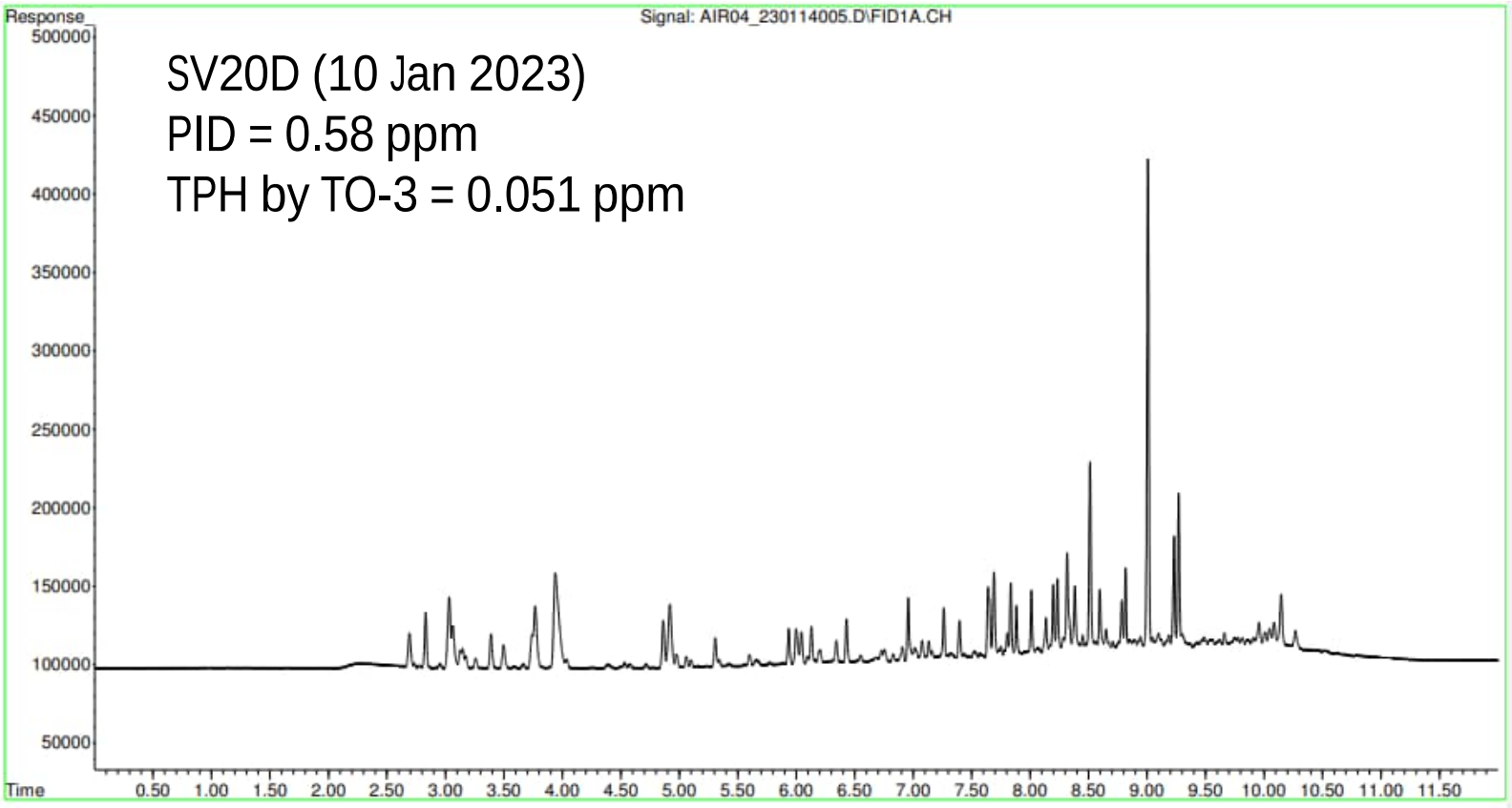

Response
Signal: AIR04_230114010.D\FID1A.CH
SV17S (10 Jan 2023)
PID = 0.31 ppm
TPH by TO-3 = 0.084 ppm
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_230114009.D\FID1A.CH
SV17D (10 Jan 2023)
PID = 0.23 ppm
TPH by TO-3 = 0.078 ppm
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_230114008.D\FID1A.CH
SV18S (10 Jan 2023)
PID = 3.6 ppm
TPH by TO-3 = 1.1 ppm
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_230114007.D\FID1A.CH
SV18D (10 Jan 2023)
PID = 4.0 ppm
TPH by TO-3 = 0.74 ppm
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_230114006.D\FID1A.CH
SV20M (10 Jan 2023)
PID = 0.55 ppm
TPH by TO-3 = 0.054 ppm
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_230114005.D\FID1A.CH
SV20D (10 Jan 2023)
PID = 0.58 ppm
TPH by TO-3 = 0.051 ppm
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

Appendix B – Groundwater Results

Appendix B.1 – Summary of Analytical Program for Groundwater Samples Collected Between May 12, 2021 and February 3, 2023

Appendix B.2 – Summary of Free Product Gauging and Monitoring Well Headspace Measurements

Appendix B.2.1 – AOC Oil/Water Interface Measurements, January 2014 through January 2023

Appendix B.2.2 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements for the May 2021 Release from May 12 through November 24, 2021

Appendix B.2.3 – Summary of NOI and Delineation Well Free Product Gauging and Monitoring Well Headspace Measurements from November 28, 2021 through February 3, 2023

Appendix B.3 – Groundwater Parameters from May 10, 2021 through February 3, 2023

Appendix B.4 – Summary of Groundwater Analytical Results through February 3, 2023

Data Legend for Appendix B.4.1–B.4.4

Appendix B.4.1 – GW Analytical Table_TPH and Fuel-Related Compounds

Appendix B.4.2 – GW Analytical Table_BTEX_VOCS

Appendix B.4.3 – GW Analytical Table_SVOCs

Appendix B.4.4 – GW Analytical Table_PAH_SIMs

Appendix B.4.5 – TPH Charts

Appendix B.4.6 – Delineation Well Analytical Results

Appendix B.4.7 – Sentinel Well Analytical Results

Appendix B.5 – Groundwater Monitoring Chromatograms through February 3, 2023

Appendix B.6 – NOI Groundwater Sampling Plan

Appendix B.1 – Summary of Analytical Program for Groundwater Samples Collected Between May 12, 2021 and February 3, 2023

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI November 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK1	N	2022-11-08 08:40 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK1	N	2022-11-08 08:40 AM	EUTQ	5801198651	Addl Val Data Request				•						
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK2	N	2022-11-15 09:40 AM	EUT2	5801200731	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK2	N	2022-11-15 09:40 AM	EUTQ	5801200731	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK3	N	2022-11-20 10:30 AM	EUT2	5801203111	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK3	N	2022-11-20 10:30 AM	EUTQ	5801203111	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK4	N	2022-12-01 02:05 PM	EUT2	5801207571	Sampled; No SGC	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2211WK4	N	2022-12-01 02:05 PM	EUTQ	5801207571	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK1	N	2022-11-10 10:00 AM	EUT2	5801199671	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK1	N	2022-11-10 10:00 AM	EUTQ	5801199671	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK2	N	2022-11-17 10:05 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK2	N	2022-11-17 10:05 AM	EUTQ	5801201991	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK3	N	2022-11-22 11:30 AM	EUT2	5801204101	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN02B-2211WK3	N	2022-11-22 11:30 AM	EUTQ	5801204101	Sampled				•						
OWDFMW01	OWDFMW01-WGN01LF-2211WK1	N	2022-11-09 11:30 AM	EUT2	5801199581	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2211WK1	N	2022-11-09 11:30 AM	EUTQ	5801199581	Addl Val Data Request				•						
OWDFMW01	OWDFMW01-WGN01LF-2211WK2	N	2022-11-16 11:15 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2211WK2	N	2022-11-16 11:15 AM	EUTQ	5801201401	Addl Val Data Request				•						
OWDFMW01	OWDFMW01-WGN01LF-2211WK3	N	2022-11-20 09:00 AM	EUT2	5801203111	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW01	OWDFMW01-WGN01LF-2211WK3	N	2022-11-20 09:00 AM	EUT2	5801203111	Sampled; No SGC								•		
OWDFMW01	OWDFMW01-WGN01LF-2211WK3	N	2022-11-20 09:00 AM	EUTQ	5801203111	Sampled				•						
OWDFMW01	OWDFMW01-WGN01LF-2211WK4	N	2022-11-30 09:10 AM	EUT2	5801205931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2211WK4	N	2022-11-30 09:10 AM	EUTQ	5801205931	Addl Val Data Request				•						
OWDFMW01	OWDFMW01-WGN02LF-2211WK1	N	2022-11-11 10:35 AM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW01	OWDFMW01-WGN02LF-2211WK1	N	2022-11-11 10:35 AM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW01	OWDFMW01-WGN02LF-2211WK1	N	2022-11-11 10:35 AM	EUTQ	5801200061	Sampled				•						
OWDFMW01	OWDFMW01-WGN02LF-2211WK2	N	2022-11-18 09:35 AM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW01	OWDFMW01-WGN02LF-2211WK2	N	2022-11-18 09:35 AM	EUT2	5801202431	Sampled; No SGC								•		

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI November 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW01	OWDFMW01-WGN02LF-2211WK2	N	2022-11-18 09:35 AM	EUTQ	5801202431	Sampled				•						
OWDFMW01	OWDFMW01-WGN02LF-2211WK3	N	2022-11-23 08:55 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW01	OWDFMW01-WGN02LF-2211WK3	N	2022-11-23 08:55 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW01	OWDFMW01-WGN02LF-2211WK3	N	2022-11-23 08:55 AM	EUTQ	5801204381	Sampled				•						
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK1	FD	2022-11-08 03:05 PM	EUT2	5801199191	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK1	FD	2022-11-08 03:05 PM	EUT2	5801199191	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK2	FD	2022-11-14 11:00 AM	EUT2	5801200221	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK2	FD	2022-11-14 11:00 AM	EUT2	5801200221	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK3	FD	2022-11-21 12:45 PM	EUT2	5801203891	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK3	FD	2022-11-21 12:45 PM	EUT2	5801203891	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK4	FD	2022-12-01 11:35 AM	EUT2	5801207031	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK4	FD	2022-12-01 11:35 AM	EUT2	5801207031	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK1	FD	2022-11-11 12:25 PM	EUT2	5801200061	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK1	FD	2022-11-11 12:25 PM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK2	FD	2022-11-18 11:55 AM	EUT2	5801202431	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK2	FD	2022-11-18 11:55 AM	EUT2	5801202431	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK3	FD	2022-11-23 11:15 AM	EUT2	5801204381	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK3	FD	2022-11-23 11:15 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK1	N	2022-11-08 03:05 PM	EUT2	5801199191	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK1	N	2022-11-08 03:05 PM	EUT2	5801199191	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK1	N	2022-11-08 03:05 PM	EUTQ	5801199191	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK2	N	2022-11-14 11:00 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK2	N	2022-11-14 11:00 AM	EUT2	5801200221	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK2	N	2022-11-14 11:00 AM	EUTQ	5801200221	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK3	N	2022-11-21 12:45 PM	EUT2	5801203891	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK3	N	2022-11-21 12:45 PM	EUT2	5801203891	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK3	N	2022-11-21 12:45 PM	EUTQ	5801203891	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK4	N	2022-12-01 11:35 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI November 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK4	N	2022-12-01 11:35 AM	EUT2	5801207031	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK4	N	2022-12-01 11:35 AM	EUTQ	5801207031	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK1	N	2022-11-11 12:25 PM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK1	N	2022-11-11 12:25 PM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK1	N	2022-11-11 12:25 PM	EUTQ	5801200061	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK2	N	2022-11-18 11:55 AM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK2	N	2022-11-18 11:55 AM	EUT2	5801202431	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK2	N	2022-11-18 11:55 AM	EUTQ	5801202431	Sampled				•						
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK3	N	2022-11-23 11:15 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK3	N	2022-11-23 11:15 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK3	N	2022-11-23 11:15 AM	EUTQ	5801204381	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK1	N	2022-11-08 12:30 PM	EUT2	5801199191	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK1	N	2022-11-08 12:30 PM	EUT2	5801199191	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK1	N	2022-11-08 12:30 PM	EUTQ	5801199191	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK2	N	2022-11-14 09:20 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK2	N	2022-11-14 09:20 AM	EUT2	5801200221	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK2	N	2022-11-14 09:20 AM	EUTQ	5801200221	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK3	N	2022-11-21 10:15 AM	EUT2	5801203891	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK3	N	2022-11-21 10:15 AM	EUT2	5801203891	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK3	N	2022-11-21 10:15 AM	EUTQ	5801203891	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK4	N	2022-12-01 09:05 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK4	N	2022-12-01 09:05 AM	EUT2	5801207031	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK4	N	2022-12-01 09:05 AM	EUTQ	5801207031	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK1	N	2022-11-11 10:00 AM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK1	N	2022-11-11 10:00 AM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK1	N	2022-11-11 10:00 AM	EUTQ	5801200061	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK2	N	2022-11-18 09:40 AM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK2	N	2022-11-18 09:40 AM	EUT2	5801202431	Sampled; No SGC								•		

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK2	N	2022-11-18 09:40 AM	EUTQ	5801202431	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK3	N	2022-11-23 09:15 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK3	N	2022-11-23 09:15 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK3	N	2022-11-23 09:15 AM	EUTQ	5801204381	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK1	N	2022-11-08 10:37 AM	EUT2	5801199081	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK1	N	2022-11-08 10:37 AM	EUTQ	5801199081	Addl Val Data Request				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK2	N	2022-11-14 09:50 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK2	N	2022-11-14 09:50 AM	EUT2	5801200221	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK2	N	2022-11-14 09:50 AM	EUTQ	5801200221	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK3	N	2022-11-20 10:55 AM	EUT2	5801203111	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK3	N	2022-11-20 10:55 AM	EUT2	5801203111	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK3	N	2022-11-20 10:55 AM	EUTQ	5801203111	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK4	N	2022-11-28 09:35 AM	EUT2	5801204901	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK4	N	2022-11-28 09:35 AM	EUT2	5801204901	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK4	N	2022-11-28 09:35 AM	EUTQ	5801204901	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK1	N	2022-11-11 09:40 AM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK1	N	2022-11-11 09:40 AM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK1	N	2022-11-11 09:40 AM	EUTQ	5801200061	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK2	N	2022-11-18 10:45 AM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK2	N	2022-11-18 10:45 AM	EUT2	5801202431	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK2	N	2022-11-18 10:45 AM	EUTQ	5801202431	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK3	N	2022-11-23 09:00 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK3	N	2022-11-23 09:00 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK3	N	2022-11-23 09:00 AM	EUTQ	5801204381	Sampled				•						
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK1	FD	2022-11-08 12:50 PM	EUT2	5801199191	Sampled; No SGC	•				•		•		•	•
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK1	FD	2022-11-08 12:50 PM	EUT2	5801199191	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK2	FD	2022-11-14 12:40 PM	EUT2	5801200901	Sampled; No SGC	•				•		•		•	•
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK2	FD	2022-11-14 12:40 PM	EUT2	5801200901	Sampled; No SGC								•		

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK3	FD	2022-11-20 04:30 PM	EUT2	5801203271	Sampled; No SGC	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK4	FD	2022-11-28 11:30 AM	EUT2	5801204901	Sampled; No SGC	•				•		•		•	•
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK4	FD	2022-11-28 11:30 AM	EUT2	5801204901	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK1	FD	2022-11-11 11:55 AM	EUT2	5801200061	Sampled; No SGC	•				•		•		•	•
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK1	FD	2022-11-11 11:55 AM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK2	FD	2022-11-18 01:30 PM	EUT2	5801203541	Addl Val Data Request	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK3	FD	2022-11-23 10:50 AM	EUT2	5801204381	Sampled; No SGC	•				•		•		•	•
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK3	FD	2022-11-23 10:50 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK1	N	2022-11-08 12:50 PM	EUT2	5801199191	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK1	N	2022-11-08 12:50 PM	EUT2	5801199191	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK1	N	2022-11-08 12:50 PM	EUTQ	5801199191	Sampled				•						
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK2	N	2022-11-14 12:40 PM	EUT2	5801200901	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK2	N	2022-11-14 12:40 PM	EUT2	5801200901	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK2	N	2022-11-14 12:40 PM	EUTQ	5801200901	Sampled				•						
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK3	N	2022-11-20 04:25 PM	EUT2	5801203271	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK3	N	2022-11-20 04:25 PM	EUTQ	5801203271	Sampled				•						
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK4	N	2022-11-28 11:30 AM	EUT2	5801204901	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK4	N	2022-11-28 11:30 AM	EUT2	5801204901	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK4	N	2022-11-28 11:30 AM	EUTQ	5801204901	Sampled				•						
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK1	N	2022-11-11 11:55 AM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK1	N	2022-11-11 11:55 AM	EUT2	5801200061	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK1	N	2022-11-11 11:55 AM	EUTQ	5801200061	Sampled				•						
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK2	N	2022-11-18 01:30 PM	EUT2	5801203541	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK2	N	2022-11-18 01:30 PM	EUTQ	5801203541	Addl Val Data Request				•						
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK3	N	2022-11-23 10:50 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK3	N	2022-11-23 10:50 AM	EUT2	5801204381	Sampled; No SGC								•		
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK3	N	2022-11-23 10:50 AM	EUTQ	5801204381	Sampled				•						
RHMW01R	RHMW01R-WGN01B-2211WK1	N	2022-11-08 10:25 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW01R	RHMW01R-WGN01B-2211WK1	N	2022-11-08 10:25 AM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW01R	RHMW01R-WGN01B-2211WK2	N	2022-11-15 10:25 AM	EUT2	5801201531	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2211WK2	N	2022-11-15 10:25 AM	EUTQ	5801201531	Sampled				•						
RHMW01R	RHMW01R-WGN01B-2211WK3	N	2022-11-20 10:10 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2211WK3	N	2022-11-20 10:10 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW01R	RHMW01R-WGN01B-2211WK4	N	2022-11-29 10:15 AM	EUT2	5801205401	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2211WK4	N	2022-11-29 10:15 AM	EUTQ	5801205401	Sampled				•						
RHMW01R	RHMW01R-WGN02B-2211WK1	N	2022-11-10 10:20 AM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN02B-2211WK1	N	2022-11-10 10:20 AM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW01R	RHMW01R-WGN02B-2211WK2	N	2022-11-17 09:25 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN02B-2211WK2	N	2022-11-17 09:25 AM	EUTQ	5801201991	Sampled				•						
RHMW01R	RHMW01R-WGN02B-2211WK3	N	2022-11-22 09:45 AM	EUT2	5801204101	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN02B-2211WK3	N	2022-11-22 09:45 AM	EUTQ	5801204101	Sampled				•						
RHMW02	RHMW02-WGN01B-2211WK1	N	2022-11-08 11:15 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2211WK1	N	2022-11-08 11:15 AM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW02	RHMW02-WGN01B-2211WK2	N	2022-11-15 11:40 AM	EUT2	5801201531	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2211WK2	N	2022-11-15 11:40 AM	EUTQ	5801201531	Sampled				•						
RHMW02	RHMW02-WGN01B-2211WK3	N	2022-11-20 11:05 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2211WK3	N	2022-11-20 11:05 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW02	RHMW02-WGN01B-2211WK4	N	2022-11-29 10:55 AM	EUT2	5801205401	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2211WK4	N	2022-11-29 10:55 AM	EUTQ	5801205401	Sampled				•						
RHMW02	RHMW02-WGN02B-2211WK1	N	2022-11-10 11:30 AM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN02B-2211WK1	N	2022-11-10 11:30 AM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW02	RHMW02-WGN02B-2211WK2	N	2022-11-17 10:15 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN02B-2211WK2	N	2022-11-17 10:15 AM	EUTQ	5801201991	Sampled				•						
RHMW02	RHMW02-WGN02B-2211WK3	N	2022-11-22 10:30 AM	EUT2	5801204101	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN02B-2211WK3	N	2022-11-22 10:30 AM	EUTQ	5801204101	Sampled				•						
RHMW02	RHMW02-WGN02B-2211WK4	N	2022-11-30 05:30 PM	EUT2	5801206781	Sampled	•	•	•		•	•	•	•	•	•

Event Status Report
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Event Name: RH NOI November 2022
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW02	RHMW02-WGN02B-2211WK4	N	2022-11-30 05:30 PM	EUTQ	5801206781	Sampled				•						
RHMW03	RHMW03-WGN01B-2211WK1	N	2022-11-08 12:25 PM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2211WK1	N	2022-11-08 12:25 PM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW03	RHMW03-WGN01B-2211WK2	N	2022-11-15 12:50 PM	EUT2	5801201531	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2211WK2	N	2022-11-15 12:50 PM	EUTQ	5801201531	Sampled				•						
RHMW03	RHMW03-WGN01B-2211WK3	N	2022-11-20 12:10 PM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2211WK3	N	2022-11-20 12:10 PM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW03	RHMW03-WGN01B-2211WK4	N	2022-11-29 11:50 AM	EUT2	5801205401	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2211WK4	N	2022-11-29 11:50 AM	EUTQ	5801205401	Sampled				•						
RHMW03	RHMW03-WGN02B-2211WK1	N	2022-11-10 12:40 PM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN02B-2211WK1	N	2022-11-10 12:40 PM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW03	RHMW03-WGN02B-2211WK2	N	2022-11-17 11:10 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN02B-2211WK2	N	2022-11-17 11:10 AM	EUTQ	5801201991	Sampled				•						
RHMW03	RHMW03-WGN02B-2211WK3	N	2022-11-22 11:20 AM	EUT2	5801204051	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN02B-2211WK3	N	2022-11-22 11:20 AM	EUTQ	5801204051	Sampled				•						
RHMW03	RHMW03-WGN02B-2211WK4	N	2022-11-30 07:05 PM	EUT2	5801206781	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN02B-2211WK4	N	2022-11-30 07:05 PM	EUTQ	5801206781	Sampled				•						
RHMW04	RHMW04-WGFD01B-2211WK1	FD	2022-11-07 01:45 PM	EUT2	5801198621	Addl Val Data Request	•				•		•	•	•	•
RHMW04	RHMW04-WGFD01B-2211WK2	FD	2022-11-14 08:00 AM	EUT2	5801200221	Sampled; No SGC	•				•		•		•	•
RHMW04	RHMW04-WGFD01B-2211WK2	FD	2022-11-14 08:00 AM	EUT2	5801200221	Sampled; No SGC								•		
RHMW04	RHMW04-WGFD01B-2211WK3	FD	2022-11-19 10:50 AM	EUT2	5801203441	Sampled; No SGC	•				•		•		•	•
RHMW04	RHMW04-WGFD01B-2211WK3	FD	2022-11-19 10:50 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW04	RHMW04-WGFD01B-2211WK4	FD	2022-11-30 10:50 AM	EUT2	5801207031	Sampled; No SGC	•				•		•		•	•
RHMW04	RHMW04-WGFD01B-2211WK4	FD	2022-11-30 10:50 AM	EUT2	5801207031	Sampled; No SGC								•		
RHMW04	RHMW04-WGFD02B-2211WK1	FD	2022-11-09 12:40 PM	EUT2	5801199581	Addl Val Data Request	•				•		•	•	•	•
RHMW04	RHMW04-WGFD02B-2211WK2	FD	2022-11-16 08:40 AM	EUT2	5801201531	Sampled; No SGC	•				•		•	•	•	•
RHMW04	RHMW04-WGFD02B-2211WK3	FD	2022-11-21 07:58 AM	EUT2	5801203891	Sampled; No SGC	•				•		•		•	•
RHMW04	RHMW04-WGFD02B-2211WK3	FD	2022-11-21 07:58 AM	EUT2	5801203891	Sampled; No SGC								•		

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Event Name: RH NOI November 2022
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW04	RHMW04-WGN01B-2211WK1	N	2022-11-07 01:45 PM	EUT2	5801198621	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN01B-2211WK1	N	2022-11-07 01:45 PM	EUTQ	5801198621	Addl Val Data Request				•						
RHMW04	RHMW04-WGN01B-2211WK2	N	2022-11-14 08:00 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW04	RHMW04-WGN01B-2211WK2	N	2022-11-14 08:00 AM	EUT2	5801200221	Sampled; No SGC								•		
RHMW04	RHMW04-WGN01B-2211WK2	N	2022-11-14 08:00 AM	EUTQ	5801200221	Sampled				•						
RHMW04	RHMW04-WGN01B-2211WK3	N	2022-11-19 10:50 AM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW04	RHMW04-WGN01B-2211WK3	N	2022-11-19 10:50 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW04	RHMW04-WGN01B-2211WK3	N	2022-11-19 10:50 AM	EUTQ	5801203441	Sampled				•						
RHMW04	RHMW04-WGN01B-2211WK4	N	2022-11-30 10:50 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW04	RHMW04-WGN01B-2211WK4	N	2022-11-30 10:50 AM	EUT2	5801207031	Sampled; No SGC								•		
RHMW04	RHMW04-WGN01B-2211WK4	N	2022-11-30 10:50 AM	EUTQ	5801207031	Sampled				•						
RHMW04	RHMW04-WGN02B-2211WK1	N	2022-11-09 12:40 PM	EUT2	5801199581	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN02B-2211WK1	N	2022-11-09 12:40 PM	EUTQ	5801199581	Addl Val Data Request				•						
RHMW04	RHMW04-WGN02B-2211WK2	N	2022-11-16 08:40 AM	EUT2	5801201531	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN02B-2211WK2	N	2022-11-16 08:40 AM	EUTQ	5801201531	Sampled				•						
RHMW04	RHMW04-WGN02B-2211WK3	N	2022-11-21 07:58 AM	EUT2	5801203891	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW04	RHMW04-WGN02B-2211WK3	N	2022-11-21 07:58 AM	EUT2	5801203891	Sampled; No SGC								•		
RHMW04	RHMW04-WGN02B-2211WK3	N	2022-11-21 07:58 AM	EUTQ	5801203891	Sampled				•						
RHMW05	RHMW05-WGN01B-2211WK1	N	2022-11-08 09:15 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2211WK1	N	2022-11-08 09:15 AM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW05	RHMW05-WGN01B-2211WK2	N	2022-11-15 09:10 AM	EUT2	5801201531	Sampled	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2211WK2	N	2022-11-15 09:10 AM	EUTQ	5801201531	Sampled				•						
RHMW05	RHMW05-WGN01B-2211WK3	N	2022-11-20 09:15 AM	EUT2	5801203271	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2211WK3	N	2022-11-20 09:15 AM	EUTQ	5801203271	Sampled				•						
RHMW05	RHMW05-WGN01B-2211WK4	N	2022-11-29 09:10 AM	EUT2	5801205401	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW05	RHMW05-WGN01B-2211WK4	N	2022-11-29 09:10 AM	EUT2	5801205401	Sampled; No SGC								•		
RHMW05	RHMW05-WGN01B-2211WK4	N	2022-11-29 09:10 AM	EUTQ	5801205401	Sampled				•						
RHMW05	RHMW05-WGN02B-2211WK1	N	2022-11-10 08:50 AM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW05	RHMW05-WGN02B-2211WK1	N	2022-11-10 08:50 AM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW05	RHMW05-WGN02B-2211WK2	N	2022-11-17 08:35 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN02B-2211WK2	N	2022-11-17 08:35 AM	EUTQ	5801201991	Sampled				•						
RHMW05	RHMW05-WGN02B-2211WK3	N	2022-11-22 08:50 AM	EUT2	5801204101	Sampled	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN02B-2211WK3	N	2022-11-22 08:50 AM	EUTQ	5801204101	Sampled				•						
RHMW06	RHMW06-WGN01B-2211WK1	N	2022-11-07 11:45 AM	EUT2	5801198621	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN01B-2211WK1	N	2022-11-07 11:45 AM	EUTQ	5801198621	Addl Val Data Request				•						
RHMW06	RHMW06-WGN01B-2211WK2	N	2022-11-14 12:37 PM	EUT2	5801200901	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW06	RHMW06-WGN01B-2211WK2	N	2022-11-14 12:37 PM	EUT2	5801200901	Sampled; No SGC								•		
RHMW06	RHMW06-WGN01B-2211WK2	N	2022-11-14 12:37 PM	EUTQ	5801200901	Sampled				•						
RHMW06	RHMW06-WGN01B-2211WK3	N	2022-11-19 01:10 PM	EUT2	5801203111	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW06	RHMW06-WGN01B-2211WK3	N	2022-11-19 01:10 PM	EUT2	5801203111	Sampled; No SGC								•		
RHMW06	RHMW06-WGN01B-2211WK3	N	2022-11-19 01:10 PM	EUTQ	5801203111	Sampled				•						
RHMW06	RHMW06-WGN01B-2211WK4	N	2022-11-30 01:00 PM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW06	RHMW06-WGN01B-2211WK4	N	2022-11-30 01:00 PM	EUT2	5801207031	Sampled; No SGC								•		
RHMW06	RHMW06-WGN01B-2211WK4	N	2022-11-30 01:00 PM	EUTQ	5801207031	Sampled				•						
RHMW06	RHMW06-WGN02B-2211WK1	N	2022-11-09 10:44 AM	EUT2	5801199081	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN02B-2211WK1	N	2022-11-09 10:44 AM	EUTQ	5801199081	Addl Val Data Request				•						
RHMW06	RHMW06-WGN02B-2211WK2	N	2022-11-16 11:55 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN02B-2211WK2	N	2022-11-16 11:55 AM	EUTQ	5801201401	Addl Val Data Request				•						
RHMW06	RHMW06-WGN02B-2211WK3	N	2022-11-21 12:25 PM	EUT2	5801203891	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW06	RHMW06-WGN02B-2211WK3	N	2022-11-21 12:25 PM	EUT2	5801203891	Sampled; No SGC								•		
RHMW06	RHMW06-WGN02B-2211WK3	N	2022-11-21 12:25 PM	EUTQ	5801203891	Sampled				•						
RHMW08	RHMW08-WGN01B-2211WK1	N	2022-11-07 08:55 AM	EUT2	5801198621	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN01B-2211WK1	N	2022-11-07 08:55 AM	EUTQ	5801198621	Addl Val Data Request				•						
RHMW08	RHMW08-WGN01B-2211WK2	N	2022-11-14 10:50 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW08	RHMW08-WGN01B-2211WK2	N	2022-11-14 10:50 AM	EUT2	5801200221	Sampled; No SGC								•		
RHMW08	RHMW08-WGN01B-2211WK2	N	2022-11-14 10:50 AM	EUTQ	5801200221	Sampled				•						

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW08	RHMW08-WGN01B-2211WK3	N	2022-11-19 03:30 PM	EUT2	5801203111	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW08	RHMW08-WGN01B-2211WK3	N	2022-11-19 03:30 PM	EUT2	5801203111	Sampled; No SGC								•		
RHMW08	RHMW08-WGN01B-2211WK3	N	2022-11-19 03:30 PM	EUTQ	5801203111	Sampled				•						
RHMW08	RHMW08-WGN01B-2211WK4	N	2022-11-30 08:15 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW08	RHMW08-WGN01B-2211WK4	N	2022-11-30 08:15 AM	EUT2	5801207031	Sampled; No SGC								•		
RHMW08	RHMW08-WGN01B-2211WK4	N	2022-11-30 08:15 AM	EUTQ	5801207031	Sampled				•						
RHMW08	RHMW08-WGN02B-2211WK1	N	2022-11-09 09:00 AM	EUT2	5801199081	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN02B-2211WK1	N	2022-11-09 09:00 AM	EUTQ	5801199081	Addl Val Data Request				•						
RHMW08	RHMW08-WGN02B-2211WK2	N	2022-11-16 10:30 AM	EUT2	5801201531	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN02B-2211WK2	N	2022-11-16 10:30 AM	EUTQ	5801201531	Sampled				•						
RHMW08	RHMW08-WGN02B-2211WK3	N	2022-11-21 11:00 AM	EUT2	5801203891	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW08	RHMW08-WGN02B-2211WK3	N	2022-11-21 11:00 AM	EUT2	5801203891	Sampled; No SGC								•		
RHMW08	RHMW08-WGN02B-2211WK3	N	2022-11-21 11:00 AM	EUTQ	5801203891	Sampled				•						
RHMW09	RHMW09-WGN01B-2211WK1	N	2022-11-07 09:20 AM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW09	RHMW09-WGN01B-2211WK1	N	2022-11-07 09:20 AM	EUT2	5801198041	Sampled; No SGC								•		
RHMW09	RHMW09-WGN01B-2211WK1	N	2022-11-07 09:20 AM	EUTQ	5801198041	Sampled				•						
RHMW09	RHMW09-WGN01B-2211WK2	N	2022-11-14 09:05 AM	EUT2	5801200901	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW09	RHMW09-WGN01B-2211WK2	N	2022-11-14 09:05 AM	EUT2	5801200901	Sampled; No SGC								•		
RHMW09	RHMW09-WGN01B-2211WK2	N	2022-11-14 09:05 AM	EUTQ	5801200901	Sampled				•						
RHMW09	RHMW09-WGN01B-2211WK3	N	2022-11-19 08:55 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN01B-2211WK3	N	2022-11-19 08:55 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW09	RHMW09-WGN01B-2211WK4	N	2022-11-28 08:50 AM	EUT2	5801205401	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW09	RHMW09-WGN01B-2211WK4	N	2022-11-28 08:50 AM	EUT2	5801205401	Sampled; No SGC								•		
RHMW09	RHMW09-WGN01B-2211WK4	N	2022-11-28 08:50 AM	EUTQ	5801205401	Sampled				•						
RHMW09	RHMW09-WGN02B-2211WK1	N	2022-11-09 10:35 AM	EUT2	5801199581	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN02B-2211WK1	N	2022-11-09 10:35 AM	EUTQ	5801199581	Addl Val Data Request				•						
RHMW09	RHMW09-WGN02B-2211WK2	N	2022-11-16 09:00 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN02B-2211WK2	N	2022-11-16 09:00 AM	EUTQ	5801201401	Addl Val Data Request				•						

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW09	RHMW09-WGN02B-2211WK3	N	2022-11-21 10:20 AM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW09	RHMW09-WGN02B-2211WK3	N	2022-11-21 10:20 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW09	RHMW09-WGN02B-2211WK3	N	2022-11-21 10:20 AM	EUTQ	5801203441	Sampled				•						
RHMW11-05	RHMW11-05-WGN01G-2211WK1	N	2022-11-09 10:15 AM	EUT2	5801199081	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2211WK1	N	2022-11-09 10:15 AM	EUTQ	5801199081	Addl Val Data Request				•						
RHMW11-05	RHMW11-05-WGN01G-2211WK2	N	2022-11-16 09:15 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2211WK2	N	2022-11-16 09:15 AM	EUTQ	5801201401	Addl Val Data Request				•						
RHMW11-05	RHMW11-05-WGN01G-2211WK3	N	2022-11-21 09:25 AM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW11-05	RHMW11-05-WGN01G-2211WK3	N	2022-11-21 09:25 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW11-05	RHMW11-05-WGN01G-2211WK3	N	2022-11-21 09:25 AM	EUTQ	5801203441	Sampled				•						
RHMW11-05	RHMW11-05-WGN01G-2211WK4	N	2022-11-29 09:10 AM	EUT2	5801205401	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW11-05	RHMW11-05-WGN01G-2211WK4	N	2022-11-29 09:10 AM	EUT2	5801205401	Sampled; No SGC								•		
RHMW11-05	RHMW11-05-WGN01G-2211WK4	N	2022-11-29 09:10 AM	EUTQ	5801205401	Sampled				•						
RHMW11-05	RHMW11-05-WGN02G-2211WK1	N	2022-11-11 09:20 AM	EUT2	5801200061	Sampled	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN02G-2211WK1	N	2022-11-11 09:20 AM	EUTQ	5801200061	Sampled				•						
RHMW11-05	RHMW11-05-WGN02G-2211WK2	N	2022-11-18 09:00 AM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW11-05	RHMW11-05-WGN02G-2211WK2	N	2022-11-18 09:00 AM	EUT2	5801202431	Sampled; No SGC								•		
RHMW11-05	RHMW11-05-WGN02G-2211WK2	N	2022-11-18 09:00 AM	EUTQ	5801202431	Sampled				•						
RHMW11-05	RHMW11-05-WGN02G-2211WK3	N	2022-11-23 09:00 AM	EUT2	5801204381	Sampled	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN02G-2211WK3	N	2022-11-23 09:00 AM	EUTQ	5801204381	Sampled				•						
RHMW11-05	RHMW11-05-WGN02G-2211WK4	N	2022-11-30 03:30 PM	EUT2	5801206781	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW11-05	RHMW11-05-WGN02G-2211WK4	N	2022-11-30 03:30 PM	EUT2	5801206781	Sampled; No SGC								•		
RHMW11-05	RHMW11-05-WGN02G-2211WK4	N	2022-11-30 03:30 PM	EUTQ	5801206781	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2211WK1	N	2022-11-07 10:00 AM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW12A	RHMW12A-WGN01LF-2211WK1	N	2022-11-07 10:00 AM	EUT2	5801198041	Sampled; No SGC								•		
RHMW12A	RHMW12A-WGN01LF-2211WK1	N	2022-11-07 10:00 AM	EUTQ	5801198041	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW12A	RHMW12A-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUT2	5801200731	Sampled; No SGC								•		

Event Status Report
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW12A	RHMW12A-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUTQ	5801200731	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2211WK3	N	2022-11-19 11:20 AM	EUT2	5801203271	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2211WK3	N	2022-11-19 11:20 AM	EUTQ	5801203271	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2211WK4	N	2022-11-29 09:00 AM	EUT2	5801205401	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW12A	RHMW12A-WGN01LF-2211WK4	N	2022-11-29 09:00 AM	EUT2	5801205401	Sampled; No SGC								•		
RHMW12A	RHMW12A-WGN01LF-2211WK4	N	2022-11-29 09:00 AM	EUTQ	5801205401	Sampled				•						
RHMW12A	RHMW12A-WGN02LF-2211WK1	N	2022-11-10 12:35 PM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN02LF-2211WK1	N	2022-11-10 12:35 PM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW12A	RHMW12A-WGN02LF-2211WK2	N	2022-11-17 09:32 AM	EUT2	5801201991	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN02LF-2211WK2	N	2022-11-17 09:32 AM	EUTQ	5801201991	Sampled				•						
RHMW12A	RHMW12A-WGN02LF-2211WK3	N	2022-11-22 09:25 AM	EUT2	5801204101	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW12A	RHMW12A-WGN02LF-2211WK3	N	2022-11-22 09:25 AM	EUT2	5801204101	Sampled; No SGC								•		
RHMW12A	RHMW12A-WGN02LF-2211WK3	N	2022-11-22 09:25 AM	EUTQ	5801204101	Sampled				•						
RHMW12A	RHMW12A-WGN02LF-2211WK4	N	2022-12-01 09:50 AM	EUT2	5801206781	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW12A	RHMW12A-WGN02LF-2211WK4	N	2022-12-01 09:50 AM	EUT2	5801206781	Sampled; No SGC								•		
RHMW12A	RHMW12A-WGN02LF-2211WK4	N	2022-12-01 09:50 AM	EUTQ	5801206781	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2211WK1	N	2022-11-07 09:24 AM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW13-05	RHMW13-05-WGN01G-2211WK1	N	2022-11-07 09:24 AM	EUT2	5801198041	Sampled; No SGC								•		
RHMW13-05	RHMW13-05-WGN01G-2211WK1	N	2022-11-07 09:24 AM	EUTQ	5801198041	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2211WK2	N	2022-11-14 09:50 AM	EUT2	5801200221	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW13-05	RHMW13-05-WGN01G-2211WK2	N	2022-11-14 09:50 AM	EUT2	5801200221	Sampled; No SGC								•		
RHMW13-05	RHMW13-05-WGN01G-2211WK2	N	2022-11-14 09:50 AM	EUTQ	5801200221	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2211WK3	N	2022-11-19 08:45 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2211WK3	N	2022-11-19 08:45 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW13-05	RHMW13-05-WGN01G-2211WK4	N	2022-11-30 09:45 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW13-05	RHMW13-05-WGN01G-2211WK4	N	2022-11-30 09:45 AM	EUT2	5801207031	Sampled; No SGC								•		
RHMW13-05	RHMW13-05-WGN01G-2211WK4	N	2022-11-30 09:45 AM	EUTQ	5801207031	Sampled				•						
RHMW13-05	RHMW13-05-WGN02G-2211WK1	N	2022-11-11 09:00 AM	EUT2	5801200061	Sampled; No SGC	•	•	•		•	•	•		•	•

Event Status Report
RHS Recovery and Monitoring
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Event Name: RH NOI November 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW13-05	RHMW13-05-WGN02G-2211WK1	N	2022-11-11 09:00 AM	EUT2	5801200061	Sampled; No SGC								•		
RHMW13-05	RHMW13-05-WGN02G-2211WK1	N	2022-11-11 09:00 AM	EUTQ	5801200061	Sampled				•						
RHMW13-05	RHMW13-05-WGN02G-2211WK2	N	2022-11-16 09:45 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW13-05	RHMW13-05-WGN02G-2211WK2	N	2022-11-16 09:45 AM	EUTQ	5801201401	Addl Val Data Request				•						
RHMW13-05	RHMW13-05-WGN02G-2211WK3	N	2022-11-22 09:30 AM	EUT2	5801204101	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW13-05	RHMW13-05-WGN02G-2211WK3	N	2022-11-22 09:30 AM	EUT2	5801204101	Sampled; No SGC								•		
RHMW13-05	RHMW13-05-WGN02G-2211WK3	N	2022-11-22 09:30 AM	EUTQ	5801204101	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2211WK1	N	2022-11-07 09:30 AM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW14-03	RHMW14-03-WGN01G-2211WK1	N	2022-11-07 09:30 AM	EUT2	5801198041	Sampled; No SGC								•		
RHMW14-03	RHMW14-03-WGN01G-2211WK1	N	2022-11-07 09:30 AM	EUTQ	5801198041	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2211WK2	N	2022-11-15 09:00 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW14-03	RHMW14-03-WGN01G-2211WK2	N	2022-11-15 09:00 AM	EUT2	5801200731	Sampled; No SGC								•		
RHMW14-03	RHMW14-03-WGN01G-2211WK2	N	2022-11-15 09:00 AM	EUTQ	5801200731	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2211WK3	N	2022-11-21 08:40 AM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW14-03	RHMW14-03-WGN01G-2211WK3	N	2022-11-21 08:40 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW14-03	RHMW14-03-WGN01G-2211WK3	N	2022-11-21 08:40 AM	EUTQ	5801203441	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2211WK4	N	2022-12-01 09:05 AM	EUT2	5801207031	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW14-03	RHMW14-03-WGN01G-2211WK4	N	2022-12-01 09:05 AM	EUT2	5801207031	Sampled; No SGC								•		
RHMW14-03	RHMW14-03-WGN01G-2211WK4	N	2022-12-01 09:05 AM	EUTQ	5801207031	Sampled				•						
RHMW14-03	RHMW14-03-WGN02G-2211WK1	N	2022-11-09 09:40 AM	EUT2	5801199081	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW14-03	RHMW14-03-WGN02G-2211WK1	N	2022-11-09 09:40 AM	EUTQ	5801199081	Addl Val Data Request				•						
RHMW14-03	RHMW14-03-WGN02G-2211WK2	N	2022-11-17 09:15 AM	EUT2	5801201991	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW14-03	RHMW14-03-WGN02G-2211WK2	N	2022-11-17 09:15 AM	EUTQ	5801201991	Sampled				•						
RHMW14-03	RHMW14-03-WGN02G-2211WK3	N	2022-11-23 09:00 AM	EUT2	5801204381	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW14-03	RHMW14-03-WGN02G-2211WK3	N	2022-11-23 09:00 AM	EUT2	5801204381	Sampled; No SGC								•		
RHMW14-03	RHMW14-03-WGN02G-2211WK3	N	2022-11-23 09:00 AM	EUTQ	5801204381	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2211WK1	N	2022-11-08 11:15 AM	EUT2	5801199191	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW15-05	RHMW15-05-WGN01G-2211WK1	N	2022-11-08 11:15 AM	EUT2	5801199191	Sampled; No SGC								•		

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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW15-05	RHMW15-05-WGN01G-2211WK1	N	2022-11-08 11:15 AM	EUTQ	5801199191	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2211WK2	N	2022-11-15 09:30 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW15-05	RHMW15-05-WGN01G-2211WK2	N	2022-11-15 09:30 AM	EUT2	5801200731	Sampled; No SGC								•		
RHMW15-05	RHMW15-05-WGN01G-2211WK2	N	2022-11-15 09:30 AM	EUTQ	5801200731	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2211WK3	N	2022-11-20 10:20 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2211WK3	N	2022-11-20 10:20 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW15-05	RHMW15-05-WGN01G-2211WK4	N	2022-11-28 09:10 AM	EUT2	5801204901	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW15-05	RHMW15-05-WGN01G-2211WK4	N	2022-11-28 09:10 AM	EUT2	5801204901	Sampled; No SGC								•		
RHMW15-05	RHMW15-05-WGN01G-2211WK4	N	2022-11-28 09:10 AM	EUTQ	5801204901	Sampled				•						
RHMW15-05	RHMW15-05-WGN02G-2211WK1	N	2022-11-10 09:45 AM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN02G-2211WK1	N	2022-11-10 09:45 AM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW15-05	RHMW15-05-WGN02G-2211WK2	N	2022-11-17 09:30 AM	EUT2	5801202431	Sampled	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN02G-2211WK2	N	2022-11-17 09:30 AM	EUTQ	5801202431	Sampled				•						
RHMW15-05	RHMW15-05-WGN02G-2211WK3	N	2022-11-22 09:00 AM	EUT2	5801204051	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW15-05	RHMW15-05-WGN02G-2211WK3	N	2022-11-22 09:00 AM	EUT2	5801204051	Sampled; No SGC								•		
RHMW15-05	RHMW15-05-WGN02G-2211WK3	N	2022-11-22 09:00 AM	EUTQ	5801204051	Sampled				•						
RHMW16	RHMW16-WGN01LF-2211WK1	N	2022-11-07 12:15 PM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW16	RHMW16-WGN01LF-2211WK1	N	2022-11-07 12:15 PM	EUT2	5801198041	Sampled; No SGC								•		
RHMW16	RHMW16-WGN01LF-2211WK1	N	2022-11-07 12:15 PM	EUTQ	5801198041	Sampled				•						
RHMW16	RHMW16-WGN01LF-2211WK2	N	2022-11-15 10:30 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW16	RHMW16-WGN01LF-2211WK2	N	2022-11-15 10:30 AM	EUT2	5801200731	Sampled; No SGC								•		
RHMW16	RHMW16-WGN01LF-2211WK2	N	2022-11-15 10:30 AM	EUTQ	5801200731	Sampled				•						
RHMW16	RHMW16-WGN01LF-2211WK3	N	2022-11-19 01:40 PM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW16	RHMW16-WGN01LF-2211WK3	N	2022-11-19 01:40 PM	EUT2	5801203441	Sampled; No SGC								•		
RHMW16	RHMW16-WGN01LF-2211WK3	N	2022-11-19 01:40 PM	EUTQ	5801203441	Sampled				•						
RHMW16	RHMW16-WGN01LF-2211WK4	N	2022-11-29 10:40 AM	EUT2	5801205401	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW16	RHMW16-WGN01LF-2211WK4	N	2022-11-29 10:40 AM	EUT2	5801205401	Sampled; No SGC								•		
RHMW16	RHMW16-WGN01LF-2211WK4	N	2022-11-29 10:40 AM	EUTQ	5801205401	Sampled				•						

Event Status Report
RHS Recovery and Monitoring
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW16	RHMW16-WGN02LF-2211WK1	N	2022-11-10 10:00 AM	EUT2	5801199671	Sampled	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN02LF-2211WK1	N	2022-11-10 10:00 AM	EUTQ	5801199671	Sampled				•						
RHMW16	RHMW16-WGN02LF-2211WK2	N	2022-11-17 11:25 AM	EUT2	5801201991	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN02LF-2211WK2	N	2022-11-17 11:25 AM	EUTQ	5801201991	Sampled				•						
RHMW16	RHMW16-WGN02LF-2211WK3	N	2022-11-22 11:20 AM	EUT2	5801204051	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW16	RHMW16-WGN02LF-2211WK3	N	2022-11-22 11:20 AM	EUT2	5801204051	Sampled; No SGC								•		
RHMW16	RHMW16-WGN02LF-2211WK3	N	2022-11-22 11:20 AM	EUTQ	5801204051	Sampled				•						
RHMW17	RHMW17-WGN01B-2211WK1	N	2022-11-08 12:05 PM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2211WK1	N	2022-11-08 12:05 PM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW17	RHMW17-WGN01B-2211WK2	N	2022-11-15 11:55 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW17	RHMW17-WGN01B-2211WK2	N	2022-11-15 11:55 AM	EUT2	5801200731	Sampled; No SGC								•		
RHMW17	RHMW17-WGN01B-2211WK2	N	2022-11-15 11:55 AM	EUTQ	5801200731	Sampled				•						
RHMW17	RHMW17-WGN01B-2211WK3	N	2022-11-20 12:05 PM	EUT2	5801203271	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2211WK3	N	2022-11-20 12:05 PM	EUTQ	5801203271	Sampled				•						
RHMW17	RHMW17-WGN01B-2211WK4	N	2022-11-30 11:00 AM	EUT2	5801205931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2211WK4	N	2022-11-30 11:00 AM	EUTQ	5801205931	Addl Val Data Request				•						
RHMW17	RHMW17-WGN02B-2211WK1	N	2022-11-10 11:35 AM	EUT2	5801199671	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN02B-2211WK1	N	2022-11-10 11:35 AM	EUTQ	5801199671	Sampled				•						
RHMW17	RHMW17-WGN02B-2211WK2	N	2022-11-17 01:00 PM	EUT2	5801202431	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW17	RHMW17-WGN02B-2211WK2	N	2022-11-17 01:00 PM	EUT2	5801202431	Sampled; No SGC								•		
RHMW17	RHMW17-WGN02B-2211WK2	N	2022-11-17 01:00 PM	EUTQ	5801202431	Sampled				•						
RHMW17	RHMW17-WGN02B-2211WK3	N	2022-11-22 08:40 AM	EUT2	5801204051	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW17	RHMW17-WGN02B-2211WK3	N	2022-11-22 08:40 AM	EUT2	5801204051	Sampled; No SGC								•		
RHMW17	RHMW17-WGN02B-2211WK3	N	2022-11-22 08:40 AM	EUTQ	5801204051	Sampled				•						
RHMW19	RHMW19-WGN01B-2211WK1	N	2022-11-07 11:40 AM	EUT2	5801198041	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW19	RHMW19-WGN01B-2211WK1	N	2022-11-07 11:40 AM	EUT2	5801198041	Sampled; No SGC								•		
RHMW19	RHMW19-WGN01B-2211WK1	N	2022-11-07 11:40 AM	EUTQ	5801198041	Sampled				•						
RHMW19	RHMW19-WGN01B-2211WK2	N	2022-11-14 11:55 AM	EUT2	5801200901	Sampled; No SGC	•	•	•		•	•	•		•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI November 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW19	RHMW19-WGN01B-2211WK2	N	2022-11-14 11:55 AM	EUT2	5801200901	Sampled; No SGC								•		
RHMW19	RHMW19-WGN01B-2211WK2	N	2022-11-14 11:55 AM	EUTQ	5801200901	Sampled				•						
RHMW19	RHMW19-WGN01B-2211WK3	N	2022-11-19 10:40 AM	EUT2	5801203111	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW19	RHMW19-WGN01B-2211WK3	N	2022-11-19 10:40 AM	EUT2	5801203111	Sampled; No SGC								•		
RHMW19	RHMW19-WGN01B-2211WK3	N	2022-11-19 10:40 AM	EUTQ	5801203111	Sampled				•						
RHMW19	RHMW19-WGN01B-2211WK4	N	2022-11-28 10:45 AM	EUT2	5801205401	Sampled	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN01B-2211WK4	N	2022-11-28 10:45 AM	EUTQ	5801205401	Sampled				•						
RHMW19	RHMW19-WGN02B-2211WK1	N	2022-11-09 12:20 PM	EUT2	5801199581	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN02B-2211WK1	N	2022-11-09 12:20 PM	EUTQ	5801199581	Addl Val Data Request				•						
RHMW19	RHMW19-WGN02B-2211WK2	N	2022-11-16 11:15 AM	EUT2	5801201401	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN02B-2211WK2	N	2022-11-16 11:15 AM	EUTQ	5801201401	Addl Val Data Request				•						
RHMW19	RHMW19-WGN02B-2211WK3	N	2022-11-21 08:30 AM	EUT2	5801203441	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW19	RHMW19-WGN02B-2211WK3	N	2022-11-21 08:30 AM	EUT2	5801203441	Sampled; No SGC								•		
RHMW19	RHMW19-WGN02B-2211WK3	N	2022-11-21 08:30 AM	EUTQ	5801203441	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2211WK1	N	2022-11-08 09:55 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2211WK1	N	2022-11-08 09:55 AM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW2254-01	RHMW2254-01-WGN01B-2211WK2	N	2022-11-15 08:10 AM	EUT2	5801200731	Sampled	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2211WK2	N	2022-11-15 08:10 AM	EUTQ	5801200731	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2211WK3	N	2022-11-20 08:55 AM	EUT2	5801203271	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2211WK3	N	2022-11-20 08:55 AM	EUTQ	5801203271	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2211WK4	N	2022-12-01 11:40 AM	EUT2	5801207571	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2211WK4	N	2022-12-01 11:40 AM	EUTQ	5801207571	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK1	N	2022-11-08 10:35 AM	EUT2	5801198651	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK1	N	2022-11-08 10:35 AM	EUTQ	5801198651	Addl Val Data Request				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUT2	5801200731	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUT2	5801200731	Sampled; No SGC								•		
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK2	N	2022-11-15 08:50 AM	EUTQ	5801200731	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK3	N	2022-11-20 09:40 AM	EUT2	5801203041	Addl Val Data Request	•	•	•		•	•	•	•	•	•

Event Status Report
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK3	N	2022-11-20 09:40 AM	EUTQ	5801203041	Addl Val Data Request				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK4	N	2022-12-01 12:30 PM	EUT2	5801207571	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2211WK4	N	2022-12-01 12:30 PM	EUTQ	5801207571	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN02B-2211WK1	N	2022-11-10 08:45 AM	EUT2	5801199671	Sampled	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN02B-2211WK1	N	2022-11-10 08:45 AM	EUTQ	5801199671	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN02B-2211WK2	N	2022-11-17 11:00 AM	EUT2	5801201991	Sampled	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN02B-2211WK2	N	2022-11-17 11:00 AM	EUTQ	5801201991	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN02B-2211WK3	N	2022-11-22 10:15 AM	EUT2	5801204051	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW2254-01	RHMW2254-01-WGN02B-2211WK3	N	2022-11-22 10:15 AM	EUT2	5801204051	Sampled; No SGC								•		
RHMW2254-01	RHMW2254-01-WGN02B-2211WK3	N	2022-11-22 10:15 AM	EUTQ	5801204051	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK1	N	2022-11-10 09:25 AM	EUT2	5801199931	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK1	N	2022-11-10 09:25 AM	EUTQ	5801199931	Addl Val Data Request				•						
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK2	N	2022-11-17 11:55 AM	EUT2	5801201991	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK2	N	2022-11-17 11:55 AM	EUTQ	5801201991	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK3	N	2022-11-22 10:55 AM	EUT2	5801204051	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK3	N	2022-11-22 10:55 AM	EUT2	5801204051	Sampled; No SGC								•		
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK3	N	2022-11-22 10:55 AM	EUTQ	5801204051	Sampled				•						

Event Status Report
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Event Name: RH NOI November 2022
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Drinking Water	WP
Ground Water	WG

Sampling Method	Code
Bailer	B
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Eurofins Environment Testing TestAmerica, Arvada, CO	EUTQ
Eurofins Environment Testing TestAmerica, Tacoma, WA	EUT2

Location Type	Code
Faucet/Tap	FW
Holding Pond/Lagoon	HP
Well	WL

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2212WK3	N	2022-12-21 11:45 AM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2212WK3	N	2022-12-21 11:45 AM	EUTQ	5801215701	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2212WK4	N	2022-12-29 10:25 AM	EUT2	5801216971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2212WK4	N	2022-12-29 10:25 AM	EUTQ	5801216971	Sampled				•						
OWDFMW01	OWDFMW01-WGN01LF-2212WK3	N	2022-12-21 10:10 AM	EUT2	5801214971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2212WK3	N	2022-12-21 10:10 AM	EUTQ	5801214971	Sampled				•						
OWDFMW01	OWDFMW01-WGN01LF-2212WK4	N	2022-12-30 09:10 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2212WK4	N	2022-12-30 09:10 AM	EUTQ	5801217471	Sampled				•						
OWDFMW04A	OWDFMW04A-WGFD01LF-2212WK3	FD	2022-12-19 11:50 AM	EUT2	5801214151	Sampled	•				•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2212WK3	N	2022-12-19 11:50 AM	EUT2	5801214151	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2212WK3	N	2022-12-19 11:50 AM	EUTQ	5801214151	Sampled				•						
OWDFMW04A	OWDFMW04A-WGFD01LF-2212WK4	FD	2022-12-29 10:40 AM	EUT2	5801216971	Sampled	•				•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2212WK4	N	2022-12-29 10:40 AM	EUT2	5801216971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2212WK4	N	2022-12-29 10:40 AM	EUTQ	5801216971	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2212WK3	N	2022-12-19 09:50 AM	EUT2	5801214151	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2212WK3	N	2022-12-19 09:50 AM	EUT2	5801214151	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2212WK3	N	2022-12-19 09:50 AM	EUTQ	5801214151	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2212WK4	N	2022-12-29 09:00 AM	EUT2	5801216971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2212WK4	N	2022-12-29 09:00 AM	EUTQ	5801216971	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2212WK3	N	2022-12-22 09:20 AM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2212WK3	N	2022-12-22 09:20 AM	EUTQ	5801215701	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2212WK4	N	2022-12-27 09:05 AM	EUT2	5801215971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2212WK4	N	2022-12-27 09:05 AM	EUTQ	5801215971	Sampled				•						
OWDFMW08A	OWDFMW08A-WGFD01LF-2212WK3	FD	2022-12-22 11:40 AM	EUT2	5801215701	Sampled; No SGC	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2212WK3	N	2022-12-22 11:40 AM	EUT2	5801215701	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2212WK3	N	2022-12-22 11:40 AM	EUTQ	5801215701	Sampled				•						
OWDFMW08A	OWDFMW08A-WGFD01LF-2212WK4	FD	2022-12-27 11:10 AM	EUT2	5801215971	Sampled; No SGC	•				•		•	•	•	•

Event Status Report
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW08A	OWDFMW08A-WGN01LF-2212WK4	N	2022-12-27 11:10 AM	EUT2	5801215971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2212WK4	N	2022-12-27 11:10 AM	EUTQ	5801215971	Sampled				•						
RHMW01R	RHMW01R-WGN01B-2212WK3	N	2022-12-20 11:10 AM	EUT2	5801214971	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2212WK3	N	2022-12-20 11:10 AM	EUTQ	5801214971	Sampled				•						
RHMW01R	RHMW01R-WGN01B-2212WK4	N	2022-12-28 10:20 AM	EUT2	5801217031	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2212WK4	N	2022-12-28 10:20 AM	EUTQ	5801217031	Sampled				•						
RHMW02	RHMW02-WGN01B-2212WK2	N	2022-12-14 09:30 AM	EUT2	5801213101	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2212WK2	N	2022-12-14 09:30 AM	EUTQ	5801213101	Addl Val Data Request				•						
RHMW02	RHMW02-WGN01B-2212WK3	N	2022-12-20 12:05 PM	EUT2	5801214971	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2212WK3	N	2022-12-20 12:05 PM	EUTQ	5801214971	Sampled				•						
RHMW02	RHMW02-WGN01B-2212WK4	N	2022-12-28 11:20 AM	EUT2	5801217031	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2212WK4	N	2022-12-28 11:20 AM	EUTQ	5801217031	Sampled				•						
RHMW03	RHMW03-WGN01B-2212WK1	N	2022-12-09 11:10 AM	EUT2	5801211101	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2212WK1	N	2022-12-09 11:10 AM	EUTQ	5801211101	Addl Val Data Request				•						
RHMW03	RHMW03-WGN01B-2212WK3	N	2022-12-20 01:10 PM	EUT2	5801214971	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2212WK3	N	2022-12-20 01:10 PM	EUTQ	5801214971	Sampled				•						
RHMW03	RHMW03-WGN01B-2212WK4	N	2022-12-28 12:20 PM	EUT2	5801217031	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2212WK4	N	2022-12-28 12:20 PM	EUTQ	5801217031	Sampled				•						
RHMW04	RHMW04-WGFD01B-2212WK1	FD	2022-12-07 11:45 AM	EUT2	5801210441	Addl Val Data Request	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK1	N	2022-12-07 11:45 AM	EUT2	5801210441	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK1	N	2022-12-07 11:45 AM	EUTQ	5801210441	Addl Val Data Request				•						
RHMW04	RHMW04-WGFD01B-2212WK3	FD	2022-12-23 12:20 PM	EUT2	5801215701	Sampled; No SGC	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK3	N	2022-12-23 12:20 PM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK3	N	2022-12-23 12:20 PM	EUTQ	5801215701	Sampled				•						
RHMW04	RHMW04-WGFD01B-2212WK4	FD	2022-12-30 12:10 PM	EUT2	5801217471	Sampled	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK4	N	2022-12-30 12:10 PM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN01B-2212WK4	N	2022-12-30 12:10 PM	EUTQ	5801217471	Sampled				•						

Event Status Report
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Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW05	RHMW05-WGN01B-2212WK3	N	2022-12-20 10:00 AM	EUT2	5801214971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2212WK3	N	2022-12-20 10:00 AM	EUTQ	5801214971	Sampled				•						
RHMW05	RHMW05-WGN01B-2212WK4	N	2022-12-28 09:10 AM	EUT2	5801217031	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2212WK4	N	2022-12-28 09:10 AM	EUTQ	5801217031	Sampled				•						
RHMW06	RHMW06-WGN01B-2212WK1	N	2022-12-06 04:50 PM	EUT2	5801209841	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN01B-2212WK1	N	2022-12-06 04:50 PM	EUTQ	5801209841	Addl Val Data Request				•						
RHMW06	RHMW06-WGN01B-2212WK3	N	2022-12-19 02:35 PM	EUT2	5801214711	Sampled	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN01B-2212WK3	N	2022-12-19 02:35 PM	EUTQ	5801214711	Sampled				•						
RHMW06	RHMW06-WGN01B-2212WK4	N	2022-12-30 07:50 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN01B-2212WK4	N	2022-12-30 07:50 AM	EUTQ	5801217471	Sampled				•						
RHMW08	RHMW08-WGN01B-2212WK3	N	2022-12-19 12:30 PM	EUT2	5801214151	Sampled	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN01B-2212WK3	N	2022-12-19 12:30 PM	EUTQ	5801214151	Sampled				•						
RHMW08	RHMW08-WGN01B-2212WK4	N	2022-12-30 10:00 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN01B-2212WK4	N	2022-12-30 10:00 AM	EUTQ	5801217471	Sampled				•						
RHMW09	RHMW09-WGN01B-2212WK3	N	2022-12-23 07:55 AM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN01B-2212WK3	N	2022-12-23 07:55 AM	EUTQ	5801215701	Sampled				•						
RHMW09	RHMW09-WGN01B-2212WK4	N	2022-12-27 08:40 AM	EUT2	5801216661	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN01B-2212WK4	N	2022-12-27 08:40 AM	EUTQ	5801216661	Addl Val Data Request				•						
RHMW10	RHMW10-WGN01B-2212WK1	N	2022-12-09 09:40 AM	EUT2	5801211101	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW10	RHMW10-WGN01B-2212WK1	N	2022-12-09 09:40 AM	EUTQ	5801211101	Addl Val Data Request				•						
RHMW11-05	RHMW11-05-WGN01G-2212WK3	N	2022-12-20 09:20 AM	EUT2	5801214711	Sampled	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2212WK3	N	2022-12-20 09:20 AM	EUTQ	5801214711	Sampled				•						
RHMW11-05	RHMW11-05-WGN01G-2212WK4	N	2022-12-28 09:05 AM	EUT2	5801216661	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2212WK4	N	2022-12-28 09:05 AM	EUTQ	5801216661	Addl Val Data Request				•						
RHMW12A	RHMW12A-WGN01LF-2212WK2	N	2022-12-16 02:00 PM	EUT2	5801214201	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2212WK2	N	2022-12-16 02:00 PM	EUTQ	5801214201	Addl Val Data Request				•						
RHMW12A	RHMW12A-WGN01LF-2212WK3	N	2022-12-20 09:40 AM	EUT2	5801214711	Sampled	•	•	•		•	•	•	•	•	•

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Event Name: RH NOI December 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW12A	RHMW12A-WGN01LF-2212WK3	N	2022-12-20 09:40 AM	EUTQ	5801214711	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2212WK4	N	2022-12-28 10:35 AM	EUT2	5801217031	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2212WK4	N	2022-12-28 10:35 AM	EUTQ	5801217031	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2212WK3	N	2022-12-21 09:00 AM	EUT2	5801214971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2212WK3	N	2022-12-21 09:00 AM	EUTQ	5801214971	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2212WK4	N	2022-12-29 10:30 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2212WK4	N	2022-12-29 10:30 AM	EUTQ	5801217471	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2212WK3	N	2022-12-20 01:00 PM	EUT2	5801214971	Sampled	•	•	•		•	•	•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2212WK3	N	2022-12-20 01:00 PM	EUTQ	5801214971	Sampled				•						
RHMW14-03	RHMW14-03-WGN01G-2212WK4	N	2022-12-30 09:05 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2212WK4	N	2022-12-30 09:05 AM	EUTQ	5801217471	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2212WK3	N	2022-12-19 09:15 AM	EUT2	5801214151	Sampled	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2212WK3	N	2022-12-19 09:15 AM	EUTQ	5801214151	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2212WK4	N	2022-12-27 09:00 AM	EUT2	5801216661	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2212WK4	N	2022-12-27 09:00 AM	EUTQ	5801216661	Addl Val Data Request				•						
RHMW16	RHMW16-WGN01LF-2212WK2	N	2022-12-16 02:45 PM	EUT2	5801214201	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN01LF-2212WK2	N	2022-12-16 02:45 PM	EUTQ	5801214201	Addl Val Data Request				•						
RHMW16	RHMW16-WGN01LF-2212WK3	N	2022-12-20 12:10 PM	EUT2	5801214711	Sampled	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN01LF-2212WK3	N	2022-12-20 12:10 PM	EUTQ	5801214711	Sampled				•						
RHMW16	RHMW16-WGN01LF-2212WK4	N	2022-12-28 01:05 PM	EUT2	5801217031	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN01LF-2212WK4	N	2022-12-28 01:05 PM	EUTQ	5801217031	Sampled				•						
RHMW17	RHMW17-WGN01B-2212WK1	N	2022-12-07 02:05 PM	EUT2	5801210441	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2212WK1	N	2022-12-07 02:05 PM	EUTQ	5801210441	Addl Val Data Request				•						
RHMW17	RHMW17-WGN01B-2212WK3	N	2022-12-21 11:45 AM	EUT2	5801214971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2212WK3	N	2022-12-21 11:45 AM	EUTQ	5801214971	Sampled				•						
RHMW17	RHMW17-WGN01B-2212WK4	N	2022-12-30 10:57 AM	EUT2	5801217471	Sampled	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2212WK4	N	2022-12-30 10:57 AM	EUTQ	5801217471	Sampled				•						

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI December 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW19	RHMW19-WGN01B-2212WK3	N	2022-12-23 09:30 AM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN01B-2212WK3	N	2022-12-23 09:30 AM	EUTQ	5801215701	Sampled				•						
RHMW19	RHMW19-WGN01B-2212WK4	N	2022-12-27 10:40 AM	EUT2	5801216661	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN01B-2212WK4	N	2022-12-27 10:40 AM	EUTQ	5801216661	Addl Val Data Request				•						
RHMW2254-01	RHMW2254-01-WGN01B-2212WK2	N	2022-12-15 09:30 AM	EUT2	5801213571	Sampled	•	•	•		•	•	•		•	•
RHMW2254-01	RHMW2254-01-WGN01B-2212WK2	N	2022-12-15 09:30 AM	EUT2	5801213571	Sampled								•		
RHMW2254-01	RHMW2254-01-WGN01B-2212WK2	N	2022-12-15 09:30 AM	EUTQ	5801213571	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK2	N	2022-12-15 09:55 AM	EUT2	5801213571	Sampled	•	•	•		•	•	•		•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK2	N	2022-12-15 09:55 AM	EUT2	5801213571	Sampled								•		
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK2	N	2022-12-15 09:55 AM	EUTQ	5801213571	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK3	N	2022-12-21 01:30 PM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK3	N	2022-12-21 01:30 PM	EUTQ	5801215701	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2212WK3	N	2022-12-21 12:35 PM	EUT2	5801215701	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2212WK3	N	2022-12-21 12:35 PM	EUTQ	5801215701	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2212WK4	N	2022-12-29 11:25 AM	EUT2	5801216971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2212WK4	N	2022-12-29 11:25 AM	EUTQ	5801216971	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK4	N	2022-12-29 12:05 PM	EUT2	5801216971	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2212WK4	N	2022-12-29 12:05 PM	EUTQ	5801216971	Sampled				•						

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI December 2022
Event ID: 40

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EU (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Drinking Water	WP
Ground Water	WG

Sampling Method	Code
Bailer	B
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Eurofins Environment Testing TestAmerica, Arvada, CO	EUTQ
Eurofins Environment Testing TestAmerica, Tacoma, WA	EUT2

Location Type	Code
Faucet/Tap	FW
Holding Pond/Lagoon	HP
Well	WL

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK1	N	2023-01-05 12:45 PM	EUT2	5801219481	Sampled	•	•	•		•	•	•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK1	N	2023-01-05 12:45 PM	EUTQ	5801219481	Sampled				•						
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK2	N	2023-01-11 01:15 PM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK2	N	2023-01-11 01:15 PM	EUTQ	5801222141	Sampled				•		•				
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK3	N	2023-01-18 01:05 PM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK3	N	2023-01-18 01:05 PM	EUTQ	5801224981	Sampled				•		•				
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK4	N	2023-01-26 02:20 PM	EUT2	5801228011	Sampled	•	•	•		•		•	•	•	•
ADIT3-SUMP	ADIT3-SUMP-WGN01B-2301WK4	N	2023-01-26 02:20 PM	EUTQ	5801228011	Sampled				•		•				
OWDFMW01	OWDFMW01-WGN01LF-2301WK1	N	2023-01-06 09:05 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2301WK1	N	2023-01-06 09:05 AM	EUTQ	5801219821	Addl Val Data Request				•						
OWDFMW01	OWDFMW01-WGN01LF-2301WK2	N	2023-01-12 09:20 AM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2301WK2	N	2023-01-12 09:20 AM	EUTQ	5801222141	Sampled				•		•				
OWDFMW01	OWDFMW01-WGN01LF-2301WK3	N	2023-01-19 08:50 AM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2301WK3	N	2023-01-19 08:50 AM	EUTQ	5801224981	Sampled				•		•				
OWDFMW01	OWDFMW01-WGN01LF-2301WK4	N	2023-01-26 10:05 AM	EUT2	5801227621	Sampled	•	•	•		•		•	•	•	•
OWDFMW01	OWDFMW01-WGN01LF-2301WK4	N	2023-01-26 10:05 AM	EUTQ	5801227621	Sampled				•		•				
OWDFMW04A	OWDFMW04A-WGFD01LF-2301WK1	FD	2023-01-05 10:55 AM	EUT2	5801219311	Sampled; No SGC	•				•		•		•	•
OWDFMW04A	OWDFMW04A-WGFD01LF-2301WK1	FD	2023-01-05 10:55 AM	EUT2	5801219311	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK1	N	2023-01-05 10:55 AM	EUT2	5801219311	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK1	N	2023-01-05 10:55 AM	EUT2	5801219311	Sampled; No SGC								•		
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK1	N	2023-01-05 10:55 AM	EUTQ	5801219311	Sampled				•						
OWDFMW04A	OWDFMW04A-WGFD01LF-2301WK2	FD	2023-01-11 11:45 AM	EUT2	5801221451	Sampled	•				•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK2	N	2023-01-11 11:45 AM	EUT2	5801221451	Sampled	•	•	•		•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK2	N	2023-01-11 11:45 AM	EUTQ	5801221451	Sampled				•		•				
OWDFMW04A	OWDFMW04A-WGFD01LF-2301WK3	FD	2023-01-18 11:55 AM	EUT2	5801224151	Sampled	•				•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK3	N	2023-01-18 11:55 AM	EUT2	5801224151	Sampled	•	•	•		•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK3	N	2023-01-18 11:55 AM	EUTQ	5801224151	Sampled				•		•				
OWDFMW04A	OWDFMW04A-WGFD01LF-2301WK4	FD	2023-01-24 11:25 AM	EUT2	5801226321	Sampled	•				•		•	•	•	•
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK4	N	2023-01-24 11:25 AM	EUT2	5801226321	Sampled	•	•	•		•		•	•	•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW04A	OWDFMW04A-WGN01LF-2301WK4	N	2023-01-24 11:25 AM	EUTQ	5801226321	Sampled				•		•				
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK1	N	2023-01-05 09:00 AM	EUT2	5801219311	Sampled; No SGC	•	•	•		•	•	•		•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK1	N	2023-01-05 09:00 AM	EUT2	5801219311	Sampled; No SGC								•		
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK1	N	2023-01-05 09:00 AM	EUTQ	5801219311	Sampled				•						
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK2	N	2023-01-11 09:45 AM	EUT2	5801221451	Sampled	•	•	•		•		•	•	•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK2	N	2023-01-11 09:45 AM	EUTQ	5801221451	Sampled				•		•				
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK3	N	2023-01-18 09:55 AM	EUT2	5801224151	Sampled	•	•	•		•		•	•	•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK3	N	2023-01-18 09:55 AM	EUTQ	5801224151	Sampled				•		•				
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK4	N	2023-01-24 09:55 AM	EUT2	5801226321	Sampled	•	•	•		•		•	•	•	•
OWDFMW05A	OWDFMW05A-WGN01LF-2301WK4	N	2023-01-24 09:55 AM	EUTQ	5801226321	Sampled				•		•				
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK1	N	2023-01-03 09:15 AM	EUT2	5801217911	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK1	N	2023-01-03 09:15 AM	EUTQ	5801217911	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK2	N	2023-01-09 09:25 AM	EUT2	5801220001	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK2	N	2023-01-09 09:25 AM	EUTQ	5801220001	Sampled				•						
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK3	N	2023-01-16 09:20 AM	EUT2	5801222821	Sampled	•	•	•		•		•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK3	N	2023-01-16 09:20 AM	EUTQ	5801222821	Sampled				•		•				
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK4	N	2023-01-23 09:40 AM	EUT2	5801225881	Sampled	•	•	•		•		•	•	•	•
OWDFMW07A	OWDFMW07A-WGN01LF-2301WK4	N	2023-01-23 09:40 AM	EUTQ	5801225881	Sampled				•		•				
OWDFMW08A	OWDFMW08A-WGFD01LF-2301WK1	FD	2023-01-03 11:05 AM	EUT2	5801217911	Sampled; No SGC	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK1	N	2023-01-03 11:05 AM	EUT2	5801217911	Sampled; No SGC	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK1	N	2023-01-03 11:05 AM	EUTQ	5801217911	Sampled				•						
OWDFMW08A	OWDFMW08A-WGFD01LF-2301WK2	FD	2023-01-09 11:10 AM	EUT2	5801220001	Sampled	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK2	N	2023-01-09 11:10 AM	EUT2	5801220001	Sampled	•	•	•		•	•	•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK2	N	2023-01-09 11:10 AM	EUTQ	5801220001	Sampled				•						
OWDFMW08A	OWDFMW08A-WGFD01LF-2301WK3	FD	2023-01-16 11:15 AM	EUT2	5801222821	Sampled	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK3	N	2023-01-16 11:15 AM	EUT2	5801222821	Sampled	•	•	•		•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK3	N	2023-01-16 11:15 AM	EUTQ	5801222821	Sampled				•		•				
OWDFMW08A	OWDFMW08A-WGFD01LF-2301WK4	FD	2023-01-23 12:15 PM	EUT2	5801225881	Sampled	•				•		•	•	•	•
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK4	N	2023-01-23 12:15 PM	EUT2	5801225881	Sampled	•	•	•		•		•	•	•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
OWDFMW08A	OWDFMW08A-WGN01LF-2301WK4	N	2023-01-23 12:15 PM	EUTQ	5801225881	Sampled				•		•				
RHMW01R	RHMW01R-WGN01B-2301WK1	N	2023-01-04 09:50 AM	EUT2	5801218681	Sampled	•	•	•		•	•	•	•	•	•
RHMW01R	RHMW01R-WGN01B-2301WK1	N	2023-01-04 09:50 AM	EUTQ	5801218681	Sampled				•						
RHMW01R	RHMW01R-WGN01B-2301WK2	N	2023-01-10 10:15 AM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW01R	RHMW01R-WGN01B-2301WK2	N	2023-01-10 10:15 AM	EUTQ	5801220611	Sampled				•		•				
RHMW01R	RHMW01R-WGN01B-2301WK3	N	2023-01-17 10:45 AM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW01R	RHMW01R-WGN01B-2301WK3	N	2023-01-17 10:45 AM	EUTQ	5801224201	Sampled				•		•				
RHMW01R	RHMW01R-WGN01B-2301WK4	N	2023-01-24 10:45 AM	EUT2	5801227141	Sampled	•	•	•		•		•	•	•	•
RHMW01R	RHMW01R-WGN01B-2301WK4	N	2023-01-24 10:45 AM	EUTQ	5801227141	Sampled				•		•				
RHMW02	RHMW02-WGN01B-2301WK1	N	2023-01-04 10:45 AM	EUT2	5801218681	Sampled	•	•	•		•	•	•	•	•	•
RHMW02	RHMW02-WGN01B-2301WK1	N	2023-01-04 10:45 AM	EUTQ	5801218681	Sampled				•						
RHMW02	RHMW02-WGN01B-2301WK2	N	2023-01-10 11:10 AM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW02	RHMW02-WGN01B-2301WK2	N	2023-01-10 11:10 AM	EUTQ	5801220611	Sampled				•		•				
RHMW02	RHMW02-WGN01B-2301WK3	N	2023-01-17 11:45 AM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW02	RHMW02-WGN01B-2301WK3	N	2023-01-17 11:45 AM	EUTQ	5801224201	Sampled				•		•				
RHMW02	RHMW02-WGN01B-2301WK4	N	2023-01-24 11:55 AM	EUT2	5801227141	Sampled	•	•	•		•		•	•	•	•
RHMW02	RHMW02-WGN01B-2301WK4	N	2023-01-24 11:55 AM	EUTQ	5801227141	Sampled				•		•				
RHMW03	RHMW03-WGN01B-2301WK1	N	2023-01-04 11:50 AM	EUT2	5801218681	Sampled	•	•	•		•	•	•	•	•	•
RHMW03	RHMW03-WGN01B-2301WK1	N	2023-01-04 11:50 AM	EUTQ	5801218681	Sampled				•						
RHMW03	RHMW03-WGN01B-2301WK2	N	2023-01-10 12:05 PM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW03	RHMW03-WGN01B-2301WK2	N	2023-01-10 12:05 PM	EUTQ	5801220611	Sampled				•		•				
RHMW03	RHMW03-WGN01B-2301WK3	N	2023-01-17 12:45 PM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW03	RHMW03-WGN01B-2301WK3	N	2023-01-17 12:45 PM	EUTQ	5801224201	Sampled				•		•				
RHMW03	RHMW03-WGN01B-2301WK4	N	2023-01-24 12:55 PM	EUT2	5801227141	Sampled	•	•	•		•		•	•	•	•
RHMW03	RHMW03-WGN01B-2301WK4	N	2023-01-24 12:55 PM	EUTQ	5801227141	Sampled				•		•				
RHMW04	RHMW04-WGFD01B-2301WK1	FD	2023-01-06 11:35 AM	EUT2	5801219821	Addl Val Data Request	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK1	N	2023-01-06 11:35 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK1	N	2023-01-06 11:35 AM	EUTQ	5801219821	Addl Val Data Request				•						
RHMW04	RHMW04-WGFD01B-2301WK2	FD	2023-01-13 08:25 AM	EUT2	5801222611	Addl Val Data Request	•				•		•	•	•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW04	RHMW04-WGN01B-2301WK2	N	2023-01-13 08:25 AM	EUT2	5801222611	Addl Val Data Request	•	•	•		•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK2	N	2023-01-13 08:25 AM	EUTQ	5801222611	Addl Val Data Request				•		•				
RHMW04	RHMW04-WGFD01B-2301WK3	FD	2023-01-20 08:40 AM	EUT2	5801225861	Sampled	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK3	N	2023-01-20 08:40 AM	EUT2	5801225861	Sampled	•	•	•		•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK3	N	2023-01-20 08:40 AM	EUTQ	5801225861	Sampled				•		•				
RHMW04	RHMW04-WGFD01B-2301WK4	FD	2023-01-25 11:05 AM	EUT2	5801227611	Sampled	•				•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK4	N	2023-01-25 11:05 AM	EUT2	5801227611	Sampled	•	•	•		•		•	•	•	•
RHMW04	RHMW04-WGN01B-2301WK4	N	2023-01-25 11:05 AM	EUTQ	5801227611	Sampled				•		•				
RHMW05	RHMW05-WGN01B-2301WK1	N	2023-01-04 08:45 AM	EUT2	5801218681	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW05	RHMW05-WGN01B-2301WK1	N	2023-01-04 08:45 AM	EUTQ	5801218681	Sampled				•						
RHMW05	RHMW05-WGN01B-2301WK2	N	2023-01-10 09:10 AM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW05	RHMW05-WGN01B-2301WK2	N	2023-01-10 09:10 AM	EUTQ	5801220611	Sampled				•		•				
RHMW05	RHMW05-WGN01B-2301WK3	N	2023-01-17 09:45 AM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW05	RHMW05-WGN01B-2301WK3	N	2023-01-17 09:45 AM	EUTQ	5801224201	Sampled				•		•				
RHMW05	RHMW05-WGN01B-2301WK4	N	2023-01-24 09:40 AM	EUT2	5801227141	Sampled	•	•	•		•		•	•	•	•
RHMW05	RHMW05-WGN01B-2301WK4	N	2023-01-24 09:40 AM	EUTQ	5801227141	Sampled				•		•				
RHMW06	RHMW06-WGN01B-2301WK1	N	2023-01-06 10:05 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW06	RHMW06-WGN01B-2301WK1	N	2023-01-06 10:05 AM	EUTQ	5801219821	Addl Val Data Request				•						
RHMW06	RHMW06-WGN01B-2301WK2	N	2023-01-13 10:10 AM	EUT2	5801222611	Addl Val Data Request	•	•	•		•		•	•	•	•
RHMW06	RHMW06-WGN01B-2301WK2	N	2023-01-13 10:10 AM	EUTQ	5801222611	Addl Val Data Request				•		•				
RHMW06	RHMW06-WGN01B-2301WK3	N	2023-01-20 03:50 PM	EUT2	5801225861	Sampled	•	•	•		•		•	•	•	•
RHMW06	RHMW06-WGN01B-2301WK3	N	2023-01-20 03:50 PM	EUTQ	5801225861	Sampled				•		•				
RHMW06	RHMW06-WGN01B-2301WK4	N	2023-01-25 03:40 PM	EUT2	5801227611	Sampled	•	•	•		•		•	•	•	•
RHMW06	RHMW06-WGN01B-2301WK4	N	2023-01-25 03:40 PM	EUTQ	5801227611	Sampled				•		•				
RHMW08	RHMW08-WGN01B-2301WK1	N	2023-01-06 08:26 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW08	RHMW08-WGN01B-2301WK1	N	2023-01-06 08:26 AM	EUTQ	5801219821	Addl Val Data Request				•						
RHMW08	RHMW08-WGN01B-2301WK2	N	2023-01-13 12:05 PM	EUT2	5801222611	Addl Val Data Request	•	•	•		•		•	•	•	•
RHMW08	RHMW08-WGN01B-2301WK2	N	2023-01-13 12:05 PM	EUTQ	5801222611	Addl Val Data Request				•		•				
RHMW08	RHMW08-WGN01B-2301WK3	N	2023-01-20 11:45 AM	EUT2	5801225861	Sampled	•	•	•		•		•	•	•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW08	RHMW08-WGN01B-2301WK3	N	2023-01-20 11:45 AM	EUTQ	5801225861	Sampled				•		•				
RHMW08	RHMW08-WGN01B-2301WK4	N	2023-01-25 08:30 AM	EUT2	5801227611	Sampled	•	•	•		•		•	•	•	•
RHMW08	RHMW08-WGN01B-2301WK4	N	2023-01-25 08:30 AM	EUTQ	5801227611	Sampled				•		•				
RHMW09	RHMW09-WGN01B-2301WK1	N	2023-01-03 08:00 AM	EUT2	5801217911	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN01B-2301WK1	N	2023-01-03 08:00 AM	EUTQ	5801217911	Sampled				•						
RHMW09	RHMW09-WGN01B-2301WK2	N	2023-01-09 11:11 AM	EUT2	5801220001	Sampled	•	•	•		•	•	•	•	•	•
RHMW09	RHMW09-WGN01B-2301WK2	N	2023-01-09 11:11 AM	EUTQ	5801220001	Sampled				•						
RHMW09	RHMW09-WGN01B-2301WK3	N	2023-01-16 08:05 AM	EUT2	5801222821	Sampled	•	•	•		•		•	•	•	•
RHMW09	RHMW09-WGN01B-2301WK3	N	2023-01-16 08:05 AM	EUTQ	5801222821	Sampled				•		•				
RHMW09	RHMW09-WGN01B-2301WK4	N	2023-01-23 09:05 AM	EUT2	5801226321	Sampled	•	•	•		•		•	•	•	•
RHMW09	RHMW09-WGN01B-2301WK4	N	2023-01-23 09:05 AM	EUTQ	5801226321	Sampled				•		•				
RHMW11-05	RHMW11-05-WGN01G-2301WK1	N	2023-01-04 09:15 AM	EUT2	5801218681	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2301WK1	N	2023-01-04 09:15 AM	EUTQ	5801218681	Sampled				•						
RHMW11-05	RHMW11-05-WGN01G-2301WK2	N	2023-01-10 09:30 AM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2301WK2	N	2023-01-10 09:30 AM	EUTQ	5801220611	Sampled				•		•				
RHMW11-05	RHMW11-05-WGN01G-2301WK3	N	2023-01-17 08:50 AM	EUT2	5801223551	Sampled	•	•	•		•		•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2301WK3	N	2023-01-17 08:50 AM	EUTQ	5801223551	Sampled				•		•				
RHMW11-05	RHMW11-05-WGN01G-2301WK4	N	2023-01-24 09:15 AM	EUT2	5801227141	Sampled	•	•	•		•		•	•	•	•
RHMW11-05	RHMW11-05-WGN01G-2301WK4	N	2023-01-24 09:15 AM	EUTQ	5801227141	Sampled				•		•				
RHMW12A	RHMW12A-WGN01LF-2301WK1	N	2023-01-04 09:15 AM	EUT2	5801218681	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2301WK1	N	2023-01-04 09:15 AM	EUTQ	5801218681	Sampled				•						
RHMW12A	RHMW12A-WGN01LF-2301WK2	N	2023-01-10 09:30 AM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2301WK2	N	2023-01-10 09:30 AM	EUTQ	5801220611	Sampled				•		•				
RHMW12A	RHMW12A-WGN01LF-2301WK3	N	2023-01-17 12:30 PM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2301WK3	N	2023-01-17 12:30 PM	EUTQ	5801224201	Sampled				•		•				
RHMW12A	RHMW12A-WGN01LF-2301WK4	N	2023-01-25 10:00 AM	EUT2	5801227001	Sampled	•	•	•		•		•	•	•	•
RHMW12A	RHMW12A-WGN01LF-2301WK4	N	2023-01-25 10:00 AM	EUTQ	5801227001	Sampled				•		•				
RHMW13-05	RHMW13-05-WGN01G-2301WK1	N	2023-01-05 09:50 AM	EUT2	5801219311	Sampled; No SGC	•	•	•		•	•	•		•	•
RHMW13-05	RHMW13-05-WGN01G-2301WK1	N	2023-01-05 09:50 AM	EUT2	5801219311	Sampled; No SGC								•		

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW13-05	RHMW13-05-WGN01G-2301WK1	N	2023-01-05 09:50 AM	EUTQ	5801219311	Sampled				•						
RHMW13-05	RHMW13-05-WGN01G-2301WK2	N	2023-01-11 09:30 AM	EUT2	5801221451	Sampled	•	•	•		•		•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2301WK2	N	2023-01-11 09:30 AM	EUTQ	5801221451	Sampled				•		•				
RHMW13-05	RHMW13-05-WGN01G-2301WK3	N	2023-01-18 09:25 AM	EUT2	5801224151	Sampled	•	•	•		•		•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2301WK3	N	2023-01-18 09:25 AM	EUTQ	5801224151	Sampled				•		•				
RHMW13-05	RHMW13-05-WGN01G-2301WK4	N	2023-01-25 09:30 AM	EUT2	5801227001	Sampled	•	•	•		•		•	•	•	•
RHMW13-05	RHMW13-05-WGN01G-2301WK4	N	2023-01-25 09:30 AM	EUTQ	5801227001	Sampled				•		•				
RHMW14-03	RHMW14-03-WGN01G-2301WK1	N	2023-01-06 09:15 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2301WK1	N	2023-01-06 09:15 AM	EUTQ	5801219821	Addl Val Data Request				•						
RHMW14-03	RHMW14-03-WGN01G-2301WK2	N	2023-01-12 09:00 AM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2301WK2	N	2023-01-12 09:00 AM	EUTQ	5801222141	Sampled				•		•				
RHMW14-03	RHMW14-03-WGN01G-2301WK3	N	2023-01-19 09:00 AM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2301WK3	N	2023-01-19 09:00 AM	EUTQ	5801224981	Sampled				•		•				
RHMW14-03	RHMW14-03-WGN01G-2301WK4	N	2023-01-26 08:50 AM	EUT2	5801227621	Sampled	•	•	•		•		•	•	•	•
RHMW14-03	RHMW14-03-WGN01G-2301WK4	N	2023-01-26 08:50 AM	EUTQ	5801227621	Sampled				•		•				
RHMW15-05	RHMW15-05-WGN01G-2301WK1	N	2023-01-03 09:00 AM	EUT2	5801217911	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2301WK1	N	2023-01-03 09:00 AM	EUTQ	5801217911	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2301WK2	N	2023-01-09 09:10 AM	EUT2	5801220001	Sampled	•	•	•		•	•	•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2301WK2	N	2023-01-09 09:10 AM	EUTQ	5801220001	Sampled				•						
RHMW15-05	RHMW15-05-WGN01G-2301WK3	N	2023-01-16 09:15 AM	EUT2	5801222821	Sampled	•	•	•		•		•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2301WK3	N	2023-01-16 09:15 AM	EUTQ	5801222821	Sampled				•		•				
RHMW15-05	RHMW15-05-WGN01G-2301WK4	N	2023-01-23 08:50 AM	EUT2	5801225881	Sampled	•	•	•		•		•	•	•	•
RHMW15-05	RHMW15-05-WGN01G-2301WK4	N	2023-01-23 08:50 AM	EUTQ	5801225881	Sampled				•		•				
RHMW16	RHMW16-WGN01LF-2301WK1	N	2023-01-04 11:48 AM	EUT2	5801218681	Sampled	•	•	•		•	•	•	•	•	•
RHMW16	RHMW16-WGN01LF-2301WK1	N	2023-01-04 11:48 AM	EUTQ	5801218681	Sampled				•						
RHMW16	RHMW16-WGN01LF-2301WK2	N	2023-01-10 12:15 PM	EUT2	5801220611	Sampled	•	•	•		•		•	•	•	•
RHMW16	RHMW16-WGN01LF-2301WK2	N	2023-01-10 12:15 PM	EUTQ	5801220611	Sampled				•		•				
RHMW16	RHMW16-WGN01LF-2301WK3	N	2023-01-17 02:25 PM	EUT2	5801224201	Sampled	•	•	•		•		•	•	•	•
RHMW16	RHMW16-WGN01LF-2301WK3	N	2023-01-17 02:25 PM	EUTQ	5801224201	Sampled				•		•				

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW16	RHMW16-WGN01LF-2301WK4	N	2023-01-25 12:45 PM	EUT2	5801227001	Sampled	•	•	•		•		•	•	•	•
RHMW16	RHMW16-WGN01LF-2301WK4	N	2023-01-25 12:45 PM	EUTQ	5801227001	Sampled				•		•				
RHMW17	RHMW17-WGN01B-2301WK1	N	2023-01-06 10:45 AM	EUT2	5801219821	Addl Val Data Request	•	•	•		•	•	•	•	•	•
RHMW17	RHMW17-WGN01B-2301WK1	N	2023-01-06 10:45 AM	EUTQ	5801219821	Addl Val Data Request				•						
RHMW17	RHMW17-WGN01B-2301WK2	N	2023-01-12 11:20 AM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
RHMW17	RHMW17-WGN01B-2301WK2	N	2023-01-12 11:20 AM	EUTQ	5801222141	Sampled				•		•				
RHMW17	RHMW17-WGN01B-2301WK3	N	2023-01-19 11:15 AM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•
RHMW17	RHMW17-WGN01B-2301WK3	N	2023-01-19 11:15 AM	EUTQ	5801224981	Sampled				•		•				
RHMW17	RHMW17-WGN01B-2301WK4	N	2023-01-26 01:15 PM	EUT2	5801228011	Sampled	•	•	•		•		•	•	•	•
RHMW17	RHMW17-WGN01B-2301WK4	N	2023-01-26 01:15 PM	EUTQ	5801228011	Sampled				•		•				
RHMW19	RHMW19-WGN01B-2301WK1	N	2023-01-03 09:20 AM	EUT2	5801217911	Sampled; No SGC	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN01B-2301WK1	N	2023-01-03 09:20 AM	EUTQ	5801217911	Sampled				•						
RHMW19	RHMW19-WGN01B-2301WK2	N	2023-01-09 09:35 AM	EUT2	5801220001	Sampled	•	•	•		•	•	•	•	•	•
RHMW19	RHMW19-WGN01B-2301WK2	N	2023-01-09 09:35 AM	EUTQ	5801220001	Sampled				•						
RHMW19	RHMW19-WGN01B-2301WK3	N	2023-01-16 09:45 AM	EUT2	5801222821	Sampled	•	•	•		•		•	•	•	•
RHMW19	RHMW19-WGN01B-2301WK3	N	2023-01-16 09:45 AM	EUTQ	5801222821	Sampled				•		•				
RHMW19	RHMW19-WGN01B-2301WK4	N	2023-01-23 01:38 PM	EUT2	5801226321	Sampled	•	•	•		•		•	•	•	•
RHMW19	RHMW19-WGN01B-2301WK4	N	2023-01-23 01:38 PM	EUTQ	5801226321	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01B-2301WK1	N	2023-01-05 09:10 AM	EUT2	5801219481	Sampled	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2301WK1	N	2023-01-05 09:10 AM	EUTQ	5801219481	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK1	N	2023-01-05 10:55 AM	EUT2	5801219481	Sampled	•	•	•		•	•	•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK1	N	2023-01-05 10:55 AM	EUTQ	5801219481	Sampled				•						
RHMW2254-01	RHMW2254-01-WGN01B-2301WK2	N	2023-01-11 11:20 AM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2301WK2	N	2023-01-11 11:20 AM	EUTQ	5801222141	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK2	N	2023-01-11 12:05 PM	EUT2	5801222141	Sampled	•	•	•		•		•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK2	N	2023-01-11 12:05 PM	EUTQ	5801222141	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01B-2301WK3	N	2023-01-18 11:25 AM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2301WK3	N	2023-01-18 11:25 AM	EUTQ	5801224981	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK3	N	2023-01-18 12:15 PM	EUT2	5801224981	Sampled	•	•	•		•		•	•	•	•

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK3	N	2023-01-18 12:15 PM	EUTQ	5801224981	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK4	N	2023-01-26 01:05 PM	EUT2	5801228011	Sampled	•	•	•		•		•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01LF-2301WK4	N	2023-01-26 01:05 PM	EUTQ	5801228011	Sampled				•		•				
RHMW2254-01	RHMW2254-01-WGN01B-2301WK4	N	2023-01-26 12:10 PM	EUT2	5801228011	Sampled	•	•	•		•		•	•	•	•
RHMW2254-01	RHMW2254-01-WGN01B-2301WK4	N	2023-01-26 12:10 PM	EUTQ	5801228011	Sampled				•		•				

Event Status Report
RHS Recovery and Monitoring
RHS RM UFP-QAPP
Event Name: RH NOI January 2023
Event ID: 50

Location	Field Sample ID	Sample Type	Sampling Date	Lab	SDG	Sampling Status	BNA SIM (BNASIME)	EDB DBPR12 (SW8011)	Lead (SW6020B)	Methane (RSK175)	SVOCs (SW8270E)	TOC EN (SW9060A)	TPH Diesel and Oil EU (SW8015D)	TPH Diesel and Oil Silica Gel EU (M8015D)	TPH Gasoline EU (SW8260)	VOCs (SW8260D)

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified; Awaiting Lab Data	
Laboratory Data Loaded and Certified; Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data In Production	

Matrix Name	Matrix
Drinking Water	WP
Ground Water	WG

Sampling Method	Code
Bailer	B
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
Eurofins Environment Testing TestAmerica, Arvada, CO	EUTQ
Eurofins Environment Testing TestAmerica, Tacoma, WA	EUT2

Location Type	Code
Faucet/Tap	FW
Holding Pond/Lagoon	HP
Well	WL

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Appendix B.2 – Summary of Free Product Gauging and Monitoring Well Headspace Measurements

Appendix B.2.1 – AOC Oil/Water Interface Measurements, January 2014 through January 2023

Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
15-Jan-14	83.94	18.06	0				86.62	17.98	0	NT	NT	NT	NT	NT	NT
16-Jan-14	NT	NT	NT				NT	NT	NT	NT	NT	NT	83.09	18.22	0
22-Jan-14	83.53	18.47	0				86.20	18.40	0	NT	NT	NT	82.87	18.44	0
23-Jan-14	83.58	18.42	0				86.24	18.36	0	NT	NT	NT	82.94	18.37	0
24-Jan-14	83.57	18.43	0				86.23	18.37	0	NT	NT	NT	82.93	18.38	0
27-Jan-14	83.55	18.45	0				86.23	18.37	0	NT	NT	NT	82.93	18.38	0
28-Jan-14	83.56	18.44	0				86.25	18.35	0	102.52	18.38	0	82.94	18.37	0
29-Jan-14	83.56	18.44	0				86.22	18.38	0	NT	NT	NT	82.94	18.37	0
30-Jan-14	83.53	18.47	0				86.21	18.39	0	NT	NT	NT	82.93	18.38	0
31-Jan-14	83.53	18.47	0				86.19	18.41	0	NT	NT	NT	82.88	18.43	0
3-Feb-14	83.54	18.46	0				86.20	18.40	0	NT	NT	NT	82.91	18.40	0
4-Feb-14	83.54	18.46	0				86.20	18.40	0	NT	NT	NT	82.89	18.42	0
10-Feb-14	84.49	17.51	0				86.16	18.44	0	102.47	18.43	0	82.83	18.48	0
24-Feb-14	83.54	18.46	0				86.24	18.36	0	102.47	18.43	0	82.97	18.34	0
4-Mar-14*	NT	NT	NT				NT	NT	NT	NT	NT	NT	NT	NT	NT
13-Mar-14*	NT	NT	NT				NT	NT	NT	NT	NT	NT	NT	NT	NT
28-Mar-14	83.76	18.24	0				86.42	18.18	0	102.65	18.25	0	83.18	18.13	0
7-Apr-14*	83.42	18.58	0				86.43	18.17	0	NT	NT	NT	83.21	18.10	0
21-Apr-14	83.93	18.07	0				86.58	18.02	0	102.80	18.10	0	83.27	18.04	0
8-May-14*	84.03	17.97	0				86.68	17.92	0	NT	NT	NT	83.46	17.85	0
22-May-14*	83.81	18.19	0				86.47	18.13	0	NT	NT	NT	83.15	18.16	0
27-May-14	83.91	18.09	0				86.60	18.00	0	102.85	18.05	0	83.31	18.00	0
10-Jun-14*	83.93	18.07	0				86.55	18.05	0	NT	NT	NT	83.34	17.97	0
23-Jun-14	84.06	17.94	0				86.72	17.88	0	103.99	16.91	0	83.54	17.77	0
21-Jul-14	84.13	17.87	0				86.80	17.80	0	102.98	17.92	0	83.49	17.82	0
27-Aug-14	84.01	17.99	0				86.65	17.95	0	102.87	18.03	0	83.04	18.27	0
25-Sep-14	84.64	17.36	0				87.27	17.33	0	103.51	17.39	0	84.10	17.21	0
28-Oct-14	83.79	18.21	0				86.51	18.09	0	102.78	18.12	0	83.21	18.10	0
20-Nov-14	83.87	18.13	0				86.56	18.04	0	102.78	18.12	0	83.35	17.96	0
23-Dec-14	83.67	18.33	0				86.37	18.23	0	102.64	18.26	0	83.05	18.26	0
28-Jan-15	83.63	18.37	0				86.35	18.25	0	102.63	18.27	0	83.03	18.28	0
27-Feb-15	83.68	18.32	0				86.28	18.32	0	102.52	18.38	0	83.06	18.25	0
26-Mar-15	83.83	18.17	0				86.04	18.56	0	102.79	18.11	0	83.24	18.07	0
21-Apr-15	84.33	17.67	0				86.97	17.63	0	103.18	17.72	0	83.72	17.59	0
28-May-15	84.29	17.71	0				86.97	17.63	0	103.24	17.66	0	83.95	17.36	0
25-Jun-15	84.58	17.42	0				87.28	17.32	0	103.57	17.33	0	83.75	17.56	0

Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
21-Jul-15	84.58	17.42	0				87.24	17.36	0	103.44	17.46	0	83.76	17.55	0
27-Aug-15	84.44	17.56	0				87.13	17.47	0	103.41	17.49	0	83.69	17.62	0
23-Sep-15	84.26	17.74	0				86.94	17.66	0	103.21	17.69	0	83.63	17.68	0
20-Oct-15	84.00	18.00	0				86.38	18.22	0	103.38	17.52	0	Obstructed	NT	NT
18-Nov-15	84.25	17.75	0				86.93	17.67	0	103.24	17.66	0	84.62[2]	16.69	0
17-Dec-15	83.76	18.24	0				86.36	18.24	0	102.56	18.34	0	83.18	18.13	0
20-Jan-16	83.31	18.69	0				85.97	18.63	0	102.21	18.69	0	Obstructed	NT	NT
17-Feb-16	83.17	18.83	0				85.81	18.79	0	102.10	18.80	0	Obstructed	NT	NT
15-Mar-16	82.89	19.11	0				85.60	19.00	0	101.82	19.08	0	82.26	19.05	0
20-Apr-16	82.97	19.03	0				85.63	18.97	0	101.91	18.99	0	82.31	19.00	0
23-May-16	83.14	18.86	0				85.81	18.79	0	102.03	18.87	0	82.50	18.81	0
21-Jun-16	83.16	18.84	0				85.77	18.83	0	102.03	18.87	0	82.54	18.77	0
20-Jul-16	83.32	18.68	0				85.99	18.61	0	102.31	18.59	0	82.63	18.68	0
23-Aug-16	83.27	18.73	0				85.96	18.64	0	102.20	18.70	0	82.63	18.68	0
21-Sep-16	83.13	18.87	0				85.74	18.86	0	102.06	18.84	0	82.44	18.87	0
19-Oct-16	83.01	18.99	0				85.69	18.91	0	101.95	18.95	0	82.39	18.92	0
17-Nov-16	82.92	19.08	0				85.56	19.04	0	101.82	19.08	0	82.24	19.07	0
20-Dec-16	82.67	19.33	0				85.36	19.24	0	101.61	19.29	0	82.01	19.30	0
31-Jan-17	82.45	19.55	0				85.13	19.47	0	101.46	19.44	0	82.04	19.27	0
22-Feb-17	82.37	19.63	0				85.01	19.59	0	101.31	19.59	0	81.72	19.59	0
24-Mar-17	82.49	19.51	0				85.19	19.41	0	101.45	19.45	0	81.84	19.47	0
20-Apr-17	82.59	19.41	0				85.25	19.35	0	101.5	19.40	0	81.94	19.37	0
26-May-17	82.45	19.55	0				85.13	19.47	0	101.39	19.51	0	81.80	19.51	0
22-Jun-17	82.94	19.06	0				85.59	19.01	0	101.89	19.01	0	82.30	19.01	0
21-Jul-17	83.43	18.57	0				86.5	18.10	0	Transducer Installed	NT	NT	82.81	18.50	0
20-Mar-18	83.56	18.44	0				86.24	18.36	0	102.55	18.35	0	82.89	18.42	0
25-Apr-18	83.47	18.53	0				86.14	18.46	0	102.38	18.52	0	82.86	18.45	0
22-May-18	83.61	18.39	0				86.29	18.31	0	102.56	18.34	0	82.97	18.34	0
20-Jun-18	83.63	18.37	0				86.34	18.26	0	102.57	18.33	0	82.99	18.32	0
25-Jul-18	83.55	18.45	0				86.33	18.27	0	102.58	18.32	0	82.90	18.41	0
21-Aug-18	Transducer Installed	NT	NT				86.32	18.28	0	102.58	18.32	0	Transducer Installed	NT	NT
30-Oct-18	82.64	19.36	0				85.34	19.26	0	101.58	19.32	0	81.99	19.32	0
24-Jan-19	82.30	19.70	0				84.96	19.64	0	101.22	19.68	0	81.66	19.65	0

Red Hill Oil/Water Interface Measurements January 2014 to Present

	RHMW01			RHMW01R			RHMW02			RHMW03			RHMW05		
	Elevation = 101.9955 ft[1]			Elevation = 101.7570 ft			Elevation = 104.5970 ft[1]			Elevation = 120.8980 ft[1]			Elevation = 101.3102 ft[1]		
Date	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL	DTW (TOC)	SWL	LNAPL
26-Apr-19	82.45	19.55	0				85.18	19.42	0	101.41	19.49	0	81.88	19.43	0
29-Jul-19	82.67	19.33	0				85.34	19.26	0	101.57	19.33	0	82.06	19.25	0
29-Oct-19	83.15	18.85	0				85.84	18.76	0	102.19	18.71	0	82.09	19.22	0
31-Jan-20	Obstructed	NT	0				85.88	18.72	0	102.17	18.73	0	82.52	18.79	0
23-Apr-20	82.93	19.07	0				85.68	18.92	0	101.82	19.08	0	82.27	19.04	0
24-Jul-20	83.28	18.72	0				85.94	18.66	0	102.13	18.77	0	82.63	18.68	0
15-Oct-20	83.69	18.31	0				86.39	18.21	0	102.56	18.34	0	83.12	18.19	0
27-Jan-21	83.53	18.47	0				86.23	18.37	0	102.46	18.44	0	82.87	18.44	0
22-Apr-21	83.85	18.15	0				86.53	18.07	0	102.72	18.18	0	83.26	18.05	0
20-May-21	84.00	18.00	0				Obstructed	NT	NT	Obstructed	NT	NT	83.42	17.89	0
16-Jun-21	84.10	17.90	0				86.79	17.81	0	102.99	17.91	0	83.53	17.78	0
16-Jul-21	84.14	17.86	0				86.89	17.71	0	103.11	17.79	0	83.62	17.69	0
20-Aug-21				84.06	17.70	0	85.96	18.64	0	103.17	17.73	0	83.67	17.64	0
17-Sep-21				84.14	17.62	0	87.02	17.58	0	103.22	17.68	0	83.79	17.52	0
15-Oct-21				84.17	17.59	0	87.06	17.54	0	103.26	17.64	0	83.80	17.51	0
19-Nov-21				84.26	17.50	0	87.12	17.48	0	103.32	17.58	0	83.89	17.42	0
17-Dec-21				83.31	18.45	0	86.22	18.38	0	102.45	18.45	0	82.94	18.37	0
14-Jan-22				82.90	18.86	0	85.78	18.82	0	102.01	18.89	0	82.49	18.82	0
18-Feb-22				83.23	18.53	0	86.11	18.49	0	102.32	18.58	0	82.85	18.46	0
18-Mar-22				83.30	18.46	0	86.21	18.39	0	102.43	18.47	0	82.90	18.41	0
22-Apr-22[3]	83.40	18.60	0				86.16	18.44	0	104.26	16.64	0	82.85	18.46	0
19-May-22				83.20	18.56	0	86.10	18.50	0	102.35	18.55	0	82.80	18.51	0
17-Jun-22				83.27	18.49	0	86.18	18.42	0	102.39	18.51	0	82.90	18.41	0
15-Jul-22				83.44	18.32	0	86.35	18.25	0	102.57	18.33	0	83.07	18.24	0
19-Aug-22				83.64	18.12	0	86.53	18.07	0	102.75	18.15	0	83.24	18.07	0
16-Sep-22				83.82	17.94	0	87.45	17.15	0	102.90	18.00	0	83.44	17.87	0
20-Oct-22				83.85	17.91	0	86.72	17.88	0	102.95	17.95	0	83.85	17.46	0
21-Nov-22				83.59	18.17	0	86.73	17.87	0	102.96	17.94	0	83.50	17.81	0
20-Dec-22				83.67	18.09	0	85.58	19.02	0	102.8	18.10	0	83.30	18.01	0
17-Jan-23				85.53	16.23	0	82.62	21.98	0	102.9	18.00	0	83.30	18.01	0

Notes:
1 - Elevations updated based on Well Elevation Survey Report, Red Hill Bulk Fuel Storage Facility (DON 2018)
2 - Dedicated groundwater pump obstructing path of interface meter probe; Depth measured based on elevation of water when pump removed from well (RHMW05)
3 - Measurement taken at RHMW01 versus RHMW01R in error
January 2014 to August 2015, Measurements recorded by Environmental Science International from unless otherwise noted
From September 2015, Measurements recorded by Element Environmental, LLC
* - Measurements recorded by NAVFAC HI.
All units in feet (ft).
DTW (TOC) - depth to water from top of well casing
LNAPL - light non-aqueous phase liquid
or NT - measurement not taken
SWL - static water level

Appendix B.2.2 – Summary of NOI Free Product Gauging and Monitoring Well Headspace Measurements for the May 2021 Release from May 12 through November 24, 2021

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2022

	RHMW01									RHMW01R								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	15:53	2.2	0.1	83.64	N-1	-0.01	83.63	No	NA
2021-05-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:50	1.3	0.3	83.85[c]	01-5920	0	83.85c	No	NA
2021-05-15	11:11	5.158	3.902	83.97	NA	NA	83.97	No	NA	11:03	5.158	0.378	83.76	NA	NA	83.76	No	NA
2021-05-16	11:05	4.463	3.508	83.87	NA	NA	83.87	No	NA	11:10	4.463	0	83.63	NA	NA	83.63	No	NA
2021-05-17	13:10	5.415	5.100	83.96	NA	NA	83.96	No	NA	13:04	5.170	0	83.73	NA	NA	83.73	No	NA
2021-05-18	13:07	2.53	2.15	83.95	NA	NA	83.95	No	NA	13:04	2.53	0	83.74	NA	NA	83.74	No	NA
2021-05-19	08:56	2.482	2.165	83.99	NA	NA	83.99	No	NA	08:59	2.482	0.200	83.78	NA	NA	83.78	No	NA
2021-05-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	14:00	0.3	0.0	83.71	N-1	-0.01	83.70	No	NA
2021-05-20	09:39	1.476	1.290	84.00	NA	NA	84.00	No	NA	09:42	1.476	0.204	NM	NM	NM	NM	NA	NA
2021-05-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:30	1.7	0.2	83.81	N-1	-0.01	83.80	No	NA
2021-05-21	07:24	1.562	1.378	84.03	NA	NA	84.03	No	NA	07:22	1.562	NM	NM	NA	NA	NM	NA	NA
2021-05-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	15:00	0.2	0.4	83.81	311836	NA	83.81[c]	No	NA
2021-05-22	07:45	3.440	3.202	84.05	NA	NA	84.05	No	NA	07:50	3.440	0.227	83.84	NA	NA	83.84	No	NA
2021-05-23	06:26	1.322	1.188	83.96	NA	NA	83.96	No	NA	06:30	1.322	0.295	83.75	NA	NA	83.75	No	NA
2021-05-24	08:00	1.333	1.171	83.89	NA	NA	83.89	No	NA	08:04	1.333	0	83.66	NA	NA	83.66	No	NA
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	11:00	0.1	0.0	83.70	N-1	-0.01	83.69	No	NA
2021-05-25	08:42	1.023	0.829	83.96	NA	NA	83.96	No	NA	08:44	1.023	0.096	83.74	NA	NA	83.74	No	NA
2021-05-25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-26	07:24	1.898	1.697	83.95	NA	NA	83.95	No	NA	08:32	1.0	0.1	83.73	N-1	-0.01	83.72	No	NA
2021-05-27	10:08	3.978	2.650	84.03	NA	NA	84.03	No	NA	10:13	3.978	0	83.79	NA	NA	83.79	No	NA
2021-05-27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-28	09:12	3.146	2.117	84.03	NA	NA	84.03	No	NA	08:30	0.6	0.0	83.77	N-1	-0.01	83.76	No	NA
2021-05-29	07:47	3.188	2.736	84.01	NA	NA	84.01	No	NA	07:47	3.188	0.590	83.78	NA	NA	83.78	No	NA
2021-05-30	06:46	1.143	1.029	84.02	NA	NA	84.02	No	NA	06:47	1.143	0.064	83.81	NA	NA	83.81	No	NA
2021-05-31	11:03	1.006	0.668	84.02	NA	NA	84.02	No	NA	08:05	0.0	0.0	83.77	N-1	-0.01	83.76	No	NA
2021-06-01	06:41	0.850	0.605	84.02	NA	NA	84.02	No	NA	06:39	0.850	0.200	83.81	NA	NA	83.81	No	NA
2021-06-02	06:08	1.008	0.580	84	NA	NA	84.00	No	NA	08:33	0.2	0.1	83.79	N-1	-0.01	83.78	No	NA
2021-06-03	08:39	2.507	1.855	84.04	NA	NA	84.04	No	NA	08:37	2.507	0.925	83.83	NA	NA	83.83	No	NA
2021-06-04	08:54	1.202	0.831	83.98	NA	NA	83.98	No	NA	09:30	0.1	0.2	83.76	N-1	-0.01	83.75	No	NA
2021-06-05	13:09	0.633	0.277	83.89	NA	NA	83.89	No	NA	13:10	0.633	0	83.67	NA	NA	83.67	No	NA
2021-06-06	07:18	0.686	0.574	83.97	NA	NA	83.97	No	NA	07:23	0.686	0.193	83.77	NA	NA	83.77	No	NA
2021-06-07	08:05	0.677	0.497	84.00	NA	NA	84.00	No	NA	08:04	0.0	0.0	83.72	N-1	-0.01	83.71	No	NA
2021-06-08	07:42	0.814	0.709	83.96	NA	NA	83.96	No	NA	07:50	0.814	0.285	83.78	NA	NA	83.78	No	NA
2021-06-09	08:14	0.889	0.737	84.03	NA	NA	84.03	No	NA	09:45	0.1	0.2	83.81	N-1	-0.01	83.80	No	NA
2021-06-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	08:00	0.0	0.2	83.82	N-1	-0.01	83.81	No	NA
2021-06-17	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:45	0.0	0.0	83.88	N-1	-0.01	83.87	No	NA
2021-06-24	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:00	0.2	0.1	83.83	N-1	-0.01	83.82	No	NA
2021-06-28	09:26	1.694	1.483	84.08	NA	NA	84.08	No	NA	09:23	1.699	0.475	83.87	NA	NA	83.87	No	NA
2021-06-30	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	08:43	0.3	0.2	83.85	N-1	-0.01	83.84	No	NA
2021-07-06	14:24	0.773	0.197	83.97	NA	NA	83.97	No	NA	14:18	0.773	0	83.75	NA	NA	83.75	No	NA
2021-07-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:20	0.1	0.2	83.91	N-1	-0.01	83.90	No	NA
7/12/2021 (see note)	08:56	19.010	19.680	84.15	NA	NA	84.15	No	NA	09:01	19.110	0.569	83.92	NA	NA	83.92	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:05	0.0	0.1	83.96	N-1	-0.01	83.95	No	NA
2021-07-19	13:22	0.960	0.385	84.15	NA	NA	84.15	No	NA	13:25	0.960	0	83.93	NA	NA	83.93	No	NA
2021-07-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:08	0.1	0.2	84.04	N-1	-0.01	84.03	No	NA
2021-07-26	07:45	0.338	0	83.91	NA	NA	83.91	No	NA	07:41	0.338	0.215	84.12	NA	NA	84.12	No	NA
2021-07-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	11:05	0.0	0	83.98	N-1	-0.01	83.97	No	NA
2021-08-02	NC	NC	NC	NC3	NC3	NC3	NC3	NC3	NC3	09:36	1.451	0.737	83.95	NA	NA	83.95	No	NA
2021-08-05	07:10	0.11 (see note)	0.038 (see note)	NC3	NC3	NC3	NC3	NC3	NC3	09:55	0.0	0.0	84.03	N-1	-0.01	84.02	No	NA
2021-08-09	07:35	0.315	0.318	NC3	NC3	NC3	NC3	NC3	NC3	07:27	0.315	0.115	83.95	NA	NA	83.95	No	NA
2021-08-12	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:33	0.0	0.0	84.07	N-1	-0.01	84.06	No	NA
2021-08-16	11:39	0.418	0.386	NC3	NC3	NC3	NC3	NC3	NC3	11:42	0.419	0.423	84.11	NA	NA	84.11	No	NA
2021-08-19	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:50	0.1	0.2	84.02	N-1	-0.01	84.01	No	NA
2021-08-23	15:15	0.795	0.746	NC3	NC3	NC3	NC3	NC3	NC3	15:20	0.800	0	83.90	NA	NA	83.90	No	NA
2021-08-26	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:50	0.0	0.0	84.01	N-1	-0.01	84.00	No	NA
2021-08-30	10:51	1.032	0.93	NC3	NC3	NC3	NC3	NC3	NC3	10:54	1.027	0.500	83.99	NA	NA	83.99	No	NA
2021-09-01	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:30	0.0	1.4	84.09	N-1	-0.01	84.08	No	NA
2021-09-07	12:10	0.135	0.107	NC3	NC3	NC3	NC3	NC3	NC3	12:01	0.131	0 (see note)	84.00	NA	NA	84.00	No	NA
2021-09-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:35	0.0	0.1	84.09	N-1	-0.01	84.08	No	NA
2021-09-13	10:58	0.195	0.181	NC3	NC3	NC3	NC3	NC3	NC3	10:55	0.187	0	83.91	NA	NA	83.91	No	NA
2021-09-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:05	0.1	0.1	84.03	N-1	-0.01	84.02	No	NA
2021-09-20	NC	NC	NC	NC3	NC3	NC3	NC3	NC3	NC3	08:57	0.412	0	83.99	NA	NA	83.99	No	NA
2021-09-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:52	0.1	0.1	83.98	N-1	-0.01	83.97	No	NA
2021-09-23	09:38	0.267	0.207	NC3	NC3	NC3	NC3	NC3	NC3	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	08:02	0.120	0.125	NC3	NC3	NC3	NC3	NC3	NC3	08:01	0.120	0 (see note)	84.07	NA	NA	84.07	No	NA
2021-09-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	09:52	0.0	0.0	84.11	N-1	-0.01	84.10	No	NA
2021-10-04	15:24	0.956	0.952	NC3	NC3	NC3	NC3	NC3	NC3	15:20	0.997	0	83.93	NA	NA	83.93	No	NA
2021-10-06	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:00	0.0	0.1	84.06	N-1	-0.01	84.05	No	NA
2021-10-12	12:11	0.139	0.129	NC3	NC3	NC3	NC3	NC3	NC3	12:19	0.140	0.093	84.11	NA	NA	84.11	No	NA
2021-10-13	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	10:30	0.1	0.2	84.09	N-1	-0.01	84.08	No	NA
2021-10-20	10:28	0.0	0.0	84.37	N-1	-0.01	84.36	No	NA	10:59	0.0	0.1	84.14	N-1	-0.01	84.13	No	NA
2021-10-27	09:35	0.1	0.1	84.42	N-1	-0.01	84.41	No	NA	09:33	0.1	0.1	84.19	N-1	-0.01	84.18	No	NA
2021-11-03	10:20	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	10:30	0.1	0.2	84.19	N-1	-0.01	84.18	No	NA
2021-11-10	11:40	0.0	0.1	NC3	NC3	NC3	NC3	NC3	NC3	11:43	0.0	0.0	84.16	N-1	-0.01	84.15	No	NA
2021-11-17	11:35	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	11:38	0.0	0.1	84.16	N-1	-0.01	84.15	No	NA
2021-11-24	10:05	0.0	0.0	NC3	NC3	NC3	NC3	NC3	NC3	10:03	0.0	0.0	84.29	N-1	-0.01	84.28	No	NA
2021-12-01	10:40	0.2	0.2	NC3	NC3	NC3	NC3	NC3	NC3	*	*	*	*	*	*	*	*	*
2021-12-08	10:53	0.1	0.1	NC3	NC3	NC3	NC3	NC3	NC3	*	*	*	*	*	*	*	*	*

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

	RHMW02									RHMW03								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-13	10:00	1.1	0.1	86.69	N-1	-0.07	86.62	No	NA	10:30	0.8	0.1	103.23	N-2	-0.05	103.18	No	NA
2021-05-15	11:23	4.833	0.594	86.66	NA	-0.06	86.60	No	NA	11:28	3.985	0.413	102.88	NA	-0.04	102.84	No	NA
2021-05-16	11:23	4.054	0	86.57	NA	-0.06	86.51	No	NA	11:43	3.548	0.036	102.79	NA	-0.04	102.75	No	NA
2021-05-17	13:28	7.511	0.174	86.62	NA	-0.06	86.56	No	NA	13:36	3.314	0.280	102.83	NA	-0.04	102.79	No	NA
2021-05-18	13:15	5.056	0	86.66	NA	-0.06	86.60	No	NA	13:24	0.965	0	102.87	NA	-0.04	102.83	No	NA
2021-05-19	09:07	1.926	0.270	86.68	NA	-0.06	86.62	No	NA	09:17	1.149	0.105	102.94	NA	-0.04	102.90	No	NA
2021-05-19	16:00	0.1	0.0	86.67	N-1	-0.07	86.60	No	NA	16:20	0.1	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-05-20	09:47	1.040	0.180	NM	NM	NM	NM	NA	NA	11:28	0.811	0.068	NM	NM	NM	NM	NA	NA
2021-05-20	10:15	0.7	0.0	86.68	N-1	-0.07	86.61	No	NA	12:10	1.1	0.0	102.89	N-1	-0.05	102.84	No	NA
2021-05-21	10:56	1.339	0.202	86.74	NA	-0.06	86.68	No	NA	10:48	0.689	0.181	102.95	NA	-0.04	102.91	No	NA
2021-05-21	15:40	0.1	0.1	86.72	311836	-0.06	86.66[c]	No	NA	16:22	0.1	0	102.94	311836	-0.04	102.9[c]	No	NA
2021-05-22	09:45	3.386	0.590	86.73	NA	-0.06	86.67	No	NA	12:46	4.060	0.507	102.97	NA	-0.04	102.93	No	NA
2021-05-23	07:37	0.948	0.063	86.66	NA	-0.06	86.60	No	NA	09:43	0.595	0.113	102.86	NA	-0.04	102.82	No	NA
2021-05-24	09:05	1.076	0.140	86.59	NA	-0.06	86.53	No	NA	11:29	2.228	0.370	102.87	NA	-0.04	102.83	No	NA
2021-05-24	12:45	0.3	0.1	86.64	N-1	-0.07	86.57	No	NA	NC1	NC1	NC1	NC1	NC1	N1	NC1	NC1	NC1
2021-05-25	10:01	0.945	16.19 (see note)	86.65	NA	-0.06	86.59	No	NA	11:53	2.09	0.552	102.88	NA	-0.04	102.84	No	NA
2021-05-25	12:51	1.291	0.295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	14:40	0.0	0.0	102.85			102.85	No	NA
2021-05-26	10:38	3.2	0.3	86.66	N-1	-0.07	86.59	No	NA	14:00	0.1	0.0	102.86	N-1	-0.05	102.81	No	NA
2021-05-27	11:25	5.484	14.43 (see note)	86.71	NA	-0.06	86.65	No	NA	13:24	0.400	0	102.93	NA	-0.04	102.89	No	NA
2021-05-27	11:25	-	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021-05-28	11:00	2.5	0.3	86.67	N-1	-0.07	86.60	No	NA	14:05	0.4	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-05-29	09:24	2.890	0.640	86.69	NA	-0.06	86.63	No	NA	11:42	2.451	0.746	102.93	NA	-0.04	102.89	No	NA
2021-05-30	07:45	1.930	0.335	86.72	NA	-0.06	86.66	No	NA	09:54	1.372	0.881	102.98	NA	-0.04	102.94	No	NA
2021-05-31	09:39	0.0	0.0	86.68	N-1	-0.07	86.61	No	NA	11:19	0.1	0.0	102.91	N-1	-0.05	102.86	No	NA
2021-06-01	07:38	0.776	0.800	86.77	NA	-0.06	86.71	No	NA	09:43	0.428	0.212	102.97	NA	-0.04	102.93	No	NA
2021-06-02	10:17	0.3	0.1	86.74	N-1	-0.07	86.67	No	NA	11:54	0.2	0.0	102.95	N-1	-0.05	102.90	No	NA
2021-06-03	09:39	2.434	0.897	86.74	NA	-0.06	86.68	No	NA	11:36	2.784	1.295	102.83	NA	-0.04	102.79	No	NA
2021-06-04	10:50	0.7	0.2	86.66	N-1	-0.07	86.59	No	NA	11:57	0.6	0.2	102.98	N-1	-0.05	102.93	No	NA
2021-06-05	14:15	0.292	0	86.60	NA	-0.06	86.54	No	NA	16:01	0	0	102.95	NA	-0.04	102.91	No	NA
2021-06-06	08:37	0.582	0.237 (see note)	86.66	NA	-0.06	86.60	No	NA	10:50	0.466	0.233	102.84	NA	-0.04	102.80	No	NA
2021-06-07	09:18	0.2	0.4	86.63	N-1	-0.07	86.56	No	NA	10:20	0.2	0.0	102.90	N-1	-0.05	102.85	No	NA
2021-06-08	08:55	1.321	0.464	86.69	NA	-0.06	86.63	No	NA	11:17	1.818	7.300	102.85	NA	-0.04	102.81	No	NA
2021-06-09	10:44	0.1	0.0	86.70	N-1	-0.07	86.63	No	NA	11:31	0.0	0.0	103.02	N-1	-0.05	102.97	No	NA
2021-06-11	09:00	0.2	0.0	86.74	N-1	-0.07	86.67	No	NA	09:55	0.0	0.0	102.97	N-1	-0.05	102.92	No	NA
2021-06-17	10:45	0.0	0.2	86.79	N-1	-0.07	86.72	No	NA	12:06	0.0	0.0	103.00	N-1	-0.05	102.95	No	NA
2021-06-24	11:00	0.0	0.0	86.76	N-1	-0.07	86.69	No	NA	12:00	0.3	5.1	102.98	N-1	-0.05	102.93	No	NA
2021-06-28	09:48	1.485	3.354	86.76	NA	-0.06	86.70	No	NA	10:58	1.280	11.000	102.98	NA	-0.04	102.94	No	NA
2021-06-30	10:18	0.0	0.4	86.67	N-1	-0.07	86.60	No	NA	12:58	0.0	0.0	103.26	N-1	-0.05	103.21	No	NA
2021-07-06	14:30	0.594	0	86.67	NA	-0.06	86.61	No	NA	15:22	0.055	0	102.88	NA	-0.04	102.84	No	NA
2021-07-08	11:51	0	0.4	86.81	N-1	-0.07	86.74	No	NA	12:53	0.1	0.0	103.07	N-1	-0.05	103.02	No	NA
7/12/2021 (see note)	09:16	16.280	0.351	86.83	NA	-0.06	86.77	No	NA	10:08	1.032	0.131	103.10	NA	-0.04	103.06	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	11:00	0.0	0.9	86.87	N-1	-0.07	86.80	No	NA	12:15	0.0	0.0	103.19	N-1	-0.05	103.14	No	NA
2021-07-19	13:39	0.450	0	86.85	NA	-0.06	86.79	No	NA	14:36	0.316	0	102.46	NA	-0.04	102.42	No	NA
2021-07-22	11:03	0.1	0.5	86.92	N-1	-0.07	86.85	No	NA	11:58	0.1	1.4	103.31	N-1	-0.05	103.26	No	NA
2021-07-26	07:53	0.205	0.483 (see note)	86.83	NA	-0.06	86.77	No	NA	08:07	0.058	0	102.93	NA	-0.04	102.89	No	NA
2021-07-29	12:18	0.0	0.5	86.90	N-1	-0.07	86.83	No	NA	13:22	0.2	1.4	103.11	N-1	-0.05	103.06	No	NA
2021-08-02	10:49	1.282	0.652	86.89	NA	-0.06	86.83	No	NA	10:36	1.086	0.331	103.00	NA	-0.04	102.96	No	NA
2021-08-05	11:00	0.0	0.3	86.93	N-1	-0.07	86.86	No	NA	12:03	0.0	0.6	103.16	N-1	-0.05	103.11	No	NA
2021-08-09	07:40	0.256	1.276 (see note)	86.48	NA	-0.06	86.42	No	NA	08:06	0.198	0.054	103.90	NA	-0.04	103.86	No	NA
2021-08-12	10:35	0.0	0.8	86.96	N-1	-0.07	86.89	No	NA	11:42	0.0	0.1	103.17	N-1	-0.05	103.12	No	NA
2021-08-16	12:22	0.321	0.214 (see note)	86.98	NA	-0.06	86.92	No	NA	12:10	0.338	0	103.22	NA	-0.04	103.18	No	NA
2021-08-19	11:20	0.2	0.3	86.95	N-1	-0.07	86.88	No	NA	12:20	0.1	0.1	103.18	N-1	-0.05	103.13	No	NA
2021-08-23	15:40	0.773	22.640	86.83	NA	-0.06	86.77	No	NA	16:12	0.834	0.113	103.04	NA	-0.04	103.00	No	NA
2021-08-26	11:17	0.0	0.2	86.88	N-1	-0.07	86.81	No	NA	12:25	0.0	2.0	103.11	N-1	-0.05	103.06	No	NA
2021-08-30	11:04	1.062	0.362 (see note)	86.91	NA	-0.06	86.85	No	NA	11:12	1.156	0.215	103.11	NA	-0.04	103.07	No	NA
2021-09-01	10:42	0.0	0.2	86.97	N-1	-0.07	86.90	No	NA	11:45	0.0	0.2	103.17	N-1	-0.05	103.12	No	NA
2021-09-07	12:22	0.061	0.137 (see note)	86.93	NA	-0.06	86.87	No	NA	12:38	0.02	0.245	103.24	NA	-0.04	103.20	No	NA
2021-09-08	11:25	0.0	0.4	86.97	N-1	-0.07	86.90	No	NA	13:05	0.0	0.0	103.10	N-1	-0.05	103.05	No	NA
2021-09-13	11:16	0.137	1.03 (see note)	86.84	NA	-0.06	86.78	No	NA	11:29	0.108	0.157	103.07	NA	-0.04	103.03	No	NA
2021-09-15	13:00	0.1	1.2	86.89	N-1	-0.07	86.82	No	NA	13:57	0.1	0.1	103.16	N-1	-0.05	103.11	No	NA
2021-09-20	09:08	0.061	1.241	86.95	NA	-0.06	86.89	No	NA	10:02	0.030	0.049	103.3	NA	-0.04	103.26	No	NA
2021-09-22	11:25	0.1	0.4	86.88	N-1	-0.07	86.81	No	NA	12:40	0.0	0.0	103.12	N-1	-0.05	103.07	No	NA
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	08:10	0.068	0.868 (see note)	87.01	NA	-0.06	86.95	No	NA	08:20	0.057	0.157	103.17	NA	-0.04	103.13	No	NA
2021-09-29	11:00	0.0	0.3	86.94	N-1	-0.07	86.87	No	NA	11:40	0.0	0.0	103.14	N-1	-0.05	103.09	No	NA
2021-10-04	15:30	0.459	0	86.89	NA	-0.06	86.83	No	NA	15:52	0.060	0	103.12	NA	-0.04	103.08	No	NA
2021-10-06	11:10	0.1	1.9	86.98	N-1	-0.07	86.91	No	NA	12:45	0.0	0.1	103.18	N-1	-0.05	103.13	No	NA
2021-10-12	12:28	0.078	0	87.03	NA	-0.06	86.97	No	NA	13:30	0.142	0.042	103.19	NA	-0.04	103.15	No	NA
2021-10-13	11:40	0.1	1.2	87.04	N-1	-0.07	86.97	No	NA	12:40	0.2	0.1	103.22	N-1	-0.05	103.17	No	NA
2021-10-20	12:20	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	13:48	0.0	0.0	103.22	N-1	-0.05	103.17	No	NA
2021-10-27	10:27	0.5	3.1	87.09	N-1	-0.07	87.02	No	NA	11:18	0.1	0.1	103.28	N-1	-0.05	103.23	No	NA
2021-11-03	11:27	0.1	0.0	87.04	N-1	-0.07	86.97	No	NA	12:35	0.0	0.1	103.23	N-1	-0.05	103.18	No	NA
2021-11-10	13:38	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	15:17	0.0	0.0	103.28	N-1	-0.05	103.23	No	NA
2021-11-17	13:23	0.0	0.0	87.04	N-1	-0.07	86.97	No	NA	15:05	0.0	0.0	103.29	N-1	-0.05	103.24	No	NA
2021-11-24	11:08	0.0	0.0	87.15	N-1	-0.07	87.08	No	NA	12:10	0.0	0.0	103.37	N-1	-0.05	103.32	No	NA
2021-12-01	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*
2021-12-08	*	*	*	*	*	*	*	*	*	*	*	*	*	*		*	*	*

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

	RHMW05								
DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[b] (ft btoc)	(Yes/No)	(ft)
2021-05-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-15	10:48	5.094	0.345	83.38	NA	-0.01	83.37	No	NA
2021-05-16	10:49	4.753	0	83.24	NA	-0.01	83.23	No	NA
2021-05-17	13:18	5.601	0.140	83.33	NA	-0.01	83.32	No	NA
2021-05-18	12:56	2.174	0	83.39	NA	-0.01	83.38	No	NA
2021-05-19	08:48	2.556	0.260	83.48	NA	-0.01	83.47	No	NA
2021-05-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-20	09:31	1.622	0.130	83.42	NA	-0.01	83.41	No	NA
2021-05-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-21	07:17	1.456	0.080	83.44	NA	-0.01	83.43	No	NA
2021-05-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-22	07:34	3.525	0.152	83.44	NA	-0.01	83.43	No	NA
2021-05-23	06:20	1.419	0.146	83.36	NA	-0.01	83.35	No	NA
2021-05-24	07:52	1.395	0	83.27	NA	-0.01	83.26	No	NA
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-25	08:35	1.074	0.113	83.36	NA	-0.01	83.35	No	NA
2021-05-25	-	-	-	-	-	-	-	-	-
2021-05-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-26	07:17	1.983	0.055	83.34	NA	-0.01	83.33	No	NA
2021-05-27	10:02	5.871	0	83.43	NA	-0.01	83.42	No	NA
2021-05-27	-	-	-	-	-	-	-	-	-
2021-05-28	09:07	3.167	0	83.42	NA	-0.01	83.41	No	NA
2021-05-29	07:38	2.992	0.056	83.42	NA	-0.01	83.41	No	NA
2021-05-30	06:38	1.205	0	83.42	NA	-0.01	83.41	No	NA
2021-05-31	10:58	0.955	0.0	83.42	NA	-0.01	83.41	No	NA
2021-06-01	06:29	1.003	0	83.44	NA	-0.01	83.43	No	NA
2021-06-02	06:02	1.05	0	83.4	N-1	-0.02	83.38	No	NA
2021-06-03	08:19	2.369	0.092	83.45	NA	-0.01	83.44	No	NA
2021-06-04	08:42	1.155	0.184	83.39	NA	-0.01	83.38	No	NA
2021-06-05	12:53	0.723	0	83.25	NA	-0.01	83.24	No	NA
2021-06-06	07:03	0.836	0	83.36	NA	-0.01	83.35	No	NA
2021-06-07	07:53	0.743	0	83.37	NA	-0.01	83.36	No	NA
2021-06-08	07:31	0.950	0	83.36	NA	-0.01	83.35	No	NA
2021-06-09	08:01	1.042	0	83.41	NA	-0.01	83.40	No	NA
2021-06-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-17	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-06-24	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-06-28	09:02	1.683	0	83.5	NA	-0.01	83.49	No	NA
2021-06-30	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-06	14:04	0.689	0	83.33	NA	-0.01	83.32	No	NA
2021-07-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
7/12/2021 (see note)	08:48	23.860	0	83.54	NA	-0.01	83.53	No	NA

Table B.2.2: Summary of Free Product Gauging and Monitoring Well Headspace Measurements for the May 6 Release from May 12 through November 24, 2021 (cont'd)

2021-07-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-19	13:10	1.361	0	83.55	NA	-0.01	83.54	No	NA
2021-07-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-07-26	07:29	0.332	0	83.55	NA	-0.01	83.54	No	NA
2021-07-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-02	09:25	1.311	0.141	83.61	NA	-0.01	83.60	No	NA
2021-08-05	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-09	07:14	0.278	0	83.58	NA	-0.01	83.57	No	NA
2021-08-12	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-16	11:27	0.407	0	83.77	NA	-0.01	83.76	No	NA
2021-08-19	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-23	14:50	0.799	0	83.51	NA	-0.01	83.50	No	NA
2021-08-26	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-08-30	10:44	0.976	0	83.56	NA	-0.01	83.55	No	NA
2021-09-01	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-07	11:50	0.106	0	83.64	NA	-0.01	83.63	No	NA
2021-09-08	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-13	10:40	0.152	0	83.52	NA	-0.01	83.51	No	NA
2021-09-15	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-20	08:50	0.135	0	83.63	NA	-0.01	83.62	No	NA
2021-09-22	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-09-23	NC	NC	NC	NC	NC	NC	NC	NC	NC
2021-09-27	07:47	0.105	0	83.64	NA	-0.01	83.63	No	NA
2021-09-29	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2	NC2
2021-10-04	15:10	1.231	0	83.52	NA	-0.01	83.51	No	NA
2021-10-06	08:50	0.0	0.0	83.68	N-1	-0.02	83.66	No	NA
2021-10-12	12:06	0.125	0	83.74	NA	-0.01	83.73	No	NA
2021-10-13	09:05	0.1	0.1	83.71	N-1	-0.02	83.69	No	NA
2021-10-20	08:57	0.0	0.0	83.78	N-1	-0.02	83.76	No	NA
2021-10-27	08:30	0.1	0.0	83.84	N-1	-0.02	83.82	No	NA
2021-11-03	09:23	0.0	0.0	83.80	N-1	-0.02	83.78	No	NA
2021-11-10	09:50	0.0	0.0	83.79	N-1	-0.02	83.77	No	NA
2021-11-17	10:18	0.1	0.0	83.77	N-1	-0.02	83.75	No	NA
2021-11-24	08:55	0.0	0.0	83.93	N-1	-0.02	83.91	No	NA
2021-12-01	*	*	*	*	*	*	*	*	*
2021-12-08	*	*	*	*	*	*	*	*	*

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

NA = Not applicable

NM = No measurement taken, due to equipment installed in well.

ppmv = parts-per-million, volume

NC - Not collected

NC1 - Not collected due to headspace and fuel product gauging occurring only where groundwater sampling was being conducted.

NC2 - Not collected - monitoring well not being sampled for groundwater in the DOH Transition Plan.

NC3 - Fuel product gauging not conducted at RHMW01 per email correspondence from DOH on 7/27/2021

* - See next tab for continuation of results

[a] Ants around RHMW04. Team sprayed isopropyl alcohol in order to get ants off lid. Reading was high due to residual alcohol.

[b] Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter and well. Solinst N-1 and Solinst N-2 water level corrections are forthcoming and will be included once available. Table includes depths taken by subcontractor Element. Depths recorded by Element do not hape water level meter corrections that can be applied. Well displacement corrections are applied to depths taken by Element. meters calibrated by USGS, calibrations published in the "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. RHMW02, RHMW03, and RHMW05 have well displacement corrections. RHMW01R well displacement

[c] measured with oil/water probe

Notes:

5/25/2021: Initial headspace reading at RHMW02 was unusually high. No signs of fuel product (sheen or odor) were observed during fuel product gauging. Returned to verify headspace reading and it was significantly lower, as shown in the second set of results.

5/27/2021: Initial headspace reading at RHMW02 was ~14.43 ppmv, but dropped to 0.156 ppmv. No fuel product measured.

6/6/2021: Immediate headspace reading was 3.316 ppmv, but dropped quickly to value recorded.

7/12/2021 Strong background chemical odor related to contractor work at Tank 13.

7/26/2021: Initial headspace reading was ~11.33 ppmv, but dropped quickly to 0.483 ppmv. No fuel product measured.

8/5/2021: Headspace and breathing zone PID readings taken at RHMW01 due to inadvertently being excluded on 8/2/2021.

8/9/2021: Initial headspace reading was ~22.35 ppm, but dropped quickly to value recorded.

8/16/2021: Initial headspace reading was 7.621 ppm, but dropped quickly to value recorded.

8/30/2021: Initial headspace reading was 5.032 ppm, but dropped to value recorded.

9/7/2021: Initial headspace reading at RHMW01R was 0.910 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 4.521 ppm, but dropped to value recorded.

9/13/2021: Initial headspace reading at RHMW01R was ~14.1 ppm, but dropped to value recorded.

9/27/2021: Initial headspace reading at RHMW01R was 0.600 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 5.806 ppm, with strong sulfur odor, but dropped to value recorded.

Additional Sampling 09/29/2021-10/04/2021

Well Name	Date	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	Raw DTW (ft btoc)	WLM SN	Correction Factor (ft)	Corrected DTW[b] (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)
RHMW05	2021-09-29	08:50	0.0	0.0	83.66	N-1	-0.02	83.64	No	NA
RHMW19	9-30-2021	09:05	0.0	0.0	427.30	N-2	-0.06	427.24	No	NA
RHMW10	9-30-2021	11:17	0.0	0.0	478.33	N-2	-0.15	478.18	No	NA
RHMW09	9-30-2021	12:50	0.0	0.0	378.32	N-2	-0.29	378.03	No	NA
RHMW08	9-30-2021	14:35	0.0	0.0	293.14	N-2	-0.07	293.07	No	NA
RHMW04	2021-10-01	08:25	0.0	9.0[(1)]	294.59	N-2	-0.06	294.53	No	NA
RHMW06	2021-10-01	10:00	0.0	0.0	241.76	N-2	-0.04	241.72	No	NA
RHMW16	2021-10-01	11:25	0.0	0.0	202.46	N-2	-0.03	202.43	No	NA
OWDFMW01	2021-10-01	12:38	0.0	0.0	120.70	N-2	-0.05	120.65	No	NA
RHMW12A	2021-10-04	09:04	0.0	0.1	221.41	N-2	-0.03	221.38	No	NA

Appendix B.2.3 – Summary of NOI and Delineation Well Free Product Gauging and Monitoring Well Headspace Measurements from November 28, 2021 through February 3, 2023

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW01R									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	10:35	0.2	0.0	83.83	N-1	-0.01	83.82	No	NA
2021-12-05	12/8/2021	10:52	0.1	0.3	83.45	N-1	-0.01	83.44	No	NA
2021-12-13	12/15/2021	13:00	0.0	0.1	83.28	N-1	-0.01	83.27	No	NA
2021-12-20	12/20/2021	11:03	0.0	0.0	83.20	N-1	-0.01	83.19	No	NA
2021-12-27	12/27/2021	11:23	0.2	9.8	83.18	N-1	-0.01	83.17	No	NA
2022-01-03	2022-01-03	11:35	0.0	287.7	82.99	N-1	-0.01	82.98	No	NA
2022-01-10	2022-01-10	11:35	0.0	0.0	82.86	N-1	-0.01	82.85	No	NA
2022-01-16	2022-01-17	11:13	0.0	0.0	82.77	N-1	-0.01	82.76	No	NA
2022-01-24	2022-01-24	12:16	0.2	0.1	82.83	N-1	-0.01	82.82	No	NA
2022-01-31	2022-02-03	09:08	0.1	0.0	83.23	N-1	-0.01	83.22	Yes[c]	0.01[c]
2022-02-07	2022-02-10	08:55	0.0	0.0	83.21	N-2	-0.02	83.19	No	NA
2022-02-14	2022-02-16	11:08	0.4	0.0	83.25	N-2	-0.02	83.23	No	NA
2022-02-21	2022-02-23	08:50	0.0	0.0	83.26	N-1	-0.01	83.25	No	NA
2022-02-28	2022-03-02	11:27	0.0	0.0	83.28[b]	01-5920	0.00	83.28[b]	Yes[c]	0.01[c]
2022-03-07	2022-03-08	08:48	0.0	0.0	83.31	N-3	-0.05	83.26	No	NA
2022-03-14	2022-03-15	10:05	0.0	0.0	83.36	N-4	-0.08	83.28	No	NA
2022-03-21	2022-03-22	09:50	0.0	0.0	83.32	N-3	-0.05	83.27	No	NA
2022-03-28	2022-03-31	11:45	0.0	0.0	83.31	N-4	-0.08	83.23	No	NA
2022-04-04	2022-04-05	09:47	0.2	0.0	83.26	N-4	-0.08	83.18	No	NA
2022-04-25	2022-04-26	09:45	0.0	0.0	83.28	N-4	-0.08	83.20	No	NA
2022-05-02	2022-05-03	09:45	0.1	0.0	83.27	N-4	-0.08	83.19	No	NA
2022-05-09	2022-05-09	08:50	0.4	0.0	83.27	N-4	-0.08	83.19	No	NA
2022-05-16	2022-05-17	09:45	0.0	0.0	83.23	N-3	-0.05	83.18	No	NA
2022-05-23	2022-05-24	09:20	0.0	0.0	83.24	N-4	-0.08	83.16	No	NA
2022-05-30	2022-05-31	10:33	0.0	0.0	83.24	N-4	-0.08	83.16	No	NA
2022-06-06	2022-06-07	09:41	0.0	0.0	83.30	N-3	-0.05	83.25	No	NA
2022-06-13	2022-06-14	09:45	0.1	0.0	83.31	N-3	-0.05	83.26	No	NA
2022-06-20	2022-06-21	10:05	0.0	0.0	83.31	N-1	-0.01	83.30	No	NA
2022-06-27	2022-06-29	09:18	0.1	0.0	83.43	N-4	-0.08	83.35	No	NA
2022-07-04	2022-07-06	09:35	0.2	0.0	83.42	N-4	-0.08	83.34	No	NA
2022-07-11	2022-07-12	09:36	0.2	0.0	83.49	N-4	-0.08	83.41	No	NA
2022-08-01	2022-08-02	10:20	0.0	0.0	83.57	N-4	-0.08	83.49	No	NA
2022-08-08	2022-08-09	09:37	0.0	0.0	83.64	N-4	-0.08	83.56	No	NA
2022-08-15	2022-08-16	09:34	0.1	0.0	83.65	N-4	-0.08	83.57	No	NA
2022-08-22	2022-08-23	09:55	0.0	0.0	83.72	N-4	-0.08	83.64	No	NA
2022-08-29	2022-08-30	10:25	0.0	0.0	83.81	N-4	-0.08	83.73	No	NA
2022-09-06	2022-09-06	11:15	0.1	0.0	83.76	N-3	-0.05	83.71	No	NA
2022-09-12	2022-09-13	10:20	0.1	0.2	83.82	N-3	-0.05	83.77	No	NA
2022-09-19	2022-09-20	11:25	0.1	0.0	83.79	01-8854	-0.07	83.72[j]	No	NA
2022-09-26	2022-09-27	10:55	0.0	0.0	83.78	N-3	-0.05	83.73	No	NA
2022-10-03	2022-10-04	09:52	0.1	0.1	83.85	N-4	-0.08	83.77	No	NA
2022-10-17	2022-10-18	10:23	0.0	0.0	83.84	N-3	-0.05	83.79	No	NA
2022-10-17	2022-10-20	10:09	0.0	0.2	83.85	N-4	-0.08	83.77	No	NA
2022-10-24	2022-10-25	15:15	0.0	0.0	83.85	N-3	-0.05	83.80	No	NA
2022-10-24	2022-10-27	11:45	0.0	0.0	83.78	N-3	-0.05	83.73	No	NA
2022-10-31	2022-11-01	09:45	0.0	0.0	83.81	N-6	-0.06	83.75	No	NA
2022-10-31	2022-11-03	09:55	0.0	0.0	83.87	N-3	-0.05	83.82	No	NA
2022-11-07	2022-11-08	09:58	0.0	0.0	83.71	N-3	-0.05	83.66	No	NA
2022-11-07	2022-11-10	10:00	0.0	0.0	83.78	N-3	-0.05	83.73	No	NA
2022-11-14	2022-11-15	10:03	0.0	0.0	83.87	N-3	-0.05	83.82	No	NA
2022-11-14	2022-11-17	09:05	0.0	0.0	83.82	N-6	-0.06	83.76	No	NA
2022-11-19	2022-11-20	09:48	0.0	0.0	83.75	N-5	0.00	83.75	No	NA
2022-11-19	2022-11-22	09:30	0.0	0.0	83.83	N-3	-0.05	83.78	No	NA
2022-11-28	2022-11-29	09:45	0.1	0.0	83.69	N-6	-0.06	83.63	No	NA
2022-12-19	2022-12-20	10:49	0.0	0.0	83.63	N-5	0.00	83.63	No	NA
2022-12-26	2022-12-28	09:53	0.0	0.0	83.72	N-5	0.00	83.72	No	NA
2023-01-02	2023-01-04	09:28	0.0	0.0	83.69	N-5	0.00	83.69	No	NA
2023-01-09	2023-01-10	09:46	0.0	0.0	83.78	N-3	-0.05	83.73	No	NA
2023-01-16	2023-01-17	10:25	0.0	0.0	83.72	N-5	0.00	83.72	No	NA
2023-01-23	2023-01-24	10:27	0.1	0.0	83.84	N-4	-0.08	83.76	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW02									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	12:02	0.0	0.0	86.75	N-1	-0.07	86.68	No	NA
2021-12-05	12/8/2021	12:12	0.0	0.2	86.41	N-1	-0.07	86.34	No	NA
2021-12-13	12/15/2021	14:08	0.0	0.0	86.19	N-1	-0.07	86.12	No	NA
2021-12-20	12/20/2021	12:18	0.0	0.0	86.12	N-1	-0.07	86.05	No	NA
2021-12-27	12/27/2021	13:30	0.0	31.8[a]	86.08	N-1	-0.07	86.01	No	NA
2022-01-03	1/3/2022	12:55	0.0	74.1	85.87	N-1	-0.07	85.80	No	NA
2022-01-10	2022-01-10	13:37	0.0	0.0	85.76	N-1	-0.07	85.69	No	NA
2022-01-16	2022-01-17	12:26	0.0	0.0	85.68	N-1	-0.07	85.61	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	13:15	0.2	0.0	86.19[b]	01-5920	-0.06	86.13[b]	No	NA
2022-03-07	2022-03-08	09:56	0.0	0.0	86.22	N-3	-0.11	86.11	No	NA
2022-03-14	2022-03-15	11:35	0.0	0.0	86.26	N-4	-0.14	86.12	No	NA
2022-03-21	2022-03-22	11:15	0.0	0.0	86.23	N-3	-0.11	86.12	No	NA
2022-03-28	2022-03-31	10:40	0.0	0.0	86.23	N-4	-0.14	86.09	No	NA
2022-04-04	2022-04-05	11:20	0.0	0.0	86.16	N-4	-0.14	86.02	No	NA
2022-04-25	2022-04-26	10:50	0.0	0.0	86.18	N-4	-0.14	86.04	No	NA
2022-05-02	2022-05-03	11:05	0.0	0.0	86.18	N-4	-0.14	86.04	No	NA
2022-05-09	2022-05-09	12:05	0.0	0.0	86.15	N-4	-0.14	86.01	No	NA
2022-05-16	2022-05-17	10:55	0.0	0.0	86.14	N-3	-0.11	86.03	No	NA
2022-05-23	2022-05-24	10:25	0.0	0.0	86.14	N-4	-0.14	86.00	No	NA
2022-05-30	2022-05-31	11:48	0.0	0.0	86.13	N-4	-0.14	85.99	No	NA
2022-06-06	2022-06-07	10:48	0.0	0.0	86.15	N-3	-0.11	86.04	No	NA
2022-06-13	2022-06-14	10:55	0.0	0.0	86.22	N-3	-0.11	86.11	No	NA
2022-06-20	2022-06-21	11:20	0.0	0.0	86.18	N-1	-0.07	86.11	No	NA
2022-06-27	2022-06-29	10:12	0.0	0.0	86.34	N-4	-0.14	86.20	No	NA
2022-07-04	2022-07-06	10:30	0.0	0.0	86.36	N-4	-0.14	86.22	No	NA
2022-07-11	2022-07-12	10:51	0.0	0.0	86.40	N-4	-0.14	86.26	No	NA
2022-08-01	2022-08-02	11:25	0.0	0.0	86.50	N-4	-0.14	86.36	No	NA
2022-08-08	2022-08-09	11:02	0.0	0.0	86.54	N-4	-0.14	86.40	No	NA
2022-08-15	2022-08-16	10:46	0.0	0.0	86.54	N-4	-0.14	86.40	No	NA
2022-08-22	2022-08-23	11:00	0.0	0.0	86.63	N-4	-0.14	86.49	No	NA
2022-08-29	2022-08-30	11:40	0.0	0.0	86.70	N-4	-0.14	86.56	No	NA
2022-09-06	2022-09-06	12:40	0.1	0.0	86.65	N-3	-0.11	86.54	No	NA
2022-09-12	2022-09-13	11:15	0.0	0.4	86.66	N-3	-0.11	86.55	No	NA
2022-09-19	2022-09-20	10:08	0.0	0.0	86.72	01-8854	-0.12	86.60[j]	No	NA
2022-09-26	2022-09-27	12:08	0.0	0.0	86.69	N-3	-0.11	86.58	No	NA
2022-10-03	2022-10-04	11:37	0.1	0.1	86.75	N-4	-0.14	86.61	No	NA
2022-10-17	2022-10-18	11:37	0.0	0.0	86.73	N-3	-0.11	86.62	No	NA
2022-10-17	2022-10-20	11:58	0.0	0.1	86.74	N-4	-0.14	86.60	No	NA
2022-10-24	2022-10-25	16:30	0.0	0.0	86.76	N-3	-0.11	86.65	No	NA
2022-10-24	2022-10-27	12:05	0.0	0.0	86.69	N-3	-0.11	86.58	No	NA
2022-10-31	2022-11-01	11:05	0.0	0.4	86.70	N-6	-0.12	86.58	No	NA
2022-10-31	2022-11-03	11:15	0.0	0.0	86.75	N-3	-0.11	86.64	No	NA
2022-11-07	2022-11-08	11:00	0.0	0.1	86.63	N-3	-0.11	86.52	No	NA
2022-11-07	2022-11-10	11:09	0.1	0.0	86.67	N-3	-0.11	86.56	No	NA
2022-11-14	2022-11-15	11:20	0.0	0.0	86.70	N-3	-0.11	86.59	No	NA
2022-11-14	2022-11-17	09:57	0.0	0.0	86.71	N-6	-0.11	86.60	No	NA
2022-11-19	2022-11-20	10:45	0.0	0.3	86.67	N-5	-0.06	86.61	No	NA
2022-11-19	2022-11-22	10:15	0.0	0.0	86.73	N-3	-0.11	86.62	No	NA
2022-11-28	2022-11-29	10:35	0.1	0.0	86.60	N-6	-0.11	86.49	No	NA
2022-12-19	2022-12-20	11:45	0.0	0.0	86.54	N-5	-0.06	86.48	No	NA
2022-12-26	2022-12-28	11:02	0.0	0.0	86.56	N-5	-0.06	86.50	No	NA
2023-01-02	2023-01-04	10:26	0.0	0.0	86.61	N-5	-0.06	86.55	No	NA
2023-01-09	2023-01-10	10:48	0.0	0.0	86.69	N-3	-0.11	86.58	No	NA
2023-01-16	2023-01-17	11:32	0.0	0.0	86.61	N-5	-0.06	86.55	No	NA
2023-01-23	2023-01-24	11:33	0.0	0.0	86.74	N-4	-0.14	86.60	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW03									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	13:12	0.0	0.0	103.02	N-1	-0.05	102.97	No	NA
2021-12-05	12/8/2021	13:17	0.0	8.1	102.66	N-1	-0.05	102.61	No	NA
2021-12-13	12/15/2021	15:32	0.0	0.0	102.43	N-1	-0.05	102.38	No	NA
2021-12-20	12/20/2021	13:52	0.0	16.1	102.35	N-1	-0.05	102.30	No	NA
2021-12-27	12/27/2021	15:36	0.3	422.3[a]	102.31	N-1	-0.05	102.26	No	NA
2022-01-03	2022-01-03	14:20	0.0	322.9	102.10	N-1	-0.05	102.05	No	NA
2022-01-10	2022-01-10	15:11	0.0	0.0	102.01	N-1	-0.05	101.96	No	NA
2022-01-16	2022-01-17	13:34	0.0	0.0	101.92	N-1	-0.05	101.87	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	14:55	0.0	0.0	102.41[b]	01-5920	-0.04	102.37[b]	No	NA
2022-03-07	2022-03-08	11:10	0.0	0.0	102.42	N-3	-0.10	102.32	No	NA
2022-03-14	2022-03-15	12:30	0.0	0.0	102.48	N-4	-0.13	102.35	No	NA
2022-03-21	2022-03-22	12:15	0.0	0.0	102.46	N-3	-0.10	102.36	No	NA
2022-03-28	2022-03-31	08:30	0.0	0.0	102.46	N-4	-0.13	102.33	No	NA
2022-04-04	2022-04-05	12:23	0.0	0.0	102.41	N-4	-0.13	102.28	No	NA
2022-04-25	2022-04-26	12:00	0.0	0.0	102.41	N-4	-0.13	102.28	No	NA
2022-05-02	2022-05-03	12:25	0.0	0.0	102.41	N-4	-0.13	102.28	No	NA
2022-05-09	2022-05-09	13:30	0.0	0.0	102.39	N-4	-0.13	102.26	No	NA
2022-05-16	2022-05-17	11:50	0.0	0.0	102.37	N-3	-0.10	102.27	No	NA
2022-05-23	2022-05-24	11:11	0.0	0.0	102.39	N-4	-0.13	102.26	No	NA
2022-05-30	2022-05-31	12:37	0.0	0.1	102.39	N-4	-0.13	102.26	No	NA
2022-06-06	2022-06-07	11:44	0.0	0.0	102.37	N-3	-0.10	102.27	No	NA
2022-06-13	2022-06-14	12:00	0.0	0.0	102.49	N-3	-0.10	102.39	No	NA
2022-06-20	2022-06-21	12:10	0.0	0.0	102.40	N-1	-0.05	102.35	No	NA
2022-06-27	2022-06-29	11:08	0.0	0.0	102.79	N-4	-0.13	102.66	No	NA
2022-07-04	2022-07-06	11:18	0.0	0.0	102.57	N-4	-0.13	102.44	No	NA
2022-07-11	2022-07-12	11:42	0.0	0.0	102.62	N-4	-0.13	102.49	No	NA
2022-08-01	2022-08-02	12:18	0.0	0.0	102.70	N-4	-0.13	102.57	No	NA
2022-08-08	2022-08-09	12:33	0.0	0.0	102.76	N-4	-0.13	102.63	No	NA
2022-08-15	2022-08-16	11:40	0.0	0.0	102.80	N-4	-0.13	102.67	No	NA
2022-08-22	2022-08-23	12:12	0.0	0.0	102.85	N-4	-0.13	102.72	No	NA
2022-08-29	2022-08-30	13:00	0.0	0.0	102.92	N-4	-0.13	102.79	Yes[i]	0.0
2022-09-06	2022-09-06	13:45	0.1	18.0	102.85	N-3	-0.10	102.75	No	NA
2022-09-12	2022-09-13	12:16	0.0	2.7	102.88	N-3	-0.10	102.78	No	NA
2022-09-19	2022-09-20	08:35	0.0	5.6	102.95	01-8854	-0.13	102.82[j]	No	NA
2022-09-26	2022-09-27	13:50	0.0	0.0	102.90	N-3	-0.10	102.80	No	NA
2022-10-03	2022-10-04	12:41	0.1	1.3	102.97	N-4	-0.13	102.84	No	NA
2022-10-17	2022-10-18	12:37	0.0	0.0	102.92	N-3	-0.10	102.82	No	NA
2022-10-17	2022-10-20	12:57	0.0	0.0	102.96	N-4	-0.13	102.83	No	NA
2022-10-24	2022-10-25	17:32	0.0	0.0	103.00	N-3	-0.10	102.90	No	NA
2022-10-24	2022-10-27	13:12	0.0	0.0	102.91	N-3	-0.10	102.81	No	NA
2022-10-31	2022-11-01	12:45	0.0	0.0	102.93	N-6	-0.10	102.83	No	NA
2022-10-31	2022-11-03	12:32	0.0	0.4	102.95	N-3	-0.10	102.85	No	NA
2022-11-07	2022-11-08	11:55	0.0	0.0	102.85	N-3	-0.10	102.75	No	NA
2022-11-07	2022-11-10	12:20	0.0	0.0	102.88	N-3	-0.10	102.78	No	NA
2022-11-14	2022-11-15	12:20	0.0	0.0	102.96	N-3	-0.10	102.86	No	NA
2022-11-14	2022-11-17	10:45	0.0	0.0	102.95	N-6	-0.10	102.85	No	NA
2022-11-19	2022-11-20	11:40	0.0	0.0	102.88	N-5	-0.05	102.83	No	NA
2022-11-19	2022-11-22	11:03	0.0	0.0	102.95	N-3	-0.10	102.85	No	NA
2022-11-28	2022-11-29	11:20	0.0	0.0	102.81	N-6	-0.10	102.71	No	NA
2022-12-19	2022-12-20	12:42	0.0	0.0	102.76	N-5	-0.05	102.71	No	NA
2022-12-26	2022-12-28	11:53	0.0	0.0	102.77	N-5	-0.05	102.72	No	NA
2023-01-02	2023-01-04	11:23	0.0	0.0	102.83	N-5	-0.05	102.78	No	NA
2023-01-09	2023-01-10	11:38	0.0	0.0	102.93	N-3	-0.10	102.83	No	NA
2023-01-16	2023-01-17	12:22	0.0	0.0	102.84	N-5	-0.05	102.79	No	NA
2023-01-23	2023-01-24	12:34	0.0	0.0	102.98	N-4	-0.13	102.85	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW04									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-04	09:55	0.0	0.0	293.51	N-2	-0.07	293.44	No	NA
2022-01-10	2022-01-14	09:15	0.0	0.0	293.42	N-2	-0.07	293.35	No	NA
2022-01-16	2022-01-16	13:00	1.9	2.0	293.29	N-1	-0.05	293.24	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	10:35	0.1	0.0	293.90[b]	16HF	-0.05	293.84[b]	No	NA
2022-03-07	2022-03-07	13:30	0.1	0.0	293.69	N-4	-0.16	293.53	No	NA
2022-03-14	2022-03-14	10:55	0.0	0.0	293.76	N-4	-0.16	293.60	No	NA
2022-03-21	2022-03-23	09:30	0.0	0.0	293.74	N-4	-0.16	293.58	No	NA
2022-03-28	2022-03-30	09:00	0.1	0.1	293.71	N-4	-0.16	293.55	No	NA
2022-04-04	2022-04-06	08:43	0.0	0.0	293.69	N-4	-0.16	293.53	No	NA
2022-04-25	2022-04-25	13:55	0.0	0.0	293.65	N-4	-0.16	293.49	No	NA
2022-05-02	2022-05-04	10:45	0.0	0.0	293.63	N-4	-0.16	293.47	No	NA
2022-05-09	2022-05-11	12:25	0.0	0.0	293.41	N-4	-0.16	293.25	No	NA
2022-05-16	2022-05-16	12:40	0.0	0.0	293.59	N-3	-0.12	293.47	No	NA
2022-05-23	2022-05-23	11:15	0.0	0.0	293.62	N-4	-0.16	293.46	No	NA
2022-05-30	2022-06-03	08:00	0.0	0.0	293.61	N-3	-0.12	293.49	No	NA
2022-06-06	2022-06-08	09:35	0.0	0.0	293.61	N-3	-0.12	293.49	No	NA
2022-06-13	2022-06-15	08:00	0.0	0.0	293.62	N-3	-0.12	293.50	No	NA
2022-06-20	2022-06-22	09:37	0.0	0.0	293.70	N-3	-0.12	293.58	No	NA
2022-06-27	2022-06-30	08:13	0.0	0.0	293.85	N-4	-0.16	293.69	No	NA
2022-07-04	2022-07-08	12:28	0.0	0.0	293.85	N-4	-0.16	293.69	No	NA
2022-07-11	2022-07-14	08:08	0.0	0.0	293.89	N-4	-0.16	293.73	No	NA
2022-08-01	2022-08-03	08:05	0.0	0.0	293.99	N-4	-0.16	293.83	No	NA
2022-08-08	2022-08-10	07:50	0.0	0.0	294.05	N-4	-0.16	293.89	No	NA
2022-08-15	2022-08-17	08:00	0.0	0.0	294.09	N-4	-0.16	293.93	No	NA
2022-08-22	2022-08-24	10:30	0.0	0.0	294.12	N-4	-0.16	293.96	No	NA
2022-08-29	2022-08-31	08:05	0.0	0.0	294.19	N-4	-0.16	294.03	No	NA
2022-09-06	2022-09-09	07:30	0.0	0.0	294.14	N-4	-0.16	293.98	No	NA
2022-09-12	2022-09-14	07:40	0.0	0.0	294.17	N-3	-0.12	294.05	No	NA
2022-09-19	2022-09-23	08:00	0.0	0.0	294.32	01-8854	-0.25	294.07[j]	No	NA
2022-09-26	2022-09-28	11:43	0.0	0.0	294.10	N-5	-0.05	294.05	No	NA
2022-10-03	2022-10-05	08:05	0.0	0.0	294.28	N-4	-0.16	294.12	No	NA
2022-10-17	2022-10-17	08:03	0.1	0.4	294.20	N-5	-0.05	294.15	No	NA
2022-10-17	2022-10-19	08:10	0.0	0.0	294.28	N-3	-0.12	294.16	No	NA
2022-10-24	2022-10-24	12:25	0.0	0.0	294.21	N-6	-0.11	294.10	No	NA
2022-10-24	2022-10-26	08:00	0.0	0.0	294.27	N-6	-0.11	294.16	No	NA
2022-10-31	2022-10-31	08:05	0.0	0.0	294.19	N-5	-0.05	294.14	No	NA
2022-10-31	2022-11-02	07:40	0.0	0.0	294.27	N-6	-0.11	294.16	No	NA
2022-11-07	2022-11-07	13:10	0.0	0.0	293.96	N-5	-0.05	293.91	No	NA
2022-11-07	2022-11-09	12:07	0.0	0.0	294.12	N-3	-0.12	294.00	No	NA
2022-11-14	2022-11-14	07:40	0.0	0.0	294.23	N-3	-0.12	294.11	No	NA
2022-11-14	2022-11-16	08:10	0.0	0.0	294.25	N-3	-0.12	294.13	No	NA
2022-11-19	2022-11-19	10:19	0.0	0.0	294.30	N-4	-0.16	294.14	No	NA
2022-11-19	2022-11-21	07:25	0.0	0.0	294.21	N-5	-0.05	294.16	No	NA
2022-11-28	2022-11-30	10:19	0.0	0.0	294.12	N-5	-0.05	294.07	No	NA
2022-12-19	2022-12-23	12:09	0.0	0.0	294.12	N-3	-0.12	294.00	No	NA
2022-12-26	2022-12-30	11:45	0.0	0.3	294.07	N-5	-0.05	294.02	No	NA
2023-01-02	2023-01-06	11:16	0.0	0.0	294.15	N-5	-0.05	294.10	No	NA
2023-01-09	2023-01-13	07:50	0.0	0.0	294.31	N-3	-0.12	294.19	No	NA
2023-01-16	2023-01-20	08:10	0.0	0.0	294.20	N-5	-0.05	294.15	No	NA
2023-01-23	2023-01-25	10:30	0.0	0.0	294.32	N-4	-0.16	294.16	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW05									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	09:34	0.0	0.0	83.41	N-1	-0.02	83.39	No	NA
2021-12-05	12/8/2021	09:22	0.5	2.2	83.02	N-1	-0.02	83.00	No	NA
2021-12-13	12/15/2021	11:20	0.0	0.0	82.86	N-1	-0.02	82.84	No	NA
2021-12-20	12/20/2021	09:15	0.0	0.0	82.86	N-1	-0.02	82.84	No	NA
2021-12-27	12/27/2021	09:04	0.2	1.7	82.76	N-1	-0.02	82.74	No	NA
2022-01-03	2022-01-03	09:12	0.0	105.7	82.56	N-1	-0.02	82.54	No	NA
2022-01-10	2022-01-10	08:50	0.0	0.0	82.42	N-1	-0.02	82.40	No	NA
2022-01-16	2022-01-17	09:40	0.0	0.0	82.36	N-1	-0.02	82.34	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	09:30	0.0	0.0	82.95[b]	01-5920	-0.01	82.94[b]	No	NA
2022-03-07	2022-03-08	07:55	0.0	0.0	82.90	N-3	-0.06	82.84	No	NA
2022-03-14	2022-03-15	08:55	0.0	0.0	82.97	N-4	-0.09	82.88	No	NA
2022-03-21	2022-03-22	08:50	0.2	0.0	82.99	N-3	-0.06	82.93	No	NA
2022-03-28	2022-03-31	09:35	0.1	0.0	82.92	N-4	-0.09	82.83	No	NA
2022-04-04	2022-04-05	08:45	0.2	0.0	82.86	N-4	-0.09	82.77	No	NA
2022-04-25	2022-04-26	08:40	0.0	0.0	82.90	N-4	-0.09	82.81	No	NA
2022-05-02	2022-05-03	08:35	0.1	0.0	82.87	N-4	-0.09	82.78	No	NA
2022-05-09	2022-05-10	09:25	0.0	1.0	82.93	N-4	-0.09	82.84	No	NA
2022-05-16	2022-05-17	08:42	0.0	0.0	82.85	N-3	-0.06	82.79	No	NA
2022-05-23	2022-05-24	08:18	0.1	0.0	82.85	N-4	-0.09	82.76	No	NA
2022-05-30	2022-05-31	09:27	0.0	0.0	82.85	N-4	-0.09	82.76	No	NA
2022-06-06	2022-06-07	08:34	0.0	0.0	82.87	N-3	-0.06	82.81	No	NA
2022-06-13	2022-06-14	08:47	0.0	0.0	82.92	N-3	-0.06	82.86	No	NA
2022-06-20	2022-06-21	08:50	0.0	0.0	82.94	N-1	-0.02	82.92	No	NA
2022-06-27	2022-06-29	08:20	0.1	0.0	83.05	N-4	-0.09	82.96	No	NA
2022-07-04	2022-07-06	08:40	0.1	0.0	83.04	N-4	-0.09	82.95	No	NA
2022-07-11	2022-07-12	08:43	0.2	0.0	83.10	N-4	-0.09	83.01	No	NA
2022-08-01	2022-08-02	09:20	0.0	0.0	83.18	N-4	-0.09	83.09	No	NA
2022-08-08	2022-08-09	08:45	0.1	0.0	83.24	N-4	-0.09	83.15	No	NA
2022-08-15	2022-08-16	08:25	0.1	0.0	83.27	N-4	-0.09	83.18	No	NA
2022-08-22	2022-08-23	08:58	0.0	0.0	83.34	N-4	-0.09	83.25	No	NA
2022-08-29	2022-08-30	09:00	0.0	0.0	83.42	N-4	-0.09	83.33	No	NA
2022-09-06	2022-09-06	10:00	0.0	0.0	83.38	N-3	-0.06	83.32	No	NA
2022-09-12	2022-09-13	09:15	0.0	0.0	83.43	N-3	-0.06	83.37	No	NA
2022-09-19	2022-09-20	13:15	0.1	0.0	83.40	01-8854	-0.06	83.34[j]	No	NA
2022-09-26	2022-09-27	09:33	0.0	0.0	83.40	N-3	-0.06	83.34	No	NA
2022-10-03	2022-10-04	08:50	0.0	0.0	83.52	N-4	-0.09	83.43	No	NA
2022-10-17	2022-10-18	08:59	0.0	0.0	83.45	N-3	-0.06	83.39	No	NA
2022-10-17	2022-10-20	08:58	0.0	0.1	83.47	N-4	-0.09	83.38	No	NA
2022-10-24	2022-10-25	13:50	0.0	0.0	83.47	N-3	-0.06	83.41	No	NA
2022-10-24	2022-10-27	10:00	0.0	0.0	83.42	N-4	-0.09	83.33	No	NA
2022-10-31	2022-11-01	08:40	0.1	0.0	83.44	N-6	-0.07	83.37	No	NA
2022-10-31	2022-11-03	08:40	0.0	0.0	83.49	N-3	-0.06	83.43	No	NA
2022-11-07	2022-11-08	08:57	0.0	0.1	83.32	N-3	-0.06	83.26	No	NA
2022-11-07	2022-11-10	08:31	0.3	0.2	83.45	N-3	-0.06	83.39	No	NA
2022-11-14	2022-11-15	08:50	0.0	0.0	83.43	N-3	-0.06	83.37	No	NA
2022-11-14	2022-11-17	08:15	0.0	0.0	83.42	N-6	-0.06	83.36	No	NA
2022-11-19	2022-11-20	08:52	0.1	0.1	83.36	N-5	-0.01	83.35	No	NA
2022-11-19	2022-11-22	08:39	0.2	0.0	83.41	N-3	-0.06	83.35	No	NA
2022-11-28	2022-11-29	08:50	0.0	0.0	83.31	N-6	-0.06	83.25	No	NA
2022-12-19	2022-12-20	09:37	0.1	0.0	83.24	N-5	-0.01	83.23	No	NA
2022-12-26	2023-12-28	08:50	0.0	0.0	83.27	N-5	-0.01	83.26	No	NA
2023-01-02	2023-01-04	08:30	0.0	0.0	83.30	N-5	-0.01	83.29	No	NA
2023-01-09	2023-01-10	08:31	0.0	0.0	83.47	N-3	-0.06	83.41	No	NA
2023-01-16	2023-01-17	09:23	0.0	0.0	83.34	N-5	-0.01	83.33	No	NA
2023-01-23	2023-01-24	09:20	0.0	0.0	83.45	N-4	-0.09	83.36	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW06									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/13/2021	12:45	0.0	0.0	241.03	N-2	-0.05	240.98	No	NA
2021-12-20	12/21/2021	15:50	0.0	0.0	240.72	N-1	-0.03	240.69	No	NA
2021-12-27	12/28/2021	07:55	0.0	0.6	240.93	N-2	-0.05	240.88	No	NA
2022-01-03	2022-01-04	07:45	0.0	0.0	240.39	N-2	-0.05	240.34	No	NA
2022-01-10	2022-01-11	08:15	0.0	0.0	240.43	N-2	-0.05	240.38	No	NA
2022-01-16	2022-01-18	11:45	0.0	0.1	240.29	N-1	-0.03	240.26	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-02-28	10:50	0.0	0.0	240.64	N-1	-0.03	240.61	No	NA
2022-03-07	2022-03-07	10:15	0.1	0.2	240.74	N-4	-0.15	240.59	No	NA
2022-03-14	2022-03-16	12:15	0.1	0.1	240.72	N-4	-0.15	240.57	No	NA
2022-03-21	2022-03-23	08:00	0.0	0.0	240.74	N-4	-0.15	240.59	No	NA
2022-03-28	2022-03-30	07:30	0.0	0.0	240.71	N-4	-0.15	240.56	No	NA
2022-04-04	2022-04-04	11:40	0.0	0.0	240.90	N-4	-0.15	240.75	No	NA
2022-04-25	2022-04-25	11:30	0.0	0.0	240.87	N-4	-0.15	240.72	No	NA
2022-05-02	2022-05-04	08:25	0.0	0.0	240.85	N-4	-0.15	240.70	No	NA
2022-05-09	2022-05-11	10:25	0.0	0.0	240.83	N-4	-0.15	240.68	No	NA
2022-05-16	2022-05-16	10:50	0.0	0.0	240.82	N-3	-0.11	240.71	No	NA
2022-05-23	2022-05-23	10:05	0.0	0.0	240.85	N-4	-0.15	240.70	No	NA
2022-05-30	2022-06-03	13:09	0.0	0.0	240.80	N-3	-0.11	240.69	No	NA
2022-06-06	2022-06-08	07:45	0.0	0.0	240.82	N-3	-0.11	240.71	No	NA
2022-06-13	2022-06-15	12:25	0.0	0.0	240.80	N-3	-0.11	240.69	No	NA
2022-06-20	2022-06-22	08:20	0.0	0.0	240.91	N-3	-0.11	240.80	No	NA
2022-06-27	2022-06-30	10:50	0.0	0.0	241.04	N-4	-0.15	240.89	No	NA
2022-07-04	2022-07-08	08:15	0.0	0.0	241.06	N-4	-0.15	240.91	No	NA
2022-07-11	2022-07-14	11:12	0.0	0.0	241.08	N-4	-0.15	240.93	No	NA
2022-08-01	2022-08-03	10:32	0.0	0.0	241.17	N-4	-0.15	241.02	No	NA
2022-08-08	2022-08-10	09:55	0.0	0.0	241.23	N-4	-0.15	241.08	No	NA
2022-08-15	2022-08-17	09:55	0.0	0.0	241.06	N-4	-0.15	240.91	No	NA
2022-08-22	2022-08-24	07:50	0.0	0.0	241.13	N-4	-0.15	240.98	No	NA
2022-08-29	2022-08-31	09:45	0.0	0.0	241.18	N-4	-0.15	241.03	No	NA
2022-09-06	2022-09-09	09:10	0.0	0.0	241.13	N-4	-0.15	240.98	No	NA
2022-09-12	2022-09-14	09:30	0.0	0.0	241.14	N-3	-0.11	241.03	No	NA
2022-09-19	2022-09-23	10:05	0.0	0.0	241.28	01-8854	-0.20	241.08[j]	No	NA
2022-09-26	2022-09-28	14:20	0.0	0.0	241.09	N-5	-0.04	241.05	No	NA
2022-10-03	2022-10-06	10:40	0.0	0.0	241.17	N-3	-0.11	241.06	No	NA
2022-10-17	2022-10-17	10:19	0.0	0.0	241.18	N-5	-0.04	241.14	No	NA
2022-10-17	2022-10-19	11:55	0.0	0.0	241.18	N-3	-0.11	241.07	No	NA
2022-10-24	2022-10-24	09:08	0.0	0.0	241.22	N-6	-0.10	241.12	No	NA
2022-10-24	2022-10-26	10:55	0.0	0.0	241.22	N-6	-0.10	241.12	No	NA
2022-10-31	2022-10-31	12:20	0.0	0.0	241.09	N-5	-0.04	241.05	No	NA
2022-10-31	2022-11-02	10:45	0.0	0.0	241.38	N-6	-0.10	241.28	No	NA
2022-11-07	2022-11-07	11:05	0.0	0.0	240.92	N-5	-0.04	240.88	No	NA
2022-11-07	2022-11-09	10:09	0.0	0.0	241.13	N-3	-0.11	241.02	No	NA
2022-11-14	2022-11-14	12:04	0.0	0.0	241.13	N-3	-0.11	241.02	No	NA
2022-11-14	2022-11-16	11:32	0.0	0.0	241.14	N-3	-0.11	241.03	No	NA
2022-11-19	2022-11-19	12:50	0.1	0.0	241.22	N-4	-0.15	241.07	No	NA
2022-11-19	2022-11-21	12:07	0.1	0.1	241.13	N-5	-0.04	241.09	No	NA
2022-11-28	2022-11-30	12:26	0.1	0.1	241.06	N-3	-0.11	240.95	No	NA
2022-12-19	2022-12-19	13:55	0.0	0.0	240.98	N-5	-0.04	240.94	No	NA
2022-12-26	2022-12-30	07:30	0.0	0.2	241.08	N-5	-0.04	241.04	No	NA
2023-01-02	2023-01-06	09:40	0.0	0.0	241.15	N-5	-0.04	241.11	No	NA
2023-01-09	2023-01-13	09:42	0.0	0.0	241.26	N-3	-0.01	241.25	No	NA
2023-01-16	2023-01-20	15:13	0.0	0.0	241.12	N-5	-0.04	241.08	No	NA
2023-01-23	2023-01-25	13:37	0.0	0.0	241.24	N-4	-0.15	241.09	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW08									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	15:10	0.0	0.0	292.91	N-2	-0.08	292.83	No	NA
2021-12-05	12/8/2021	15:45	0.0	0.0	292.52	N-1	-0.06	292.46	No	NA
2021-12-13	12/16/2021	08:05	0.0	0.0	292.38	N-2	-0.08	292.30	No	NA
2021-12-20	12/23/2021	08:30	0.0	0.0	292.34	N-2	-0.08	292.26	No	NA
2021-12-27	12/28/2021	12:00	0.0	5.1	292.01	N-2	-0.08	291.93	No	NA
2022-01-03	2022-01-04	10:10	0.0	0.0	292.00	N-2	-0.08	291.92	No	NA
2022-01-10	2022-01-11	11:35	0.0	1.0	291.76	N-2	-0.08	291.68	No	NA
2022-01-16	2022-01-18	12:00	0.0	0.0	291.82	N-1	-0.06	291.76	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-02-28	13:10	0.1	0.0	292.11	N-1	-0.06	292.05	No	NA
2022-03-07	2022-03-09	11:20	0.0	0.0	292.21	N-4	-0.17	292.04	No	NA
2022-03-14	2022-03-16	10:25	0.0	0.0	292.23	N-4	-0.17	292.06	No	NA
2022-03-21	2022-03-23	11:15	0.0	0.0	292.22	N-4	-0.17	292.05	No	NA
2022-03-28	2022-03-30	10:58	0.0	0.0	292.19	N-4	-0.17	292.02	No	NA
2022-04-04	2022-04-04	08:55	0.0	0.0	292.35	N-4	-0.17	292.18	No	NA
2022-04-25	2022-04-25	08:20	0.0	0.0	292.38	N-4	-0.17	292.21	No	NA
2022-05-02	2022-05-04	12:25	0.0	0.0	292.34	N-4	-0.17	292.17	No	NA
2022-05-09	2022-05-11	08:18	0.0	0.0	292.30	N-4	-0.17	292.13	No	NA
2022-05-16	2022-05-16	08:35	0.0	0.0	292.35	N-3	-0.13	292.22	No	NA
2022-05-23	2022-05-23	08:40	0.0	0.0	292.33	N-4	-0.17	292.16	No	NA
2022-05-30	2022-06-03	11:15	0.0	0.0	292.31	N-3	-0.13	292.18	No	NA
2022-06-06	2022-06-08	12:30	0.1	0.1	292.30	N-3	-0.13	292.17	No	NA
2022-06-13	2022-06-15	10:45	0.0	0.0	292.27	N-3	-0.13	292.14	No	NA
2022-06-20	2022-06-22	12:05	0.0	0.0	292.37	N-3	-0.13	292.24	No	NA
2022-06-27	2022-06-30	12:28	0.0	0.0	292.52	N-4	-0.17	292.35	No	NA
2022-07-04	2022-07-08	10:34	0.0	0.0	292.55	N-4	-0.17	292.38	No	NA
2022-07-11	2022-07-12	12:56	0.0	0.0	292.57	N-4	-0.17	292.40	No	NA
2022-08-01	2022-08-03	11:55	0.0	0.0	292.64	N-4	-0.17	292.47	No	NA
2022-08-08	2022-08-10	11:40	0.0	0.0	292.71	N-4	-0.17	292.54	No	NA
2022-08-15	2022-08-17	11:17	0.0	0.0	292.53	N-4	-0.17	292.36	No	NA
2022-08-22	2022-08-24	09:05	0.0	0.0	292.62	N-4	-0.17	292.45	No	NA
2022-08-29	2022-08-31	11:05	0.0	0.0	292.66	N-4	-0.17	292.49	No	NA
2022-09-06	2022-09-09	10:15	0.0	0.0	292.63	N-4	-0.17	292.46	No	NA
2022-09-12	2022-09-14	10:55	0.0	0.0	292.60	N-3	-0.13	292.47	No	NA
2022-09-19	2022-09-23	12:25	0.0	0.0	292.79	01-8854	-0.26	292.53[j]	No	NA
2022-09-26	2022-09-28	08:38	0.0	0.0	292.61	N-5	-0.06	292.55	No	NA
2022-10-03	2022-10-05	10:25	0.0	0.0	292.74	N-4	-0.17	292.57	No	NA
2022-10-17	2022-10-17	13:30	0.0	0.0	292.61	N-5	-0.06	292.55	No	NA
2022-10-17	2022-10-19	10:25	0.0	0.0	292.70	N-3	-0.13	292.57	No	NA
2022-10-24	2022-10-24	11:00	0.0	0.0	292.72	N-6	-0.12	292.60	No	NA
2022-10-24	2022-10-26	12:20	0.0	0.0	292.72	N-6	-0.12	292.60	No	NA
2022-10-31	2022-10-31	09:55	0.0	0.0	292.63	N-5	-0.06	292.57	No	NA
2022-10-31	2022-11-02	09:30	0.0	0.0	292.92	N-6	-0.12	292.80	No	NA
2022-11-07	2022-11-07	08:00	0.0	0.0	292.32	N-5	-0.06	292.26	No	NA
2022-11-07	2022-11-09	08:25	0.0	0.0	292.63	N-3	-0.13	292.50	No	NA
2022-11-14	2022-11-14	10:30	0.0	0.0	292.65	N-3	-0.13	292.52	No	NA
2022-11-14	2022-11-16	10:05	0.0	0.0	292.67	N-3	-0.13	292.54	No	NA
2022-11-19	2022-11-19	15:00	0.0	0.0	292.66	N-4	-0.17	292.49	No	NA
2022-11-19	2022-11-21	09:58	0.0	0.0	292.65	N-5	-0.06	292.59	No	NA
2022-11-28	2022-11-30	07:46	0.0	0.1	292.80	N-3	-0.13	292.67	No	NA
2022-12-19	2022-12-19	11:40	0.0	0.0	292.48	N-5	-0.06	292.42	No	NA
2022-12-26	2022-12-30	09:22	0.0	0.0	292.57	N-5	-0.06	292.51	No	NA
2023-01-02	2023-01-06	07:50	0.0	0.0	292.62	N-5	-0.06	292.56	No	NA
2023-01-09	2023-01-13	11:35	0.0	0.0	292.72	N-3	-0.13	292.59	No	NA
2023-01-16	2023-01-20	10:10	0.0	0.0	292.63	N-5	-0.06	292.57	No	NA
2023-01-23	2023-01-25	08:04	0.0	0.0	292.96	N-4	-0.17	292.79	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW09									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/16/2021	13:05	0.0	0.0	377.52	N-2	-0.30	377.22	No	NA
2021-12-20	12/24/2021	08:30	0.0	0.0	377.29	N-1	-0.28	377.01	No	NA
2021-12-27	2022-01-01	09:50	0.1	0.0	377.18	N-2	-0.30	376.88	No	NA
2022-01-03	2022-01-07	11:10	0.0	0.0	377.06	N-2	-0.30	376.76	No	NA
2022-01-10	2022-01-12	13:17	0.0	0.0	377.05	N-1	-0.28	376.77	No	NA
2022-01-16	2022-01-17	12:40	0.0	0.0	377.18[b]	01-5920	-0.24	376.94[b]	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	10:45	0.1	0.0	377.38	N-2	-0.30	377.08	No	NA
2022-03-07	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
2022-03-14	2022-03-16	08:05	0.0	0.0	377.31	N-4	-0.37	376.94	No	NA
2022-03-21	2022-03-21	10:30	0.0	0.0	377.30	N-4	-0.37	376.93	No	NA
2022-03-28	2022-03-28	10:05	0.0	0.0	377.49	N-4	-0.37	377.12	No	NA
2022-04-04	2022-04-08	10:45	0.0	0.0	377.41	N-3	-0.32	377.09	No	NA
2022-04-25	2022-04-28	10:00	0.0	0.0	377.19	N-3	-0.32	376.87	No	NA
2022-05-02	2022-05-02	09:00	0.0	0.0	377.25	N-4	-0.32	376.93	No	NA
2022-05-09	2022-05-09	08:50	0.0	0.0	377.44	N-4	-0.32	377.12	No[f]	0.0
2022-05-16	2022-05-18	08:20	0.0	0.0	377.40	N-3	-0.32	377.08	No	NA
2022-05-23	2022-05-25	08:20	0.0	0.0	377.30	N-4	-0.32	376.98	No	NA
2022-05-30	2022-06-01	09:38	0.0	0.0	377.39	N-3	-0.32	377.07	No	NA
2022-06-06	2022-06-06	08:45	0.0	0.0	377.35	N-3	-0.32	377.03	No	NA
2022-06-13	2022-06-13	15:00	0.0	0.0	377.46	N-3	-0.32	377.14	No	NA
2022-06-20	2022-06-20	08:45	0.0	0.0	377.47	N-3	-0.32	377.15	No	NA
2022-06-27	2022-06-28	08:35	0.0	0.0	377.35	N-3	-0.32	377.03	No	NA
2022-07-04	2022-07-05	08:43	0.0	0.0	377.63	N-4	-0.32	377.31	No	NA
2022-07-11	2022-07-11	10:59	0.0	0.0	377.67	N-4	-0.32	377.35	No	NA
2022-08-01	2022-08-01	08:45	0.0	0.0	377.78	N-4	-0.32	377.46	No	NA
2022-08-08	2022-08-08	08:40	0.0	0.0	377.82	N-4	-0.32	377.5	No	NA
2022-08-15	2022-08-15	08:10	0.0	0.0	377.87	N-4	-0.32	377.55	No	NA
2022-08-22	2022-08-22	08:30	0.0	0.0	377.92	N-4	-0.32	377.6	No	NA
2022-08-29	2022-08-29	08:40	0.0	0.0	377.93	N-4	-0.32	377.61	No	NA
2022-09-06	2022-09-07	07:45	0.0	0.0	377.74	N-3	-0.32	377.42	No	NA
2022-09-12	2022-09-12	08:15	0.0	0.0	377.95	N-3	-0.32	377.63	No	NA
2022-09-19	2022-09-19	09:50	0.0	0.0	378.01	01-8607	-0.64	377.37[j]	No	NA
2022-09-26	2022-09-26	08:55	0.0	0.0	377.77	N-3	-0.32	377.45	No	NA
2022-10-03	2022-10-03	08:05	0.0	0.0	378.05	N-4	-0.32	377.73	No	NA
2022-10-17	2022-10-17	08:15	0.0	0.0	377.88	N-4	-0.32	377.56	No	NA
2022-10-17	2022-10-19	08:30	0.0	0.0	377.86	N-4	-0.32	377.54	No	NA
2022-10-24	2022-10-24	08:00	0.0	0.0	377.87	N-4	-0.32	377.55	No	NA
2022-10-24	2022-10-26	10:45	0.0	0.0	377.95	N-5	-0.27	377.68	No	NA
2022-10-31	2022-10-31	08:20	0.0	0.0	377.80	N-6	-0.34	377.46	No	NA
2022-10-31	2022-11-02	08:15	0.0	0.0	377.87	N-4	-0.32	377.55	No	NA
2022-11-07	2022-11-07	08:25	0.0	0.0	377.53	N-3	-0.32	377.21	No	NA
2022-11-07	2022-11-09	10:05	0.0	0.0	377.80	N-4	-0.32	377.48	No	NA
2022-11-14	2022-11-14	08:15	0.0	0.0	377.83	N-4	-0.32	377.51	No	NA
2022-11-14	2022-11-16	07:50	0.0	0.0	377.82	N-6	-0.34	377.48	No	NA
2022-11-19	2022-11-19	08:05	0.0	0.0	377.76	N-5	-0.27	377.49	No	NA
2022-11-19	2022-11-21	09:52	0.0	0.0	377.85	N-4	-0.32	377.53	No	NA
2022-11-28	2022-11-28	08:25	0.0	0.0	377.55	N-3	-0.32	377.23	No	NA
2022-12-19	2022-12-23	07:30	0.0	0.0	377.66	N-3	-0.32	377.34	No	NA
2022-12-26	2022-12-27	08:00	0.0	0.0	377.66	N-5	-0.27	377.39	No	NA
2023-01-02	2023-01-03	07:30	0.0	0.0	377.66	N-5	-0.27	377.39	No	NA
2023-01-09	2023-01-09	10:43	0.0	0.0	377.73	N-5	-0.27	377.46	No	NA
2023-01-16	2023-01-16	07:38	0.0	0.0	377.78	N-6	-0.34	377.44	No	NA
2023-01-23	2023-01-23	08:35	0.0	0.0	377.94	N-5	-0.27	377.67	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW11**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/16/2021	10:49	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/23/2021	09:26	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-27	12/30/2021	10:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-06	09:13	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-13	08:34	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-20	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	07:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-09	09:28	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-17	08:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-22	00:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-31	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-07	08:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-28	09:33	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-05	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-11	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-19	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-26	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-02	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-09	10:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-16	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-23	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-07-01	08:22	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-07	10:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-13	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-12	12:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-17	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-22	11:12	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-29	12:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-07	11:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-13	10:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-20	11:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-27	11:48	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-03	09:34	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-17	12:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-21	15:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-24	11:58	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-28	16:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-02	13:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-04	09:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-09	09:47	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-11	08:57	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-16	08:57	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-18	08:48	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-21	09:11	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-23	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-28	2022-11-29	08:53	0.0	0.1	NA	NA	NA	NA	No	NA
2022-12-19	2022-12-20	08:55	0.0	0.1	NA	NA	NA	NA	No	NA
2022-12-26	2023-12-28	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-02	2023-01-04	08:48	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-09	2023-01-10	09:10	0.0	0.3	NA	NA	NA	NA	No	NA
2023-01-16	2023-01-17	08:30	0.0	0.6	NA	NA	NA	NA	No	NA
2023-01-23	2023-01-24	08:55	0.0	0.2	NA	NA	NA	NA	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW12A*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/14/2021	14:15	0.1	0.1	220.48	N-1	-0.02	220.46	No	NA
2021-12-20	12/22/2021	12:45	0.0	0.0	220.31	N-1	-0.02	220.29	No[2]	NA
2021-12-27	12/27/2021	13:05	0.1	0.0	220.29	N-2	-0.04	220.25	No	NA
2022-01-03	2022-01-05	11:15	0.0	0.0	219.54	N-2	-0.04	219.50	No	NA
2022-01-10	2022-01-12	12:22	0.0	4.1	219.93	N-2	-0.04	219.89	No	NA
2022-01-16	2022-01-17	12:00	0.0	0.0	219.93	N-2	-0.04	219.89	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	12:05	0.1	0.0	220.19	N-2	-0.04	220.15	No	NA
2022-03-07	2022-03-08	10:55	0.1	0.0	220.26	N-2	-0.04	220.22	No	NA
2022-03-14	2022-03-15	12:05	0.0	0.0	220.24	N-2	-0.04	220.20	No	NA
2022-03-21	2022-03-22	08:30	0.0	0.0	220.29	N-4	-0.14	220.15	No	NA
2022-03-28	2022-03-29	10:20	0.1	0.1	220.18	N-3	-0.10	220.08	No	NA
2022-04-04	2022-04-04	11:20	0.0	0.0	220.17	N-3	-0.10	220.07	No	NA
2022-04-25	2022-04-26	11:00	0.0	0.0	220.17	N-3	-0.10	220.07	No	NA
2022-05-02	2022-05-03	11:10	0.0	0.0	220.15	N-3	-0.10	220.05	No	NA
2022-05-09	2022-05-10	10:28	0.0	0.0	220.14	N-3	-0.10	220.04	No	NA
2022-05-16	2022-05-17	10:40	0.0	0.0	220.21	N-4	-0.14	220.07	No	NA
2022-05-23	2022-05-24	11:00	0.0	0.0	220.11	N-3	-0.10	220.01	No	NA
2022-05-30	2022-06-01	10:40	0.1	0.0	220.18	N-4	-0.14	220.04	No	NA
2022-06-06	2022-06-07	09:55	0.0	0.0	220.20	N-4	-0.14	220.06	No	NA
2022-06-13	2022-06-14	09:55	0.0	0.0	220.28	N-4	-0.14	220.14	No	NA
2022-06-20	2022-06-21	11:05	0.0	0.0	220.22	N-3	-0.10	220.12	No	NA
2022-06-27	2022-06-29	10:35	0.0	0.0	220.32	N-3	-0.10	220.22	No	NA
2022-07-04	2022-07-05	08:45	0.0	0.0	220.36	N-3	-0.10	220.26	No	NA
2022-07-11	2022-07-11	11:01	0.0	0.0	220.38	N-3	-0.10	220.28	No	NA
2022-08-01	2022-08-02	10:20	0.0	0.1	220.49	N-3	-0.10	220.39	No	NA
2022-08-08	2022-08-09	09:55	0.0	0.0	220.55	N-3	-0.10	220.45	No	NA
2022-08-15	2022-08-16	10:05	0.0	0.0	220.55	N-3	-0.10	220.45	No	NA
2022-08-22	2022-08-25	09:35	0.0	0.0	220.63	N-3	-0.10	220.53	No	NA
2022-08-29	2022-09-01	10:00	0.0	0.0	220.73	N-4	-0.14	220.59	No	NA
2022-09-06	2022-09-07	10:05	0.0	0.0	220.76	N-4	-0.14	220.62	No	NA
2022-09-12	2022-09-13	10:35	0.0	0.0	220.70	N-4	-0.14	220.56	No	NA
2022-09-19	2022-09-22	08:20	0.0	0.0	220.77	01-8854	-0.18	220.59[j]	No	NA
2022-09-26	2022-09-27	10:50	0.0	0.0	220.61	N-5	-0.03	220.58	No	NA
2022-10-03	2022-10-04	09:45	0.0	0.2	220.70	N-3	-0.10	220.60	No	NA
2022-10-17	2022-10-18	11:13	0.1	0.0	220.70	N-6	-0.09	220.61	No	NA
2022-10-17	2022-10-20	08:00	0.0	0.0	220.75	N-6	-0.09	220.66	No	NA
2022-10-24	2022-10-24	10:15	0.0	0.0	220.69	N-5	-0.03	220.66	No	NA
2022-10-24	2022-10-27	07:50	0.1	0.2	220.66	N-5	-0.03	220.63	No	NA
2022-10-31	2022-11-01	08:20	0.0	0.0	220.78	N-4	-0.14	220.64	No	NA
2022-10-31	2022-11-03	10:10	0.0	0.1	220.76	N-6	-0.09	220.67	No	NA
2022-11-07	2022-11-07	08:15	0.0	0.0	220.58	N-6	-0.09	220.49	No	NA
2022-11-07	2022-11-10	11:20	0.0	0.0	220.72	N-4	-0.14	220.58	No	NA
2022-11-14	2022-11-15	07:30	0.0	0.0	220.73	N-6	-0.09	220.64	No	NA
2022-11-14	2022-11-17	08:15	0.0	0.0	220.72	N-3	-0.10	220.62	No	NA
2022-11-19	2022-11-17	10:05	0.0	0.0	220.74	N-6	-0.09	220.65	No	NA
2022-11-19	2022-11-22	08:15	0.0	0.0	220.80	N-4	-0.14	220.66	No	NA
2022-11-28	2022-11-29	08:00	0.1	0.1	220.64	N-3	-0.10	220.54	No	NA
2022-12-19	2022-12-20	08:10	0.0	0.0	220.64	N-3	-0.10	220.54	No	NA
2022-12-26	2022-12-28	09:20	0.0	0.0	220.72	N-4	-0.14	220.58	No	NA
2023-01-02	2023-01-04	08:00	1.4	0.0	220.69	N-3	-0.10	220.59	No	NA
2023-01-09	2023-01-10	07:50	0.0	0.0	220.78	N-4	-0.14	220.64	No	NA
2023-01-16	2023-01-17	08:32	0.0	0.0	220.72	N-3	-0.10	220.62	No	NA
2023-01-23	2023-01-25	08:25	0.0	0.0	220.76	N-3	-0.10	220.66	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW13**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/15/2021	09:15	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/22/2021	08:52	0.0	10.9	NA	NA	NA	NA	No	NA
2021-12-27	12/29/2021	09:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-05	08:59	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-12	08:58	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-19	09:35	0.0	0.1	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-10	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-16	08:57	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-23	09:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-30	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-06	08:37	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-27	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-04	08:25	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-12	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-18	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-25	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-01	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-10	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-15	08:02	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-22	08:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-30	08:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-06	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-12	07:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	2022-08-03	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-08	2022-08-13	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-18	08:25	0.0	0.3	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-24	10:22	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-31	08:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-09	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-14	08:10	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-21	08:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-28	09:35	0.0	0.1	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-06	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-19	10:11	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-21	09:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-26	09:21	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-28	09:27	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-10-31	09:04	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-04	09:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-07	09:03	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-11	08:31	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-14	09:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-16	09:17	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-19	08:34	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-22	08:58	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-28	2022-11-30	09:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-19	2022-12-21	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-26	2022-12-29	10:00	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-02	2023-01-05	09:35	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-09	2023-01-11	09:03	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-16	2023-01-18	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-23	2023-01-25	08:55	0.0	0.0	NA	NA	NA	NA	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW14**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/13/2021	10:35	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/20/2021	08:50	0.6	0.6	NA	NA	NA	NA	No	NA
2021-12-27	12/27/2021	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-03	08:18	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-10	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-18	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	09:33	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-08	07:41	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-15	08:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-22	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-29	08:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-05	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-26	09:06	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-03	08:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-10	09:12	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-17	08:24	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-24	08:39	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-05-31	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-07	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-14	08:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-21	08:43	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-29	08:19	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-05	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-14	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-13	12:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-16	08:19	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-22	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-29	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-07	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-13	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-20	08:43	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-27	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-04	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-17	08:54	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-19	14:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-24	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-26	13:32	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-10-31	13:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-02	08:25	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-07	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-09	09:13	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-15	08:53	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-17	08:52	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-21	08:25	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-23	08:30	0.0	0.1	NA	NA	NA	NA	No	NA
2022-11-28	2022-12-01	08:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-19	2022-12-20	12:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-26	2022-12-30	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-02	2023-01-06	08:46	0.0	1.7	NA	NA	NA	NA	No	NA
2023-01-09	2023-01-12	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-16	2023-01-19	08:40	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-23	2023-01-26	08:35	0.0	0.0	NA	NA	NA	NA	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW15**									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	12/2/2021	09:15	0.0	1.1	NA	NA	NA	NA	No	NA
2021-12-05	12/9/2021	09:30	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-13	12/14/2021	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-20	12/21/2021	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2021-12-27	12/28/2021	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-04	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-11	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-16	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-04	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-07	2022-03-07	07:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-14	2022-03-14	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-21	2022-03-21	08:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-03-28	2022-03-28	09:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-04	2022-04-04	09:14	0.0	0.0	NA	NA	NA	NA	No	NA
2022-04-25	2022-04-25	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-02	2022-05-02	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-09	2022-05-09	09:11	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-16	2022-05-16	08:26	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-23	2022-05-23	08:23	0.0	0.0	NA	NA	NA	NA	No	NA
2022-05-30	2022-06-03	08:30	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-06	2022-06-06	09:21	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-13	2022-06-13	08:35	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-20	2022-06-20	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-06-27	2022-06-28	09:08	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-04	2022-07-08	10:40	0.0	0.0	NA	NA	NA	NA	No	NA
2022-07-11	2022-07-11	08:51	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-01	2022-08-02	09:32	0.0	2.5[h]	NA	NA	NA	NA	No	NA
2022-08-08	2022-08-12	08:26	0.0	0.5	NA	NA	NA	NA	No	NA
2022-08-15	2022-08-15	08:15	0.0	0.0	NA	NA	NA	NA	No	NA
2022-08-22	2022-08-23	09:02	0.0	1.3	NA	NA	NA	NA	No	NA
2022-08-29	2022-08-30	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-06	2022-09-06	09:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-12	2022-09-12	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-19	2022-09-19	09:36	0.0	0.0	NA	NA	NA	NA	No	NA
2022-09-26	2022-09-26	10:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-03	2022-10-04	10:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-18	10:38	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-17	2022-10-20	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-25	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-24	2022-10-27	08:44	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-01	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-10-31	2022-11-03	08:56	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-08	10:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-07	2022-11-10	09:20	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-15	09:09	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-14	2022-11-17	09:05	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-20	09:50	0.0	0.0	NA	NA	NA	NA	No	NA
2022-11-19	2022-11-22	08:40	0.0	0.1	NA	NA	NA	NA	No	NA
2022-11-28	2022-11-28	08:55	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-19	2022-12-19	08:45	0.0	0.0	NA	NA	NA	NA	No	NA
2022-12-26	2022-12-27	08:36	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-02	2023-01-03	08:32	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-09	2023-01-09	08:57	0.0	0.0	NA	NA	NA	NA	No	NA
2023-01-16	2023-01-16	08:50	0.0	0.1	NA	NA	NA	NA	No	NA
2023-01-23	2023-01-23	08:30	0.0	0.0	NA	NA	NA	NA	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW16*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	12/14/2021	09:30	0.1	0.1	202.28	N-1	-0.02	202.26	No	NA
2021-12-20	12/22/2021	09:09	NC2	NC2	201.54	N-1	-0.02	201.52	No[2]	NA
2021-12-27	12/29/2021	07:45	0.0	0.6	201.54	N-1	-0.02	201.52	No	NA
2022-01-03	2022-01-05	08:00	0.0	0.0	201.22	N-2	-0.04	201.18	No	NA
2022-01-10	2022-01-12	08:20	0.0	0.0	201.16	N-2	-0.04	201.12	No	NA
2022-01-16	2022-01-17	08:45	0.0	0.1	201.13	N-2	-0.04	201.09	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-01	07:30	0.1	0.0	201.98	N-2	-0.04	201.94	No	NA
2022-03-07	2022-03-08	07:30	0.1	0.0	201.51	N-2	-0.04	201.47	No	NA
2022-03-14	2022-03-15	09:10	0.0	3.4	201.54	N-2	-0.04	201.50	No	NA
2022-03-21	2022-03-22	11:45	0.0	0.0	201.52	N-4	-0.13	201.39	No	NA
2022-03-28	2022-03-31	08:45	0.1	6.7	201.45	N-3	-0.09	201.36	No	NA
2022-04-04	2022-04-04	07:50	0.0	0.5	201.44	N-3	-0.09	201.35	No	NA
2022-04-25	2022-04-26	08:00	0.0	0.0	201.42	N-3	-0.09	201.33	No	NA
2022-05-02	2022-05-03	08:00	0.0	0.0	201.40	N-3	-0.09	201.31	No	NA
2022-05-09	2022-05-10	08:00	0.0	0.0	201.41	N-3	-0.09	201.32	No	NA
2022-05-16	2022-05-17	08:10	0.0	0.0	201.45	N-4	-0.13	201.32	No	NA
2022-05-23	2022-05-23	08:20	0.1	0.7	201.37	N-3	-0.09	201.28	No	NA
2022-05-30	2022-06-01	07:50	0.1	0.0	201.42	N-4	-0.13	201.29	No	NA
2022-06-06	2022-06-07	08:00	0.0	0.0	201.46	N-4	-0.13	201.33	No	NA
2022-06-13	2022-06-14	07:51	0.0	0.0	201.50	N-4	-0.13	201.37	No	NA
2022-06-20	2022-06-21	08:40	0.0	0.0	201.47	N-3	-0.09	201.38	No	NA
2022-06-27	2022-06-29	08:00	0.0	0.0	201.57	N-3	-0.09	201.48	No	NA
2022-07-04	2022-07-08	10:25	0.0	0.1	201.58	N-3	-0.09	201.49	No	NA
2022-07-11	2022-07-11	08:15	0.0	0.0	201.62	N-3	-0.09	201.53	No	NA
2022-08-01	2022-08-02	08:10	0.0	0.1	201.74	N-3	-0.09	201.65	No	NA
2022-08-08	2022-08-09	08:10	0.0	0.0	201.77	N-3	-0.09	201.68	No	NA
2022-08-15	2022-08-16	08:00	0.0	0.0	201.83	N-3	-0.09	201.74	No	NA
2022-08-22	2022-08-25	07:55	0.0	0.9	201.88	N-3	-0.09	201.79	No	NA
2022-08-29	2022-09-01	08:09	0.0	0.1	201.96	N-4	-0.13	201.83	No	NA
2022-09-06	2022-09-07	08:00	0.0	0.0	201.99	N-4	-0.13	201.86	No	NA
2022-09-12	2022-09-13	07:55	0.0	0.0	201.93	N-4	-0.13	201.80	No	NA
2022-09-19	2022-09-22	11:20	0.0	0.0	201.96	01-8854	-0.19	201.77[j]	No	NA
2022-09-26	2022-09-27	08:10	0.0	0.2	201.85	N-5	-0.03	201.82	No	NA
2022-10-03	2022-10-04	07:50	0.0	0.2	201.95	N-3	-0.09	201.86	No	NA
2022-10-17	2022-10-18	08:15	0.0	0.3	201.97	N-6	-0.08	201.89	No	NA
2022-10-17	2022-10-20	10:35	0.1	0.0	201.93	N-6	-0.08	201.85	No	NA
2022-10-24	2022-10-24	08:15	0.0	0.0	201.91	N-5	-0.03	201.88	No	NA
2022-10-24	2022-10-27	10:03	0.1	0.1	201.90	N-5	-0.03	201.87	No	NA
2022-10-31	2022-11-01	11:08	0.0	0.1	201.96	N-4	-0.13	201.83	No	NA
2022-10-31	2022-11-03	08:00	0.0	0.1	202.18	N-6	-0.08	202.10	No	NA
2022-11-07	2022-11-07	11:00	0.0	0.0	201.75	N-6	-0.08	201.67	No	NA
2022-11-07	2022-11-10	08:45	0.0	0.0	201.96	N-4	-0.13	201.83	No	NA
2022-11-14	2022-11-15	09:35	0.0	0.1	201.94	N-6	-0.08	201.86	No	NA
2022-11-14	2022-11-17	10:20	0.0	0.1	201.94	N-3	-0.09	201.85	No	NA
2022-11-19	2022-11-19	12:30	0.0	0.0	201.93	N-6	-0.08	201.85	No	NA
2022-11-19	2022-11-22	10:10	0.0	0.0	202.00	N-4	-0.13	201.87	No	NA
2022-11-28	2022-11-29	09:45	0.1	0.1	201.83	N-3	-0.09	201.74	No	NA
2022-12-19	2022-12-20	11:02	0.0	0.0	201.82	N-3	-0.09	201.73	No	NA
2022-12-26	2022-12-28	12:15	0.0	0.0	201.87	N-4	-0.13	201.74	No	NA
2023-01-02	2023-01-04	10:45	0.0	0.0	201.90	N-3	-0.09	201.81	No	NA
2023-01-09	2023-01-10	11:05	0.0	0.0	201.97	N-4	-0.13	201.84	No	NA
2023-01-16	2023-01-17	13:27	0.0	0.1	201.87	N-3	-0.09	201.78	No	NA
2023-01-23	2023-01-25	11:50	0.0	0.0	201.95	N-3	-0.09	201.86	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW19									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-07	14:20	0.1	0.3	426.07	N-2	-0.07	426.00	No	NA
2022-01-10	2022-01-12	09:10	0.0	0.0	426.09	N-2	-0.07	426.02	No	NA
2022-01-16	2022-01-19	08:20	0.0	0.0	425.84	N-2	-0.07	425.77	No	NA
2022-01-24	2022-01-25	08:00	0.0	0.0	425.84	N-2	-0.07	425.77	No	NA
2022-01-31	2022-02-02	10:25	0.0	0.0	426.32	N-2	-0.07	426.25	No	NA
2022-02-07	2022-02-09	09:08	0.0	0.0	426.41	N-2	-0.07	426.34	No	NA
2022-02-14	2022-02-17	07:55	0.0	0.0	426.48	N-2	-0.07	426.41	No	NA
2022-02-21	2022-02-24	07:15	0.0	0.0	426.28	N-2	-0.07	426.21	No	NA
2022-02-28	2022-03-04	13:45	0.0	0.0	426.23	N-2	-0.07	426.16	No	NA
2022-03-07	2022-03-09	07:40	0.0	0.0	426.49	N-4	-0.12	426.37	No	NA
2022-03-14	2022-03-14	08:30	0.0	0.0	426.50	N-4	-0.12	426.38	No	NA
2022-03-21	2022-03-21	08:10	0.0	0.0	426.48	N-4	-0.12	426.36	No	NA
2022-03-28	2022-03-28	08:10	0.0	0.0	426.47	N-4	-0.12	426.35	No	NA
2022-04-04	2022-04-08	08:25	0.0	0.0	426.39	N-3	-0.06	426.33	No	NA
2022-04-25	2022-04-28	12:45	0.0	0.0	426.13	N-3	-0.06	426.07	No	NA
2022-05-02	2022-05-02	11:40	0.0	0.0	426.41	N-4	-0.12	426.29	No	NA
2022-05-09	2022-05-09	11:20	0.0	0.0	426.40	N-4	-0.12	426.28	No	NA
2022-05-16	2022-05-18	10:38	0.0	0.0	426.34	N-4	-0.12	426.22	No	NA
2022-05-23	2022-05-25	10:20	0.0	0.0	426.30	N-4	-0.12	426.18	No	NA
2022-05-30	2022-06-01	11:05	0.0	0.0	426.33	N-3	-0.06	426.27	No	NA
2022-06-06	2022-06-06	12:00	0.0	0.0	426.15	N-3	-0.06	426.09	No	NA
2022-06-13	2022-06-16	15:35	0.0	0.0	426.38	N-3	-0.06	426.32	No	NA
2022-06-20	2022-06-20	10:40	0.0	0.0	426.43	N-3	-0.06	426.37	No	NA
2022-06-27	2022-06-28	11:07	0.0	0.0	426.33	N-3	-0.06	426.27	No	NA
2022-07-04	2022-07-05	11:42	0.0	0.0	426.60	N-4	-0.12	426.48	No	NA
2022-07-11	2022-07-11	08:52	0.0	0.0	426.64	N-4	-0.12	426.52	No	NA
2022-08-01	2022-08-01	10:45	0.0	0.0	426.76	N-4	-0.12	426.64	No	NA
2022-08-08	2022-08-08	10:25	0.0	0.0	426.79	N-4	-0.12	426.67	No	NA
2022-08-15	2022-08-15	10:38	0.0	0.0	426.83	N-4	-0.12	426.71	No	NA
2022-08-22	2022-08-22	10:30	0.0	0.0	426.89	N-4	-0.12	426.77	No	NA
2022-08-29	2022-08-29	10:35	0.0	0.0	426.90	N-4	-0.12	426.78	No	NA
2022-09-06	2022-09-07	09:30	0.0	0.0	426.70	N-3	-0.06	426.64	No	NA
2022-09-12	2022-09-12	09:35	0.0	0.0	426.88	N-3	-0.06	426.82	No	NA
2022-09-19	2022-09-19	12:20	0.0	0.0	427.28	01-8607	-0.43	426.85[j]	No	NA
2022-09-26	2022-09-26	11:10	0.0	0.0	426.90	N-3	-0.06	426.84	No	NA
2022-10-03	2022-10-03	10:25	0.0	0.0	426.99	N-4	-0.12	426.87	No	NA
2022-10-17	2022-10-17	10:15	0.0	0.0	427.10	N-4	-0.12	426.98	No	NA
2022-10-17	2022-10-19	10:30	0.0	0.0	426.79	N-4	-0.12	426.67	No	NA
2022-10-24	2022-10-24	10:20	0.0	0.1	426.83	N-4	-0.12	426.71	No	NA
2022-10-24	2022-10-26	08:40	0.0	0.0	426.75	N-5	-0.03	426.72	No	NA
2022-10-31	2022-10-31	10:23	0.0	0.0	426.95	N-6	-0.10	426.85	No	NA
2022-10-31	2022-11-02	11:20	0.0	0.0	427.02	N-4	-0.12	426.90	No	NA
2022-11-07	2022-11-07	10:51	0.0	0.0	426.68	N-3	-0.06	426.62	No	NA
2022-11-07	2022-11-09	12:00	0.0	0.0	426.74	N-4	-0.12	426.62	No	NA
2022-11-14	2022-11-14	11:24	0.0	0.0	426.78	N-4	-0.12	426.66	No	NA
2022-11-14	2022-11-16	10:43	0.0	0.0	426.95	N-6	-0.10	426.85	No	NA
2022-11-19	2022-11-19	10:15	0.0	0.0	426.91	N-5	-0.03	426.88	No	NA
2022-11-19	2022-11-21	08:00	0.0	0.0	427.04	N-4	-0.12	426.92	No	NA
2022-11-28	2022-11-28	10:15	0.0	0.0	426.48	N-3	-0.06	426.42	No	NA
2022-12-19	2022-12-23	09:03	0.1	0.0	426.82	N-3	-0.06	426.76	No	NA
2022-12-26	2022-12-27	09:55	0.1	0.0	426.61	N-5	-0.03	426.58	No	NA
2023-01-02	2023-01-03	08:55	0.0	0.0	426.83	N-5	-0.03	426.80	No	NA
2023-01-09	2023-01-09	08:30	0.0	0.0	426.88	N-5	-0.03	426.85	No	NA
2023-01-16	2023-01-16	09:30	0.0	0.0	426.95	N-6	-0.10	426.85	No	NA
2023-01-23	2023-01-23	13:14	0.2	0.0	426.88	N-5	-0.03	426.85	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	OWDFMW01*									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Corrected	DTW[d]	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		DTW[d,e] (ft btoc)	(ft btoc)	(Yes/No)	(ft)
2021-11-28	12/1/2021	11:40	0.1	0.1	120.44	N-2	-0.06	120.38	No[1]	NA
2021-12-05	12/8/2021	13:05	0.2	0.1	120.05	N-2	-0.06	119.99	No	NA
2021-12-13	12/13/2021	08:20	0.0	0.0	119.98	N-2	-0.06	119.92	No	NA
2021-12-20	12/21/2021	11:30	0.0	0.0	119.76	N-1	-0.06	119.70	No	NA
2021-12-27	12/27/2021	14:00	0.0	0.0	119.75	N-2	-0.06	119.69	No	NA
2022-01-03	2022-01-04	12:40	0.0	0.0	119.52	N-2	-0.06	119.46	No	NA
2022-01-10	2022-01-11	07:40	0.0	0.0	119.45	N-2	-0.06	119.39	No	NA
2022-01-16	2022-01-17	09:00	0.0	0.0	119.47[b]	01-7350	-0.03	119.44[b]	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-03	10:45	0.0	0.0	119.88[b]	311836	-0.03	119.85[b]	No	NA
2022-03-07	2022-03-10	07:25	0.0	0.0	119.91	N-3	-0.10	119.81	No	NA
2022-03-14	2022-03-15	12:51	0.0	0.0	119.88	N-3	-0.10	119.78	No	NA
2022-03-21	2022-03-23	08:18	0.0	0.0	119.55	N-3	-0.10	119.45	No	NA
2022-03-28	2022-03-30	08:10	0.5	0.0	119.68	N-3	-0.10	119.58	No	NA
2022-04-04	2022-04-07	08:45	0.0	0.0	119.84	N-3	-0.10	119.74	No	NA
2022-04-25	2022-04-27	08:15	0.0	0.0	119.63	N-3	-0.10	119.53	No	NA
2022-05-02	5/4/2022	08:15	0.0	0.0	119.64	N-3	-0.10	119.54	No	NA
2022-05-09	2022-05-11	08:20	0.0	0.0	119.82	N-3	-0.10	119.72	No	NA
2022-05-16	2022-05-20	09:30	0.0	0.0	119.81	N-3	-0.10	119.71	No	NA
2022-05-23	2022-05-25	07:50	0.0	0.0	119.87	N-3	-0.10	119.77	No	NA
2022-05-30	2022-05-31	08:00	0.0	0.0	119.80	N-3	-0.10	119.70	No	NA
2022-06-06	2022-06-09	07:45	0.0	0.0	119.92	N-4	-0.13	119.79	No	NA
2022-06-13	2022-06-15	08:02	0.0	0.0	119.92	N-4	-0.13	119.79	No	NA
2022-06-20	2022-06-24	07:45	0.0	0.0	120.00	N-4	-0.13	119.87	No	NA
2022-06-27	2022-06-28	09:00	0.1	0.0	119.79	N-4	-0.13	119.66	No	NA
2022-07-04	2022-07-06	08:00	0.0	0.0	120.02	N-3	-0.10	119.92	No	NA
2022-07-11	2022-07-12	08:00	0.0	0.0	120.05	N-3	-0.10	119.95	No	NA
2022-08-01	2022-08-03	07:50	0.0	0.1	119.98	N-3	-0.10	119.88	No	NA
2022-08-08	2022-08-10	08:00	0.0	0.0	120.15	N-3	-0.10	120.05	No	NA
2022-08-15	2022-08-17	11:05	0.0	0.0	119.67	N-3	-0.10	119.57	No	NA
2022-08-22	2022-08-24	08:00	0.0	0.0	120.29	N-3	-0.10	120.19	No	NA
2022-08-29	2022-08-31	08:35	0.0	0.0	120.36	N-3	-0.10	120.26	No	NA
2022-09-06	2022-09-09	07:40	0.0	0.0	120.37	N-4	-0.13	120.24	No	NA
2022-09-12	2022-09-14	07:55	0.0	0.0	120.31	N-1	-0.04	120.27	No	NA
2022-09-19	2022-09-21	08:10	0.0	0.0	120.52	287303	-0.21	120.31[j]	No	NA
2022-09-26	2022-09-28	08:20	0.0	0.6	120.38	N-3	-0.10	120.28	No	NA
2022-10-03	2022-10-05	08:00	0.0	0.1	120.42	N-3	-0.10	120.32	No	NA
2022-10-17	2022-10-19	08:00	0.0	0.0	120.44	N-6	-0.10	120.34	No	NA
2022-10-17	2022-10-21	07:50	0.0	0.0	120.46	N-3	-0.10	120.36	No	NA
2022-10-24	2022-10-25	08:00	0.0	0.0	120.45	N-3	-0.10	120.35	No	NA
2022-10-24	2022-10-28	07:45	0.0	0.1	120.44	N-3	-0.10	120.34	No	NA
2022-10-31	2022-11-02	08:10	0.0	0.0	120.41	N-5	-0.04	120.37	No	NA
2022-10-31	2022-11-04	07:50	0.0	0.0	120.41	N-3	-0.10	120.31	No	NA
2022-11-07	2022-11-09	09:25	0.0	0.0	120.35	N-6	-0.10	120.25	No	NA
2022-11-07	2022-11-11	08:05	0.0	0.0	120.36	N-3	-0.10	120.26	No	NA
2022-11-14	2022-11-16	08:20	0.0	0.0	120.42	N-3	-0.10	120.32	No	NA
2022-11-14	2022-11-18	08:00	0.2	5.3	120.37	N-5	-0.04	120.33	No	NA
2022-11-19	2022-11-20	07:25	0.0	0.0	120.43	N-6	-0.10	120.33	No	NA
2022-11-19	2022-11-23	07:45	0.0	0.0	120.40	N-3	-0.10	120.30	No	NA
2022-11-28	2022-11-30	08:00	0.0	0.0	120.28	N-5	-0.04	120.24	No	NA
2022-12-19	2022-12-21	08:12	0.0	0.0	120.35	N-3	-0.10	120.25	No	NA
2022-12-26	2022-12-30	07:40	0.0	0.2	120.35	N-3	-0.10	120.25	No	NA
2023-01-02	2023-01-06	08:00	0.0	0.1	120.39	N-3	-0.10	120.29	No	NA
2023-01-09	2023-01-12	07:55	0.0	0.0	120.41	N-6	-0.10	120.31	No	NA
2023-01-16	2023-01-19	07:47	0.0	0.0	120.37	N-3	-0.10	120.27	No	NA
2023-01-23	2023-01-26	08:40	0.0	0.0	120.45	N-3	-0.10	120.35	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	RHMW2254-01									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	12/8/2021	10:03	0.0	110.1	NA	NA	NA	NA	Yes	NA
2021-12-13	12/15/2021	08:15	0.0	78.4	NA	NA	NA	NA	Yes	NA
2021-12-20	12/21/2021	08:10	0.4	0.4	NA	NA	NA	NA	No	NA
2021-12-27	12/27/2021	09:00	0.0	0.0	NA	NA	NA	NA	No	NA
2022-01-03	2022-01-03	08:20	0.4	0.4	NA	NA	NA	NA	No	NA
2022-01-10	2022-01-10	09:30	0.2	0.2	NA	NA	NA	NA	No	NA
2022-01-16	2022-01-20	08:50	1.1	1.1	NA	NA	NA	NA	No	NA
2022-01-24	2022-01-24	08:00	0.1	0.1	NA	NA	NA	NA	No	NA
2022-01-31	2022-02-03	08:35	1.6	1.6	87.86	N-1	-0.01	87.85	No	NA
2022-02-07	2022-02-10	08:45	0.0	0.0	87.91	N-1	-0.01	87.90	No	NA
2022-02-14	2022-02-17	08:15	0.6	0.6	87.90	N-1	-0.01	87.89	No	NA
2022-02-21	2022-02-22	08:23	1.4	1.4	87.96	N-1	-0.01	87.95	No	NA
2022-02-28	2022-03-03	08:10	0.2	0.2	88.12[b]	311836	0.00	88.12[b]	No	NA
2022-03-07	2022-03-09	12:50	0.0	0.0	88.01	N-2	-0.02	87.99	No	NA
2022-03-14	2022-03-17	08:30	0.0	0.0	87.99	N-2	-0.02	87.97	No	NA
2022-03-21	2022-03-24	08:30	0.8	0.8	87.97	N-2	-0.02	87.95	No	NA
2022-03-28	2022-03-29	09:55	0.0	0.0	87.94	N-2	-0.02	87.92	No	NA
2022-04-04	2022-04-07	09:45	0.3	0.3	87.86	N-1	-0.01	87.85	No	NA
2022-04-25	2022-04-28	10:00	0.1	0.1	87.83	N-1	-0.01	87.82	No	NA
2022-05-02	2022-05-05	10:20	0.4	0.4	87.81	N-1	-0.01	87.80	No	NA
2022-05-09	2022-05-12	08:45	0.0	0.0	87.84	N-1	-0.01	87.83	No	NA
2022-05-16	2022-05-19	08:30	0.0	0.0	87.88	N-1	-0.01	87.87	No	NA
2022-05-23	2022-05-26	10:15	0.0	0.0	87.82	N-1	-0.01	87.81	No	NA
2022-05-30	2022-06-02	09:37	0.0	0.1	88.08	N-2	-0.02	88.06	No	NA
2022-06-06	2022-06-09	08:30	0.0	0.0	88.17	N-1	-0.01	88.16	No	NA
2022-06-13	2022-06-16	08:15	0.0	0.0	87.96	N-1	-0.01	87.95	No	NA
2022-06-20	2022-06-23	09:36	0.0	0.0	87.99	N-1	-0.01	87.98	No	NA
2022-06-27	2022-07-01	08:55	0.0	0.0	88.09	N-1	-0.01	88.08	No	NA
2022-07-04	2022-07-07	08:35	0.0	0.0	88.08	N-1	-0.01	88.07	No	NA
2022-07-11	2022-07-13	08:18	0.0	0.0	88.09	N-1	-0.01	88.08	No	NA
2022-08-01	2022-08-04	08:40	0.0	0.0	88.12	N-1	-0.01	88.11	No	NA
2022-08-08	2022-08-11	12:55	0.0	0.0	88.16	N-1	-0.01	88.15	No	NA
2022-08-15	2022-08-18	11:30	0.0	0.3	88.08	N-1	-0.01	88.07	No	NA
2022-08-22	2022-08-25	09:50	0.0	0.0	88.53	N-1	-0.01	88.52	Yes[i]	0.0
2022-08-29	2022-09-01	09:34	0.1	0.1	88.46	N-1	-0.01	88.45	No	NA
2022-09-06	2022-09-08	08:15	0.0	0.0	88.48	N-1	-0.01	88.47	No	NA
2022-09-12	2022-09-15	08:05	0.0	0.0	88.48	N-1	-0.01	88.47	No	NA
2022-09-19	2022-09-22	11:55	0.1	0.1	88.86	01-8859	0.00	88.86[j]	No	NA
2022-09-26	2022-09-29	08:36	0.0	0.0	88.45	N-3	-0.06	88.39	No	NA
2022-10-03	2022-10-06	08:20	0.0	0.0	88.47	N-1	-0.02	88.45	No	NA
2022-10-17	2022-10-18	08:18	0.0	0.0	88.49	N-5	0.00	88.49	No	NA
2022-10-17	2022-10-20	08:45	0.0	0.0	88.46	N-1	-0.02	88.44	No	NA
2022-10-24	2022-10-25	08:40	0.0	0.0	88.62	N-5	0.00	88.62	No	NA
2022-10-24	2022-10-27	08:00	0.0	0.0	88.46	N-3	-0.06	88.40	No	NA
2022-10-31	2022-11-01	08:30	0.0	0.0	88.66	N-3	-0.06	88.60	No	NA
2022-10-31	2022-11-03	08:20	0.0	0.0	88.43	N-5	0.00	88.43	No	NA
2022-11-07	2022-11-08	09:40	0.0	0.0	88.42	N-4	-0.08	88.34	No	NA
2022-11-07	2022-11-10	08:30	0.0	0.0	88.56	N-5	0.00	88.56	No	NA
2022-11-14	2022-11-15	07:55	0.0	0.0	88.79	N-4	-0.08	88.71	No	NA
2022-11-14	2022-11-17	10:44	0.0	0.0	88.64	N-4	-0.08	88.56	No	NA
2022-11-19	2022-11-20	08:38	0.0	0.0	88.52	N-3	-0.06	88.46	No	NA
2022-11-19	2022-11-22	10:03	0.2	0.2	88.38	N-5	0.00	88.38	No	NA
2022-11-28	2022-12-01	11:25	0.0	0.0	88.36	N-6	-0.06	88.30	No	NA
2022-12-19	2022-12-21	12:24	0.0	0.0	88.25	N-5	0.00	88.25	No	NA
2022-12-26	2022-12-29	11:05	0.0	0.0	88.46	N-5	0.00	88.46	No	NA
2023-01-02	2023-01-05	08:32	0.0	0.0	88.32	N-5	0.00	88.32	No	NA
2023-01-09	2023-01-11	11:00	0.0	0.0	88.63	N-3	-0.06	88.57	No	NA
2023-01-16	2023-01-18	11:07	0.0	0.0	88.57	N-3	-0.06	88.51	No	NA
2023-01-23	2023-01-26	11:45	0.0	0.0	88.64	N-4	-0.08	88.56	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	OWDFMW04A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/30/2021	08:49	13.1	0.0	148.55	N-1	-0.01	148.54	No	NA
2022-01-03	2022-01-06	12:40	0.0	0.0	148.23	N-2	-0.03	148.20	No	NA
2022-01-10	2022-01-13	11:30	0.0	0.0	148.23	N-2	-0.03	148.20	No	NA
2022-01-16	2022-01-16	11:48	0.0	0.0	148.19	N-2	-0.03	148.16	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	10:40	0.1	0.0	148.69	N-2	-0.03	148.66	No	NA
2022-03-07	2022-03-09	10:30	0.1	0.0	148.40	N-3	-0.08	148.32	No	NA
2022-03-14	2022-03-16	11:20	0.1	0.0	148.68	N-3	-0.08	148.60	No	NA
2022-03-21	2022-03-21	11:20	0.4	0.2	148.68	N-3	-0.08	148.60	No	NA
2022-03-28	2022-03-28	10:50	0.1	0.0	148.63	N-3	-0.08	148.55	No	NA
2022-04-04	2022-04-05	10:20	0.0	0.2	148.61	N-3	-0.08	148.53	No	NA
2022-04-25	2022-04-25	10:04	0.0	0.0	148.62	N-3	-0.08	148.54	No	NA
2022-05-02	2022-05-02	11:00	0.0	0.0	148.62	N-3	-0.08	148.54	No	NA
2022-05-09	2022-05-09	12:15	0.0	0.0	148.57	N-3	-0.08	148.49	No	NA
2022-05-16	2022-05-18	10:18	0.0	0.0	148.65	N-4	-0.11	148.54	No	NA
2022-05-23	2022-05-23	12:10	0.0	0.0	148.56	N-3	-0.08	148.48	No	NA
2022-05-30	2022-06-03	10:10	0.1	0.0	148.63	N-4	-0.11	148.52	No	NA
2022-06-06	2022-06-06	11:25	0.0	0.0	148.63	N-4	-0.11	148.52	No	NA
2022-06-13	2022-06-13	10:15	0.0	0.0	148.74	N-4	-0.11	148.63	No	NA
2022-06-20	2022-06-22	10:35	0.0	0.1	148.72	N-4	-0.11	148.61	No	NA
2022-06-27	2022-06-30	10:45	0.0	0.0	148.80	N-3	-0.08	148.72	No	NA
2022-07-04	2022-07-05	13:05	0.0	0.0	148.78	N-3	-0.08	148.70	No	NA
2022-07-11	2022-07-15	10:45	0.0	0.0	148.84	N-3	-0.08	148.76	No	NA
2022-08-01	2022-08-01	10:40	0.0	0.0	148.93	N-3	-0.08	148.85	No	NA
2022-08-08	2022-08-08	10:15	0.0	0.1	148.95	N-3	-0.08	148.87	No	NA
2022-08-15	2022-08-15	10:55	0.1	0.1	148.98	N-3	-0.08	148.90	No	NA
2022-08-22	2022-08-22	09:45	0.0	0.1	149.07	N-3	-0.08	148.99	No	NA
2022-08-29	2022-08-29	11:30	0.0	0.0	149.07	N-3	-0.08	148.99	No	NA
2022-09-06	2022-09-06	11:10	0.0	0.0	149.14	N-4	-0.11	149.03	No	NA
2022-09-12	2022-09-12	11:05	0.0	0.0	149.05	N-4	-0.11	148.94	No	NA
2022-09-19	2022-09-21	11:10	0.0	0.0	149.09	25142	-0.12	148.97[j]	No	NA
2022-09-26	2022-09-26	11:55	0.0	0.0	149.06	N-1	-0.04	149.02	No	NA
2022-10-03	2022-10-03	10:35	0.0	0.0	149.05	N-3	-0.08	148.97	No	NA
2022-10-17	2022-10-17	12:10	0.0	0.0	149.17	N-3	-0.08	149.09	No	NA
2022-10-17	2022-10-21	12:50	0.0	0.0	149.12	N-6	-0.07	149.05	No	NA
2022-10-24	2022-10-26	11:25	0.0	0.0	149.13	N-3	-0.08	149.05	No	NA
2022-10-24	2022-10-28	11:30	0.0	32.4[k]	149.05	N-6	-0.07	148.98	No	NA
2022-10-31	2022-10-31	10:45	0.0	0.0	149.05	N-3	-0.08	148.97	No	NA
2022-10-31	2022-11-04	10:29	0.0	0.0	148.96	N-5	-0.02	148.94	No	NA
2022-11-07	2022-11-08	13:50	0.0	0.0	149.00	N-6	-0.07	148.93	No	NA
2022-11-07	2022-11-11	11:05	0.0	0.0	149.11	N-6	-0.07	149.04	No	NA
2022-11-14	2022-11-14	10:15	0.0	0.0	148.99	N-5	-0.02	148.97	No	NA
2022-11-14	2022-11-18	10:50	0.0	0.0	149.15	N-4	-0.11	149.04	No	NA
2022-11-19	2022-11-21	11:18	0.0	0.0	149.11	N-3	-0.08	149.03	No	NA
2022-11-19	2022-11-23	10:10	0.0	0.3	149.03	N-6	-0.07	148.96	No	NA
2022-11-28	2022-12-01	10:00	0.0	0.2	148.95	N-5	-0.02	148.93	No	NA
2022-12-19	2022-12-19	10:40	0.0	0.0	148.89	N-3	-0.08	148.81	No	NA
2022-12-26	2022-12-29	09:45	0.0	0.0	148.99	N-3	-0.08	148.91	No	NA
2023-01-02	2023-01-05	09:55	0.0	0.0	149.04	N-3	-0.08	148.96	No	NA
2023-01-09	2023-01-11	10:45	0.0	0.0	149.00	N-5	-0.02	148.98	No	NA
2023-01-16	2023-01-18	10:50	0.0	0.0	149.00	N-5	-0.02	148.98	No	NA
2023-01-23	2023-01-24	10:35	0.0	0.0	149.09	N-3	-0.08	149.01	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	OWDFMW05A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/31/2021	09:15	0.0	0.0	100.29	N-1	-0.01	100.28	No	NA
2022-01-03	2022-01-06	08:35	0.0	2.1	100.06	N-1	-0.01	100.05	No	NA
2022-01-10	2022-01-13	08:05	0.0	0.0	100.02	N-1	-0.01	100.01	No	NA
2022-01-16	2022-01-16	08:20	0.0	0.0	100.09	N-1	-0.01	100.08	No	NA
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-28	2022-03-02	07:30	0.1	0.0	100.48	N-2	-0.02	100.46	No	NA
2022-03-07	2022-03-07	12:35	0.1	0.0	101.46	N-3	-0.06	101.40	No	NA
2022-03-14	2022-03-17	08:00	0.2	0.0	100.45	N-3	-0.06	100.39	No	NA
2022-03-21	2022-03-22	09:00	1.2	0.0	100.49	N-2	-0.02	100.47	No	NA
2022-03-28	2022-03-28	08:30	0.1	0.0	100.44	N-3	-0.06	100.38	No	NA
2022-04-04	2022-04-05	08:20	0.1	0.3	100.41	N-3	-0.06	100.35	No	NA
2022-04-25	2022-04-25	07:45	0.0	0.0	100.43	N-3	-0.06	100.37	No	NA
2022-05-02	2022-05-02	08:15	0.0	0.0	100.40	N-3	-0.06	100.34	No	NA
2022-05-09	2022-05-09	08:15	0.0	0.0	100.41	N-3	-0.06	100.35	No	NA
2022-05-16	2022-05-18	08:10	0.0	0.0	100.44	N-4	-0.09	100.35	No	NA
2022-05-23	2022-05-23	08:20	0.2	1.4	100.41	N-3	-0.06	100.35	No	NA
2022-05-30	2022-06-03	07:45	0.1	0.0	100.44	N-4	-0.09	100.35	No	NA
2022-06-06	2022-06-06	08:00	0.0	0.0	100.44	N-4	-0.09	100.35	No	NA
2022-06-13	2022-06-13	08:00	0.0	0.0	100.54	N-4	-0.09	100.45	No	NA
2022-06-20	2022-06-20	12:30	0.0	0.0	100.39	N-3	-0.06	100.33	No	NA
2022-06-27	2022-06-30	08:00	0.0	0.0	100.59	N-3	-0.06	100.53	No	NA
2022-07-04	2022-07-08	08:05	0.0	0.0	100.61	N-3	-0.06	100.55	No	NA
2022-07-11	2022-07-15	08:00	0.0	0.0	100.60	N-3	-0.06	100.54	No	NA
2022-08-01	2022-08-01	08:15	0.0	0.0	100.73	N-3	-0.06	100.67	No	NA
2022-08-08	2022-08-08	08:00	0.0	0.1	100.79	N-3	-0.06	100.73	No	NA
2022-08-15	2022-08-15	08:35	0.1	0.1	100.79	N-3	-0.06	100.73	No	NA
2022-08-22	2022-08-22	08:00	0.0	0.0	100.86	N-3	-0.06	100.80	No	NA
2022-08-29	2022-08-29	08:35	0.0	0.0	100.80	N-3	-0.06	100.74	No	NA
2022-09-06	2022-09-06	08:15	0.0	0.0	100.98	N-4	-0.09	100.89	No	NA
2022-09-12	2022-09-12	08:20	0.0	0.0	100.85	N-4	-0.09	100.76	No	NA
2022-09-19	2022-09-19	11:20	0.0	0.1	100.86	25142	-0.09	100.77[j]	No	NA
2022-09-26	2022-09-26	09:10	0.0	0.0	100.83	N-1	-0.03	100.80	No	NA
2022-10-03	2022-10-03	08:05	0.0	0.0	100.92	N-3	-0.06	100.86	No	NA
2022-10-17	2022-10-17	08:20	0.0	0.0	101.02	N-3	-0.06	100.96	No	NA
2022-10-17	2022-10-21	08:10	0.0	0.0	100.97	N-6	-0.06	100.91	No	NA
2022-10-24	2022-10-26	08:20	0.0	0.0	100.93	N-3	-0.06	100.87	No	NA
2022-10-24	2022-10-28	08:20	0.0	0.0	100.87	N-6	-0.06	100.81	No	NA
2022-10-31	2022-10-31	08:10	0.0	0.0	100.92	N-3	-0.06	100.86	No	NA
2022-10-31	2022-11-04	08:00	0.0	0.0	100.82	N-5	0.00	100.82	No	NA
2022-11-07	2022-11-08	09:05	0.0	0.0	100.79	N-1	-0.03	100.76	No	NA
2022-11-07	2022-11-11	07:50	0.0	0.0	101.05	N-6	-0.06	100.99	No	NA
2022-11-14	2022-11-14	08:05	0.0	0.1	100.82	N-5	0.00	100.82	No	NA
2022-11-14	2022-11-18	08:30	0.0	0.0	100.93	N-4	-0.09	100.84	No	NA
2022-11-19	2022-11-21	08:43	0.0	0.0	100.94	N-3	-0.06	100.88	No	NA
2022-11-19	2022-11-23	07:50	0.0	0.0	100.89	N-6	-0.06	100.83	No	NA
2022-11-28	2022-12-01	07:45	0.0	1.4	100.79	N-5	0.00	100.79	No	NA
2022-12-19	2022-12-19	08:15	0.0	0.0	100.72	N-3	-0.06	100.66	No	NA
2022-12-26	2022-12-29	08:00	0.0	0.0	100.82	N-3	-0.06	100.76	No	NA
2023-01-02	2023-01-05	07:45	0.0	0.1	100.85	N-3	-0.06	100.79	No	NA
2023-01-09	2023-01-11	08:20	0.0	0.1	100.82	N-5	0.00	100.82	No	NA
2023-01-16	2023-01-18	08:25	0.0	0.0	100.82	N-5	0.00	100.82	No	NA
2023-01-23	2023-01-24	08:50	0.0	0.0	100.91	N-3	-0.06	100.85	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	OWDFMW07A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/31/2021	13:40	0.0	0.0	101.19	N-1	-0.01	101.18	No	NA
2022-01-03	2022-01-06	11:30	0.0	2.0	100.83	N-1	-0.01	100.82	No	NA
2022-01-10	2022-01-13	11:20	1.7	1.5	100.89	N-1	-0.01	100.88	No	NA
2022-01-16	2022-01-20	07:55	0.0	0.0	100.83	N-2	-0.02	100.81	N0	NA
2022-01-24	2022-01-24	12:24	0.0	0.0	100.87	N-2	-0.02	100.85	No	NA
2022-01-31	2022-02-02	12:50	0.1	0.0	101.10	N-2	-0.02	101.08	No	NA
2022-02-07	2022-02-09	12:30	0.0	0.0	101.16	N-1	-0.01	101.15	No	NA
2022-02-14	2022-02-17	08:30	0.0	0.0	101.18	N-1	-0.01	101.17	No	NA
2022-02-21	2022-02-23	00:40	0.1	0.0	101.40	N-2	-0.02	101.38	No	NA
2022-02-28	2022-02-28	00:15	0.0	0.0	101.32	N-2	-0.02	101.30	No	NA
2022-03-07	2022-03-09	07:30	0.0	0.0	101.34	N-3	-0.06	101.28	No	NA
2022-03-14	2022-03-16	08:30	0.1	0.0	101.35	N-3	-0.06	101.29	No	NA
2022-03-21	2022-03-23	11:10	0.3	0.0	101.36	N-2	-0.02	101.34	No	NA
2022-03-28	2022-03-31	08:00	0.0	0.0	101.32	N-3	-0.06	101.26	No	NA
2022-04-04	2022-04-07	07:50	0.0	0.0	101.32	N-3	-0.06	101.26	No	NA
2022-04-25	2022-04-27	12:40	0.0	0.0	101.30	N-4	-0.09	101.21	No	NA
2022-05-02	2022-05-05	08:45	0.0	0.0	101.27	N-3	-0.06	101.21	No	NA
2022-05-09	2022-05-12	12:35	0.1	0.0	101.25	N-3	-0.06	101.19	No	NA
2022-05-16	2022-05-19	11:33	0.0	0.0	101.31	N-4	-0.09	101.22	No	NA
2022-05-23	2022-05-23	08:05	0.0	0.0	101.25	N-3	-0.06	101.19	No	NA
2022-05-30	2022-06-02	08:00	0.1	0.0	101.32	N-4	-0.09	101.23	No	NA
2022-06-06	2022-06-08	08:15	0.0	0.0	101.34	N-4	-0.09	101.25	No	NA
2022-06-13	2022-06-16	08:00	0.0	0.0	101.35	N-4	-0.09	101.26	No	NA
2022-06-20	2022-06-21	11:30	1.3	5.6	101.24	N-4	-0.09	101.15	No	NA
2022-06-27	2022-07-01	09:07	0.0	0.0	101.42	N-3	-0.06	101.36	No	NA
2022-07-04	2022-07-07	08:30	0.0	0.0	101.48	N-3	-0.06	101.42	No	NA
2022-07-11	2022-07-13	08:00	0.0	0.0	101.52	N-3	-0.06	101.46	No	NA
2022-08-01	2022-08-04	07:50	0.0	0.1	101.61	N-3	-0.06	101.55	No	NA
2022-08-08	2022-08-11	08:30	0.0	0.0	101.65	N-3	-0.06	101.59	No	NA
2022-08-15	2022-08-18	11:05	0.0	0.0	101.66	N-3	-0.06	101.60	No	NA
2022-08-22	2022-08-23	08:00	0.0	0.0	101.76	N-3	-0.06	101.70	No	NA
2022-08-29	2022-08-30	08:35	0.0	0.0	101.76	N-3	-0.06	101.70	No	NA
2022-09-06	2022-09-08	08:50	0.0	0.2	101.80	N-4	-0.09	101.71	No	NA
2022-09-12	2022-09-15	07:50	0.0	0.1	101.73	N-5	-0.01	101.72	No	NA
2022-09-19	2022-09-20	09:15	0.0	0.0	101.80	25142	-0.09	101.71[j]	No	NA
2022-09-26	2022-09-29	08:00	0.0	0.0	101.82	N-4	-0.09	101.73	No	NA
2022-10-03	2022-10-06	07:45	0.0	0.0	101.85	N-4	-0.09	101.76	No	NA
2022-10-17	2022-10-17	08:00	0.0	0.0	101.79	N-6	-0.06	101.73	No	NA
2022-10-17	2022-10-21	07:45	0.0	0.0	101.80	N-4	-0.09	101.71	No	NA
2022-10-24	2022-10-24	07:45	0.2	0.0	101.82	N-3	-0.06	101.76	No	NA
2022-10-24	2022-10-28	07:45	0.0	0.0	101.70	N-5	-0.01	101.69	No	NA
2022-10-31	2022-10-31	08:25	0.0	0.0	101.81	N-4	-0.09	101.72	No	NA
2022-10-31	2022-11-04	07:40	0.0	0.1	101.77	N-6	-0.06	101.71	No	NA
2022-11-07	2022-11-08	08:00	0.0	0.0	101.69	N-6	-0.06	101.63	No	NA
2022-11-07	2022-11-11	07:39	0.0	0.0	101.67	N-5	-0.01	101.66	No	NA
2022-11-14	2022-11-14	08:05	0.0	0.0	101.76	N-6	-0.06	101.70	No	NA
2022-11-14	2022-11-18	07:55	0.0	0.0	101.81	N-6	-0.06	101.75	No	NA
2022-11-19	2022-11-20	10:20	0.0	0.0	101.82	N-4	-0.09	101.73	No	NA
2022-11-19	2022-11-23	07:30	0.0	0.0	101.81	N-4	-0.09	101.72	No	NA
2022-11-28	2022-11-28	08:00	0.0	0.1	101.45	N-5	-0.01	101.44	No	NA
2022-12-19	2022-12-22	07:50	0.0	0.0	101.69	N-3	-0.06	101.63	No	NA
2022-12-26	2022-12-27	08:00	0.0	0.0	101.70	N-3	-0.06	101.64	No	NA
2023-01-02	2023-01-03	08:00	0.0	0.0	101.74	N-3	-0.06	101.68	No	NA
2023-01-09	2023-01-09	07:55	0.0	0.0	101.79	N-3	-0.06	101.73	No	NA
2023-01-16	2023-01-16	08:10	0.0	0.0	101.78	N-3	-0.06	101.72	No	NA
2023-01-23	2023-01-23	07:55	0.0	0.0	101.81	N-3	-0.06	101.75	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Monitoring Well Headspace and Fuel Product Gauging

	OWDFMW08A									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WL SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2021-11-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	12/30/2021	14:50	6.2	19.8	115.31	N-1	-0.01	115.30	No	NA
2022-01-03	2022-01-06	08:45	0.0	0.0	115.16	N-1	-0.01	115.15	No	NA
2022-01-10	2022-01-13	08:30	0.0	0.0	115.13	N-2	-0.03	115.10	No	NA
2022-01-16	2022-01-16	08:10	0.0	0.0	114.97	N-2	-0.03	114.94	No	NA
2022-01-24	2022-01-24	08:35	0.0	0.0	115.01	N-2	-0.03	114.98	No	NA
2022-01-31	2022-02-02	08:15	0.4	0.3	115.30	N-1	-0.01	115.29	No	NA
2022-02-07	2022-02-09	08:00	0.0	0.0	115.41	N-1	-0.01	115.40	No	NA
2022-02-14	2022-02-16	08:45	0.0	0.0	115.38	N-1	-0.01	115.37	No	NA
2022-02-21	2022-02-23	08:00	0.1	0.0	115.43	N-2	-0.03	115.40	No	NA
2022-02-28	2022-02-28	07:30	0.1	0.0	115.44	N-2	-0.03	115.41	No	NA
2022-03-07	2022-03-07	08:00	0.1	0.0	115.46	N-3	-0.07	115.39	No	NA
2022-03-14	2022-03-17	11:00	0.2	0.0	115.51	N-3	-0.07	115.44	No	NA
2022-03-21	2022-03-24	12:00	0.3	0.0	115.49	N-3	-0.07	115.42	No	NA
2022-03-28	2022-03-31	10:30	0.0	0.0	115.46	N-3	-0.07	115.39	No	NA
2022-04-04	2022-04-07	10:10	0.0	0.0	115.32	N-3	-0.07	115.25	No	NA
2022-04-25	2022-04-27	08:45	0.0	0.0	115.45	N-4	-0.10	115.35	No	NA
2022-05-02	2022-05-05	12:00	0.0	0.0	115.40	N-3	-0.07	115.33	No	NA
2022-05-09	2022-05-12	08:35	0.0	0.0	115.41	N-3	-0.07	115.34	No	NA
2022-05-16	2022-05-19	08:20	0.0	0.0	115.43	N-4	-0.10	115.33	No	NA
2022-05-23	2022-05-26	10:10	0.0	0.0	115.37	N-3	-0.07	115.30	No	NA
2022-05-30	2022-06-02	10:20	0.1	0.0	115.44	N-4	-0.10	115.34	No	NA
2022-06-06	2022-06-08	10:55	0.0	0.0	115.45	N-4	-0.10	115.35	No	NA
2022-06-13	2022-06-16	10:37	0.0	0.0	115.48	N-4	-0.10	115.38	No	NA
2022-06-20	2022-06-23	08:00	0.0	0.0	115.54	N-4	-0.10	115.44	No	NA
2022-06-27	2022-07-01	11:55	0.0	0.1	115.59	N-3	-0.07	115.52	No	NA
2022-07-04	2022-07-07	08:30	0.0	0.0	115.52	N-3	-0.07	115.45	No	NA
2022-07-11	2022-07-13	10:45	0.1	0.0	115.63	N-3	-0.07	115.56	No	NA
2022-08-01	2022-08-04	10:18	0.0	0.1	115.70	N-3	-0.07	115.63	No	NA
2022-08-08	2022-08-11	11:45	0.0	0.0	115.79	N-3	-0.07	115.72	No	NA
2022-08-15	2022-08-19	08:50	0.0	0.0	115.82	N-3	-0.07	115.75	No	NA
2022-08-22	2022-08-23	10:15	0.0	0.1	115.88	N-3	-0.07	115.81	No	NA
2022-08-29	2022-08-31	11:53	0.0	0.0	115.87	N-3	-0.07	115.80	No	NA
2022-09-06	2022-09-08	11:43	0.3	0.8	115.94	N-4	-0.10	115.84	No	NA
2022-09-12	2022-09-15	10:15	0.0	0.1	115.82	N-5	-0.01	115.81	No	NA
2022-09-19	2022-09-22	12:40	0.0	0.1	115.94	25142	-0.10	115.84[j]	No	NA
2022-09-26	2022-09-29	11:48	0.0	0.0	115.95	N-4	-0.10	115.85	No	NA
2022-10-03	2022-10-06	10:57	0.0	0.0	115.99	N-4	-0.10	115.89	No	NA
2022-10-17	2022-10-17	11:00	0.0	0..0	115.94	N-6	-0.07	115.87	No	NA
2022-10-17	2022-10-21	10:25	0.0	0.0	116.03	N-4	-0.10	115.93	No	NA
2022-10-24	2022-10-24	10:25	0.0	0.0	115.97	N-3	-0.07	115.90	No	NA
2022-10-24	2022-10-28	10:48	0.0	0.0	115.83	N-5	-0.01	115.82	No	NA
2022-10-31	2022-10-31	10:45	0.0	0.0	115.94	N-4	-0.10	115.84	No	NA
2022-10-31	2022-11-04	10:48	0.0	0.1	115.85	N-6	-0.07	115.78	No	NA
2022-11-07	2022-11-08	11:40	0.0	0.0	115.83	N-6	-0.07	115.76	No	NA
2022-11-07	2022-11-11	10:40	0.0	0.0	115.82	N-5	-0.01	115.81	No	NA
2022-11-14	2022-11-14	11:05	0.0	0.0	115.90	N-5	-0.01	115.89	No	NA
2022-11-14	2022-11-18	11:40	0.0	0.0	115.93	N-6	-0.07	115.86	No	NA
2022-11-19	2022-11-20	13:54	0.0	0.0	115.92	N-4	-0.10	115.82	No	NA
2022-11-19	2022-11-23	09:45	0.0	0.0	115.96	N-4	-0.10	115.86	No	NA
2022-11-28	2022-11-28	10:22	0.0	0.0	115.61	N-5	-0.01	115.60	No	NA
2022-12-19	2022-12-22	11:05	0.0	0.0	115.83	N-3	-0.07	115.76	No	NA
2022-12-26	2022-12-27	10:03	0.0	0.0	115.83	N-3	-0.07	115.76	No	NA
2023-01-02	2023-01-03	10:05	0.0	0.0	115.88	N-3	-0.07	115.81	No	NA
2023-01-09	2023-01-09	10:12	0.0	0.0	115.90	N-3	-0.07	115.83	No	NA
2023-01-16	2023-01-16	10:10	0.0	0.0	115.91	N-3	-0.07	115.84	No	NA
2023-01-23	2023-01-23	10:45	0.0	0.0	115.93	N-3	-0.07	115.86	No	NA

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
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Monitoring Well Headspace and Fuel Product Gauging

	RHMW17									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2022-06-13	6/15/2022[g]	12:20	0.0	8.8	237.90	N-4	-0.14	237.76	No	NA
2022-06-20	2022-06-23	12:05	0.0	0.1	234.00	N-1	-0.02	233.98	No	NA
2022-06-27	2022-07-01	12:40	0.0	0.0	234.09	N-4	-0.14	233.95	No	NA
2022-07-04	2022-07-06	11:55	0.0	0.0	234.07	N-3	-0.10	233.97	No	NA
2022-07-11	2022-07-12	12:40	0.0	0.0	234.07	N-3	-0.10	233.97	No	NA
2022-08-01	2022-08-03	10:45	0.0	0.0	234.21	N-2	-0.04	234.17	No	NA
2022-08-08	2022-08-10	10:50	0.0	0.2	234.25	N-3	-0.10	234.15	No	NA
2022-08-15	2022-08-17	10:20	0.0	0.0	234.33	N-4	-0.14	234.19	No	NA
2022-08-22	2022-08-24	11:20	0.1	0.3	234.36	N-3	-0.10	234.26	No	NA
2022-08-29	2022-08-31	12:13	0.0	0.0	234.44	N-4	-0.14	234.30	No	NA
2022-09-07	2022-09-09	12:50	0.0	0.0	234.23	N-4	-0.14	234.09	No	NA
2022-09-12	2022-09-14	10:53	0.0	0.0	234.50	N-4	-0.14	234.36	No	NA
2022-09-19	2022-09-21	12:15	0.0	0.0	234.52	01-8854	-0.20	234.32[j]	No	NA
2022-09-26	2022-09-28	14:15	0.0	0.1	234.41	N-3	-0.10	234.31	No	NA
2022-10-03	2022-10-05	12:17	0.0	0.3	234.44	N-3	-0.10	234.34	No	NA
2022-10-17	2022-10-19	11:10	0.0	0.0	234.49	N-6	-0.09	234.40	No	NA
2022-10-17	2022-10-21	11:25	0.0	0.0	234.54	N-3	-0.10	234.44	No	NA
2022-10-24	2022-10-25	11:55	0.0	0.0	234.52	N-3	-0.10	234.42	No	NA
2022-10-24	2022-10-28	11:45	0.0	0.1	234.45	N-4	-0.14	234.31	No	NA
2022-10-31	2022-11-01	12:15	0.0	0.0	234.45	N-3	-0.10	234.35	No	NA
2022-10-31	2022-11-03	11:00	0.0	0.0	234.49	N-5	-0.03	234.46	No	NA
2022-11-07	2022-11-08	11:50	0.0	0.0	234.45	N-4	-0.14	234.31	No	NA
2022-11-07	2022-11-10	11:10	0.0	0.0	234.40	N-5	-0.03	234.37	No	NA
2022-11-14	2022-11-15	11:15	0.0	0.0	234.55	N-4	-0.14	234.41	No	NA
2022-11-14	2022-11-17	12:41	0.0	0.0	234.56	N-4	-0.14	234.42	No	NA
2022-11-19	2022-11-20	11:25	0.0	0.0	234.56	N-3	-0.10	234.46	No	NA
2022-11-19	2022-11-22	8:10	0.0	0.0	234.45	N-5	-0.03	234.42	No	NA
2022-11-28	2022-11-30	10:35	0.0	0.0	234.36	N-5	-0.03	234.33	No	NA
2022-12-19	2022-12-21	11:15	0.0	0.0	234.44	N-3	-0.10	234.34	No	NA
2022-12-26	2022-12-30	10:39	0.0	0.0	234.43	N-3	-0.10	234.33	No	NA
2023-01-02	2023-01-06	10:23	0.0	0.1	234.50	N-3	-0.10	234.40	No	NA
2023-01-09	2023-01-12	10:55	0.0	0.0	234.51	N-6	-0.09	234.42	No	NA
2023-01-16	2023-01-19	10:57	0.0	0.0	234.47	N-3	-0.10	234.37	No	NA
2023-01-23	2023-01-26	12:58	0.0	0.0	234.49	N-3	-0.10	234.39	No	NA

Red Hill Bulk Fuel Storage Facility
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Monitoring Well Headspace and Fuel Product Gauging

	NMW24									
WEEK	DATE	TIME	AMBIENT	HEADSPACE	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[d,e] (ft btoc)	(Yes/No)	(ft)
2022-11-19	2022-11-22	9:00	0.1	0.1	92.11	N-2	-0.02	92.09	No	NA

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Sump Headspace, Fuel Product Gauging, and Parameters

	Adit 3 Sump Headspace and Product Gauging						
WEEK	DATE	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)
2022-12-13	2022-12-15	11:15	0.0	52.7	NM	NA	NA
2022-12-20	2022-12-20	13:00	0.3	41.2	NM	NA	NA
2022-12-27	2022-12-27	NC	NC	NC	NC	NC	NC
2022-01-03	2022-01-03	11:20	0.0	39.8	NM	NA	NA
2022-01-10	2022-01-11	11:50	0.0	7.4	NM	NA	NA
2022-01-17	2022-01-20	11:30	1.5	8.0	NM	NA	NA
2022-01-24	2022-01-24	10:45	0.2	23.9	NM	NA	NA
2022-01-31	2022-02-03	11:32	0.9	5.0	NM	NA	NA
2022-02-07	2022-02-10	11:55	0.0	5.1	NM	NA	NA
2022-02-14	2022-02-17	11:40	1.3	6.7	NM	NA	NA
2022-02-21	2022-02-22	11:10	0.8	5.2	NM	NA	NA
2022-02-28	2022-03-02	14:20	0.1	3.1	NM	NA	NA
2022-03-07	2022-03-08	11:45	0.0	0.0	NM	NA	NA
2022-03-14	2022-03-17	11:25	0.2	7.8	NM	NA	NA
2022-03-21	2022-03-24	11:04	0.5	8.1	NM	NA	NA
2022-03-28	2022-03-29	08:40	0.0	2.5	NM	NA	NA
2022-04-04	4/7/2022	08:50	0.8	3.0	NM	NA	NA
2022-04-25	4/28/2022	10:56	0.1	5.2	NM	NA	NA
2022-05-02	2022-05-05	09:10	0.5	0.6	NM	NA	NA
2022-05-09	2022-05-12	10:50	0.0	0.0	NM	NA	NA
2022-05-16	5/19/2022	10:45	0.0	0.0	NM	NA	NA
2022-05-23	2022-05-26	09:18	0.0	0.0	NM	NA	NA
2022-05-30	2022-06-02	09:01	0.0	0.0	NM	NA	NA
2022-06-06	6/9/2022	09:21	0.0	0.0	NM	NA	NA
2022-06-13	2022-06-16	10:26	0.0	0.0	NM	NA	NA
2022-06-20	2022-06-23	08:40	0.0	0.0	NM	NA	NA
2022-06-27	2022-07-01	11:31	0.0	0.0	NM	NA	NA
2022-07-04	2022-07-07	10:46	0.0	0.2	NM	NA	NA
2022-07-11	2022-07-13	10:24	0.0	0.0	NM	NA	NA
2022-08-01	2022-08-04	10:50	0.0	0.0	NM	NA	NA
2022-08-08	2022-08-11	15:17	0.0	0.0	NM	NA	NA
2022-08-15	2022-08-18	13:54	0.0	0.0	NM	NA	NA
2022-08-22	2022-08-25	13:14	0.0	0.0	NM	NA	NA
2022-08-29	2022-09-01	08:57	0.0	0.0	NM	NA	NA
2022-09-06	2022-09-08	10:38	0.1	0.1	NM	NA	NA
2022-09-12	2022-09-15	10:24	0.0	0.0	NM	NA	NA
2022-09-19	2022-09-22	11:09	0.1	0.1	NM	NA	NA
2022-09-29	2022-09-29	10:51	0.0	0.0	NM	NA	NA
2022-10-03	2022-10-05	13:25	0.2	7.9	NM	NA	NA
2022-10-17	2022-10-18	10:32	0.0	0.0	NM	NA	NA
2022-10-17	2022-10-20	10:51	0.0	0.0	NM	NA	NA
2022-10-24	2022-10-25	10:10	0.0	0.5	NM	NA	NA
2022-10-24	2022-10-27	09:56	0.0	0.5	NM	NA	NA
2022-10-31	2022-11-01	11:18	0.0	0.0	NM	NA	NA
2022-10-31	2022-11-03	09:54	0.0	0.0	NM	NA	NA
2022-11-07	2022-11-08	08:53	0.1	2.0	NM	NA	NA
2022-11-07	2022-11-10	10:14	0.0	0.1	NM	NA	NA
2022-11-14	2022-11-15	09:44	0.0	0.0	NM	NA	NA
2022-11-14	2022-11-17	10:11	0.0	0.0	NM	NA	NA
2022-11-19	2022-11-20	10:34	0.0	0.0	NM	NA	NA
2022-11-19	2022-11-22	11:31	0.0	0.0	NM	NA	NA
2022-11-28	2022-12-01	14:02	0.0	0.0	NM	NA	NA
2022-12-19	2022-12-21	11:25	0.0	0.1	NM	NA	NA
2022-12-26	2022-12-29	10:28	0.0	0.0	NM	NA	NA
2023-01-02	2023-01-05	12:44	0.0	0.0	NM	NA	NA
2023-01-09	2023-01-11	13:21	0.0	0.0	NM	NA	NA
2023-01-16	2023-01-18	13:43	0.0	0.0	NM	NA	NA
2023-01-23	2023-01-26	14:11	0.0	0.0	NM	NA	NA

NA = Not applicable

NM = No measurement taken

NC - Not collected

Table B.2.3 NOI Notes:

*Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed.
Wells with submerged screens will have a one-time bailer sample collected to verfiy no free product at the waters surface.
1 - One-time bailer sample collected at OWDFMW01 on 1 Dec 21. No fuel product observed.
2- One-time bailer samples collected at RHMW12A and RHMW16 on 22 Dec 21. No fuel product observed.
Subsequent samples collected via low-flow method will be observed for free product during collection and will be noted.
**Westbay is a closed system and the sample port is not located at the water's surface, therefore free product will not be captured or observed.
Headspace is measured from Westbay wells for almost all cannister pulls. The highest reading measured for each sample is shown in this
Samples collected from Westbay wells will be observed for free product during collection and will be noted.
DTW = Depth-to-water
ft = feet
ft btoc = feet below top of casing
ppmv = parts-per-million, volume
NA = Not applicable
NM = No measurement taken, due to equipment installed in well.
NC = Not collected
NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21.
NC2 = PID was not functioning properly and no reading was obtained
NC3 = Westbay winch malfunctioned on August 3, 2022. No samples collected pending arrival of replacement winch.
NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

Measurements were not collected during the weeks of 4/11/22, 4/18/22, 7/18/22, 7/25/22, 12/5/22, 12/12/22, 1/30/23 as LTM sampling was being
Measurements were not collected during the week of 10/10/22 due to unpacking event.

a: Intial reading recorded; however, subsequent follow up reading was <10ppm
b: Depth to water measured with an oil/water interface probe
c: Headspace reading was 0.0 ppm and bailer sample had no observable free product. During product gauging sensor alarmed; however, presence of small insects at the water surface in RHMW01R possibly interfered with sensor giving false reading.
d: Depth to water measurements are corrected from Solinst groundwater-level measuring tapes N-1 through N-6 using the USGS calibration results published in letters titled “Results from Calibration of Groundwater-Level Measuring Tapes” dated January 24, 2020 (N-1 and N-2) and December 14, 2022 (N 1, N-2, N-3, N-4, N 5 and N-6). Depth to water measurements are also corrected for horizontal well displacement derived from gyroscopic survey results for wells RHMW02 through RHMW06, RHMW08, RHMW09, and OWDFMW01 and are pending results for wells RHMW01R, RHMW12A, RHMW16, RHMW17, RHMW18, OWDFMW04A, OWDFMW05A, OWDFMW07A, and OWDFMW08A. Groundwater-level measuring tape and
e: Solinst N-3, N-4, N-5, and N-6 were introduced in March 2022, calibrated by the USGS in September 2022, and corrections applied for all
f: Detection signal (solid tone) from oil/water interface probe while product gauging at RHMW09. Headspace reading was 0.0 ppm and bailer sample had no observable free product, as shown in the associated fuel product gauging verification photos (Nov. 20 NOI FP Monitoring Photo_050922, PDF
g: Well entered into service after completion of well installation and development. First occurrence of NOI sampling
h: Runs 1-4 and 6 had consistent PID readings of 0.0 ppm. Run 5 had high reading (12ppm) on cannister 1 and when re-read all 4 cannisters on run 5
i: No observable product from oil/water interface probe or bailer water surface. Headspace VOCs = 0.0 ppm. Slight odor. Outside of bailer was slick and
j: Rental oil/water interface probes used while government-owned oil/water interface probes and water level meters N-1, N-2, N-3, N-4, N-5, and N-6 undergo calibration by USGS. A correction factor was determined by comparing with a government-owned meter and rental meter field measurements,
k: Headspace VOC reading 32.4 ppm. Initial measurement recorded, then PID re-zeroed in ambient air and subsequent reading still elevated. No odor

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP01										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-06-20	9:15	0.0	0.0	0.0	138.36	285817	N/A	138.36	No	N/A
2022-07-05	11:30	0.0	2.1	0.0	138.53	311836	N/A	138.53	No	N/A
2022-07-18	10:45	0.0	0.0	0.0	138.58	350335	N/A	138.58	No	N/A
2022-08-01	9:00	0.0	0.0	0.0	138.9	N-1	-0.04	138.86	No	N/A
2022-08-17	8:10	0.1	0.2	0.0	139.06	N-3	-0.08	138.98	No	N/A
2022-09-01	8:15	0.0	0.0	0.0	139.4	N-2	-0.07	139.33	No	N/A
2022-09-15	9:10	0.0	0.0	0.0	139.09	N-3	-0.08	139.01	No	N/A
2022-10-07	7:55	0.0	0.1	0.0	139.27	N-3	-0.08	139.19	No	N/A
2022-10-16	7:55	0.0	0.0	0.0	139.37	N-4	-0.11	139.26	No	N/A
2022-10-18	8:00	0.0	0.0	0.0	139.37	N-4	-0.11	139.26	No	N/A
2022-10-21	8:05	0.0	0.0	0.0	139.25	N-5	-0.01	139.24	No	N/A
2022-10-26	8:00	0.0	0.0	0.0	139.33	N-4	-0.11	139.22	No	N/A
2022-10-28	7:25	0.0	0.0	0.0	139.26	N-3	-0.08	139.18	No	N/A
2022-11-01	8:22	0.0	0.0	0.0	139.27	N-5	-0.01	139.26	No	N/A
2022-11-03	8:05	0.0	0.0	0.0	139.32	N-4	-0.11	139.21	No	N/A
2022-11-08	8:30	0.0	0.0	0.0	139.09	N-5	-0.01	139.08	No	N/A
2022-11-10	7:40	0.0	0.0	0.0	139.15	N-6	-0.07	139.08	No	N/A
2022-11-15	7:45	0.0	0.0	0.0	139.21	N-5	-0.01	139.20	No	N/A
2022-11-17	7:35	0.1	0.0	0.0	139.07	N-5	-0.01	139.06	No	N/A
2022-11-19	9:50	0.0	0.0	0.0	139.27	N-3	-0.08	139.19	No	N/A
2022-11-22	7:35	0.0	0.1	0.0	139.15	N-6	-0.07	139.08	No	N/A
2022-12-09	8:05	0.0	0.0	0.0	139.27	N-4	-0.11	139.16	No	N/A
2022-12-22	7:55	0.0	0.0	0.0	139.06	N-5	-0.01	139.05	No	N/A
2023-01-12	8:00	0.0	0.0	0.0	139.06	N-3	-0.08	138.98	No	N/A
2023-01-27	8:00	0.0	0.0	0.0	139.29	N-3	-0.08	139.21	No	N/A
2023-02-03	8:25	0.0	0.0	0.0	139.25	N-3	-0.08	139.17	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

N/A = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP02										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-06-08	9:30	0.1	0.0	N/A	118.98	286651	N/A	118.98	No	N/A
2022-06-20	1:12	0.1	0.0	0.0	122.40	285817	N/A	122.40	No	N/A
2022-07-06	8:30	0.0	0.0	0.1	122.53	3131836	N/A	122.53	No	N/A
2022-07-18	8:30	0.0	0.0	0.0	122.58	350335	N/A	122.58	No	N/A
2022-08-04	10:00	0.0	0.0	0.0	121.95	N-4	-0.10	121.85	No	N/A
2022-08-19	8:00	0.0	0.0	0.0	122.16	N-4	-0.10	122.06	No	N/A
2022-09-01	13:20	0.0	0.0	0.0	122.38	N-1	-0.03	122.35	No	N/A
2022-09-15	11:10	0.0	0.0	0.0	122.38	N-3	-0.07	122.31	No	N/A
2022-10-07	10:32	0.0	0.0	0.0	122.37	N-3	-0.07	122.30	No	N/A
2022-10-16	10:50	0.0	0.0	0.0	122.37	N-4	-0.10	122.27	No	N/A
2022-10-18	10:30	0.0	0.1	0.0	122.39	N-4	-0.10	122.29	No	N/A
2022-10-21	10:50	0.0	0.0	0.0	122.31	N-5	-0.01	122.30	No	N/A
2022-10-26	10:17	0.0	0.0	0.0	122.35	N-4	-0.10	122.25	No	N/A
2022-10-28	9:15	0.0	0.0	0.0	122.39	N-3	-0.07	122.32	No	N/A
2022-11-01	12:57	0.0	0.0	0.0	122.21	N-5	-0.01	122.20	No	N/A
2022-11-03	10:15	0.0	0.0	0.0	122.34	N-4	-0.10	122.24	No	N/A
2022-11-08	12:00	0.0	0.0	0.0	122.15	N-5	-0.01	122.14	No	N/A
2022-11-10	10:10	0.0	0.0	0.0	122.26	N-6	-0.07	122.19	No	N/A
2022-11-15	10:15	0.0	0.0	0.0	122.18	N-5	-0.01	122.17	No	N/A
2022-11-17	9:23	0.0	0.0	0.0	122.18	N-5	-0.01	122.17	No	N/A
2022-11-19	11:41	0.0	0.0	0.0	122.25	N-3	-0.07	122.18	No	N/A
2022-11-22	9:35	0.0	0.0	0.0	122.24	N-6	-0.07	122.17	No	N/A
2022-12-09	11:40	0.0	0.0	0.0	122.21	N-4	-0.10	122.11	No	N/A
2022-12-22	10:03	0.0	0.0	0.0	122.02	N-5	-0.01	122.01	No	N/A
2023-01-12	10:40	0.0	0.0	0.0	122.14	N-3	-0.07	122.07	No	N/A
2023-01-27	8:00	0.0	0.0	0.0	122.31	N-3	-0.07	122.24	No	N/A
2023-02-03	8:40	0.0	0.0	0.0	122.27	N-6	-0.07	122.20	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP03										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-08-11	8:15	0.0	0.0	0.0	118.83	N-4	-0.10	118.73	No	N/A
2022-08-25	12:30	0.0	0.0	0.0	118.93	N-4	-0.10	118.83	No	N/A
2022-09-08	9:50	0.0	0.0	0.0	118.95	N-3	-0.07	118.88	No	N/A
2022-09-21	11:25	0.0	0.0	0.0	119.05	18859	N/A	119.05	No	N/A
2022-10-14	10:25	0.0	0.1	0.0	118.94	N-5	-0.01	118.93	No	N/A
2022-10-17	11:15	0.0	2.9	1.5	119.01	N-1	-0.03	118.98	No	N/A
2022-10-20	10:00	0.0	0.0	3.2	119.01	N-3	-0.07	118.94	No	N/A
2022-10-25	11:15	0.0	0.0	0.0	119.02	N-6	-0.07	118.95	No	N/A
2022-10-27	9:40	0.0	0.0	0.0	118.99	N-6	-0.07	118.92	No	N/A
2022-11-02	10:20	0.0	0.0	0.0	119.00	N-3	-0.07	118.93	No	N/A
2022-11-04	12:15	0.0	0.0	0.0	118.92	N-4	-0.10	118.82	No	N/A
2022-11-09	13:42	0.0	0.0	0.0	118.95	N-6	-0.07	118.88	No	N/A
2022-11-11	12:45	0.0	0.0	0.0	118.96	N-3	-0.07	118.89	No	N/A
2022-11-16	12:45	0.0	0.2	0.0	118.98	N-4	-0.10	118.88	No	N/A
2022-11-18	10:32	0.0	0.0	0.0	118.95	N-5	-0.01	118.94	No	N/A
2022-11-20	10:17	0.0	0.0	0.0	119.05	N-6	-0.07	118.98	No	N/A
2022-11-23	10:43	0.0	0.0	0.0	118.98	N-3	-0.07	118.91	No	N/A
2022-12-09	8:42	0.0	0.0	0.0	118.96	N-1	-0.03	118.93	No	N/A
2022-12-22	8:15	0.0	0.0	0.0	118.40	N-6	-0.07	118.33	No	N/A
2023-01-13	8:05	0.0	0.0	0.0	118.91	N-5	-0.01	118.90	No	N/A
2023-01-27	9:23	0.0	0.0	0.0	119.00	N-5	-0.01	118.99	No	N/A
2023-02-03	12:10	0.0	0.0	0.0	119.05	N-4	-0.10	118.95	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP04A										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-08-09	8:57	0.1	2.2	N/A	139.78	280106	N/A	139.78	No	N/A
2022-08-12	8:20	0	0.5	0.0	139.78	N-4	-0.11	139.67	No	N/A
2022-09-08	8:00	0.1	0.4	0.0	139.89	N-3	-0.08	139.81	No	N/A
2022-09-21	9:25	0.0	0.0	0.0	140.01	018859	N/A	140.01	No	N/A
2022-10-14	10:25	0.0	0.0	0.0	139.90	N-5	-0.01	139.89	No	N/A
2022-10-17	8:05	0.0	0.0	0.0	139.96	N-1	-0.04	139.92	No	N/A
2022-10-20	7:55	0.0	0.0	0.0	139.97	N-3	-0.08	139.89	No	N/A
2022-10-25	7:55	0.0	0.0	0.0	139.96	N-6	-0.07	139.89	No	N/A
2022-10-27	7:45	0.0	0.0	0.0	139.92	N-6	-0.07	139.85	No	N/A
2022-11-02	8:00	0.0	0.0	0.0	139.97	N-3	-0.08	139.89	No	N/A
2022-11-04	9:00	0.0	0.0	0.0	139.97	N-4	-0.11	139.86	No	N/A
2022-11-09	11:22	0.0	0.0	0.0	139.84	N-5	-0.01	139.83	No	N/A
2022-11-11	10:40	0.0	0.1	0.0	139.92	N-4	-0.11	139.81	No	N/A
2022-11-16	7:40	0.0	0.0	0.0	139.89	N-5	-0.01	139.88	No	N/A
2022-11-18	10:42	0.5	0.5	0.2	139.95	N-3	-0.08	139.87	No	N/A
2022-11-21	10:52	0.0	0.0	0.0	139.98	N-6	-0.07	139.91	No	N/A
2022-11-23	7:45	0.0	0.0	0.0	139.86	N-5	-0.01	139.85	No	N/A
2022-12-09	10:28	0.0	0.0	0.0	139.92	N-3	-0.08	139.84	No	N/A
2022-12-23	7:50	0.0	0.1	0.0	139.77	N-5	-0.01	139.76	No	N/A
2023-01-13	11:45	0.0	0.0	0.0	139.91	N-4	-0.11	139.80	No	N/A
2023-01-27	12:17	0.0	0.0	0.0	140.02	N-4	-0.11	139.91	No	N/A
2023-02-03	11:25	0.0	0.0	0.0	139.95	N-3	-0.08	139.87	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

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Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP04B										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-11-09	8:05	0.0	0.0	0.0	138.92	N-5	-0.01	138.91	No	N/A
2022-11-11	7:40	0.0	0.0	0.0	139.04	N-4	-0.11	138.93	No	N/A
2022-11-16	9:42	0.0	0.0	0.0	138.98	N-5	-0.01	138.97	No	N/A
2022-11-18	7:50	0.0	0.0	0.0	139.08	N-3	-0.08	139.00	No	N/A
2022-11-21	7:50	0.0	0.0	0.0	139.12	N-6	-0.07	139.05	No	N/A
2022-11-23	9:50	0.0	0.0	0.0	138.98	N-5	-0.01	138.97	No	N/A
2022-12-09	8:15	0.0	0.0	0.0	139.06	N-3	-0.08	138.98	No	N/A
2022-12-23	9:50	0.0	0.3	0.0	138.91	N-5	-0.01	138.90	No	N/A
2023-01-13	8:50	0.0	0.3	0.0	139.05	N-4	-0.11	138.94	No	N/A
2023-01-27	14:00	0.0	0.0	0.0	139.05	N-5	-0.01	139.04	No	N/A
2023-02-03	8:40	0.0	0.0	0.0	139.09	N-6	-0.07	139.02	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

RHP05										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-12-13	8:35	0.0	0.0	0.0	212.80	036365	N/A	212.80	No	N/A
2022-12-21	8:10	0.0	0.0	0.0	212.58	N-5	-0.03	212.55	No	N/A
2023-01-13	10:25	0.1	0.1	0.0	212.65	N-5	-0.03	212.62	No	N/A
2023-01-27	8:48	0.0	0.0	0.0	212.82	N-4	-0.11	212.71	No	N/A
2023-02-03	8:26	0.0	0.0	0.0	212.78	N-4	-0.11	212.67	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter an well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R,

Red Hill Bulk Fuel Storage Facility

Delineation and Sentinel Monitoring Well Headspace and Fuel Product Gauging

NMW24										
DATE	TIME	AMBIENT	HEADSPACE	JAR TEST	Raw DTW	WLM SN	Correction	Corrected	PRODUCT?	THICKNESS
		(ppmv)	(ppmv)	(ppmv)	(ft btoc)		Factor (ft)	DTW[a] (ft btoc)	(Yes/No)	(ft)
2022-11-22	9:00	0.1	0.1	N/A	92.11	N-2	-0.01	92.10	No	N/A
2022-12-09	12:40	0.0	0.5	N/A	90.74	N-1	-0.01	90.73	No	N/A
2022-12-13	8:27	0.0	0.0	0.0	90.78	N-3	-0.06	90.72	No	N/A
2022-12-22	11:38	0.1	0.1	0.0	90.70	N-6	-0.06	90.64	No	N/A
2022-12-29	8:20	0.0	0.0	N/A	90.63	N-5	0.00	90.63	No	N/A
2023-01-05	14:00	0.0	0.0	N/A	90.67	N-5	0.00	90.67	No	N/A
2023-01-11	10:30	0.0	0.0	N/A	90.8	N-4	-0.14	90.66	No	N/A
2023-01-18	9:35	0.0	0.0	N/A	90.78	N-3	-0.06	90.72	No	N/A
2023-01-26	9:30	0.0	0.0	N/A	90.85	N-4	-0.14	90.71	No	N/A
2023-02-01	12:00	0.0	0.0	0.0	90.72	N-5	0.00	90.72	No	N/A

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

ppmv = parts-per-million, volume

NA = Not applicable

NC = Not collected

a: Depth to water measurements are corrected for water level meter calibrations and horizontal well displacement, see correction factor tables for corrections factors and corrected values per water level meter and well. Solinst N-1 and Solinst N-2 water level meters are calibrated by USGS, calibrations published in "Results from calibration of groundwater-level measuring tapes" letter dated January 24, 2020. Solinst water level meters N-1, N-2, N-3, N-4, N-5< and N-6 were calibrated by the USGS in a Septmeber 20 - 22 2022 event, calibrations publsihed in "Results from calibration of groundwater-level measuring tapes" letter dated December 14, 2022. Correction factors for N-1 and N-2 were updated beginning September 20th and measurements prior using the 2020 correction factors. Horizontal displacement correction factors are applied to wells RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, and OWDFMW01. Horizontal displacement correction factors will be derived from the gyroscopic survey reports for RHMW01R, RHMW12A, RHMW16, RHMW17, RHMW19, OWDFMW04A, OWDFMW05A, OWDFMW07A, and OWDFMW08A and will be applied when available.

Appendix B.3 – Groundwater Parameters from May 10, 2021 through February 3, 2023

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

	RHMW01R								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	2021-05-12	229.17	7.07	0.35	0.63	0.22	23.73	50.3	0.2
2021-05-17	2021-05-19	231.58	7.08	0.36	0.53	0.13	23.60	34.1	0.2
2021-05-24	2021-05-24	215.60	7.08	0.33	0.56	0.26	23.56	54.6	0.2
2021-05-24	2021-05-26	225.24	7.11	0.35	0.60	0.10	23.84	41.2	0.2
2021-05-24	2021-05-28	227.81	7.04	0.35	0.48	0.17	23.47	28.0	0.2
2021-05-31	2021-05-31	222.53	7.12	0.34	0.64	0.19	23.69	23.0	0.2
2021-05-31	2021-06-02	221.63	7.31	0.34	3.28	0.26	24.79	84.5	0.2
2021-05-31	2021-06-04	211.23	7.63	0.33	3.37	0.68	24.37	143.7	0.2
2021-06-07	2021-06-07	210.49	7.39	0.32	3.87	0.79	24.37	159.4	0.2
2021-06-07	2021-06-09	230.57	7.59	0.35	3.19	0.44	24.69	138.9	0.2
2021-06-07	2021-06-11	211.23	7.63	0.33	3.37	0.68	24.37	143.7	0.2
2021-06-14	2021-06-17	239.63	7.62	0.34	3.07	2.51	24.29	79.2	0.2
2021-06-21	2021-06-24	215.46	6.57	0.33	4.13	1.10	24.50	55.8	0.2
2021-06-28	2021-06-30	210.89	7.24	0.32	0.54	0.42	23.53	-15.5	0.2
2021-07-05	2021-07-08	241.63	6.55	0.38	8.42	1.72	25.77	150.5	0.2
2021-07-12	2021-07-15	254.72	6.61	0.39	3.42	1.10	25.87	100.1	0.2
2021-07-19	2021-07-22	260.50	7.69	0.40	2.66	0.62	25.30	99.2	0.2
2021-07-26	2021-07-29	218.87	6.86	0.34	3.40	2.12	25.09	101.2	0.2
2021-08-02	2021-08-05	263.63	7.61	0.41	2.86	1.58	23.83	64.0	0.2
2021-08-09	2021-08-12	229.79	7.28	0.35	3.14	0.32	24.49	28.4	0.2
2021-08-16	2021-08-19	267.06	7.63	0.41	3.24	4.05	24.28	65.5	0.2
2021-08-23	2021-08-26	221.20	7.17	0.34	3.06	0.18	24.43	75.7	0.2
2021-08-30	2021-09-01	284.74	7.39	0.44	3.32	1.45	24.35	33.1	0.2
2021-09-06	2021-09-08	257.57	7.54	0.40	4.02	0.20	24.28	4.0	0.2
2021-09-13	2021-09-15	244.48	6.67	0.38	3.23	0.25	24.77	18.5	0.2
2021-09-20	2021-09-22	226.63	7.35	0.35	3.86	0.12	24.85	105.4	0.2
2021-09-27	2021-09-29	278.61	6.56	0.43	3.16	1.01	24.14	56.1	0.2
2021-10-04	2021-10-06	292.52	7.26	0.45	5.70	3.97	24.72	-24.2	0.2
2021-10-11	2021-10-13	276.12	7.62	0.42	3.45	NM	23.65	54.2	0.2
2021-10-18	2021-10-20	280.92	7.11	0.43	3.13	0.41	23.96	60.6	0.2
2021-10-25	2021-10-27	285.76	7.32	0.44	3.60	0.68	23.62	51.1	0.2
2021-11-01	2021-11-03	268.42	7.33	0.41	4.15	0.68	24.40	62.4	0.2
2021-11-08	2021-11-10	273.28	7.26	0.43	3.97	1.13	29.51	58.2	0.2
2021-11-15	2021-11-17	250.34	7.44	0.39	3.43	0.62	23.39	23.4	0.2
2021-11-22	2021-11-24	257.55	7.45	0.40	3.34	0.27	23.23	-13.6	0.2
2021-11-29	2021-12-01	218.34	7.32	0.34	2.92	0.85	23.37	-11.1	0.2
2021-12-06	2021-12-08	214.11	7.57	0.33	3.37	1.37	23.28	11.3	0.2
2021-12-13	2021-12-15	210.43	7.16	0.32	2.83	0.12	23.36	-15.9	0.2
2021-12-20	2021-12-20	207.73	7.20	0.32	3.54	0.33	22.34	-28.4	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	213.65	7.05	0.33	2.76	2.02	21.61	-16.5	0.2
2022-01-03	2022-01-03	208.81	7.40	0.32	3.22	0.18	20.8	-21.1	0.2
2022-01-10	2022-01-10	206.69	6.90	0.32	3.28	2.16	23.38	59.4	0.2
2022-01-16	2022-01-17	211.13	7.43	0.32	3.12	0.25	23.55	37.0	0.2
2022-01-24	2022-01-24	205.23	7.58	0.32	3.48	0.29	23.69	99.7	0.2
2022-01-31	2022-02-03	206.69	7.69	0.32	8.11	1.32	23.2	96.4	0.2
2022-02-07	2022-02-10	214.63	7.21	0.33	9.89	1.53	17.41	6.1	0.2
2022-02-14	2022-02-16	257.54	7.11	0.40	3.33	0.99	24.55	102.0	0.2
2022-02-21	2022-02-23	208.08	6.15	0.32	2.58	2.25	23.12	116.7	0.2
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	197.28	6.93	0.3	1.82	0.21	23.48	6.1	0.15
2022-03-07	2022-03-08	176.43	6.95	0.27	2.52	0.31	23.83	14.8	0.13
2022-03-14	2022-03-15	199.81	7.12	0.31	4.36	0.41	24.36	-26.3	0.15
2022-03-21	2022-03-22	228.8	6.92	0.35	2.08	0.27	25.72	-24.2	0.17
2022-03-28	2022-03-31	190.53	6.92	0.29	2.86	0.85	24.36	-14.8	0.14
2022-04-04	2022-04-05	195.54	6.88	0.3	1.82	0.45	24.45	-28.9	0.14
2022-04-25	2022-04-26	196.52	6.95	0.30	3.15	0.00	24.90	5.1	0.15
2022-05-02	2022-05-03	195.39	6.98	0.30	1.98	0.38	23.69	-149.2	0.14
2022-05-09	2022-05-10	194.18	6.96	0.30	4.01	0.06	24.64	-121.2	0.14
2022-05-16	2022-05-17	193.44	7.04	0.30	3.05	0.21	24.15	-4.0	0.14
2022-05-23	2022-05-24	190.31	6.83	0.29	3.03	2.00	23.92	-133.3	0.14
2022-05-30	2022-05-31	197.90	6.92	0.30	2.88	0.51	23.74	-132.1	0.15
2022-06-06	2022-06-07	197.51	6.91	0.30	3.12	0.37	23.69	-13.9	0.15
2022-06-13	2022-06-14	190.58	6.89	0.29	3.54	1.39	24.26	-2.9	0.14
2022-06-20	2022-06-21	205.21	6.89	0.32	2.38	0.64	24.15	-130.0	0.15
2022-06-27	2022-06-29	192.93	6.83	0.30	3.35	4.97	24.22	-180.6	0.14
2022-07-04	2022-07-06	199.58	7.24	0.31	3.54	2.29	23.98	-165.3	0.15
2022-07-11	2022-07-12	190.68	6.84	0.29	2.76	2.00	23.89	-29.4	0.14
2022-08-01	2022-08-02	204.92	6.68	0.32	3.25	0.00	24.12	0.4	0.15
2022-08-08	2022-08-09	NR	7.14	0.32	3.87	0.00	23.67	-6.7	0.15
2022-08-15	2022-08-16	195.55	7.11	0.30	2.95	2.39	24.07	11.3	0.14
2022-08-22	2022-08-23	192.62	7.28	0.30	2.39	0.00	23.94	-23.2	0.14
2022-08-29	2022-08-30	192.32	7.22	0.30	3.02	0.00	24.07	-167.2	0.14
2022-09-06	2022-09-06	192.22	7.39	0.30	2.91	0.04	24.33	-168.5	0.14
2022-09-12	2022-09-13	198.96	7.34	0.31	3.56	0.00	24.06	6.7	0.15
2022-09-19	2022-09-20	190.69	7.41	0.29	1.97	0.04	24.55	-22.8	0.14
2022-09-26	2022-09-27	199.50	7.17	0.31	2.39	0.60	24.15	-93.6	0.15
2022-10-03	2022-10-04	195.10	6.88	0.30	2.07	0.88	23.87	-92.8	0.14
2022-10-17	2022-10-18	182.26	7.14	0.28	2.49	0.68	23.82	-7.1	0.13
2022-10-17	2022-10-20	200.59	7.14	0.31	2.69	0.01	23.78	-83.5	0.15
2022-10-24	2022-10-25	224.20	6.99	0.34	4.60	0.00	24.13	-55.4	0.17
2022-10-24	2022-10-27	215.88	7.09	0.33	2.90	0.47	24.44	-44.1	0.16
2022-10-31	2022-11-01	179.43	6.71	0.28	3.04	0.33	23.73	22.4	0.13
2022-10-31	2022-11-03	NR	7.31	0.29	2.85	0.36	23.55	-4.2	0.14
2022-11-07	2022-11-08	190.73	7.12	0.29	2.03	0.43	25.53	-195.1	0.14
2022-11-07	2022-11-10	211.63	7.06	0.33	2.60	0.78	25.91	-202.2	0.16
2022-11-14	2022-11-15	192.84	7.28	0.30	3.35	0.10	23.68	-122.0	0.14
2022-11-14	2022-11-17	190.71	7.30	0.29	3.33	0.87	23.89	-100.4	0.14
2022-11-19	2022-11-20	185.63	6.95	0.29	2.61	0.00	25.41	-126.0	0.14
2022-11-19	2022-11-22	202.30	7.19	0.31	2.78	0.07	23.68	28.6	0.15
2022-11-28	2022-11-29	201.40	7.33	0.31	2.85	1.27	25.36	-130.6	0.15
2022-12-19	2022-12-20	212.36	7.05	0.33	2.14	2.74	25.44	-115.8	0.16
2022-12-26	2022-12-28	191.84	7.07	0.30	2.08	2.74	25.65	-167.2	0.14
2023-01-02	2023-01-04	196.87	7.11	0.30	2.84	2.74	25.67	-129.4	0.15
2023-01-09	2023-01-10	195.86	7.12	0.30	2.16	4.11	25.88	-114.6	0.14
2023-01-16	2023-01-17	192.33	6.97	0.30	2.07	1.06	26.04	-69.6	0.14
2023-01-23	2023-01-24	193.81	6.99	0.30	2.15	0.63	26.73	-109.2	0.14

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW02								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	2021-05-13	318.43	6.62	0.49	0.64	0.38	23.69	1.4	0.2
2021-05-17	2021-05-20	334.76	6.56	0.51	0.45	0.41	23.90	12.9	0.3
2021-05-24	2021-05-24	318.25	6.59	0.49	0.41	0.35	23.97	1.3	0.2
2021-05-24	2021-05-26	330.01	6.62	0.51	0.41	0.30	23.99	-0.4	0.2
2021-05-24	2021-05-28	328.43	6.60	0.51	0.43	0.22	23.96	-1.2	0.2
2021-05-31	2021-05-31	323.17	6.67	0.50	0.38	0.16	28.96	-12.0	0.2
2021-05-31	2021-06-02	292.40	6.99	0.45	3.45	1.24	24.41	30.7	0.2
2021-05-31	2021-06-04	295.75	6.98	0.46	3.02	0.81	24.05	-9.1	0.2
2021-06-07	2021-06-07	295.66	6.83	0.45	2.91	1.13	24.23	-5.9	0.2
2021-06-07	2021-06-09	313.63	6.88	0.48	2.86	0.59	24.26	-9.4	0.2
2021-06-07	2021-06-11	328.78	6.91	0.51	8.85	1.86	24.19	-45.1	0.2
2021-06-14	2021-06-17	271.37	7.08	0.45	2.82	1.71	24.24	-10.6	0.2
2021-06-21	2021-06-24	306.12	6.82	0.47	3.44	2.75	24.53	2.2	0.2
2021-06-28	2021-06-30	318.11	6.74	0.49	0.38	0.64	23.77	-7.9	0.2
2021-07-05	2021-07-08	361.55	6.68	0.56	3.06	94.20	24.50	85.0	0.2
2021-07-12	2021-07-15	306.79	6.72	0.47	4.72	1.20	25.13	28.7	0.2
2021-07-19	2021-07-22	336.41	6.95	0.52	3.38	0.32	24.43	27.9	0.3
2021-07-26	2021-07-29	336.59	6.95	0.52	3.21	7.47	24.55	41.0	0.3
2021-08-02	2021-08-05	336.97	7.05	0.52	3.08	0.72	24.24	26.4	0.3
2021-08-09	2021-08-12	309.63	6.97	0.48	3.37	0.78	24.60	11.9	0.2
2021-08-16	2021-08-19	337.40	6.87	0.52	2.73	0.88	24.55	-3.2	0.3
2021-08-23	2021-08-26	308.56	7.11	0.47	3.01	0.88	24.71	22.8	0.2
2021-08-30	2021-09-01	346.16	6.73	0.53	2.95	1.37	24.45	-3.4	0.3
2021-09-06	2021-09-08	310.08	6.90	0.48	2.62	2.66	24.53	-10.8	0.2
2021-09-13	2021-09-15	324.26	6.72	0.50	2.79	1.01	24.38	-5.1	0.2
2021-09-20	2021-09-22	308.97	6.98	0.48	2.94	3.32	24.60	51.9	0.2
2021-09-27	2021-09-29	298.98	6.82	0.46	2.17	5.06	24.50	-2.4	0.2
2021-10-04	2021-10-06	317.31	6.71	0.49	2.89	2.92	24.58	-14.7	0.2
2021-10-11	2021-10-13	332.25	6.62	0.51	3.12	4.80	24.64	3.4	0.2
2021-10-18	2021-10-20	315.87	6.73	0.49	3.27	1.11	24.61	8.7	0.2
2021-10-25	2021-10-27	308.07	6.67	0.47	3.86	1.06	23.77	37.3	0.2
2021-11-01	2021-11-03	321.50	6.89	0.50	3.31	0.51	24.85	18.2	0.2
2021-11-08	2021-11-10	332.45	6.78	0.51	3.12	2.72	24.22	16.3	0.2
2021-11-15	2021-11-17	287.61	6.83	0.44	2.69	1.78	24.00	-0.8	0.2
2021-11-22	2021-11-24	282.98	6.82	0.44	3.02	0.38	23.88	18.7	0.2
2021-11-29	2021-12-01	295.86	6.85	0.46	3.48	0.99	24.20	-10.7	0.2
2021-12-06	2021-12-08	294.21	6.85	0.45	4.33	1.57	23.51	13.4	0.2
2021-12-13	2021-12-15	287.15	6.74	0.44	2.70	1.34	23.59	1.1	0.2
2021-12-20	2021-12-20	278.63	6.79	0.43	3.14	1.48	22.82	-9.1	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	282.17	6.63	0.43	2.83	1.05	22.32	-15.6	0.2
2022-01-03	2022-01-03	279.10	6.93	0.43	3.11	0.85	20.97	-27.9	0.2
2022-01-10	2022-01-10	262.97	6.90	0.40	3.17	0.93	23.78	28.4	0.2
2022-01-16	2022-01-17	272.92	6.80	0.42	3.40	1.14	24.06	19.7	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	325.80	6.63	0.50	2.17	10.33	23.85	-65.2	0.24
2022-03-07	2022-03-08	263.94	6.60	0.41	3.05	0.65	24.05	-46.7	0.20
2022-03-14	2022-03-15	315.84	6.23	0.49	3.78	0.09	23.98	-85.2	0.24
2022-03-21	2022-03-22	302.14	6.61	0.46	3.36	2.06	24.80	-46.7	0.23
2022-03-28	2022-03-31	263.84	6.57	0.41	3.23	6.82	24.60	-10.4	0.30
2022-04-04	2022-04-05	265.39	6.52	0.41	1.48	6.11	24.31	-39.9	0.20
2022-04-25	2022-04-26	265.93	6.59	0.41	3.67	20.13	24.69	-48.2	0.20
2022-05-02	2022-05-03	320.44	6.74	0.49	2.58	0.55	24.14	-198.0	0.24
2022-05-09	2022-05-10	260.60	6.55	0.40	5.46	2.73	24.25	-123.5	0.19
2022-05-16	2022-05-17	298.42	6.74	0.46	5.91	2.18	24.83	-10.5	0.22
2022-05-23	2022-05-24	278.18	6.68	0.43	2.39	1.85	24.18	-169.2	0.21
2022-05-30	2022-05-31	269.96	6.73	0.42	3.61	3.20	24.45	-131.9	0.20
2022-06-06	2022-06-07	256.44	6.79	0.39	2.75	23.44	24.23	-11.3	0.19
2022-06-13	2022-06-14	310.49	6.68	0.48	3.25	4.53	24.93	-11.5	0.23
2022-06-20	2022-06-21	313.92	6.72	0.48	2.81	2.33	24.36	-145.4	0.24
2022-06-27	2022-06-29	268.67	6.58	0.41	7.56	1.17	25.14	-136.9	0.20
2022-07-04	2022-07-06	283.13	6.80	0.44	2.11	6.63	24.24	-152.5	0.21
2022-07-11	2022-07-12	309.30	6.51	0.48	1.98	3.89	24.34	-11.0	0.23
2022-08-01	2022-08-02	306.85	6.86	0.47	2.91	0.00	24.79	-48.2	0.23
2022-08-08	2022-08-09	299.23	6.75	0.46	4.34	0.00	24.37	-33.7	0.22
2022-08-15	2022-08-16	284.68	6.59	0.44	2.29	5.43	24.67	-120.1	0.21
2022-08-22	2022-08-23	288.60	6.86	0.44	2.47	0.00	24.50	-65.5	0.22
2022-08-29	2022-08-30	280.88	6.81	0.43	3.25	0.00	24.78	-200.3	0.21
2022-09-06	2022-09-06	330.10	6.95	0.51	3.73	0.00	24.42	-259.2	0.25
2022-09-12	2022-09-13	293.17	7.01	0.45	2.73	1.35	24.80	-71.7	0.22
2022-09-19	2022-09-20	283.86	7.05	0.44	1.91	0.62	24.65	-60.1	0.21
2022-09-26	2022-09-27	296.59	6.71	0.46	1.75	7.04	24.89	-176.4	0.22
2022-10-03	2022-10-04	287.64	6.55	0.44	1.76	2.53	24.58	-200.8	0.21
2022-10-17	2022-10-18	269.67	6.71	0.41	1.93	0.57	24.11	-30.3	0.20
2022-10-17	2022-10-20	289.41	6.80	0.45	2.74	1.68	24.22	-101.4	0.22
2022-10-24	2022-10-25	331.67	6.75	0.51	3.37	0.19	25.01	-109.8	0.25
2022-10-24	2022-10-27	269.16	6.75	0.41	3.70	3.69	25.14	30.9	0.20
2022-10-31	2022-11-01	256.30	6.62	0.39	1.94	2.55	24.70	-33.3	0.19
2022-10-31	2022-11-03	NR	6.93	0.42	1.86	2.10	24.48	-63.0	0.21
2022-11-07	2022-11-08	258.60	6.70	0.40	2.69	3.34	26.25	-185.7	0.19
2022-11-07	2022-11-10	276.25	6.79	0.42	2.92	0.81	26.16	-201.2	0.21
2022-11-14	2022-11-15	282.51	6.93	0.43	3.04	2.13	24.28	-149.2	0.21
2022-11-14	2022-11-17	281.35	6.95	0.43	2.78	2.00	24.40	-138.3	0.21
2022-11-19	2022-11-20	272.03	6.64	0.42	3.41	2.81	26.08	-152.8	0.20
2022-11-19	2022-11-22	363.85	6.88	0.56	3.40	0.56	23.77	-22.1	0.27
2022-11-28	2022-11-29	304.51	6.75	0.47	2.20	2.27	26.07	-166.2	0.23
2022-12-19	2022-12-20	298.81	6.59	0.46	1.90	2.02	25.82	-152.6	0.22
2022-12-26	2022-12-28	281.83	6.59	0.43	1.47	1.19	26.40	-166.2	0.21
2023-01-02	2023-01-04	281.59	6.59	0.43	2.40	0.83	26.32	-171.5	0.21
2023-01-09	2023-01-10	293.18	6.72	0.45	1.74	0.99	26.38	-150.2	0.22
2023-01-16	2023-01-17	282.86	6.62	0.44	1.85	2.45	26.76	-68.8	0.21
2023-01-23	2023-01-24	282.86	6.70	0.44	3.10	2.00	27.50	-109.8	0.21

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW03								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	2021-05-13	507.71	6.61	0.78	1.53	0.53	26.71	38.1	0.4
2021-05-17	2021-05-20	513.51	6.82	0.79	1.26	12.20	26.84	111.0	0.4
2021-05-24	2021-05-25	488.85	7.09	0.75	1.34	1.28	26.55	186.3	0.4
2021-05-24	2021-05-26	504.25	6.82	0.78	1.35	1.31	26.37	170.8	0.4
2021-05-24	2021-05-28	512.66	6.84	0.79	1.60	0.47	26.32	168.5	0.4
2021-05-31	2021-05-31	507.02	6.90	0.78	1.44	11.51	26.32	154.4	0.4
2021-05-31	2021-06-02	487.16	6.92	0.73	3.96	0.86	25.73	157.2	0.4
2021-05-31	2021-06-04	488.87	7.00	0.75	1.86	5.80	25.61	141.4	0.4
2021-06-07	2021-06-07	490.05	7.11	0.75	3.34	8.64	24.95	228.2	0.4
2021-06-07	2021-06-09	490.32	6.97	0.75	2.42	6.59	25.32	72.9	0.4
2021-06-07	2021-06-11	489.13	6.96	0.75	2.89	147.00	25.37	88.2	0.4
2021-06-14	2021-06-17	481.98	6.91	0.74	3.05	1.84	25.31	67.6	0.4
2021-06-21	2021-06-24	499.90	6.92	0.77	2.77	4.51	25.73	0.5	0.4
2021-06-28	2021-06-30	497.36	6.97	0.76	1.15	0.50	26.54	15.3	0.4
2021-07-05	2021-07-08	482.73	6.95	0.74	3.07	4.04	25.73	135.5	0.4
2021-07-12	2021-07-15	486.81	6.81	0.75	3.33	2.48	25.77	35.2	0.4
2021-07-19	2021-07-22	496.23	6.99	0.76	3.68	1.13	25.56	45.4	0.4
2021-07-26	2021-07-29	493.73	7.01	0.76	3.85	13.59	25.76	74.2	0.4
2021-08-02	2021-08-05	492.70	6.99	0.76	8.28	5.67	25.59	-22.4	0.4
2021-08-09	2021-08-12	502.27	6.94	0.77	3.09	5.31	26.05	-13.0	0.4
2021-08-16	2021-08-19	502.19	6.94	0.77	2.80	28.60	25.87	19.4	0.4
2021-08-23	2021-08-26	499.34	0.72	0.77	2.16	0.15	25.62	7.2	0.4
2021-08-30	2021-09-01	515.97	6.85	0.79	2.10	6.97	25.06	-54.0	0.4
2021-09-06	2021-09-08	499.56	6.88	0.77	2.53	4.83	25.86	54.3	0.4
2021-09-13	2021-09-15	515.60	6.79	0.79	2.74	10.00	25.64	-58.2	0.4
2021-09-20	2021-09-22	495.04	6.73	0.76	2.47	10.73	25.65	10.6	0.4
2021-09-27	2021-09-29	502.66	6.57	0.77	2.51	11.70	25.71	-47.7	0.4
2021-10-04	2021-10-06	510.33	6.82	0.79	2.38	13.06	25.90	-40.5	0.4
2021-10-11	2021-10-13	491.65	6.02	0.76	3.23	2.25	25.77	112.4	0.4
2021-10-18	2021-10-20	502.67	6.63	0.77	2.72	1.69	25.66	60.7	0.4
2021-10-25	2021-10-27	506.58	6.84	0.78	2.84	3.06	24.90	65.3	0.4
2021-11-01	2021-11-03	501.84	6.84	0.77	3.32	0.36	25.58	137.5	0.4
2021-11-08	2021-11-10	509.81	6.86	0.78	4.48	1.13	26.29	111.0	0.4
2021-11-15	2021-11-17	476.74	6.83	0.73	2.57	2.63	25.33	-13.7	0.4
2021-11-22	2021-11-24	479.86	6.93	0.74	4.10	0.22	25.08	62.4	0.4
2021-11-29	2021-12-01	510.09	6.85	0.78	3.00	1.47	24.87	19.5	0.4
2021-12-06	2021-12-08	488.54	6.79	0.75	3.05	1.43	24.87	93.0	0.4
2021-12-13	2021-12-15	508.38	6.81	0.78	2.81	0.84	24.74	54.0	0.4
2021-12-20	2021-12-20	503.41	6.88	0.78	2.48	0.95	23.21	-46.3	0.4
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	513.45	6.69	0.79	2.31	1.04	22.63	53.9	0.4
2022-01-03	2022-01-03	494.37	6.95	0.76	3.29	2.66	22.36	26.0	0.4
2022-01-10	2022-01-10	500.92	6.76	0.77	2.70	1.52	24.93	25.9	0.4
2022-01-16	2022-01-17	510.18	6.88	0.78	2.49	0.23	25.26	64.3	0.4
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	490.38	6.63	0.75	3.13	0.22	25.02	60.4	0.31
2022-03-07	2022-03-08	488.33	6.65	0.75	2.28	0.22	23.26	40.2	0.37
2022-03-14	2022-03-15	557.29	6.66	0.86	2.44	0.08	25.52	22.3	0.43
2022-03-21	2022-03-22	552.81	6.69	0.85	4.14	1.92	25.34	115.1	0.42
2022-03-28	2022-03-31	484.73	6.65	0.75	3.12	6.37	24.86	227.3	0.37
2022-04-04	2022-04-05	484.73	6.68	0.75	2.30	1.83	24.81	112.1	0.37
2022-04-25	2022-04-26	489.48	6.65	0.75	2.76	0.00	25.43	101.7	0.37
2022-05-02	2022-05-03	492.05	6.69	0.76	3.09	0.40	25.62	-113.7	0.37
2022-05-09	2022-05-10	480.65	6.69	0.74	2.97	0.82	25.69	-2.0	0.36
2022-05-16	2022-05-17	479.69	6.75	0.74	5.86	8.35	25.64	76.3	0.36
2022-05-23	2022-05-24	502.92	6.67	0.77	2.27	8.43	25.97	-184.8	0.38
2022-05-30	2022-05-31	494.66	6.75	0.76	2.73	2.60	25.85	-23.3	0.38
2022-06-06	2022-06-07	490.26	6.77	0.75	2.39	0.00	25.78	64.2	0.37
2022-06-13	2022-06-14	480.64	6.50	0.74	1.21	25.77	25.77	118.3	0.36
2022-06-20	2022-06-21	517.00	6.70	0.80	3.42	7.28	25.50	-55.8	0.39
2022-06-27	2022-06-29	489.65	6.76	0.75	6.34	1.99	26.45	-177.3	0.37
2022-07-04	2022-07-06	506.28	6.86	0.78	2.70	2.52	25.88	-85.0	0.39
2022-07-11	2022-07-12	486.17	6.40	0.75	1.93	1.49	25.67	61.4	0.37
2022-08-01	2022-08-02	507.00	6.80	0.78	3.13	0.00	26.01	52.4	0.39
2022-08-08	2022-08-09	522.12	6.77	0.80	2.18	0.00	26.05	63.8	0.40
2022-08-15	2022-08-16	502.26	6.95	0.77	2.78	2.59	26.20	131.8	0.38
2022-08-22	2022-08-23	488.41	6.90	0.75	2.44	0.00	26.03	-87.3	0.37
2022-08-29	2022-08-30	486.03	6.83	0.75	2.64	0.00	26.30	13.0	0.37
2022-09-06	2022-09-06	486.64	6.94	0.75	3.10	0.00	26.17	-0.1	0.37
2022-09-12	2022-09-13	503.95	6.97	0.78	2.68	0.05	26.51	19.1	0.38
2022-09-19	2022-09-20	491.95	7.07	0.76	2.76	0.91	25.86	188.5	0.37
2022-09-26	2022-09-27	514.15	6.65	0.79	1.93	1.64	26.25	-101.1	0.39
2022-10-03	2022-10-04	496.71	6.62	0.76	2.57	1.38	26.39	40.4	0.38
2022-10-17	2022-10-18	464.02	6.73	0.71	1.45	0.79	26.13	-32.6	0.35
2022-10-17	2022-10-20	477.74	6.80	0.73	1.85	5.75	26.05	-105.7	0.36
2022-10-24	2022-10-25	574.94	6.80	0.88	3.71	0.00	26.59	67.0	0.44
2022-10-24	2022-10-27	465.00	6.85	0.72	2.62	4.43	26.33	1.4	0.35
2022-10-31	2022-11-01	458.97	6.74	0.71	2.31	0.19	26.08	164.8	0.35
2022-10-31	2022-11-03	NR	6.97	0.75	2.09	2.19	26.21	78.9	0.37
2022-11-07	2022-11-08	471.49	6.75	0.73	1.84	3.50	27.72	-157.4	0.36
2022-11-07	2022-11-10	468.35	6.85	0.72	2.80	1.44	27.24	-164.4	0.36
2022-11-14	2022-11-15	490.23	6.92	0.75	2.18	8.80	25.44	-66.7	0.37
2022-11-14	2022-11-17	490.41	6.53	0.75	1.66	4.51	26.09	-92.0	0.37
2022-11-19	2022-11-20	473.66	6.72	0.73	2.30	0.44	27.45	-52.6	0.36
2022-11-19	2022-11-22	518.00	6.89	0.80	3.63	0.14	25.83	248.1	0.39
2022-11-28	2022-11-29	511.61	6.78	0.79	2.04	3.00	27.48	-165.4	0.39
2022-12-19	2022-12-20	539.16	6.74	0.83	2.75	16.74	27.32	-47.8	0.41
2022-12-26	2022-12-28	497.72	6.77	0.77	1.95	1.05	27.67	-99.9	0.38
2023-01-02	2023-01-04	505.04	6.65	0.78	2.69	0.55	27.81	-8.9	0.38
2023-01-09	2023-01-10	497.32	6.84	0.77	2.09	4.24	27.69	-113.8	0.38
2023-01-16	2023-01-17	489.90	6.95	0.75	2.24	2.27	27.96	-15.1	0.37
2023-01-23	2023-01-24	490.30	7.00	0.75	2.15	2.23	27.99	-43.8	0.37

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

RHMW04									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-10-01	281.54	7.29	0.43	8.67	1.60	23.18	198.0	0.2
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-04	233.90	6.28	0.36	9.55	0.05	19.23	182.2	0.2
2022-01-10	2022-01-14	251.27	7.41	0.39	9.61	0.79	17.19	106.6	0.2
2022-01-16	2022-01-16	248.38	7.85	0.38	8.85	0.82	20.48	96.8	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-01	283.38	7.39	0.44	8.34	31.16	28.75	143.0	0.21
2022-03-07	2022-03-07	269.39	7.03	0.41	9.16	0.21	26.64	209.8	0.20
2022-03-14	2022-03-14	263.52	7.19	0.41	9.33	0.99	26.46	235.9	0.20
2022-03-21	2022-03-23	307.92	7.30	0.47	8.53	1.07	23.27	229.9	0.23
2022-03-28	2022-03-30	268.42	7.20	0.41	9.20	0.02	23.42	381.7	0.20
2022-04-04	2022-04-06	264.62	7.17	0.41	8.93	0.44	22.52	180.4	0.20
2022-04-25	2022-04-25	268.74	7.24	0.41	8.81	0.10	23.43	110.6	0.20
2022-05-02	2022-05-04	283.71	7.25	0.44	9.27	0.78	23.26	141.0	0.21
2022-05-09	2022-05-11	290.09	7.11	0.45	8.60	0.26	26.65	127.9	0.22
2022-05-16	2022-05-16	268.66	7.35	0.41	8.64	0.22	23.25	135.4	0.20
2022-05-23	2022-05-23	272.37	7.28	0.42	8.65	0.56	24.05	113.4	0.20
2022-05-30	2022-06-03	254.89	6.83	0.39	8.79	0.54	22.51	104.9	0.19
2022-06-06	2022-06-08	255.12	7.29	0.39	8.61	3.43	24.27	184.1	0.19
2022-06-13	2022-06-15	259.74	7.12	0.40	8.72	2.38	23.96	252.9	0.19
2022-06-20	2022-06-22	262.41	7.17	0.40	8.76	3.46	23.61	68.5	0.20
2022-06-27	2022-06-30	258.90	7.06	0.40	8.82	11.36	24.43	88.5	0.19
2022-07-04	2022-07-08	254.16	7.17	0.39	8.79	0.21	23.44	188.4	0.19
2022-07-11	2022-07-14	265.51	6.70	0.41	8.77	21.39	22.17	164.4	0.20
2022-08-01	2022-08-03	271.64	7.41	0.42	8.52	0.00	23.04	174.3	0.20
2022-08-08	2022-08-10	256.37	7.61	0.39	8.56	3.93	23.02	207.8	0.19
2022-08-15	2022-08-17	252.24	7.26	0.39	8.47	1.49	23.53	180.0	0.19
2022-08-22	2022-08-24	263.17	7.35	0.40	8.44	1.17	23.72	215.3	0.20
2022-08-29	2022-08-31	265.83	7.58	0.41	8.69	0.00	22.63	111.2	0.20
2022-09-06	2022-09-09	278.13	7.40	0.43	8.65	0.70	22.76	155.5	0.21
2022-09-12	2022-09-14	269.71	7.80	0.41	8.78	0.34	22.31	130.3	0.20
2022-09-19	2022-09-23	267.80	7.59	0.41	8.72	0.15	22.52	91.0	0.20
2022-09-26	2022-09-28	271.17	7.65	0.42	8.87	0.10	24.47	75.8	0.20
2022-10-03	2022-10-05	299.64	7.26	0.46	8.96	0.00	22.32	127.2	0.22
2022-10-17	2022-10-17	274.91	7.97	0.42	9.04	0.08	22.74	87.5	0.21
2022-10-17	2022-10-19	277.83	7.52	0.43	8.85	0.36	21.55	161.6	0.21
2022-10-24	2022-10-24	292.16	7.41	0.45	8.91	1.02	24.35	214.7	0.22
2022-10-24	2022-10-26	286.57	7.38	0.44	9.58	0.00	23.69	202.2	0.21
2022-10-31	2022-10-31	284.47	7.44	0.44	9.06	6.97	22.27	208.4	0.21
2022-10-31	2022-11-02	267.59	7.67	0.41	9.11	0.65	21.89	209.2	0.20
2022-11-07	2022-11-07	231.07	7.31	0.36	8.50	5.13	24.55	51.3	0.17
2022-11-07	2022-11-09	272.44	7.40	0.42	8.66	0.47	24.42	37.2	0.20
2022-11-14	2022-11-14	277.22	7.36	0.43	9.41	3.14	21.65	84.9	0.21
2022-11-14	2022-11-16	250.17	7.33	0.38	8.97	0.67	23.30	93.3	0.19
2022-11-19	2022-11-19	275.93	7.29	0.42	8.37	0.00	24.93	133.7	0.21
2022-11-19	2022-11-21	250.58	7.21	0.39	8.47	4.21	23.97	148.9	0.19
2022-11-28	2022-11-30	262.66[h]	7.76	0.40[h]	8.41	0.55	24.04	51.6	0.20[h]
2022-12-19	2022-12-23	269.77	7.23	0.42	9.24	0.53	27.59	38.6	0.20
2022-12-26	2022-12-30	296.73	7.30	0.46	8.31	6.59	24.72	107.7	0.22
2023-01-02	2023-01-06	0.03[i]	7.14	0.00[i]	8.72	1.26	27.99	119.3	0.00[i]
2023-01-09	2023-01-13	291.15	6.97	0.45	8.86	1.00	20.57	74.6	0.22
2023-01-16	2023-01-20	294.17	7.26	0.45	8.31	0.67	24.79	208.2	0.22
2023-01-23	2023-01-25	270.17	N/A[K]	0.42	8.01	1.06	26.06	-9.2	0.20

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

	RHMW05								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-09-29	349.04	6.87	0.54	7.98	60.20	24.33	174.2	0.3
2021-10-04	2021-10-06	375.49	7.56	0.58	8.40	7.30	24.77	161.5	0.3
2021-10-11	2021-10-13	285.67	7.91	0.44	9.40	5.74	23.83	153.7	0.2
2021-10-18	2021-10-20	270.89	6.75	0.45	8.54	0.79	23.87	165.1	0.2
2021-10-25	2021-10-27	283.22	7.25	0.44	8.41	5.70	23.62	147.2	0.2
2021-11-01	2021-11-03	276.87	7.14	0.43	8.29	1.16	24.33	186.1	0.2
2021-11-08	2021-11-10	410.48	7.56	0.63	8.34	1.27	24.42	180.2	0.3
2021-11-15	2021-11-17	292.55	7.32	0.45	7.83	16.24	23.57	145.0	0.2
2021-11-22	2021-11-24	308.75	7.58	0.48	8.29	1.89	23.36	133.4	0.2
2021-11-29	2021-12-01	458.63	7.48	0.71	8.45	1.43	23.57	112.2	0.3
2021-12-06	2021-12-08	385.22	7.88	0.59	8.70	4.78	23.13	147.6	0.3
2021-12-13	2021-12-15	381.54	7.73	0.58	7.74	0.24	24.56	132.2	0.3
2021-12-20	2021-12-20	381.25	7.43	0.59	8.74	0.28	22.76	110.2	0.3
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	434.54	7.32	0.67	8.70	12.50	21.85	127.1	0.3
2022-01-03	2022-01-03	381.59	7.83	0.59	8.53	0.39	21.07	127.4	0.3
2022-01-10	2022-01-10	475.53	7.13	0.73	9.12	143.00	23.22	76.0	0.4
2022-01-16	2022-01-17	481.48	7.94	0.74	8.42	0.84	23.61	171.8	0.4
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	316.23	7.62	0.49	10.92	0.51	23.65	167.9	0.21
2022-03-07	2022-03-08	393.35	7.46	0.61	8.40	0.32	23.75	162.7	0.30
2022-03-14	2022-03-15	438.82	7.29	0.68	9.25	0.02	24.31	218.2	0.33
2022-03-21	2022-03-22	467.33	7.04	0.72	8.27	3.34	24.04	241.6	0.35
2022-03-28	2022-03-31	316.43	7.48	0.49	9.60	2.36	23.61	310.0	0.24
2022-04-04	2022-04-05	356.59	7.46	0.55	8.60	1.18	24.25	195.9	0.27
2022-04-25	2022-04-26	366.82	7.60	0.56	8.84	0.00	24.34	152.6	0.28
2022-05-02	2022-05-03	321.26	7.04	0.49	8.22	0.83	23.71	80.2	0.24
2022-05-09	2022-05-10	357.02	7.43	0.55	8.71	1.97	24.53	130.6	0.27
2022-05-16	2022-05-17	333.18	7.42	0.51	9.00	0.18	24.28	206.8	0.25
2022-05-23	2022-05-24	329.85	7.32	0.51	8.21	1.03	24.06	147.4	0.25
2022-05-30	2022-05-31	274.70	7.33	0.42	8.79	35.28	23.42	-113.4	0.20
2022-06-06	2022-06-07	288.90	7.27	0.44	8.26	21.93	24.68	237.6	0.22
2022-06-13	2022-06-14	312.18	7.37	0.48	8.44	1.34	24.99	207.3	0.23
2022-06-20	2022-06-21	305.01	7.16	0.47	8.21	11.55	23.89	151.7	0.23
2022-06-27	2022-06-29	295.86	7.22	0.46	8.43	2.20	24.47	-0.4	0.22
2022-07-04	2022-07-06	313.82	7.29	0.48	8.35	7.56	23.93	100.7	0.23
2022-07-11	2022-07-12	328.43	6.91	0.51	8.99	12.77	23.60	249.7	0.25
2022-08-01	2022-08-02	301.21	7.56	0.46	8.00	1.98	24.20	202.3	0.23
2022-08-08	2022-08-09	308.43	7.42	0.47	8.13	0.00	24.06	284.0	0.23
2022-08-15	2022-08-16	271.49	7.52	0.42	8.86	9.45	24.42	164.6	0.20
2022-08-22	2022-08-23	282.54	7.55	0.43	8.20	0.00	24.21	175.3	0.21
2022-08-29	2022-08-30	275.79	7.35	0.42	8.05	0.00	23.90	76.4	0.21
2022-09-06	2022-09-06	259.82	7.36	0.40	8.05	0.00	24.00	112.2	0.19
2022-09-12	2022-09-13	236.51	7.55	0.36	8.16	0.15	23.65	109.4	0.18
2022-09-19	2022-09-20	220.58	7.78	0.34	7.97	0.17	23.82	45.8	0.16
2022-09-26	2022-09-27	231.79	7.63	0.36	7.97	5.80	23.40	85.6	0.17
2022-10-03	2022-10-04	230.70	7.05	0.35	8.02	0.62	23.44	148.1	0.17
2022-10-17	2022-10-18	194.07	7.27	0.30	8.11	0.48	22.92	194.5	0.14
2022-10-17	2022-10-20	226.91	7.48	0.35	8.04	9.82	23.34	240.9	0.17
2022-10-24	2022-10-25	253.05	7.03	0.39	4.60	10.56	22.90	170.0	0.19
2022-10-24	2022-10-27	209.94	7.67	0.32	8.04	3.96	23.86	243.8	0.16
2022-10-31	2022-11-01	201.30	7.14	0.31	7.90	6.08	23.23	177.8	0.15
2022-10-31	2022-11-03	206.39	7.47	0.32	8.05	2.93	23.33	210.2	0.15
2022-11-07	2022-11-08	196.35	7.28	0.30	7.57	0.55	25.07	55.3	0.15
2022-11-07	2022-11-10	214.00	7.28	0.33	7.99	15.40	25.62	56.7	0.16
2022-11-14	2022-11-15	213.97	7.48	0.33	6.49	5.73	22.92	-18.7	0.16
2022-11-14	2022-11-17	206.94	7.57	0.32	8.10	22.73	23.35	138.6	0.15
2022-11-19	2022-11-20	199.23	7.38	0.31	7.74	3.91	24.89	108.8	0.15
2022-11-19	2022-11-22	222.33	7.40	0.34	8.03	1.26	23.51	257.4	0.16
2022-11-28	2022-11-29	233.07	7.31	0.36	7.78	2.20	24.87	86.3	0.17
2022-12-19	2022-12-20	278.74	7.22	0.43	7.85	1.41	25.50	136.6	0.21
2022-12-26	2022-12-28	214.17	7.21	0.33	7.58	0.84	25.43	61.1	0.16
2023-01-02	2023-01-04	211.53	7.39	0.33	7.70	6.52	25.62	88.8	0.16
2023-01-09	2023-01-10	253.90	7.27	0.39	7.65	12.51	25.48	117.6	0.19
2023-01-16	2023-01-17	262.63	7.43	0.40	8.04	1.95	25.79	144.0	0.20
2023-01-23	2023-01-24	265.51	7.46	0.41	8.08	8.40	27.96	169.4	0.20

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

RHMW06									
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-10-01	1113.92	7.25	1.72	8.19	1.64	25.40	217.0	0.9
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-13	833.60	7.66	1.28	8.25	0.11	23.90	124.6	0.6
2021-12-20	2021-12-21	857.24	7.51	1.32	7.37	0.30	21.04	104.4	0.7
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-28	862.35	7.06	1.33	7.45	0.12	20.77	145.5	0.7
2022-01-03	2022-01-04	826.31	7.31	1.27	7.35	0.28	21.90	101.6	0.6
2022-01-10	2022-01-11	835.91	7.83	1.29	7.69	0.75	21.73	134.8	0.6
2022-01-16	2022-01-18	854.54	7.91	1.31	7.24	0.31	24.94	144.2	0.7
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-02-28	1122.81	6.98	1.73	9.32	0.58	14.31	139.2	0.9
2022-03-07	2022-03-07	1133.30	6.76	1.74	7.38	0.28	27.83	213.0	0.90
2022-03-14	2022-03-16	1251.00	6.86	1.92	8.17	0.35	29.41	200.6	0.99
2022-03-21	2022-03-23	1278.97	6.76	1.97	6.98	0.00	23.44	212.7	1.01
2022-03-28	2022-03-30	1126.76	6.85	1.75	7.09	0.20	28.37	216.0	0.90
2022-04-04	2022-04-04	1042.30	6.94	1.72	8.04	0.08	26.52	212.1	0.88
2022-04-25	2022-04-25	1088.66	6.96	1.67	7.44	0.00	24.56	92.2	0.86
2022-05-02	2022-05-04	1128.16	6.86	1.74	7.44	0.00	23.61	155.4	0.89
2022-05-09	2022-05-11	1151.85	6.89	1.77	7.83	0.10	24.06	195.9	0.91
2022-05-16	2022-05-16	1112.44	6.93	1.71	6.93	0.29	24.28	106.8	0.88
2022-05-23	2022-05-23	1096.60	6.94	1.69	7.10	0.68	25.34	107.0	0.86
2022-05-30	2022-06-03	1091.53	6.83	1.68	7.31	2.88	25.39	-15.5	0.86
2022-06-06	2022-06-08	1096.33	6.75	1.69	7.08	3.60	25.81	188.5	0.86
2022-06-13	2022-06-15	1108.77	7.00	1.70	6.95	2.99	25.38	193.3	0.87
2022-06-20	2022-06-22	1114.40	6.58	1.71	7.14	1.92	23.34	104.1	0.88
2022-06-27	2022-06-30	1106.25	6.69	1.70	7.56	6.39	25.88	155.6	0.87
2022-07-04	2022-07-08	1116.27	6.59	1.72	7.76	5.65	23.35	45.4	0.88
2022-07-11	2022-07-14	1141.12	6.92	1.76	7.38	2.98	26.33	170.1	0.90
2022-08-01	2022-08-03	1139.32	6.90	1.75	7.60	0.00	23.28	257.0	0.90
2022-08-08	2022-08-10	1094.72	7.07	1.68	7.08	5.64	25.96	264.5	0.86
2022-08-15	2022-08-17	1087.81	7.00	1.67	7.20	2.23	24.53	211.9	0.86
2022-08-22	2022-08-24	1119.39	6.90	1.72	7.21	0.00	24.16	228.1	0.88
2022-08-29	2022-08-31	1133.32	6.89	1.74	7.66	0.00	23.47	90.2	0.89
2022-09-06	2022-09-09	1177.30	6.85	1.81	7.02	0.32	23.38	186.2	0.93
2022-09-12	2022-09-14	1141.41	6.91	1.76	7.41	0.31	23.06	188.4	0.90
2022-09-19	2022-09-23	1132.64	7.06	1.74	7.39	0.30	24.90	105.4	0.89
2022-09-26	2022-09-28	1144.53	7.03	1.76	7.74	0.34	25.84	49.3	0.90
2022-10-03	2022-10-06	1269.47	6.92	1.95	7.37	1.26	24.51	130.4	1.01
2022-10-17	2022-10-17	1134.12	7.55	1.74	7.29	0.00	25.03	35.9	0.89
2022-10-17	2022-10-19	1136.67	6.91	1.75	6.94	0.23	24.30	162.3	0.90
2022-10-24	2022-10-24	1157.14	6.94	1.78	8.68	0.00	24.65	224.4	0.91
2022-10-24	2022-10-26	1166.26	6.76	1.79	7.50	0.00	23.97	204.4	0.92
2022-10-31	2022-10-31	1177.41	7.15	1.81	7.65	0.36	24.95	178.7	0.93
2022-10-31	2022-11-02	1103.92	7.23	1.70	7.46	3.95	25.00	138.0	0.87
2022-11-07	2022-11-07	1035.32	6.75	1.59	6.74	0.36	25.23	53.4	0.81
2022-11-07	2022-11-09	1114.74	7.19	1.71	7.59	0.31	24.27	35.2	0.88
2022-11-14	2022-11-14	1090.78	6.71	1.68	7.32	0.40	24.19	63.1	0.86
2022-11-14	2022-11-16	1060.25	7.10	1.63	7.39	0.46	27.50	72.2	0.83
2022-11-19	2022-11-19	0.00[i]	7.05	0.00[i]	7.53	0.00	26.43	45.6	0.00[i]
2022-11-19	2022-11-21	1065.97	7.12	1.64	7.17	0.26	25.59	149.0	0.84
2022-11-28	2022-11-30	1067.74[h]	6.82	1.64[h]	7.17	5.15	24.51	-75.3	0.84[h]
2022-12-19	2022-12-19	1109.14	6.74	1.71	6.86	2.52	23.85	146.1	0.87
2022-12-26	2022-12-30	1143.73	6.72	1.76	6.76	0.00	24.53	105.1	0.90
2023-01-02	2023-01-06	1288.57	6.83	1.98	8.05	0.87	26.49	143.4	1.02
2023-01-09	2023-01-13	1202.55	6.82	1.85	7.08	0.79	22.02	41.3	0.95
2023-01-16	2023-01-20	1115.53	6.93	1.72	7.12	5.25	30.05	212.4	0.88
2023-01-23	2023-01-25	1116.15	N/A[K]	1.72	6.78	5.51	27.32	115.2	0.88

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

		RHMW08							
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-09-30	513.88	8.03	0.79	8.16	1.43	26.46	210.5	0.4
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	2021-12-01	466.14	8.07	0.72	6.62	0.62	24.99	44.4	0.4
2021-12-06	2021-12-08	450.45	7.65	0.69	5.66	0.96	22.63	99.1	0.3
2021-12-13	2021-12-16	460.91	7.10	0.71	3.81	2.34	21.37	140.2	0.3
2021-12-20	2021-12-23	464.96	8.23	0.72	3.92	4.83	27.96	185.3	0.4
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-28	458.10	7.73	0.71	5.64	0.15	21.95	52.9	0.7
2022-01-03	2022-01-04	467.30	7.58	0.72	3.00	0.38	21.99	74.6	0.4
2022-01-10	2022-01-11	463.94	7.75	0.71	5.05	1.30	24.32	135.5	0.4
2022-01-16	2022-01-18	467.88	6.12	0.72	3.76	0.28	24.79	361.9	0.4
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-02-28	450.78	8.01	0.71	6.34	1.61	15.07	78.2	0.4
2022-03-07	2022-03-09	467.88	7.61	0.72	4.67	0.84	25.07	168.3	0.35
2022-03-14	2022-03-16	507.78	7.49	0.78	4.98	0.08	26.70	207.6	0.39
2022-03-21	2022-03-23	517.66	7.70	0.80	4.16	0.00	24.39	211.9	0.39
2022-03-28	2022-03-30	453.12	7.89	0.70	5.19	0.25	24.96	186.3	0.34
2022-04-04	2022-04-04	447.28	7.58	0.70	5.01	0.02	23.76	200.6	0.34
2022-04-25	2022-04-25	437.69	7.77	0.67	6.31	0.67	24.21	95.9	0.33
2022-05-02	2022-05-04	457.07	7.86	0.70	4.84	2.34	23.83	-106.7	0.35
2022-05-09	2022-05-11	467.79	7.62	0.72	6.05	0.19	24.84	148.3	0.35
2022-05-16	2022-05-16	442.89	7.65	0.68	5.24	7.06	23.68	114.7	0.34
2022-05-23	2022-05-23	446.99	7.41	0.69	2.88	1.08	24.50	76.8	0.34
2022-05-30	2022-06-03	447.35	7.35	0.69	3.80	1.47	27.76	116.2	0.34
2022-06-06	2022-06-08	446.60	7.60	0.69	4.70	5.32	27.35	23.6	0.34
2022-06-13	2022-06-15	451.24	7.84	0.69	5.66	1.96	26.83	215.7	0.34
2022-06-20	2022-06-22	448.89	7.40	0.69	5.57	12.59	27.09	91.5	0.34
2022-06-27	2022-06-30	441.62	7.44	0.68	5.12	3.50	24.77	95.9	0.33
2022-07-04	2022-07-08	455.25	7.59	0.70	5.69	0.42	23.13	100.1	0.35
2022-07-11	2022-07-14	451.73	7.58	0.69	5.08	2.74	25.26	179.4	0.34
2022-08-01	2022-08-03	445.60	7.88	0.69	6.49	0.00	23.24	216.6	0.34
2022-08-08	2022-08-10	425.79	8.12	0.66	5.27	5.35	24.62	206.5	0.32
2022-08-15	2022-08-17	418.57	8.03	0.64	5.75	6.13	25.88	201.2	0.32
2022-08-22	2022-08-24	443.09	8.00	0.68	5.89	0.43	24.41	180.4	0.34
2022-08-29	2022-08-31	446.08	7.93	0.69	6.37	0.50	24.55	68.3	0.34
2022-09-06	2022-09-09	464.84	7.86	0.72	5.62	0.58	23.81	178.2	0.35
2022-09-12	2022-09-14	451.13	8.00	0.69	5.31	3.83	24.52	165.1	0.34
2022-09-19	2022-09-23	449.07	7.84	0.69	5.96	0.89	24.53	83.0	0.34
2022-09-26	2022-09-28	457.61	8.05	0.70	6.26	0.20	23.51	96.3	0.35
2022-10-03	2022-10-05	496.01	7.92	0.76	6.36	0.00	23.32	77.3	0.38
2022-10-17	2022-10-17	455.71	8.26	0.70	5.88	0.37	25.81	8.8	0.35
2022-10-17	2022-10-19	453.93	7.86	0.70	6.03	0.64	23.68	146.8	0.34
2022-10-24	2022-10-24	478.23	7.96	0.74	7.19	0.16	27.02	207.4	0.36
2022-10-24	2022-10-26	477.51	7.95	0.73	7.17	0.00	25.76	144.0	0.36
2022-10-31	2022-10-31	471.95	8.01	0.73	6.61	0.83	24.26	196.8	0.36
2022-10-31	2022-11-02	440.77	8.25	0.68	6.67	0.50	22.82	197.9	0.33
2022-11-07	2022-11-07	410.31	7.57	0.63	6.33	5.97	25.29	69.5	0.31
2022-11-07	2022-11-09	462.19	8.10	0.71	6.34	2.88	23.22	69.8	0.35
2022-11-14	2022-11-14	444.64	7.80	0.68	6.38	0.51	23.49	51.9	0.34
2022-11-14	2022-11-16	419.92	8.00	0.65	6.41	0.82	24.53	67.8	0.32
2022-11-19	2022-11-19	438.72	7.89	0.67	6.52	0.00	23.89	195.4	0.33
2022-11-19	2022-11-21	415.60	7.56	0.64	7.54	0.37	26.26	141.4	0.31
2022-11-28	2022-11-30	437.41[h]	7.85	0.67[h]	6.29	1.49	24.31	88.1	0.33[h]
2022-12-19	2022-12-19	432.54	7.60	0.67	5.83	0.88	23.24	202.8	0.33
2022-12-26	2022-12-30	471.18	7.66	0.72	6.51	0.00	24.65	123.0	0.36
2023-01-02	2023-01-06	526.56	7.69	0.81	5.78	2.72	24.48	139.7	0.40
2023-01-09	2023-01-13	482.43	7.51	0.74	6.35	1.72	24.40	-9.0	0.37
2023-01-16	2023-01-20	467.92	7.66	0.72	6.83	7.10	27.52	202.9	0.35
2023-01-23	2023-01-25	449.22	N/A[K]	0.69	1.72	19.94	26.12	-117.6	0.34

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW09								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-09-30	244.07	7.89	0.38	8.24	1.62	26.86	155.6	0.2
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-16	216.08	7.53	0.33	9.34	2.44	22.02	54.4	0.2
2021-12-20	2021-12-24	223.54	7.07	0.35	7.85	4.03	21.86	104.1	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2022-01-01	223.64	6.91	0.34	8.73	2.26	20.31	115.7	0.2
2022-01-03	2022-01-07	217.49	7.78	0.34	8.75	0.95	21.11	79.0	0.2
2022-01-10	2022-01-12	215.34	7.75	0.33	9.26	1.05	19.55	80.9	0.2
2022-01-16	2022-01-17	228.58	8.68	0.35	8.52	0.64	24.79	99.0	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-03	208.25	6.78	0.32	8.94	81.88	23.83	238.8	0.15
2022-03-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-03-14	2022-03-16	177.84	7.19	0.32	9.89	1.81	25.05	217.7	0.13
2022-03-21	2022-03-21	216.83	7.79	0.33	9.44	0.51	26.76	190.6	0.16
2022-03-28	2022-03-28	207.90	7.45	0.32	8.70	0.11	24.22	176.2	0.15
2022-04-04	2022-04-08	212.31	7.47	0.33	8.54	0.66	25.32	198.3	0.16
2022-04-25	2022-04-28	202.87	7.27	0.31	8.16	0.00	24.51	213.7	0.15
2022-05-02	2022-05-02	205.97	7.19	0.32	8.44	6.49	23.15	72.8	0.15
2022-05-09	2022-05-09	209.18	7.43	0.32	8.49	2.11	23.84	286.4	0.15
2022-05-16	2022-05-18	210.44	7.30	0.32	9.55	0.04	24.68	215.5	0.16
2022-05-23	2022-05-25	203.54	7.35	0.31	8.26	1.43	26.02	76.7	0.15
2022-05-30	2022-06-01	233.79	7.17	0.36	8.70	1.60	24.92	184.3	0.17
2022-06-06	2022-06-06	222.33	7.09	0.34	8.22	27.08	25.28	-120.0	0.16
2022-06-13	2022-06-13	208.59	7.49	0.32	8.15	1.34	28.99	174.7	0.15
2022-06-20	2022-06-20	202.60	6.70	0.31	8.43	2.67	22.97	130.1	0.15
2022-06-27	2022-06-28	211.91	7.31	0.33	8.70	0.01	22.93	196.7	0.16
2022-07-04	2022-07-05	227.30	7.09	0.35	8.95	2.16	23.50	125.9	0.17
2022-07-11	2022-07-11	210.26	6.85	0.32	8.57	4.41	23.85	193.2	0.16
2022-08-01	2022-08-01	219.59	7.32	0.34	9.13	0.00	24.41	182.6	0.16
2022-08-08	2022-08-08	211.61	7.33	0.33	8.43	0.00	22.63	258.0	0.16
2022-08-15	2022-08-15	204.27	7.27	0.31	8.39	3.60	23.17	178.9	0.15
2022-08-22	2022-08-22	213.18	7.61	0.33	8.84	0.00	24.79	192.4	0.16
2022-08-29	2022-08-29	205.39	7.66	0.32	8.39	0.79	23.52	49.2	0.15
2022-09-06	2022-09-07	209.80	7.59	0.32	9.00	0.00	22.65	193.3	0.16
2022-09-12	2022-09-12	211.50	7.25	0.33	8.59	0.38	22.65	163.5	0.16
2022-09-19	2022-09-19	216.19	7.51	0.33	8.43	3.49	23.65	154.9	0.16
2022-09-26	2022-09-26	209.97	7.44	0.32	8.50	0.50	23.41	92.0	0.16
2022-10-03	2022-10-03	224.37	7.88	0.35	8.68	0.59	22.49	91.1	0.17
2022-10-17	2022-10-17	215.79	7.55	0.33	7.14	0.02	23.59	-4.5	0.16
2022-10-17	2022-10-19	217.37	7.33	0.33	8.73	0.95	22.20	226.9	0.16
2022-10-24	2022-10-24	228.41	7.78	0.35	8.76	0.21	22.54	159.6	0.17
2022-10-24	2022-10-26	201.06	7.42	0.31	8.91	2.30	24.82	272.0	0.15
2022-10-31	2022-10-31	197.11	7.13	0.30	8.61	2.58	22.64	105.9	0.15
2022-10-31	2022-11-02	196.84	7.32	0.30	8.43	6.13	23.07	91.8	0.15
2022-11-07	2022-11-07	216.49	7.53	0.33	8.52	0.84	23.25	71.3	0.16
2022-11-07	2022-11-09	233.65	7.17	0.36	8.18	2.86	25.11	18.3	0.17
2022-11-14	2022-11-14	205.05	7.44	0.32	8.28	3.20	24.34	54.7	0.15
2022-11-14	2022-11-16	209.65	7.58	0.32	8.54	2.61	22.47	103.2	0.16
2022-11-19	2022-11-19	208.05	7.50	0.32	8.64	1.34	21.94	92.3	0.15
2022-11-19	2022-11-21	218.17	7.68	0.34	8.53	1.55	23.03	222.9	0.16
2022-11-28	2022-11-28	217.38	7.38	0.33	9.04	0.94	22.68	71.9	0.16
2022-12-19	2022-12-23	216.06	7.30	0.33	8.43	0.80	23.29	129.1	0.16
2022-12-26	2022-12-27	212.21	6.43	0.33	7.98	0.39	23.90	87.9	0.16
2023-01-02	2023-01-03	224.21	6.78	0.34	8.17	0.46	23.57	99.6	0.17
2023-01-09	2023-01-09	253.71	7.30	0.39	8.35	0.69	26.35	125.7	0.19
2023-01-16	2023-01-16	0.17[j]	4.53[j]	0.00[j]	9.79	1.27	24.85	140.9	0.00[j]
2023-01-23	2023-01-23	208.19	7.17	0.32	7.83	53.83	24.72	47.9	0.15

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW11 - Zone 5								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-16	281.68	6.75	0.43	0.23	0.23	23.77	44.4	0.20
2021-12-20	2021-12-23	279.80	7.94	0.43	1.45	0.17	24.29	-12.8	0.20
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-30	272.91	8.11	0.42	0.27	0.08	22.86	61.4	0.20
2022-01-03	2022-01-06	268.32	8.06	0.41	0.44	0.14	23.01	-32.4	0.20
2022-01-10	2022-01-13	253.68	7.70	0.39	0.54	0.18	27.56	99.1	0.20
2022-01-16	2022-01-20	254.89	7.96	0.39	0.51	0.33	23.08	-7.8	0.20
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-03	260.54	7.88	0.40	2.91	9.16	24.30	-37.8	0.20
2022-03-07	2022-03-09	365.58	7.69	0.56	0.30	10.46	25.81	-76.8	0.27
2022-03-14	2022-03-17	305.35	7.69	0.47	0.14	3329.54	25.04	-89.7	0.23
2022-03-21	2022-03-22	276.49	7.80	0.43	0.23	3.86	24.55	-80.9	0.20
2022-03-28	2022-03-31	288.92	7.98	0.44	1.15	0.08	27.47	-78.5	0.22
2022-04-04	2022-04-07	283.76	7.94	0.44	0.79	0.19	24.10	-31.4	0.21
2022-04-25	2022-04-28	264.41	7.93	0.41	1.13	0.44	25.45	13.4	0.20
2022-05-02	2022-05-05	259.56	7.95	0.40	0.70	1.70	26.49	25.2	0.19
2022-05-09	2022-05-11	263.71	7.94	0.40	1.30	0.55	26.62	14.9	0.20
2022-05-16	2022-05-19	268.31	7.87	0.41	0.57	0.78	25.05	21.4	0.20
2022-05-23	2022-05-26	270.22	7.82	0.42	0.91	11.97	25.40	-44.2	0.20
2022-05-30	2022-06-02	273.70	7.89	0.42	1.86	0.20	27.54	1.3	0.20
2022-06-06	2022-06-09	273.05	7.69	0.42	0.93	0.50	25.51	17.1	0.20
2022-06-13	2022-06-16	274.88	7.85	0.42	1.20	0.45	24.70	8.1	0.21
2022-06-20	2022-06-23	265.34	7.82	0.41	1.79	0.42	26.08	60.9	0.20
2022-06-27	2022-07-01	273.07	7.88	0.42	0.99	0.79	27.59	31.0	0.20
2022-07-04	2022-07-07	274.70	7.90	0.42	0.74	0.23	27.41	24.1	0.20
2022-07-11	2022-07-13	269.70	7.90	0.41	1.38	0.72	25.97	19.9	0.20
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-12	266.54	8.07	0.41	0.90	0.97	26.04	-0.7	0.20
2022-08-15	2022-08-17	309.31	7.92	0.48	0.75	0.21	25.71	-30.4	0.23
2022-08-22	2022-08-22	286.87	7.95	0.44	0.93	0.49	25.76	96.3	0.21
2022-08-29	2022-08-29	267.85	8.00	0.41	0.85	0.79	26.54	-150.4	0.20
2022-09-06	2022-09-07	277.92	7.95	0.43	0.88	1.12	25.91	17.6	0.21
2022-09-12	2022-09-13	284.37	7.74	0.44	1.05	1.43	27.88	15.4	0.21
2022-09-19	2022-09-20	295.10	7.95	0.45	0.70	0.65	26.03	-1.6	0.22
2022-09-26	2022-09-27	285.90	7.91	0.44	1.18	0.68	26.45	-50.4	0.21
2022-10-03	2022-10-03	272.13	7.94	0.42	1.07	1.30	25.67	-60.3	0.20
2022-10-17	2022-10-17	317.41	7.85	0.49	0.99	1.62	26.01	1.3	0.24
2022-10-17	2022-10-21	254.73	7.98	0.39	0.84	1.65	29.65	187.3	0.19
2022-10-24	2022-10-24	259.53	7.98	0.40	2.07	1.45	26.99	224.6	0.19
2022-10-24	2022-10-28	252.96	8.04	0.39	1.61	0.07	23.47	76.8	0.19
2022-10-31	2022-11-02	295.31	7.86	0.45	1.42	1.00	26.23	-40.7	0.22
2022-10-31	2022-11-04	282.48	7.95	0.43	1.12	1.18	25.73	-4.9	0.21
2022-11-07	2022-11-09	227.55	7.84	0.35	1.22	0.21	26.82	46.5	0.17
2022-11-07	2022-11-11	251.89	8.02	0.39	1.48	0.55	24.18	-120.9	0.19
2022-11-14	2022-11-16	249.76	8.04	0.38	0.62	0.53	26.14	-164.5	0.19
2022-11-14	2022-11-18	264.90	7.96	0.41	2.18	0.00	27.45	-91.7	0.20
2022-11-19	2022-11-21	376.59	7.94	0.58	0.97	0.00	24.83	42.1	0.28
2022-11-19	2022-11-23	268.04	8.10	0.41	1.95	0.00	24.17	-174.6	0.20
2022-11-28	2022-11-29	280.27	8.00	0.43	1.12	0.09	28.33	206.6	0.21
2022-12-19	2022-12-20	285.72	8.13	0.44	1.68	0.37	25.58	-190.9	0.21
2022-12-26	2022-12-28	267.82	8.06	0.41	1.33	0.00	24.73	-164.0	0.20
2023-01-02	2023-01-04	284.35	8.04	0.44	1.48	0.00	23.41	-179.0	0.21
2023-01-09	2023-01-10	280.89	8.02	0.43	1.99	1.09	27.06	-149.9	0.21
2023-01-16	2023-01-17	267.92	7.93	0.41	2.12	0.44	24.73	-101.5	0.20
2023-01-23	2023-01-24	263.13	8.00	0.40	1.49	1.44	25.26	-171.3	0.20

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW12A								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	2021-10-04	2510.08	11.97	3.86	7.92	0.39	27.73	117.1	2.1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-14	242.26	8.80	0.37	5.31	4.71	22.93	50.3	0.2
2021-12-20	2021-12-22	245.02	8.80	0.38	4.29	2.95	22.54	43.0	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-29	242.18	8.76	0.37	5.53	7.03	22.16	57.3	0.2
2022-01-03	2022-01-05	241.17	8.90	0.38	4.51	0.89	20.82	50.9	0.2
2022-01-10	2022-01-12	264.48	8.47	0.41	2.70	0.49	25.21	323.7	0.2
2022-01-16	2022-01-17	241.14	8.77	0.37	4.31	0.83	19.64	50.2	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-01	241.67	8.78	0.37	5.19	3.87	24.21	223.9	0.2
2022-03-07	2022-03-08	260.95	8.30	0.40	3.18	0.91	25.11	113.1	0.19
2022-03-14	2022-03-15	256.26	8.04	0.39	3.60	0.36	25.03	151.6	0.19
2022-03-21	2022-03-22	240.13	8.29	0.37	3.63	0.69	24.83	161.1	0.18
2022-03-28	2022-03-29	240.79	7.87	0.37	3.61	0.48	25.68	145.9	0.18
2022-04-04	2022-04-04	261.17	8.13	0.40	3.80	1.02	24.92	159.7	0.20
2022-04-25	2022-04-26	234.83	8.26	0.36	4.25	0.61	25.61	186.5	0.17
2022-05-02	2022-05-03	239.26	8.10	0.37	4.18	0.00	25.07	203.2	0.18
2022-05-09	2022-05-10	227.78	8.43	0.35	4.96	0.29	24.12	151.5	0.17
2022-05-16	2022-05-17	231.70	8.22	0.36	5.03	0.01	24.17	192.0	0.17
2022-05-23	2022-05-24	233.73	8.60	0.36	4.83	0.14	26.47	83.1	0.17
2022-05-30	2022-06-01	239.77	8.23	0.37	4.41	0.00	25.79	84.2	0.18
2022-06-06	2022-06-07	228.08	8.54	0.35	5.08	0.00	24.70	125.2	0.17
2022-06-13	2022-06-14	229.66	8.47	0.35	5.06	0.00	24.44	174.0	0.17
2022-06-20	2022-06-21	248.13	9.30	0.38	5.24	0.00	25.19	159.5	0.18
2022-06-27	2022-06-29	227.95	8.38	0.35	5.45	0.00	25.22	177.4	0.17
2022-07-04	2022-07-05	226.74	8.55	0.35	5.24	0.21	24.61	188.3	0.17
2022-07-11	2022-07-11	227.83	8.49	0.35	5.28	0.14	24.91	180.6	0.17
2022-08-01	2022-08-02	233.58	8.48	0.36	5.25	0.07	24.85	177.8	0.17
2022-08-08	2022-08-09	222.57	8.45	0.34	5.44	0.00	24.96	183.9	0.17
2022-08-15	2022-08-16	226.83	8.24	0.35	5.55	0.00	24.85	211.2	0.17
2022-08-22	2022-08-25	220.59	8.42	0.34	5.80	0.00	26.73	199.3	0.16
2022-08-29	2022-09-01	219.82	8.34	0.34	5.96	0.00	25.71	203.7	0.16
2022-09-06	2022-09-07	224.16	8.46	0.34	5.62	0.21	24.96	221.4	0.17
2022-09-12	2022-09-13	227.27	8.14	0.35	5.60	1.01	25.81	199.1	0.17
2022-09-19	2022-09-22	248.67	8.43	0.38	5.59	0.43	26.44	183.0	0.18
2022-09-26	2022-09-27	225.14	8.34	0.35	5.68	0.26	24.63	122.8	0.17
2022-10-03	2022-10-04	238.97	8.38	0.37	5.53	0.00	24.77	141.9	0.18
2022-10-17	2022-10-18	223.79	8.02	0.34	5.78	0.85	25.34	189.2	0.17
2022-10-17	2022-10-20	258.99	8.27	0.40	5.65	1.02	25.17	166.4	0.19
2022-10-24	2022-10-24	241.36	8.39	0.37	5.96	0.28	24.37	154.9	0.18
2022-10-24	2022-10-27	264.66	8.42	0.41	5.84	0.29	24.34	151.2	0.20
2022-10-31	2022-11-01	209.04	8.43	0.32	5.59	0.00	24.57	231.4	0.15
2022-10-31	2022-11-03	227.67	8.38	0.35	5.87	0.23	25.49	209.5	0.17
2022-11-07	2022-11-07	229.81	8.24	0.35	5.94	0.81	24.78	121.4	0.17
2022-11-07	2022-11-10	243.53	8.33	0.37	5.94	0.36	24.57	22.0	0.18
2022-11-14	2022-11-15	221.65	8.36	0.34	5.93	0.26	25.41	127.8	0.16
2022-11-14	2022-11-17	219.22	8.29	0.34	5.93	0.30	24.22	144.3	0.16
2022-11-19	2022-11-19	215.76	8.40	0.33	6.10	0.00	24.40	188.5	0.16
2022-11-19	2022-11-22	267.61	8.38	0.41	6.20	0.00	24.49	72.0	0.20
2022-11-28	2022-11-29	270.62	8.41	0.42	6.14	0.27	24.44	109.1	0.20
2022-12-19	2022-12-20	218.98	8.35	0.34	6.70	14.20	24.52	147.0	0.16
2022-12-26	2022-12-28	230.96	8.56	0.36	6.34	3.71	24.16	58.3	0.17
2023-01-02	2023-01-04	214.59	8.41	0.33	6.16	4.19	24.04	133.8	0.16
2023-01-09	2023-01-10	227.00	5.47[j]	0.35	6.06	2.56	24.91	138.7	0.17
2023-01-16	2023-01-17	217.61	8.20	0.33	6.00	5.16	25.23	98.8	0.16
2023-01-23	2023-01-25	220.22	8.52	0.34	6.16	0.92	24.43	114.9	0.16

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW13 - Zone 5								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-15	266.50	7.83	0.41	0.32	1.41	22.07	132.5	0.2
2021-12-20	2021-12-22	244.97	8.28	0.38	0.20	0.55	24.18	142.1	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-29	239.61	8.09	0.37	0.39	0.40	23.01	182.4	0.2
2022-01-03	2022-01-05	239.92	8.28	0.37	0.82	1.25	24.76	266.0	0.2
2022-01-10	2022-01-12	241.68	8.14	0.37	0.76	1.19	24.50	115.0	0.2
2022-01-16	2022-01-19	237.00	8.19	0.36	0.61	2.01	20.13	64.4	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	245.81	8.01	0.38	0.63	0.51	24.61	51.1	0.18
2022-03-07	2022-03-10	240.67	8.11	0.37	0.88	0.00	24.51	75.8	0.17
2022-03-14	2022-03-16	267.10	7.99	0.41	0.53	0.61	24.65	33.1	0.19
2022-03-21	2022-03-23	238.98	8.04	0.37	0.58	0.22	24.15	37.6	0.17
2022-03-28	2022-03-30	247.36	8.08	0.38	0.79	0.70	25.03	15.0	0.18
2022-04-04	2022-04-06	237.67	8.10	0.35	0.85	1.12	24.22	88.8	0.17
2022-04-25	2022-04-27	231.08	8.04	0.36	1.66	0.28	25.16	120.6	0.17
2022-05-02	2022-05-04	238.51	8.08	0.37	0.80	0.20	25.32	106.6	0.18
2022-05-09	2022-05-12	237.07	8.08	0.36	1.32	4.39	26.53	67.3	0.18
2022-05-16	2022-05-18	231.67	8.06	0.36	1.76	0.51	25.35	182.6	0.17
2022-05-23	2022-05-25	233.37	8.04	0.36	1.20	5.29	28.77	137.8	0.17
2022-05-30	2022-06-01	230.09	8.04	0.35	1.24	0.78	27.57	78.9	0.17
2022-06-06	2022-06-10	233.26	8.00	0.36	1.30	0.54	30.24	190.5	0.17
2022-06-13	2022-06-15	222.00	8.03	0.34	1.28	0.52	27.79	161.2	0.16
2022-06-20	2022-06-22	232.96	7.98	0.36	1.43	0.57	26.95	152.9	0.17
2022-06-27	2022-06-30	238.95	8.01	0.37	0.99	0.26	27.96	149.7	0.18
2022-07-04	2022-07-06	253.60	7.96	0.39	0.79	2.10	33.50	161.2	0.19
2022-07-11	2022-07-12	220.18	8.01	0.34	1.17	0.54	27.02	137.6	0.16
2022-08-01	2022-08-03	238.52	7.96	0.37	1.18	0.00	23.95	161.0	0.18
2022-08-08	2022-08-13	239.22	8.12	0.37	1.27	0.59	27.48	124.0	0.18
2022-08-15	2022-08-18	258.41	8.01	0.40	1.40	0.45	28.39	125.8	0.19
2022-08-22	2022-08-24	264.40	7.97	0.41	1.48	0.22	26.63	157.9	0.20
2022-08-29	2022-08-31	242.07	8.08	0.37	1.14	0.60	28.46	131.8	0.18
2022-09-06	2022-09-09	244.83	8.13	0.38	1.06	0.55	24.57	114.5	0.18
2022-09-12	2022-09-14	235.76	8.09	0.36	0.99	0.41	25.66	107.2	0.18
2022-09-19	2022-09-21	261.50	7.55	0.40	1.10	0.00	24.69	126.4	0.19
2022-09-26	2022-09-28	259.82	8.07	0.40	1.11	0.88	26.66	30.4	0.19
2022-10-03	2022-10-06	248.24	7.99	0.38	0.71	0.54	25.59	31.3	0.18
2022-10-17	2022-10-19	234.21	8.06	0.36	1.01	1.42	25.28	121.0	0.17
2022-10-17	2022-10-21	220.38	8.12	0.34	1.11	0.65	24.56	239.8	0.16
2022-10-24	2022-10-26	231.24	8.10	0.36	1.27	0.19	24.09	263.5	0.17
2022-10-24	2022-10-28	206.77	8.16	0.32	1.90	0.91	26.96	174.0	0.15
2022-10-31	2022-10-31	228.84	8.09	0.35	1.16	2.54	24.03	209.1	0.17
2022-10-31	2022-11-04	207.79	7.77	0.32	3.94	1.34	28.13	16.3	0.15
2022-11-07	2022-11-07	236.32	8.03	0.36	1.27	1.83	23.90	117.5	0.18
2022-11-07	2022-11-11	221.74	8.15	0.34	1.55	0.14	24.07	-6.6	0.16
2022-11-14	2022-11-14	208.12	8.08	0.32	0.93	0.71	23.26	10.3	0.15
2022-11-14	2022-11-16	219.60	8.04	0.34	1.79	1.02	23.15	35.2	0.16
2022-11-19	2022-11-19	218.24	8.07	0.34	2.06	1.16	23.49	-30.2	0.16
2022-11-19	2022-11-22	222.12	8.07	0.34	0.81	0.00	24.63	91.4	0.16
2022-11-28	2022-11-30	225.35	8.08	0.35	0.89	0.63	23.24	-15.2	0.17
2022-12-19	2022-12-21	235.00	8.17	0.36	1.01	0.20	22.61	18.5	0.17
2022-12-26	2022-12-29	239.29	8.03	0.37	0.87	0.22	23.81	-78.2	0.18
2023-01-02	2023-01-05	232.72	8.10	0.36	1.57	0.00	23.82	-8.0	0.17
2023-01-09	2023-01-11	268.20	8.00	0.41	1.17	0.69	22.93	-13.7	0.20
2023-01-16	2023-01-18	235.33	7.90	0.36	1.08	1.49	23.53	-62.9	0.17
2023-01-23	2023-01-25	278.46	8.16	0.43	0.79	0.65	23.91	-10.9	0.21

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW14 - Zone 3								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	2021-12-13	184.38	7.95	0.28	1.62	1.31	26.79	48.4	0.10
2021-12-20	2021-12-20	189.89	7.33	0.29	2.23	1.11	26.02	193.0	0.10
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	184.52	7.96	0.28	1.70	0.12	26.22	119.2	0.10
2022-01-03	2022-01-03	188.96	7.95	0.29	1.70	2.77	23.42	61.5	0.10
2022-01-10	2022-01-10	174.26	8.05	0.27	1.59	0.40	25.85	147.8	0.10
2022-01-16	2022-01-18	169.52	7.81	0.26	0.59	0.36	26.69	60.8	0.10
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-01	176.48	8.40	0.27	4.22	0.93	17.46	11.6	0.10
2022-03-07	2022-03-08	202.38	7.28	0.31	3.19	2.26	25.18	196.6	0.15
2022-03-14	2022-03-15	196.16	7.45	0.30	4.59	1.20	16.92	130.4	0.10
2022-03-21	2022-03-22	186.58	7.69	0.29	3.91	63.57	25.00	133.1	0.13
2022-03-28	2022-03-29	193.70	7.86	0.30	2.74	1.02	27.67	137.0	0.14
2022-04-04	2022-04-05	192.39	7.83	0.30	1.22	0.05	26.97	82.5	0.14
2022-04-25	2022-04-26	183.27	7.65	0.28	1.28	0.44	25.64	245.5	0.14
2022-05-02	2022-05-03	185.44	7.91	0.29	1.71	0.59	24.09	187.4	0.14
2022-05-09	2022-05-10	192.49	7.77	0.30	1.36	1.17	25.95	116.0	0.14
2022-05-16	2022-05-17	184.56	7.77	0.28	2.30	0.66	25.12	263.0	0.14
2022-05-23	2022-05-24	187.95	7.81	0.29	1.38	0.00	26.99	205.5	0.14
2022-05-30	2022-05-31	183.35	7.70	0.28	2.79	0.65	26.95	111.7	0.14
2022-06-06	2022-06-07	187.27	7.60	0.29	2.71	0.04	26.98	142.1	0.14
2022-06-13	2022-06-14	184.87	7.75	0.28	1.70	0.00	24.10	193.8	0.14
2022-06-20	2022-06-21	205.50	7.53	0.32	2.70	0.81	26.90	122.0	0.15
2022-06-27	2022-06-29	193.47	7.72	0.30	1.49	0.00	25.40	180.2	0.14
2022-07-04	2022-07-05	195.56	7.83	0.30	1.76	0.62	27.63	190.7	0.14
2022-07-11	2022-07-14	185.78	7.80	0.29	1.66	0.47	25.46	194.2	0.14
2022-08-01	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3	NC3
2022-08-08	2022-08-13	184.05	7.79	0.28	2.43	0.49	26.48	194.2	0.14
2022-08-15	2022-08-16	190.90	7.70	0.29	2.04	0.31	25.83	194.8	0.14
2022-08-22	2022-08-22	197.68	7.78	0.30	2.44	0.16	25.21	200.4	0.15
2022-08-29	2022-08-29	185.94	7.85	0.29	1.55	0.64	27.33	14.9	0.14
2022-09-06	2022-09-07	192.36	7.80	0.30	2.95	1.07	26.54	194.7	0.14
2022-09-12	2022-09-13	192.31	7.81	0.30	2.16	1.15	25.80	177.1	0.14
2022-09-19	2022-09-20	207.05	7.82	0.32	0.92	0.85	25.90	160.5	0.15
2022-09-26	2022-09-27	198.23	7.86	0.30	1.50	0.78	26.17	54.9	0.15
2022-10-03	2022-10-05	196.56	7.78	0.30	1.77	1.07	25.87	87.8	0.15
2022-10-17	2022-10-17	219.91	7.65	0.34	2.49	1.62	26.76	118.2	0.16
2022-10-17	2022-10-19	181.99	7.85	0.28	2.01	0.58	23.61	147.9	0.13
2022-10-24	2022-10-24	177.77	7.88	0.27	2.32	1.10	26.05	247.4	0.13
2022-10-24	2022-10-26	184.43	7.80	0.28	2.36	0.72	25.33	287.3	0.14
2022-10-31	2022-10-31	178.21	8.00	0.27	0.85	0.70	25.70	197.7	0.13
2022-10-31	2022-11-02	203.61	7.84	0.31	3.18	0.63	25.37	86.8	0.15
2022-11-07	2022-11-07	188.94	7.98	0.29	2.15	1.99	26.77	90.3	0.14
2022-11-07	2022-11-09	175.70	7.89	0.27	3.01	0.61	25.06	88.4	0.13
2022-11-14	2022-11-15	181.45	7.94	0.28	2.33	3.39	26.18	2.4	0.13
2022-11-14	2022-11-17	180.13	8.02	0.28	1.91	0.28	27.68	126.4	0.13
2022-11-19	2022-11-21	179.79	8.04	0.28	3.37	1.31	25.13	115.9	0.13
2022-11-19	2022-11-23	179.47	7.90	0.28	1.95	1.52	25.48	91.8	0.13
2022-11-28	2022-12-01	183.84	8.01	0.28	1.82	1.42	25.63	44.0	0.14
2022-12-19	2022-12-20	197.80	8.39	0.30	2.65	0.51	26.02	38.9	0.15
2022-12-26	2022-12-30	184.77	7.88	0.28	2.88	9.70	24.80	103.8	0.14
2023-01-02	2023-01-06	199.96	7.74	0.31	1.99	1.23	25.29	0.2	0.15
2023-01-09	2023-01-12	189.17	7.88	0.29	2.13	0.97	24.36	-37.3	0.14
2023-01-16	2023-01-19	199.53	7.51	0.31	2.43	1.70	25.26	12.5	0.15
2023-01-23	2023-01-26	181.23	8.06	0.28	1.93	0.57	24.18	26.7	0.13

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW15 - Zone 5								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	2021-12-02	193.00	7.42	0.30	1.59	0.04	29.75	124.3	0.1
2021-12-06	2021-12-09	198.14	8.04	0.31	1.22	0.31	24.62	134.1	0.1
2021-12-13	2021-12-14	201.56	7.83	0.31	2.31	0.51	23.45	109.2	0.1
2021-12-20	2021-12-21	201.69	7.64	0.31	1.61	0.29	20.22	50.5	0.1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-28	203.71	7.98	0.31	0.74	0.25	22.51	162.4	0.2
2022-01-03	2022-01-04	241.76	8.10	0.37	2.30	2.65	23.04	206.2	0.2
2022-01-10	2022-01-11	237.69	7.80	0.37	0.80	1.16	19.68	65.9	0.2
2022-01-16	2022-01-16	206.46	7.79	0.32	1.46	0.13	23.47	74.5	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-04	214.45	7.57	0.33	2.32	0.31	23.14	120.7	0.16
2022-03-07	2022-03-07	225.85	7.41	0.35	1.87	1.29	23.00	140.3	0.17
2022-03-14	2022-03-14	195.28	7.78	0.30	1.07	0.74	30.45	140.1	0.14
2022-03-21	2022-03-21	213.14	7.42	0.33	1.38	0.17	24.61	163.5	0.16
2022-03-28	2022-03-28	226.01	7.74	0.35	1.36	0.01	24.67	138.4	0.16
2022-04-04	2022-04-04	220.87	7.78	0.34	1.43	0.04	24.03	149.3	0.16
2022-04-25	2022-04-25	209.54	7.58	0.32	1.68	0.24	25.06	148.4	0.16
2022-05-02	2022-05-02	211.79	7.69	0.33	1.60	0.21	23.38	201.9	0.16
2022-05-09	2022-05-09	208.87	7.63	0.32	1.56	0.09	25.26	67.6	0.15
2022-05-16	2022-05-16	235.92	7.75	0.36	1.69	0.00	24.81	118.8	0.18
2022-05-23	2022-05-23	189.37	7.75	0.29	1.69	0.23	27.62	211.7	0.14
2022-05-30	2022-06-03	217.10	7.77	0.33	1.91	0.09	28.94	103.7	0.16
2022-06-06	2022-06-06	213.69	7.68	0.33	1.43	9.90	27.80	200.3	0.16
2022-06-13	2022-06-13	208.93	7.83	0.32	1.68	0.48	28.46	218.1	0.15
2022-06-20	2022-06-20	208.97	7.73	0.32	1.40	0.51	28.88	152.1	0.15
2022-06-27	2022-06-28	200.02	7.73	0.31	1.36	0.64	27.35	183.6	0.15
2022-07-04	2022-07-08	209.88	7.81	0.32	1.52	0.78	26.65	181.7	0.16
2022-07-11	2022-07-11	203.22	7.70	0.31	1.51	0.91	27.97	186.3	0.15
2022-08-01	2022-08-02	214.56	7.84	0.33	1.88	0.41	25.89	163.1	0.16
2022-08-08	2022-08-12	211.82	7.74	0.33	1.51	0.66	26.42	190.7	0.16
2022-08-15	2022-08-15	218.90	7.88	0.34	2.30	0.00	26.70	195.6	0.16
2022-08-22	2022-08-23	241.96	7.50	0.37	1.96	0.00	24.73	212.8	0.18
2022-08-29	2022-08-30	210.88	7.79	0.32	1.33	0.53	27.84	157.7	0.16
2022-09-06	2022-09-06	210.55	7.71	0.32	1.66	1.29	28.06	145.6	0.16
2022-09-12	2022-09-12	214.53	7.76	0.33	2.09	1.25	28.17	188.9	0.16
2022-09-19	2022-09-19	209.23	7.88	0.32	1.19	0.97	26.73	158.2	0.15
2022-09-26	2022-09-26	254.11	7.59	0.39	1.67	1.04	28.44	95.8	0.19
2022-10-03	2022-10-04	221.15	7.67	0.34	0.76	0.10	27.56	73.4	0.16
2022-10-17	2022-10-18	234.64	7.76	0.36	1.50	1.27	27.38	129.9	0.17
2022-10-17	2022-10-20	218.02	7.96	0.34	1.04	1.29	25.82	148.7	0.16
2022-10-24	2022-10-25	202.49	7.84	0.31	1.62	0.84	26.96	266.0	0.15
2022-10-24	2022-10-27	197.26	7.70	0.30	1.86	0.80	27.08	194.9	0.15
2022-10-31	2022-11-01	214.20	7.78	0.33	2.53	0.69	26.27	126.0	0.16
2022-10-31	2022-11-03	219.31	7.80	0.34	1.83	0.76	25.26	136.2	0.16
2022-11-07	2022-11-08	199.81	7.85	0.31	1.53	1.92	25.77	79.6	0.15
2022-11-07	2022-11-10	198.47	7.77	0.31	2.34	0.73	23.98	27.6	0.15
2022-11-14	2022-11-15	184.62	7.97	0.28	1.61	0.27	24.78	94.2	0.14
2022-11-14	2022-11-17	205.06	7.95	0.32	1.44	1.41	26.21	104.0	0.15
2022-11-19	2022-11-20	274.44	7.89	0.42	2.06	0.97	25.09	223.4	0.20
2022-11-19	2022-11-22	197.47	7.86	0.30	2.13	1.32	25.28	139.0	0.15
2022-11-28	2022-11-28	210.94	7.83	0.32	1.70	0.59	22.93	220.6	0.16
2022-12-19	2022-12-19	211.10	7.96	0.32	1.52	0.00	21.44	103.8	0.16
2022-12-26	2022-12-27	205.37	7.46	0.32	3.83	3.05	24.16	90.3	0.15
2023-01-02	2023-01-03	205.64	7.93	0.32	1.50	1.14	24.20	80.2	0.15
2023-01-09	2023-01-09	209.10	7.88	0.32	1.86	0.00	23.56	-37.4	0.15
2023-01-16	2023-01-16	207.76	7.76	0.32	1.37	1.05	25.21	-16.1	0.15
2023-01-23	2023-01-23	203.23	7.73	0.31	1.12	0.73	24.11	106.4	0.15

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW16								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-10-01	296.92	7.68	0.46	5.60	3.20	27.94	160.0	0.2
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	2021-12-22	285.85	8.05	0.44	8.14	1.80	21.47	53.2	0.2
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-29	283.18	7.84	0.44	8.48	3.91	21.56	66.8	0.2
2022-01-03	2022-01-05	283.54	8.03	0.44	8.24	2.45	20.68	57.0	0.2
2022-01-10	2022-01-12	285.52	8.02	0.44	7.87	0.32	24.27	430.2	0.2
2022-01-16	2022-01-17	284.20	7.95	0.44	7.78	0.10	19.79	59.1	0.2
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-01	283.73	7.84	0.44	8.27	2.36	24.31	360.9	0.2
2022-03-07	2022-03-08	297.88	7.55	0.46	6.13	0.00	24.76	166.8	0.22
2022-03-14	2022-03-15	302.17	7.35	0.47	6.17	0.49	25.14	190.0	0.23
2022-03-21	2022-03-22	279.34	7.80	0.43	6.50	0.62	24.45	153.6	0.21
2022-03-28	2022-03-31	291.59	7.63	0.45	7.86	1.43	25.53	178.6	0.22
2022-04-04	2022-04-04	291.98	7.76	0.46	4.61	7.70	24.47	185.4	0.22
2022-04-25	2022-04-26	279.31	7.69	0.43	5.42	0.23	24.16	206.7	0.21
2022-05-02	2022-05-03	286.02	7.70	0.44	3.37	0.00	24.47	214.4	0.21
2022-05-09	2022-05-10	280.09	7.75	0.43	5.04	0.06	24.30	175.5	0.21
2022-05-16	2022-05-17	268.45	7.74	0.41	5.55	0.00	24.72	193.4	0.20
2022-05-23	2022-05-24	279.75	8.01	0.43	6.54	0.04	24.51	119.4	0.21
2022-05-30	2022-06-01	290.55	7.93	0.45	4.96	1.19	24.56	106.7	0.22
2022-06-06	2022-06-07	278.66	7.86	0.43	5.46	0.00	24.56	149.1	0.21
2022-06-13	2022-06-14	278.72	7.80	0.43	5.51	0.00	24.46	206.5	0.21
2022-06-20	2022-06-21	300.17	8.66	0.46	6.06	0.00	24.32	204.7	0.22
2022-06-27	2022-06-29	277.92	7.83	0.43	6.75	0.00	24.41	198.1	0.21
2022-07-04	2022-07-08	279.54	7.87	0.43	5.63	0.00	24.36	192.0	0.21
2022-07-11	2022-07-11	279.27	7.87	0.43	6.08	0.14	24.45	197.0	0.21
2022-08-01	2022-08-02	288.77	7.83	0.44	6.11	0.31	24.46	200.1	0.22
2022-08-08	2022-08-09	277.36	7.84	0.43	5.60	0.28	24.98	211.5	0.21
2022-08-15	2022-08-16	284.23	7.80	0.44	5.85	0.00	25.07	227.1	0.21
2022-08-22	2022-08-25	272.28	7.77	0.42	6.42	0.00	24.96	207.4	0.20
2022-08-29	2022-09-01	271.44	7.85	0.42	6.91	0.00	25.47	231.0	0.20
2022-09-06	2022-09-07	277.16	7.89	0.43	6.78	0.21	24.78	235.6	0.21
2022-09-12	2022-09-13	276.47	7.88	0.43	6.65	0.35	25.03	215.3	0.21
2022-09-19	2022-09-22	295.60	7.65	0.45	7.40	0.28	25.67	260.4	0.22
2022-09-26	2022-09-27	271.68	7.85	0.42	7.54	0.31	24.78	149.2	0.20
2022-10-03	2022-10-04	290.58	7.82	0.45	6.63	0.00	24.56	159.4	0.22
2022-10-17	2022-10-18	268.70	7.76	0.41	6.87	0.29	25.48	198.6	0.20
2022-10-17	2022-10-20	308.01	7.74	0.47	6.69	0.59	25.82	199.3	0.23
2022-10-24	2022-10-24	292.17	7.96	0.45	6.97	1.50	23.89	197.9	0.22
2022-10-24	2022-10-27	321.43	7.84	0.49	6.78	0.11	25.05	180.1	0.24
2022-10-31	2022-11-01	254.78	7.88	0.39	6.53	0.05	24.92	268.6	0.19
2022-10-31	2022-11-03	273.56	7.95	0.42	7.12	0.12	24.40	236.5	0.20
2022-11-07	2022-11-07	276.90	7.80	0.43	7.11	0.19	25.16	152.1	0.21
2022-11-07	2022-11-10	293.38	7.95	0.45	7.01	0.49	23.96	61.0	0.22
2022-11-14	2022-11-15	267.02	7.88	0.41	6.77	0.23	24.53	156.8	0.20
2022-11-14	2022-11-17	264.43	7.79	0.41	6.94	0.28	25.09	172.6	0.20
2022-11-19	2022-11-19	259.43	7.89	0.40	7.48	0.00	24.66	220.9	0.19
2022-11-19	2022-11-22	315.35	7.90	0.49	7.36	0.00	24.25	109.4	0.24
2022-11-28	2022-11-29	325.06	7.82	0.50	7.16	0.37	24.78	137.1	0.24
2022-12-19	2022-12-20	262.53	7.93	0.40	8.48	0.13	24.31	180.6	0.20
2022-12-26	2022-12-28	272.51	8.06	0.42	8.41	0.25	24.11	108.1	0.20
2023-01-02	2023-01-04	252.35	7.89	0.39	8.29	0.18	24.46	176.2	0.19
2023-01-09	2023-01-10	263.64	4.94[J]	0.41	8.43	0.15	24.80	171.4	0.20
2023-01-16	2023-01-17	253.64	7.87	0.39	8.40	0.94	24.91	153.1	0.19
2023-01-23	2023-01-25	257.90	7.93	0.40	8.32	0.81	24.24	161.5	0.19

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW19								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-09-30	209.76	7.15	0.32	9.46	0.76	24.02	176.7	0.2
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-01-03	2022-01-07	182.51	7.84	0.28	9.75	0.50	22.90	58.9	0.1
2022-01-10	2022-01-12	181.29	7.63	0.28	9.07	4.01	20.06	103.0	0.1
2022-01-16	2022-01-19	187.89	9.15	0.29	8.73	0.19	22.57	122.9	0.1
2022-01-24	2022-01-25	205.49	9.05	0.32	9.18	0.39	22.31	136.8	0.2
2022-01-31	2022-02-02	199.05	8.53	0.21	8.69	0.51	25.73	101.5	0.1
2022-02-07	2022-02-09	191.78	8.04	0.30	8.68	3.43	22.66	233.2	0.1
2022-02-14	2022-02-17	178.97	7.61	0.27	8.33	0.44	22.35	130.7	0.1
2022-02-21	2022-02-24	199.88	7.65	0.31	10.71	0.00	13.78	179.3	0.1
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-04	184.90	7.22	0.27	11.51	13.68	27.10	236.5	0.14
2022-03-07	2022-03-09	184.33	7.58	0.28	9.42	0.00	24.00	155.5	0.14
2022-03-14	2022-03-14	188.78	7.44	0.29	9.74	0.07	23.81	234.0	0.14
2022-03-21	2022-03-21	180.93	7.80	0.28	9.44	0.11	24.39	215.3	0.13
2022-03-28	2022-03-28	178.33	7.42	0.27	8.91	0.30	23.39	155.3	0.13
2022-04-04	2022-04-08	179.34	7.07	0.28	8.95	0.62	22.35	220.3	0.13
2022-04-25	2022-04-28	186.23	7.84	0.29	8.13	0.43	24.01	208.5	0.14
2022-05-02	2022-05-02	183.00	8.01	0.28	8.68	0.75	22.21	92.8	0.14
2022-05-09	2022-05-09	180.88	7.45	0.28	8.58	1.87	24.51	220.7	0.13
2022-05-16	2022-05-18	177.87	7.53	0.27	10.16	1.80	23.97	231.4	0.13
2022-05-23	2022-05-25	178.78	7.65	0.28	8.84	0.74	25.13	113.6	0.13
2022-05-30	2022-06-01	193.40	7.20	0.30	8.47	1.43	25.95	149.1	0.14
2022-06-06	2022-06-06	195.23	7.29	0.30	8.28	22.40	25.36	67.8	0.14
2022-06-13	2022-06-13	181.23	7.72	0.28	8.13	0.34	32.01	188.6	0.13
2022-06-20	2022-06-20	171.07	7.02	0.26	8.55	3.22	23.40	83.6	0.13
2022-06-27	2022-06-28	178.51	7.24	0.27	8.70	0.10	22.88	193.8	0.13
2022-07-04	2022-07-05	187.99	7.43	0.29	8.60	3.30	24.00	67.0	0.14
2022-07-11	2022-07-11	175.64	6.96	0.27	8.63	2.66	23.40	193.5	0.13
2022-08-01	2022-08-01	187.71	7.58	0.29	8.87	0.00	24.44	175.7	0.14
2022-08-08	2022-08-08	180.94	7.67	0.28	8.41	0.18	23.89	230.8	0.13
2022-08-15	2022-08-15	173.68	7.98	0.27	8.49	3.76	25.18	139.9	0.13
2022-08-22	2022-08-22	186.48	7.86	0.29	8.29	0.84	25.57	155.8	0.14
2022-08-29	2022-08-29	181.26	7.44	0.28	8.61	0.28	25.15	142.5	0.13
2022-09-06	2022-09-07	178.95	7.80	0.28	8.35	1.98	24.16	158.1	0.13
2022-09-12	2022-09-12	181.42	7.64	0.28	8.49	0.37	23.42	157.7	0.13
2022-09-19	2022-09-19	182.23	7.99	0.28	8.60	0.69	23.21	133.3	0.13
2022-09-26	2022-09-26	176.11	7.35	0.27	8.44	0.13	23.24	61.2	0.13
2022-10-03	2022-10-03	247.65	7.37	0.38	9.79	1.97	27.06	109.5	0.18
2022-10-17	2022-10-17	193.87	7.61	0.30	7.23	0.47	24.28	-12.9	0.14
2022-10-17	2022-10-19	185.04	7.72	0.28	8.46	0.00	23.88	165.4	0.14
2022-10-24	2022-10-24	191.02	7.92	0.29	8.71	0.00	24.13	148.1	0.14
2022-10-24	2022-10-26	169.67	7.32	0.26	8.79	1.91	23.06	337.9	0.13
2022-10-31	2022-10-31	173.31	7.75	0.27	8.64	5.49	24.52	88.3	0.13
2022-10-31	2022-11-02	175.10	7.87	0.27	8.65	3.74	22.84	73.1	0.13
2022-11-07	2022-11-07	186.82	7.96	0.29	8.80	0.71	23.22	24.9	0.14
2022-11-07	2022-11-09	199.24	7.13	0.31	8.17	1.81	25.66	-14.2	0.15
2022-11-14	2022-11-14	174.76	7.49	0.27	8.38	0.58	25.08	47.7	0.13
2022-11-14	2022-11-16	181.90	7.47	0.28	8.87	0.84	23.36	109.4	0.13
2022-11-19	2022-11-19	176.13	7.61	0.27	8.39	0.00	23.66	76.0	0.13
2022-11-19	2022-11-21	186.61	7.45	0.29	8.57	0.33	23.33	256.0	0.14
2022-11-28	2022-11-28	183.40	7.59	0.28	9.00	0.00	22.68	63.9	0.14
2022-12-19	2022-12-23	185.82	7.52	0.29	8.49	2.92	24.80	101.9	0.14
2022-12-26	2022-12-27	181.42	7.36	0.28	8.19	0.45	25.46	19.6	0.13
2023-01-02	2023-01-03	190.26	7.28	0.29	8.32	0.67	24.56	67.4	0.14
2023-01-09	2023-01-09	214.60	7.56	0.33	8.30	0.43	25.00	122.0	0.16
2023-01-16	2023-01-16	186.84	4.79[J]	0.29	8.49	0.67	25.89	99.0	0.14
2023-01-23	2023-01-23	176.86	7.26	0.27	7.86	1.41	28.85	133.1	0.13

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	OWDFMW01								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	2021-10-01	2517.32	11.56	3.87	7.71	1.05	27.74	137.8	2.1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	2021-12-01	2987.69	8.18	4.60	5.39	2.71	25.76	261.6	2.5
2021-12-06	2021-12-08	3027.85	8.21	4.66	5.98	8.33	25.30	161.7	2.5
2021-12-13	2021-12-13	3012.87	8.26	4.63	5.86	3.08	24.68	166.7	2.5
2021-12-20	2021-12-21	2994.76	7.91	4.61	5.07	1.41	24.75	92.8	2.5
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-27	3012.78	8.06	4.64	6.59	5.95	25.00	81.4	2.5
2022-01-03	2022-01-04	2985.58	7.61	4.60	5.71	0.18	21.92	52.7	2.5
2022-01-10	2022-01-11	2941.57	8.11	4.53	5.58	1.27	24.45	156.9	2.4
2022-01-16	2022-01-17	2943.42	8.04	4.53	5.21	1.19	25.59	130.2	2.4
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-03	2893.50	8.10	4.45	5.86	2.86	27.23	140.9	2.40
2022-03-07	2022-03-10	2851.89	8.32	4.39	5.47	6.12	26.10	130.7	2.37
2022-03-14	2022-03-15	3109.50	8.12	4.78	6.00	9.59	27.15	80.6	2.60
2022-03-21	2022-03-23	3009.80	7.90	4.63	5.62	0.91	26.31	181.6	2.51
2022-03-28	2022-03-30	2920.50	7.95	4.49	6.27	3.26	26.13	152.0	2.43
2022-04-04	4/6/2022*	0.03	6.23	0.00	8.24	0.65	26.44	257.5	0.00
2022-04-25	2022-04-27	2903.00	8.07	4.47	6.10	0.86	26.40	183.2	2.41
2022-05-02	2022-05-04	2984.27	7.88	4.59	5.92	0.18	26.30	181.5	2.48
2022-05-09	2022-05-11	2909.82	7.89	4.48	6.29	1.43	26.46	147.9	2.42
2022-05-16	2022-05-20	2998.20	7.72	4.61	5.95	12.48	26.14	171.6	2.50
2022-05-23	2022-05-25	3055.94	7.86	4.70	7.48	1.69	26.90	123.8	2.55
2022-05-30	2022-05-31	2882.62	7.78	4.43	5.96	1.82	27.07	104.1	2.39
2022-06-06	2022-06-09	2796.64	8.03	4.30	6.72	0.25	28.86	120.9	2.32
2022-06-13	2022-06-15	2936.83	7.71	4.52	5.44	0.00	26.92	173.8	2.44
2022-06-20	2022-06-24	2879.99	7.75	4.43	6.53	2.54	26.32	213.5	2.39
2022-06-27	2022-06-28	3116.57	7.61	4.79	5.97	0.00	26.94	247.9	2.60
2022-07-04	2022-07-06	2873.54	7.82	4.42	5.47	1.07	26.21	161.0	2.39
2022-07-11	2022-07-12	2851.21	7.75	4.39	5.65	3.13	27.11	172.7	2.37
2022-08-01	2022-08-03	2767.98	8.02	4.26	5.64	1.06	26.71	168.6	2.29
2022-08-08	2022-08-10	2999.40	7.67	4.61	6.06	1.65	26.63	195.2	2.50
2022-08-15	2022-08-17	2931.64	7.72	4.51	5.48	5.37	28.65	186.9	2.44
2022-08-22	2022-08-24	2747.79	7.82	4.23	6.63	4.14	27.30	194.2	2.28
2022-08-29	2022-08-31	2856.53	7.59	4.39	6.09	7.31	27.37	196.0	2.37
2022-09-06	2022-09-09	2911.11	7.62	4.48	6.68	3.94	27.02	210.6	2.42
2022-09-12	2022-09-14	2907.72	7.57	4.47	6.04	1.27	27.51	146.2	2.42
2022-09-19	2022-09-21	2978.48	7.73	4.58	5.13	2.23	27.56	77.4	2.48
2022-09-26	2022-09-28	2844.98	7.60	4.38	6.00	0.80	27.60	130.0	2.36
2022-10-03	2022-10-05	3010.62	7.45	4.63	5.22	1.30	26.83	165.1	2.51
2022-10-17	2022-10-19	3115.95	7.47	4.79	5.79	0.37	26.30	169.6	2.60
2022-10-17	2022-10-21	2835.12	7.80	4.36	5.73	24.70	26.27	171.1	2.35
2022-10-24	2022-10-25	2852.75	7.70	4.39	5.40	3.68	27.54	270.5	2.37
2022-10-24	2022-10-28	2899.79	7.84	4.46	5.57	0.35	26.31	147.5	2.41
2022-10-31	2022-11-02	3050.24	7.76	4.69	5.44	0.64	26.25	165.0	2.54
2022-10-31	2022-11-04	2711.41	8.03	4.17	5.51	7.40	26.81	112.9	2.24
2022-11-07	2022-11-09	2932.00	7.73	4.51	5.52	0.62	26.53	52.1	2.44
2022-11-07	2022-11-11	2683.91	7.89	4.13	5.39	1.69	26.61	19.4	2.22
2022-11-14	2022-11-16	3159.18	7.54	4.86	5.56	0.63	26.49	159.1	2.64
2022-11-14	2022-11-18	3148.34	7.73	4.84	5.01	0.00	26.56	38.3	2.63
2022-11-19	2022-11-20	3346.15	7.62	5.15	5.44	0.00	26.41	302.7	2.81
2022-11-19	2022-11-23	2666.43	7.61	4.10	5.09	0.18	27.26	123.5	2.20
2022-11-28	2022-11-30	2989.70	7.54	4.60	4.18	5.12	26.03	178.8	2.49
2022-12-19	2022-12-21	3125.71	7.59	4.81	4.46	5.86	26.06	160.3	2.61
2022-12-26	2022-12-30	3086.56	7.67	4.75	4.06	6.21	25.28	120.1	2.58
2023-01-02	2023-01-06	2831.91	7.65	4.36	4.05	6.02	25.47	147.3	2.35
2023-01-09	2023-01-12	2993.46	4.70[j]	4.61	3.89	1.19	24.52	121.9	2.49
2023-01-16	2023-01-19	2821.38	7.59	4.34	4.67	2.84	24.83	271.3	2.34
2023-01-23	2023-01-26	3109.30	7.63	4.78	4.29	0.77	25.10	9.1	2.60

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	RHMW2254-01								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	2021-10-06	415.09	7.52	0.64	8.14	0.00	21.33	71.4	0.3
2021-10-11	2021-10-13	417.78	7.61	0.64	8.64	0.03	21.85	164.7	0.3
2021-10-18	2021-10-20	429.27	7.46	0.66	8.63	0.07	21.25	102.8	0.3
2021-10-25	2021-10-26	425.03	7.55	0.65	8.63	0.05	21.13	96.3	0.3
2021-11-01	2021-11-03	413.91	7.82	0.64	8.07	0.18	21.87	184.8	0.3
2021-11-08	2021-11-10	422.24	6.98	0.65	8.66	0.01	21.74	163.1	0.3
2021-11-15	2021-11-17	415.59	7.80	0.64	8.71	0.00	21.46	373.5	0.3
2021-11-22	2021-11-24	416.77	7.73	0.64	8.21	0.00	20.97	67.2	0.3
2021-11-29	2021-12-01	402.73	7.27	0.62	8.40	0.00	21.90	209.7	0.3
2021-12-06	2021-12-08	391.73	7.69	0.60	7.31	NM	23.39	116.3	0.3
2021-12-13	2021-12-15	362.34	7.34	0.56	3.52	0.38	20.96	56.2	0.3
2021-12-20	2021-12-20	388.64	7.49	0.60	1.97	1.80	23.77	197.7	0.3
2021-12-20	2021-12-21	348.68	7.16	0.52	2.39	0.13	21.72	138.1	0.3
2021-12-27	2021-12-27	349.39	7.25	0.54	1.53	0.22	21.83	51.3	0.3
2022-01-03	2021-01-03	302.76	7.28	0.46	1.58	0.00	22.43	262.2	0.2
2022-01-10	2022-01-10	348.29	7.19	0.53	1.02	NM	18.81	47.6	0.3
2022-01-16	2022-01-20	339.90	7.38	0.52	1.63	0.14	22.35	125.4	0.3
2022-01-24	2022-01-24	300.40	6.78	0.46	4.31	0.31	22.17	109.1	0.2
2022-01-31	2022-02-03	345.67	7.53	0.53	9.48	NM	15.16	69.7	0.3
2022-02-07	2022-02-10	359.30	7.70	0.55	8.45	0.00	21.81	120.0	0.3
2022-02-14	2022-02-17	368.33	7.55	0.57	8.51	0.24	22.09	331.1	0.3
2022-02-21	2022-02-22	372.40	7.65	0.57	8.23	0.00	22.08	366.5	0.3
2022-02-21	2022-02-26	361.16	8.04	0.56	8.50	0.09	22.02	322.6	0.3
2022-02-28	2022-03-03	359.33	7.43	0.55	8.49	0.02	22.17	145.6	0.27
2022-03-07	2022-03-09	371.30	7.14	0.57	8.46	0.00	22.07	171.6	0.28
2022-03-14	2022-03-17	428.91	7.26	0.66	8.54	0.29	22.21	223.2	0.32
2022-03-21	2022-03-24	370.01	7.37	0.57	8.52	8.72	22.07	275.5	0.28
2022-03-28	2022-03-29	362.91	7.44	0.56	8.52	0.67	22.07	230.2	0.27
2022-04-04	2022-04-07	371.21	7.40	0.57	8.58	0.62	22.06	220.5	0.28
2022-04-25	2022-04-28	366.64	7.32	0.56	8.59	0.82	21.88	21.7	0.28
2022-05-02	2022-05-05	383.42	7.38	0.59	9.38	0.65	21.95	85.0	0.29
2022-05-09	2022-05-12	372.95	7.38	0.57	8.60	0.00	21.94	149.4	0.28
2022-05-16	2022-05-19	361.70	7.30	0.56	8.66	0.00	21.96	58.8	0.27
2022-05-23	2022-05-26	366.17	7.30	0.56	8.70	0.15	21.97	55.0	0.28
2022-05-30	2022-06-02	379.43	7.41	0.58	8.60	0.11	21.95	51.6	0.29
2022-06-06	2022-06-09	369.57	7.34	0.57	8.68	0.00	21.90	210.7	0.28
2022-06-13	2022-06-16	346.23	7.14	0.53	8.69	1.00	21.87	185.2	0.26
2022-06-20	2022-06-23	369.73	7.11	0.57	8.86	0.36	21.93	84.8	0.28
2022-06-27	2022-07-01	371.79	7.13	0.57	8.73	3.61	22.13	80.7	0.28
2022-07-04	2022-07-07	373.12	7.08	0.57	8.66	1.41	22.15	87.4	0.28
2022-07-11	2022-07-13	369.97	6.87	0.57	9.43	0.73	21.97	208.0	0.28
2022-08-01	2022-08-04	378.67	7.67	0.58	8.65	0.00	21.81	219.8	0.29
2022-08-08	2022-08-11	365.09	7.41	0.56	8.74	0.00	22.03	284.1	0.27
2022-08-15	2022-08-18	363.62	7.48	0.56	8.74	4.89	22.14	280.8	0.27
2022-08-22	2022-08-25	380.58	7.61	0.59	8.64	0.00	21.89	197.2	0.29
2022-08-29	2022-09-01	388.72	7.71	0.60	8.62	0.00	21.93	71.3	0.29
2022-09-06	2022-09-08	379.74	7.77	0.58	8.64	0.00	21.82	173.2	0.29
2022-09-12	2022-09-15	397.41	7.72	0.61	8.61	0.00	22.18	162.6	0.30
2022-09-19	2022-09-22	391.18	7.54	0.60	8.66	0.14	22.16	83.5	0.29
2022-09-26	2022-09-29	382.31	7.73	0.59	8.67	0.23	22.25	106.8	0.29
2022-10-03	2022-10-06	448.65	7.26	0.69	8.60	0.07	22.03	138.7	0.34
2022-10-17	2022-10-18	401.24	7.80	0.62	8.63	0.00	21.73	181.0	0.30
2022-10-17	2022-10-20	397.77	7.84	0.61	8.67	0.00	21.92	181.9	0.30
2022-10-24	2022-10-25	438.23	7.51	0.67	8.73	0.13	22.06	174.9	0.33
2022-10-24	2022-10-27	430.55	7.61	0.66	8.77	0.22	22.44	210.3	0.33
2022-10-31	2022-11-01	460.85	7.50	0.71	8.68	0.00	21.99	211.4	0.35
2022-10-31	2022-11-03	355.42	7.52	0.55	8.32	0.07	24.20	140.1	0.27
2022-11-07	2022-11-08	380.68	7.57	0.59	8.74	0.00	22.14	84.0	0.29
2022-11-07	2022-11-10	430.36	7.77	0.66	8.68	0.02	21.95	95.2	0.33
2022-11-14	2022-11-15	388.93	7.50	0.60	8.27	0.00	23.85	123.8	0.29
2022-11-14	2022-11-17	390.37	7.51	0.60	8.24	0.38	24.02	107.5	0.29
2022-11-19	2022-11-20	376.81	7.76	0.58	8.65	0.41	22.05	29.4	0.28
2022-11-19	2022-11-22	362.82	7.53	0.56	8.29	0.39	23.88	127.8	0.27
2022-11-28	2022-12-01	374.75	7.32	0.58	8.58	0.31	24.21	50.9	0.28
2022-12-19	2022-12-21	448.42	7.49	0.69	8.54	0.37	21.88	158.9	0.34
2022-12-26	2022-12-29	448.36	7.49	0.69	8.41	0.27	21.95	155.1	0.34
2023-01-02	2023-01-05	452.73	6.71	0.70	8.53	0.05	21.81	142.2	0.34
2023-01-09	2023-01-11	410.76	7.61	0.63	8.57	0.00	21.69	138.1	0.31
2023-01-16	2023-01-18	409.25	7.63	0.63	8.62	0.00	22.13	247.1	0.31
2023-01-23	2023-01-26	383.47	7.48	0.59	8.60	0.01	21.88	71.6	0.29

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

	OWDFMW04A								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-30	584.21	8.77	0.90	3.87	0.50	21.34	48.5	0.4
2022-01-03	2022-01-06	588.13	8.86	0.91	1.01	0.01	24.51	139.9	0.5
2022-01-10	2022-01-13	572.58	8.73	0.88	1.48	0.34	24.22	186.7	0.4
2022-01-16	2022-01-16	597.95	8.59	0.92	1.67	0.07	24.31	204.6	0.5
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	611.77	7.88	0.93	4.52	2.20	25.88	185.7	0.47
2022-03-07	2022-03-09	669.87	7.78	1.03	3.06	0.00	24.58	198.7	0.52
2022-03-14	2022-03-16	638.54	7.71	0.98	2.68	0.00	24.82	166.5	0.49
2022-03-21	2022-03-21	588.64	7.88	0.91	2.66	0.00	24.69	145.7	0.45
2022-03-28	2022-03-28	591.11	7.76	0.91	2.36	0.00	24.42	141.3	0.45
2022-04-04	2022-04-05	633.09	7.76	0.97	2.54	0.32	25.03	186.7	0.49
2022-04-25	2022-04-25	599.73	7.88	0.92	3.44	0.28	25.43	193.4	0.46
2022-05-02	2022-05-02	603.22	7.77	0.93	2.97	0.00	24.37	189.4	0.46
2022-05-09	2022-05-09	598.68	7.44	0.92	3.00	0.00	25.43	150.3	0.46
2022-05-16	2022-05-18	606.39	7.74	0.93	3.16	0.00	25.21	163.2	0.46
2022-05-23	2022-05-23	614.83	7.51	0.95	3.09	0.00	25.27	38.8	0.47
2022-05-30	2022-06-03	612.77	7.84	0.94	3.16	0.08	25.45	116.8	0.47
2022-06-06	2022-06-06	606.47	7.77	0.93	3.12	0.19	26.28	103.6	0.46
2022-06-13	2022-06-13	606.38	7.81	0.93	3.30	0.25	25.93	123.5	0.46
2022-06-20	2022-06-22	614.52	7.72	0.95	3.21	0.05	25.53	150.0	0.47
2022-06-27	2022-06-30	610.83	7.70	0.94	3.09	0.04	24.86	184.7	0.47
2022-07-04	2022-07-05	607.67	7.81	0.93	3.18	0.10	25.06	185.6	0.47
2022-07-11	2022-07-15	601.54	7.71	0.93	3.37	0.37	25.11	156.2	0.46
2022-08-01	2022-08-01	630.14	7.68	0.97	3.46	0.00	25.10	179.1	0.48
2022-08-08	2022-08-08	634.00	7.72	0.98	3.82	0.28	26.71	201.7	0.49
2022-08-15	2022-08-15	623.95	7.42	0.96	3.38	0.00	25.44	223.5	0.48
2022-08-22	2022-08-22	603.36	7.67	0.93	3.49	0.00	25.84	171.1	0.46
2022-08-29	2022-08-29	547.36	7.64	0.84	3.20	0.25	25.52	140.9	0.42
2022-09-06	2022-09-06	619.48	7.60	0.95	3.37	1.37	26.63	188.0	0.47
2022-09-12	2022-09-12	624.61	7.64	0.96	3.08	0.90	25.46	161.2	0.48
2022-09-19	2022-09-21	636.78	7.55	0.98	3.19	1.26	25.62	63.3	0.49
2022-09-26	2022-09-26	630.59	7.51	0.97	2.91	0.57	26.09	80.2	0.48
2022-10-03	2022-10-03	625.11	7.65	0.96	2.88	0.50	25.06	100.8	0.48
2022-10-17	2022-10-17	722.06	7.64	1.11	3.21	1.36	27.01	106.2	0.56
2022-10-17	2022-10-21	664.86	7.71	1.02	3.15	0.92	25.15	141.7	0.51
2022-10-24	2022-10-26	702.99	7.90	1.08	3.04	0.01	25.48	137.0	0.54
2022-10-24	2022-10-28	672.94	7.67	1.04	2.89	0.34	25.41	153.0	0.52
2022-10-31	2022-10-31	791.77	7.59	1.22	2.81	0.70	24.70	157.3	0.61
2022-10-31	2022-11-04	783.84	7.40	1.21	2.79	0.21	25.08	107.0	0.61
2022-11-07	2022-11-08	786.04	7.32	1.21	2.64	0.00	24.96	43.6	0.61
2022-11-07	2022-11-11	660.28	7.69	1.02	2.68	0.70	24.55	95.3	0.51
2022-11-14	2022-11-14	820.39	7.85	1.26	2.82	0.00	24.58	25.6	0.64
2022-11-14	2022-11-18	611.88	7.72	0.94	2.80	0.00	24.59	135.8	0.47
2022-11-19	2022-11-21	749.06	7.71	1.15	2.85	0.00	24.78	20.2	0.58
2022-11-19	2022-11-23	650.90	7.74	1.00	3.11	0.00	24.75	338.5	0.50
2022-11-28	2022-12-01	615.54	7.72	0.95	2.86	0.13	24.30	133.5	0.47
2022-12-19	2022-12-19	538.89	7.97	0.83	2.72	0.00	23.63	160.8	0.41
2022-12-26	2022-12-29	698.25	7.46	1.07	1.63	0.35	24.57	103.7	0.54
2023-01-02	2023-01-05	645.94	7.53	0.99	1.62	0.78	24.27	96.0	0.50
2023-01-09	2023-01-11	712.41	7.51	1.10	2.44	0.00	24.77	53.0	0.55
2023-01-16	2023-01-18	643.06	7.63	0.99	7.38	2.88	24.80	121.2	0.49
2023-01-23	2023-01-24	744.78	7.66	1.15	6.42	0.00	24.21	35.5	0.58

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Stablized Groundwater Parameters

	OWDFMW05A								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-31	477.00	7.97	0.73	0.62	0.58	22.18	43.5	0.4
2022-01-03	2022-01-06	485.69	7.61	0.75	0.59	0.47	24.70	81.1	0.4
2022-01-10	2022-01-13	476.15	7.93	0.73	0.43	0.31	20.66	31.0	0.4
2022-01-16	2022-01-16	469.00	7.90	0.72	0.68	0.31	21.17	56.8	0.4
2022-01-24	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-01-31	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-07	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-14	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL	NC-WL
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-03-02	496.34	7.75	0.76	1.26	39.08	25.26	174.8	0.38
2022-03-07	2022-03-07	486.53	7.85	0.75	0.51	1.12	26.42	-18.7	0.37
2022-03-14	2022-03-17	560.47	7.65	0.86	0.71	164.63	26.16	124.6	0.43
2022-03-21	2022-03-22	473.91	7.57	0.73	0.25	0.05	25.05	-26.3	0.36
2022-03-28	2022-03-28	473.20	7.64	0.73	0.33	0.00	25.22	-18.9	0.36
2022-04-04	2022-04-05	504.40	7.56	0.78	1.18	13.59	25.16	181.1	0.38
2022-04-25	2022-04-25	483.45	7.70	0.74	0.70	1.76	26.28	146.5	0.37
2022-05-02	2022-05-02	487.60	7.65	0.75	0.28	0.00	24.87	71.8	0.37
2022-05-09	2022-05-09	473.06	7.61	0.73	0.65	0.00	26.99	110.3	0.36
2022-05-16	2022-05-18	482.46	7.63	0.74	0.65	0.17	25.81	115.7	0.37
2022-05-23	2022-05-23	456.17	7.58	0.70	0.39	218.53	25.72	59.6	0.35
2022-05-30	2022-06-03	482.67	7.73	0.74	0.51	0.10	25.90	87.5	0.37
2022-06-06	2022-06-06	485.33	7.75	0.75	0.37	0.16	26.18	72.3	0.37
2022-06-13	2022-06-13	483.23	7.72	0.74	0.46	0.18	25.90	100.6	0.37
2022-06-20	2022-06-20	520.08	8.58	0.80	0.38	119.81	26.36	-11.3	0.40
2022-06-27	2022-06-30	490.46	7.68	0.75	0.45	9.76	26.39	118.9	0.37
2022-07-04	2022-07-08	489.52	7.73	0.75	0.39	7.92	25.28	66.4	0.37
2022-07-11	2022-07-15	475.95	7.73	0.73	0.53	1.12	26.44	72.8	0.36
2022-08-01	8/1/2022*	0.03	6.03	0.00	8.12	0.00	26.11	198.7	0.00
2022-08-08	2022-08-08	508.70	7.74	0.78	0.42	0.66	26.05	149.2	0.39
2022-08-15	2022-08-15	508.15	7.74	0.78	0.42	0.00	26.23	142.2	0.39
2022-08-22	2022-08-22	477.85	7.73	0.74	0.47	0.00	26.03	116.8	0.36
2022-08-29	2022-08-29	414.44	7.75	0.64	0.27	3.90	25.80	44.8	0.31
2022-09-06	2022-09-06	492.64	7.68	0.76	0.34	0.46	26.05	46.4	0.37
2022-09-12	2022-09-12	496.09	7.70	0.76	0.41	1.02	25.86	53.8	0.38
2022-09-19	2022-09-19	493.87	7.65	0.76	0.59	3.53	26.91	-8.6	0.38
2022-09-26	2022-09-26	506.29	7.70	0.78	0.32	0.40	25.81	-23.4	0.39
2022-10-03	2022-10-03	496.86	7.64	0.76	0.36	0.31	25.80	12.6	0.38
2022-10-17	2022-10-17	551.90	7.77	0.85	0.67	59.53	26.46	90.4	0.42
2022-10-17	2022-10-21	527.51	8.14	0.81	0.41	9.86	25.54	96.8	0.40
2022-10-24	2022-10-26	548.98	7.81	0.84	0.53	0.00	25.65	72.6	0.42
2022-10-24	2022-10-28	533.45	7.93	0.82	0.38	0.49	25.62	88.5	0.41
2022-10-31	2022-10-31	626.99	7.74	0.96	0.40	0.04	25.51	81.6	0.48
2022-10-31	2022-11-04	619.24	7.76	0.95	0.44	0.00	25.73	41.6	0.47
2022-11-07	2022-11-08	597.85	7.65	0.92	0.44	0.00	25.92	-40.7	0.46
2022-11-07	2022-11-11	520.96	7.65	0.80	0.60	0.51	26.12	57.6	0.40
2022-11-14	2022-11-14	644.64	7.77	0.99	0.38	0.00	25.11	-52.8	0.50
2022-11-14	2022-11-18	478.10	7.64	0.74	0.72	0.00	26.08	86.4	0.36
2022-11-19	2022-11-21	592.90	7.73	0.91	0.50	0.00	25.81	-60.2	0.45
2022-11-19	2022-11-23	513.92	7.67	0.79	0.71	0.00	25.56	275.4	0.39
2022-11-28	2022-12-01	483.18	7.73	0.74	0.21	0.00	24.69	41.8	0.37
2022-12-19	2022-12-19	603.48	7.72	0.93	0.73	0.22	25.18	26.5	0.46
2022-12-26	2022-12-29	527.13	7.64	0.81	0.57	0.30	25.00	65.4	0.40
2023-01-02	2023-01-05	492.73	7.70	0.76	0.44	0.26	25.05	46.6	0.37
2023-01-09	2023-01-11	545.51	7.66	0.84	0.48	0.00	25.21	4.6	0.42
2023-01-16	2023-01-18	495.02	7.71	0.76	0.52	0.82	25.57	23.2	0.38
2023-01-23	2023-01-24	582.13	7.76	0.90	0.39	0.00	25.01	56.7	0.45

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

		OWDFMW07A							
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-31	277.09	7.15	8.43	3.82	6.51	21.46	58.6	0.2
2022-01-03	2022-01-06	274.56	6.84	0.42	3.93	8.05	25.59	254.8	0.2
2022-01-10	2022-01-13	270.54	7.00	0.42	4.24	8.58	20.59	68.8	0.2
2022-01-16	2022-01-20	265.08	6.82	0.41	3.79	4.63	24.49	543.4	0.2
2022-01-24	2022-01-24	261.67	6.84	0.40	4.21	2.96	20.32	67.2	0.2
2022-01-31	2022-02-02	260.33	6.82	0.40	4.58	NM	18.21	61.7	0.7
2022-02-07	2022-02-09	259.49	6.92	0.40	4.65	2.42	17.93	56.7	0.2
2022-02-14	2022-02-17	260.36	6.94	0.40	5.17	2.18	16.93	62.2	0.2
2022-02-21	2022-02-23	264.58	6.84	0.41	4.46	1.20	15.98	70.7	0.2
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-02-28	267.03	6.82	0.41	4.01	1.02	25.23	205.8	0.2
2022-03-07	2022-03-09	278.01	6.55	0.43	3.74	2.01	24.33	205.7	0.21
2022-03-14	2022-03-16	261.68	6.55	0.40	3.85	374.39	25.28	167.5	0.19
2022-03-21	2022-03-23	254.18	6.69	0.39	4.29	241.20	25.23	218.3	0.19
2022-03-28	2022-03-31	251.54	6.81	0.39	4.33	5.25	25.52	200.9	0.19
2022-04-04	2022-04-07	255.23	6.78	0.39	4.23	850.11	25.14	213.7	0.19
2022-04-25	2022-04-27	315.44	8.59	0.49	2.82	2.32	25.16	174.5	0.24
2022-05-02	2022-05-05	306.27	9.25	0.47	2.93	2.55	26.31	190.4	0.23
2022-05-09	2022-05-12	257.05	6.11	0.40	4.45	1.15	26.37	247.7	0.19
2022-05-16	2022-05-19	255.53	6.31	0.39	4.60	0.29	26.14	261.9	0.19
2022-05-23	2022-05-26	242.19	6.75	0.37	4.84	2.99	25.91	96.4	0.18
2022-05-30	2022-06-02	247.44	6.71	0.38	4.50	0.55	25.37	186.6	0.18
2022-06-06	2022-06-08	248.86	6.64	0.38	4.35	0.92	25.78	184.9	0.19
2022-06-13	2022-06-16	247.86	6.63	0.38	4.78	0.95	25.71	235.3	0.18
2022-06-20	2022-06-21	338.16	6.26	0.52	4.38	2.91	25.60	195.2	0.25
2022-06-27	2022-07-01	256.01	6.55	0.39	4.49	11.93	25.65	292.0	0.19
2022-07-04	2022-07-07	267.29	6.59	0.41	4.74	3.33	25.84	237.9	0.20
2022-07-11	2022-07-13	252.66	6.59	0.39	4.70	6.98	25.88	247.2	0.19
2022-08-01	2022-08-04	258.67	6.57	0.40	4.71	2.83	25.68	234.7	0.19
2022-08-08	2022-08-11	254.91	6.47	0.39	4.91	5.68	26.03	256.0	0.19
2022-08-15	2022-08-18	257.17[h]	6.68	0.40[h]	3.17	1.91	25.75	275.2	0.19[h]
2022-08-22	2022-08-23	247.52	6.61	0.38	5.17	4.17	26.02	283.0	0.18
2022-08-29	2022-08-30	251.33	6.61	0.39	3.86	1.51	25.96	253.9	0.19
2022-09-06	2022-09-08	270.08	6.59	0.42	4.55	1.42	25.56	261.2	0.20
2022-09-12	2022-09-15	258.30	6.57	0.40	4.61	4.77	26.23	171.6	0.19
2022-09-19	2022-09-20	260.96	6.54	0.40	3.84	3.57	25.33	151.7	0.19
2022-09-26	2022-09-29	272.69	6.50	0.42	4.25	26.96	25.26	218.5	0.20
2022-10-03	2022-10-06	264.16	6.51	0.41	4.60	11.94	25.82	226.8	0.20
2022-10-17	2022-10-17	254.82	6.50	0.39	4.21	4.10	25.27	227.0	0.19
2022-10-17	2022-10-21	268.71	6.53	0.41	4.52	4.09	25.37	247.2	0.20
2022-10-24	2022-10-24	264.84	6.59	0.41	4.18	2.86	25.12	331.4	0.20
2022-10-24	2022-10-28	237.69	6.68	0.37	4.43	4.34	25.17	287.3	0.18
2022-10-31	2022-10-31	244.82	6.67	0.38	3.90	6.78	26.29	257.3	0.18
2022-10-31	2022-11-04	239.72	6.70	0.37	4.00	5.88	25.72	272.2	0.18
2022-11-07	2022-11-08	252.63	6.62	0.39	4.16	7.38	25.21	216.8	0.19
2022-11-07	2022-11-11	282.69	6.68	0.43	4.61	6.52	25.21	153.0	0.21
2022-11-14	2022-11-14	477.92	6.59	0.74	5.07	5.54	25.30	218.6	0.36
2022-11-14	2022-11-18	258.88	6.68	0.40	3.41	22.70	27.04	123.8	0.19
2022-11-19	2022-11-20	255.31	6.61	0.39	3.97	5.53	28.66	431.0	0.19
2022-11-19	2022-11-23	280.87	6.69	0.43	4.51	7.68	24.77	153.7	0.21
2022-11-28	2022-11-28	242.05	6.75	0.37	4.76	3.63	24.98	244.0	0.18
2022-12-19	2022-12-22	247.47	6.50	0.38	4.76	8.06	25.01	234.0	0.18
2022-12-26	2022-12-27	249.58	6.59	0.38	4.76	10.53	25.15	221.2	0.19
2023-01-02	2023-01-03	249.35	6.51	0.38	4.57	6.40	24.76	225.5	0.19
2023-01-09	2023-01-09	266.38	6.57	0.41	4.60	7.43	24.82	209.0	0.20
2023-01-16	2023-01-16	248.47	6.54	0.38	4.82	4.44	24.67	162.1	0.18
2023-01-23	2023-01-23	248.83	6.60	0.38	4.18	5.89	25.04	234.3	0.19

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

		OWDFMW08A							
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2021-05-10	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-17	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-24	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-05-31	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-07	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-14	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-06-28	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-05	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-12	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-19	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-07-26	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-02	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-09	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-16	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-23	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-08-30	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-09-27	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-04	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-11	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-18	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-10-25	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-01	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-08	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-15	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-22	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-11-29	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-06	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-13	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-20	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2021-12-27	2021-12-30	683.79	7.67	1.05	2.12	NM	23.82	69.1	0.5
2022-01-03	2022-01-06	684.05	7.60	1.06	2.52	0.01	24.62	99.2	0.5
2022-01-10	2022-01-13	661.18	7.69	1.02	3.49	4.94	24.97	220.1	0.5
2022-01-16	2022-01-16	688.91	7.66	1.06	3.13	5.83	25.61	302.9	0.5
2022-01-24	2022-01-24	676.08	7.64	1.04	3.89	3.24	19.95	66.2	0.5
2022-01-31	2022-02-02	670.56	7.28	1.03	5.52	2.04	20.00	66.6	0.5
2022-02-07	2022-02-09	667.39	7.28	1.03	5.96	1.16	18.80	63.5	0.5
2022-02-14	2022-02-16	675.95	7.32	1.04	5.25	NR	16.95	67.3	0.5
2022-02-21	2022-02-23	677.77	7.21	1.05	5.89	2.76	16.50	68.9	0.5
2022-02-21	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
2022-02-28	2022-02-28	669.79	7.25	1.03	4.75	0.55	24.89	127.0	0.5
2022-03-07	2022-03-07	682.23	7.15	1.05	5.17	1.80	26.45	140.4	0.53
2022-03-14	2022-03-17	794.63	6.93	1.22	5.23	14.16	25.58	165.4	0.62
2022-03-21	2022-03-24	670.55	7.08	1.03	6.64	2.65	24.94	158.2	0.52
2022-03-28	2022-03-31	655.78	7.05	1.01	5.34	0.91	25.77	169.9	0.50
2022-04-04	2022-04-07	663.84	7.13	1.02	5.56	0.00	26.19	192.0	0.51
2022-04-25	2022-04-27	676.73	7.01	1.04	5.08	2.58	25.11	125.7	0.52
2022-05-02	2022-05-05	658.99	7.04	1.01	4.82	20.44	25.83	128.2	0.51
2022-05-09	2022-05-12	669.93	6.91	1.03	5.49	0.72	27.10	199.9	0.52
2022-05-16	2022-05-19	665.66	6.99	1.02	5.01	1.64	25.63	208.7	0.51
2022-05-23	2022-05-26	635.19	7.13	0.98	4.82	8.70	25.58	77.5	0.49
2022-05-30	2022-06-02	668.19	7.05	1.03	5.71	1.61	27.16	155.1	0.51
2022-06-06	2022-06-08	672.35	6.97	1.03	5.60	1.11	27.96	169.3	0.52
2022-06-13	2022-06-16	667.76	6.97	1.03	5.48	0.46	26.44	193.3	0.51
2022-06-20	2022-06-23	674.76	6.94	1.04	5.51	0.34	25.91	202.4	0.52
2022-06-27	2022-07-01	689.24	6.78	1.06	5.57	1.59	26.27	248.5	0.53
2022-07-04	2022-07-07	718.16	6.94	1.10	5.61	2.01	26.76	214.4	0.55
2022-07-11	2022-07-13	671.73	6.91	1.03	5.44	0.00	26.76	229.6	0.52
2022-08-01	2022-08-04	688.54	6.97	1.06	5.06	0.00	25.80	134.9	0.53
2022-08-08	2022-08-11	681.68	6.95	1.05	5.16	0.16	27.18	165.7	0.52
2022-08-15	2022-08-19	680.45	7.02	1.05	5.23	0.00	25.73	233.4	0.52
2022-08-22	2022-08-23	656.84	7.00	1.01	5.66	0.02	25.81	207.3	0.50
2022-08-29	2022-08-31	661.60	6.80	1.02	5.66	0.07	26.38	218.2	0.51
2022-09-06	2022-09-08	723.22	6.92	1.11	5.41	0.42	26.91	245.4	0.56
2022-09-12	2022-09-15	688.24	6.90	1.06	5.49	1.76	27.73	145.6	0.53
2022-09-19	2022-09-22	702.73	6.72	1.08	5.42	0.44	26.47	147.3	0.54
2022-09-26	2022-09-29	728.39	6.67	1.12	5.46	0.37	26.14	197.5	0.56
2022-10-03	2022-10-06	701.00	6.82	1.08	5.34	0.37	25.82	214.0	0.54
2022-10-17	2022-10-17	680.93	6.74	1.05	5.21	2.26	25.82	222.1	0.52
2022-10-17	2022-10-21	705.55	6.88	1.09	5.42	1.54	26.37	235.3	0.54
2022-10-24	2022-10-24	706.75	6.79	1.09	5.39	2.08	25.30	319.0	0.54
2022-10-24	2022-10-28	632.35	6.99	0.97	5.47	0.90	26.20	259.2	0.49
2022-10-31	2022-10-31	649.28	6.93	1.00	5.31	0.34	25.28	254.6	0.50
2022-10-31	2022-11-04	665.76	6.97	1.02	5.01	9.12	26.46	257.5	0.51
2022-11-07	2022-11-08	674.93	6.87	1.04	5.46	8.63	25.92	203.7	0.52
2022-11-07	2022-11-11	760.88	6.99	1.17	5.48	0.52	25.42	139.0	0.59
2022-11-14	2022-11-14	1287.26	6.89	1.98	5.83	0.91	25.77	191.2	1.02
2022-11-14	2022-11-18	704.12	7.00	1.08	4.90	7.10	27.82	65.2	0.54
2022-11-19	2022-11-20	632.15	7.09	0.97	3.62	10.66	24.85	401.6	0.49
2022-11-19	2022-11-23	760.32	7.03	1.17	5.53	2.07	25.27	148.4	0.59
2022-11-28	2022-11-28	650.76	7.14	1.00	5.18	1.57	25.10	224.8	0.50
2022-12-19	2022-12-22	671.38	6.90	1.03	5.44	9.39	25.44	214.5	0.52
2022-12-26	2022-12-27	671.67	6.93	1.03	5.64	2.48	25.41	204.0	0.52
2023-01-02	2023-01-03	665.77	6.87	1.02	5.62	1.57	25.57	208.3	0.51
2023-01-09	2023-01-09	720.71	6.91	1.11	5.66	0.93	25.34	193.5	0.56
2023-01-16	2023-01-16	676.29	6.99	1.04	5.65	1.38	25.00	123.4	0.52
2023-01-23	2023-01-23	674.75	6.92	1.04	5.26	1.09	24.89	238.2	0.52

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

	RHMW17								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-06-13	6/15/2022[g]	339.58	7.48	0.52	6.99	11.33	23.73	213.4	0.25
2022-06-20	2022-06-23	319.90	7.29	0.49	6.48	8.90	24.34	54.3	0.24
2022-06-27	2022-07-01	310.58	7.77	0.48	5.82	11.88	24.83	16.4	0.23
2022-07-04	2022-07-06	318.08	7.61	0.49	6.04	0.49	23.21	187.5	0.24
2022-07-11	2022-07-12	306.91	7.35	0.47	5.61	0.00	23.98	271.7	0.23
2022-08-01	2022-08-03	298.17	7.37	0.46	4.96	4.35	25.27	161.8	0.22
2022-08-08	2022-08-10	311.64	7.31	0.48	2.35	13.10	25.30	-110.9	0.23
2022-08-15	2022-08-17	347.25	7.28	0.53	5.00	0.64	26.00	227.5	0.26
2022-08-22	2022-08-24	291.70	7.43	0.45	4.58	0.60	24.78	193.2	0.22
2022-08-29	2022-08-31	294.22	7.30	0.45	3.77	1.05	24.29	205.4	0.22
2022-09-06	2022-09-09	300.88	7.55	0.46	4.90	1.12	25.14	233.7	0.22
2022-09-12	2022-09-14	273.19	7.26	0.42	4.79	1.40	26.37	228.0	0.20
2022-09-19	2022-09-21	297.93	7.34	0.46	4.26	0.00	23.65	102.8	0.22
2022-09-26	2022-09-28	284.29	7.27	0.44	4.77	0.87	23.79	151.6	0.21
2022-10-03	2022-10-05	291.84	7.17	0.45	4.83	0.79	24.16	201.9	0.22
2022-10-17	2022-10-19	319.62	7.33	0.49	4.95	0.74	25.30	195.1	0.24
2022-10-17	2022-10-21	327.76	7.68	0.50	5.53	0.40	29.25	137.3	0.25
2022-10-24	2022-10-25	290.14	7.55	0.45	4.41	0.40	23.90	256.5	0.22
2022-10-24	2022-10-28	333.03	7.26	0.51	5.42	0.44	26.37	148.1	0.25
2022-10-31	2022-11-01	338.22	7.68	0.52	4.86	0.26	23.94	182.1	0.25
2022-10-31	2022-11-03	267.12	7.67	0.41	4.25	4.47	25.70	76.5	0.20
2022-11-07	2022-11-08	291.48	7.71	0.45	4.27	0.86	24.00	34.3	0.22
2022-11-07	2022-11-10	325.98	7.86	0.50	4.49	0.44	23.97	33.6	0.24
2022-11-14	2022-11-15	281.61	7.54	0.43	4.82	0.43	25.42	73.5	0.21
2022-11-14	2022-11-17	284.49	7.36	0.44	4.74	1.29	26.10	91.4	0.21
2022-11-19	2022-11-20	277.99	7.85	0.43	5.09	0.79	23.72	-3.6	0.21
2022-11-19	2022-11-22	263.80	7.42	0.41	4.57	0.33	24.23	167.7	0.20
2022-11-28	2022-11-30	291.22	7.09	0.45	4.40	0.60	23.51	219.1	0.22
2022-12-19	2022-12-21	289.38	7.37	0.45	5.01	2.30	24.36	210.4	0.22
2022-12-26	2022-12-30	324.06	7.24	0.50	5.31	1.68	23.12	121.7	0.24
2023-01-02	2023-01-06	272.73	7.36	0.42	3.82	1.26	22.68	190.9	0.20
2023-01-09	2023-01-12	281.68	4.69[j]	0.43	5.79	1.96	23.45	100.7	0.21
2023-01-16	2023-01-19	262.39	7.31	0.40	4.12	2.40	23.11	252.9	0.20
2023-01-23	2023-01-26	320.87	7.58	0.49	4.35	0.97	22.65	-28.8	0.24

D.O. = Dissolved Oxygen

g = Well entered into service after completion of well installation and development. First occurrence of NOI sampling

h= Calibration for specific conductivity corrupted. Calibration factor determined by comparing pre measurement value and expected value. Calibration factor applied to Specific Conductivty and TDS. Salinity recalculated based on the corrected conductivity value using the same calluclation as the AquaTroll, Method 2520A.

i = Issue with conductivity sensor affecting values derived from specific conductivity: TDS, Specific Conductivity, and Salinity

j = pH data corrupted due to issue with pH sensor calibration malfunction

k = pH data corrupted due to issue with pH sensor calibration malfunction, pH data reported as follows: RHMW04 = 4.59, RHMW06 = 4.14, RHMW08 = 4.83

NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21

NC3 = Not collected while awaiting replacement Westbay Controller

NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

	NMW24								
WEEK	DATE	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-11-19	2022-11-22	710.00	7.63	1.09	6.29	9.00	26.31	238.6	0.55

D.O. = Dissolved Oxygen

g = Well entered into service after completion of well installation and development. First occurrence of NOI sampling

h= Calibration for specific conductivity corrupted. Calibration factor determined by comparing pre measurement value and expected value. Calibration factor applied to Specific Conductivty and TDS. Salinity recalculated based on the corrected conductivity value using the same calluclation as the AquaTroll, Method 2520A.

i = Issue with conductivity sensor affecting values derived from specific conductivity: TDS, Specific Conductivity, and Salinity

j = pH data corrupted due to issue with pH sensor calibration malfunction

k = pH data corrupted due to issue with pH sensor calibration malfunction, pH data reported as follows: RHMW04 = 4.59, RHMW06 = 4.14, RHMW08 = 4.83

NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21

NC3 = Not collected while awaiting replacement Westbay Controller

NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 (6 May 2021 Event)

Notice of Interest 20211120-2330 (20 Nov 2021 Event)

Stablized Groundwater Parameters

Adit 3 Sump Parameter Readings							
TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
NC	NC	NC	NC	NC	NC	NC	NC
NC	NC	NC	NC	NC	NC	NC	NC
NC	NC	NC	NC	NC	NC	NC	NC
572.00	7.59	0.88	6.66	1.06	25.57	169.8	0.4
889.48	8.18	1.77	6.19	10.03	25.56	154.2	0.7
763.84	7.45	1.17	6.03	0.61	25.05	137.1	0.6
771.53	6.99	1.19	5.50	1.81	25.25	129.6	0.6
421.71	7.59	0.65	7.99	NC	18.52	92.1	0.3
442.88	7.76	0.68	6.00	96.20	NC	70.30	0.30
432.70	7.46	0.67	7.47	0.13	25.30	230.50	0.30
418.56	7.71	0.64	NC	6.14	25.58	196.9	0.3
430.83	7.68	0.65	9.73	0.83	14.89	43.6	0.3
451.05	7.11	0.69	7.45	1.75	26.31	159.7	0.34
478.49	7.09	0.74	7.08	0.35	25.00	221.4	0.36
305.72	7.42	0.47	7.52	0.02	26.11	148.3	0.23
383.54	7.26	0.59	8.63	9.22	25.35	158.3	0.29
403.22	7.22	0.62	7.72	1.17	25.35	194.7	0.30
398.88	7.21	0.61	7.61	0.46	25.32	33.4	0.30
411.30	7.24	0.63	8.47	0.15	25.31	138.6	0.31
404.95	7.53	0.62	8.09	0.00	24.99	140.3	0.31
399.89	7.46	0.62	7.98	4.08	25.50	48.4	0.30
405.42	7.24	0.62	8.05	20.51	25.45	116.0	0.31
404.06	7.40	0.62	7.97	9.89	25.50	124.4	0.30
397.40	7.24	0.61	8.36	0.68	25.23	215.1	0.30
397.11	7.46	0.61	7.94	0.63	25.49	135.3	0.30
389.81	7.22	0.60	8.07	3.83	25.71	144.2	0.29
397.85	7.20	0.61	7.87	2.78	25.53	71.8	0.30
325.04	6.90	0.50	7.90	1.49	25.62	85.0	0.24
387.67	7.25	0.60	8.81	0.26	25.68	179.1	0.29
404.60	7.79	0.62	8.07	0.00	25.41	205.6	0.31
379.61	7.83	0.58	8.05	0.00	25.97	216.7	0.29
373.27	7.17	0.57	7.94	6.36	26.20	218.1	0.28
397.02	7.90	0.61	8.02	0.00	25.99	248.3	0.30
401.38	7.38	0.62	7.94	0.00	25.88	101.6	0.30
392.78	7.92	0.60	8.00	0.99	25.56	182.2	0.30
409.13	7.93	0.63	7.94	0.29	25.65	136.0	0.31
400.48	7.18	0.62	8.01	3.58	25.72	102.0	0.30
391.64	7.28	0.60	7.85	3.05	25.57	102.4	0.30
437.31	7.36	0.67	7.75	0.21	26.06	100.2	0.33
414.82	7.80	0.64	8.62	2.93	24.80	163.1	0.31
410.17	7.71	0.63	8.07	0.10	25.11	181.5	0.31
436.49	7.27	0.67	8.22	17.99	25.26	175.3	0.33
441.80	7.51	0.68	7.93	2.88	25.19	128.5	0.33
411.57	7.48	0.63	8.40	0.27	25.19	203.0	0.31
371.45	7.50	0.57	7.80	0.71	27.09	41.5	0.28
394.78	7.36	0.61	7.69	19.81	25.63	136.9	0.30
441.74	7.72	0.68	7.90	1.31	24.97	50.1	0.33
401.63	7.53	0.62	7.68	0.01	26.12	89.3	0.30
402.03	7.28	0.62	8.26	3.23	26.41	144.5	0.30
388.12	7.82	0.60	8.14	0.81	24.55	25.8	0.29
370.91	7.39	0.57	7.74	1.61	26.68	110.3	0.28
385.31	7.27	0.59	7.99	0.44	26.26	60.9	0.29
461.98	7.61	0.71	8.08	10.95	24.03	118.9	0.35
464.73	7.03	0.71	8.17	3.44	24.12	131.0	0.35
467.16	6.70	0.72	8.69	0.65	24.11	131.5	0.35
427.81	7.69	0.66	8.15	0.17	23.59	94.9	0.32
428.31	7.68	0.66	8.16	3.20	24.08	198.5	0.32
397.70	7.37	0.61	8.28	5.89	24.00	78.7	0.30

Table B.3 NOI Notes:

Measurements were not collected during the weeks of 4/11/22, 4/18/22, 7/18/22, 7/25/22, 12/5/22, 12/12/22, 1/30/23 as LTM sampling was being conducted.

Measurements were not collected during the week of 10/10/22 due to unpacking event.

D.O. = Dissolved Oxygen

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i = Issue with conductivity sensor affecting values derived from specific conductivity: TDS, Specific Conductivity, and Salinity

j = pH data corrupted due to issue with pH sensor calibration malfunction

k = pH data corrupted due to issue with pH sensor calibration malfunction, pH data reported as follows: RHMW04 = 4.59, RHMW06 = 4.14, RHMW08 = 4.83

NC1 = Not required in DOH Notice of Interest Letter of 24 Nov 21

NC3 = Not collected while awaiting replacement Westbay Controller

NC-WL = Not collected while water level study underway in conjunction with the start up of Red Hill Shaft

NR = Not recorded due to equipment glitch

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

*AquaTroll experienced technical issues during sampling

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP01									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-06-20	11:51	481.58	7.00	0.74	5.48	0.01	26.15	190.6	0.37
2022-07-06	13:02	452.76	6.85	0.70	5.45	0.24	25.60	92.6	0.34
2022-07-18	12:15	420.71	6.93	0.64	6.49	0.31	25.13	190.4	0.23
2022-08-01	10:51	503.01	6.79	0.77	6.16	0.00	24.97	150.1	0.38
2022-08-17	10:10	425.99	6.67	0.66	6.02	0.14	24.95	246.7	0.32
2022-09-01	11:57	430.76	6.76	0.66	5.89	0.00	25.10	245.0	0.32
2022-09-15	10:06	430.23	6.75	0.66	6.10	0.72	25.75	248.9	0.33
2022-10-07	9:41	548.91	6.72	0.84	6.19	1.50	24.00	133.2	0.42
2022-10-16	9:52	480.01	6.71	0.74	6.15	0.00	24.60	142.8	0.36
2022-10-18	9:51	395.40	6.95	0.61	5.86	0.00	24.45	191.5	0.30
2022-10-21	10:00	410.15	6.91	0.63	5.91	0.00	24.50	186.4	0.31
2022-10-26	9:28	412.92	6.87	0.64	6.18	0.00	24.32	219.0	0.31
2022-10-28	8:30	NR	6.87	0.67	6.12	10.43	24.34	255.5	0.33
2022-11-01	11:26	439.68	7.15	0.68	1.33	0.38	24.53	212.1	0.33
2022-11-03	9:30	412.82	6.86	0.63	6.01	0.00	24.28	232.7	0.31
2022-11-08	10:21	429.71	6.85	0.66	6.01	0.15	24.62	260.9	0.32
2022-11-10	9:17	NR	6.86	0.66	6.09	0.00	24.07	131.3	NR
2022-11-15	9:18	414.70	6.87	0.64	6.26	0.11	24.13	158.1	0.31
2022-11-17	8:45	460.95	6.85	0.71	6.58	0.00	25.06	132.3	0.35
2022-11-19	11:10	NR	6.87	0.67	6.41	0.00	24.42	222.2	0.33
2022-11-22	8:54	446.79	6.77	0.69	6.06	0.00	24.14	331.7	0.33
2022-12-09	10:54	414.89	6.80	0.64	6.59	0.00	24.38	197.3	0.31
2022-12-22	9:26	502.50	6.84	0.77	6.49	0.36	24.00	180.1	0.38
2023-01-12	10:02	417.13	6.82	0.64	6.53	0.00	23.80	171.1	0.32
2023-01-27	10:38	NR	6.84	0.65	6.46	0.00	23.91	126.6	0.32
2023-02-03	10:35	439.97	6.74	0.68	6.24	0.00	27.58	176.2	0.33

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP02									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-06-08	12:37	524.60	6.89	0.81	6.90	0.00	27.50	205.3	0.40
2022-06-20	15:46	526.80	6.73	0.81	6.79	0.00	25.78	210.0	0.40
2022-07-06	10:42	498.27	6.83	0.77	6.88	0.00	25.56	102.9	0.38
2022-07-18	9:50	449.21	6.86	0.67	7.36	0.36	25.20	193.5	0.34
2022-08-04	10:35	489.19	6.88	0.75	7.76	0.23	25.71	294.0	0.37
2022-08-19	10:09	416.70	6.77	0.65	7.50	0.00	25.61	212.3	0.32
2022-09-01	15:30	478.15	6.42	0.73	6.85	0.03	26.10	260.1	0.36
2022-09-15	12:14	477.57	6.58	0.73	7.03	0.97	268.50	271.0	0.36
2022-10-07	12:02	600.01	6.63	0.92	7.14	0.33	25.27	130.1	0.46
2022-10-16	12:33	533.96	6.66	0.82	7.22	0.00	25.07	111.2	0.41
2022-10-18	11:37	439.52	6.88	0.68	6.68	0.00	25.12	201.8	0.33
2022-10-21	12:12	448.21	6.80	0.69	7.10	0.00	25.05	196.2	0.34
2022-10-26	11:47	455.33	6.83	0.70	7.16	0.73	24.76	245.6	0.34
2022-10-28	10:21	NR	6.82	0.74	7.01	0.00	24.94	253.1	0.37
2022-11-01	13:28	487.51	6.78	0.75	7.11	0.00	24.96	253.8	0.37
2022-11-03	11:36	457.30	6.81	0.70	7.16	0.06	24.80	262.3	0.34
2022-11-08	13:18	486.72	6.82	0.74	7.48	0.00	24.90	263.8	0.36
2022-11-10	11:38	NR	6.81	0.73	7.09	2.24	24.45	127.2	NR
2022-11-15	11:25	463.10	6.81	0.71	7.31	0.00	24.47	159.7	0.35
2022-11-17	10:25	509.56	6.84	0.78	7.60	0.00	24.55	142.9	0.35
2022-11-19	12:57	NR	6.82	0.75	7.57	0.00	24.81	238.4	0.37
2022-11-22	10:42	495.20	6.76	0.76	7.30	0.00	24.57	362.9	0.38
2022-12-09	13:29	462.61	6.72	0.71	7.38	0.00	24.63	207.2	0.35
2022-12-22	11:04	558.61	6.76	0.86	7.71	0.44	24.48	194.3	0.43
2023-01-12	11:54	466.77	6.75	0.72	7.40	0.08	24.40	183.9	0.35
2023-01-27	12:23	NR	6.82	0.73	7.36	0.00	24.17	94.8	0.36
2023-02-03	10:17	461.97	6.76	0.71	7.32	0.00	24.29	24.70	0.35

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP03									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-08-11	11:16	763.18	7.48	1.17	2.50	1.15	25.03	163.9	0.59
2022-08-25	12:25	794.76	7.35	1.22	2.39	8.71	25.20	145.3	0.61
2022-09-08	11:16	777.54	7.31	1.20	2.88	1.69	25.61	159.9	0.60
2022-09-21	12:43	744.64	7.17	1.18	2.50	0.57	25.87	152.9	0.57
2022-10-14	12:03	798.24	7.06	1.23	3.25	0.68	25.26	110.1	0.62
2022-10-17	12:36	782.12	7.10	1.20	2.81	0.00	25.20	82.7	0.60
2022-10-20	11:23	796.12	7.34	1.22	2.97	0.00	24.90	164.2	0.62
2022-10-25	12:29	654.00	7.35	1.01	3.10	0.00	25.00	219.3	0.50
2022-10-27	10:49	667.21	7.34	1.02	3.20	0.00	24.91	211.3	0.51
2022-11-02	11:32	661.31	7.36	1.04	3.33	0.00	25.25	241.3	0.52
2022-11-04	13:35	690.94	7.36	1.05	3.51	1.46	24.71	64.6	0.52
2022-11-09	15:19	803.26	6.85	1.24	3.40	2.03	24.83	82.6	0.62
2022-11-11	14:02	700.23	7.24	1.08	2.95	0.34	24.79	45.9	0.54
2022-11-16	14:36	871.15	7.16	1.34	3.41	0.56	24.80	175.3	0.68
2022-11-18	12:16	880.92	6.91	1.35	3.38	0.00	24.47	88.5	0.69
2022-11-20	11:45	951.34	7.22	1.46	3.09	0.00	24.41	310.9	0.74
2022-11-23	11:46	644.20	7.29	1.02	3.21	0.47	26.17	98.8	0.54
2022-12-09	10:49	758.33	7.27	1.17	3.21	0.48	25.91	50.3	0.59
2022-12-22	9:35	719.31	7.32	1.11	3.98	0.15	23.99	109.6	0.56
2023-01-13	9:31	686.78	7.32	1.06	4.14	0.00	23.67	212.7	0.53
2023-01-27	10:35	NR	7.31	0.99	3.73	1.68	24.06	73.3	NR
2023-02-03	13:58	806.28	7.30	1.24	3.42	0.70	24.25	-23.1	0.63

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP04A									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-08-12	10:16	656.96	7.47	1.02	7.48	0.61	27.14	77.1	0.51
2022-08-25	15:46	564.13	7.48	0.87	5.65	8.45	26.87	188.1	0.43
2022-09-08	9:08	590.13	7.58	0.91	4.99	0.00	26.39	200.1	0.45
2022-09-21	10:16	554.99	7.29	0.85	5.90	0.78	26.25	144.4	0.42
2022-10-14	9:40	678.33	7.32	1.04	9.12	0.74	25.89	146.8	0.52
2022-10-17	10:21	698.23	7.33	1.07	7.80	0.00	25.85	117.5	0.55
2022-10-20	9:20	727.21	7.66	1.12	7.31	0.00	25.50	164.2	0.56
2022-10-25	9:37	600.35	7.66	0.93	5.40	0.00	25.50	211.5	0.46
2022-10-27	8:55	580.21	7.66	0.90	4.65	0.00	25.48	202.5	0.45
2022-11-02	9:28	608.18	7.59	0.89	4.39	0.00	25.68	160.8	0.45
2022-11-04	10:39	605.00	7.60	0.93	4.12	8.03	25.90	224.3	0.46
2022-11-09	12:30	608.12	7.57	0.93	3.88	0.30	26.00	179.2	0.47
2022-11-11	11:46	573.66	7.58	0.88	3.90	0.00	25.48	-18.0	0.44
2022-11-16	9:10	594.67	7.60	0.52	3.66	0.09	25.20	91.1	0.46
2022-11-18	11:50	572.58	7.60	0.85	3.78	1.53	25.26	18.5	0.44
11/21/522	11:44	667.39	7.51	1.03	3.27	3.15	25.42	-16.9	0.51
2022-11-23	9:12	597.40	7.57	0.92	3.78	0.97	25.15	73.2	0.46
2022-12-09	11:36	609.83	7.58	0.94	3.30	0.00	26.07	41.6	0.47
2022-12-23	9:13	649.80	7.66	1.00	3.06	0.39	24.88	95.7	0.50
2023-01-13	12:59	632.66	7.76	0.97	5.70	8.08	25.56	162.2	0.48
2023-01-27	13:42	738.18	7.71	1.14	4.03	1.20	25.01	10.8	0.57
2023-02-03	12:48	638.08	7.55	0.98	3.09	9.76	28.53	8.2	0.49

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP04B									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-11-09	10:22	572.49	7.75	0.88	0.57	1.83	25.29	-36.2	0.44
2022-11-11	9:47	613.55	7.82	0.94	0.57	3.19	25.80	-219.2	0.47
2022-11-16	12:06	585.39	7.82	0.90	1.29	9.56	27.20	-230.1	0.44
2022-11-18	9:54	540.63	7.82	0.82	1.31	6.69	26.17	-311.5	0.41
2022-11-21	10:15	614.65	7.75	0.94	0.66	6.35	25.41	-337.6	0.47
2022-11-23	11:56	548.94	7.84	0.84	1.37	4.90	25.70	-227.5	0.42
2022-12-09	9:49	579.35	7.71	0.89	0.99	0.98	25.34	-236.0	0.44
2022-12-23	11:14	515.50	7.64	0.79	0.90	4.29	25.30	-71.5	0.39
2023-01-13	10:16	582.68	7.63	0.90	1.52	7.7	25.24	-66.2	0.45
2023-01-27	3:51	NR	7.79	0.83	1.08	0.68	25.08	-280.2	NR
2023-02-03	12:51	529.41	7.72	0.81	0.69	2.85	24.95	-299.8	0.40

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

RHP05									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-12-13	12:12	741.00	7.45	1.14	5.26	174.00	26.99	174.0	0.57
2022-12-21	9:50	684.04	7.53	1.05	6.24	3.29	25.42	114.2	0.53
2023-01-13	12:03	605.94	7.53	0.93	5.74	4.03	25.62	236.2	0.46
2023-01-27	10:33	733.01	7.47	1.13	6.19	0.35	25.08	54.2	0.57
2023-02-03	11:02	712.42	7.38	1.10	6.14	1.65	25.50	58.5	0.53

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Red Hill Bulk Fuel Storage Facility

Stablized Groundwater Parameters

NMW24									
DATE	Time	TDS	pH	Sp. Cond.	D.O.	Turbidity	Temp	ORP	SAL
		(ppm)		(mS/cm)	(mg/L)	(NTU)	(oC)	(Mv)	(psu)
2022-11-22	N/A	710.00	7.63	1.09	6.29	9.00	26.31	238.6	0.55
2022-12-09	13:40	760.75	7.33	1.17	4.59	7.65	27.06	87.1	0.59
2022-12-13	9:25	690.65	7.64	1.06	5.97	0.96	25.42	126.8	0.53
2022-12-22	11:54	712.38	7.32	1.10	5.40	0.00	26.92	120.4	0.55
2022-12-29	8:55	766.28	7.48	1.18	5.22	3.92	23.89	121.8	0.59
2023-01-05	15:03	790.28	6.70	1.22	5.44	0.51	25.71	145.5	0.61
2023-01-11	11:35	660.78	4.35	1.02	5.30	8.20	27.52	123.2	0.51
2023-01-18	14:33	694.91	7.35	1.07	5.78	0.55	25.86	191.5	0.54
2023-01-26	10:02	619.16	7.19	0.95	6.01	1.75	23.96	96.5	0.47
2023-02-01	12:21	721.62	6.86	1.11	6.15	0.14	26.12	-13.4	0.56

D.O. = Dissolved Oxygen

NR = Not recorded

ORP = Oxidation Reduction Potential

Sal = Salinity

Sp. Cond. = Specific Conductivity

TDS = Total Dissolved Solids

Temp = Temperature

Appendix B.4 – Summary of Groundwater Analytical Results through February 3, 2023

Data Legend for Appendix B.4.1–B.4.4

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Data Legend

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
a = Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b = Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
c = Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed.
d = The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
f = [App. B.4.3] The lab confirmed detected concentrations of 4-chlorophenyl phenyl ether at RHMW02 or 2,6-dinitrotoluene at OWDFMW05A as a false positive and results are not detected. However, if results have already been validated and data loaded into EDMS, the data table reflects original results
D = Limit of Quantitation (LOQ) increased due to sample matrix.
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
J1 = estimated value due to discrepancies in meeting analyte-specific quality control criteria.
JM = estimated value, manually integrated
JMQ = estimated value, manually integrated with one or more quality control outside acceptance criteria
JQ = estimated value with one or more quality control outside of acceptance criteria
mg/L = milligram per liter
M = manually integrated
no. = number
Q = one or more quality control outside of acceptance criteria
QC = quality control
U = nondetect value
UM = nondetect value, manually integrated
UMQ = nondetect value, manually integrated with one or more quality control outside acceptance criteria
UQ = nondetect value with one or more quality control outside of acceptance criteria
S = A documented laboratory error occurred during extraction, which contributed to low surrogate recovery. The sample was re-extracted; extraction prep hold time was exceeded by 4.83 d
O = Diluted out
-O = The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T = Analyte detected in the associated trip blank
TB = trip blank. Do not count for total sample number. Only done for quality control purposes.
TPH-g = total petroleum hydrocarbons-gasoline range organics
TPH-d = total petroleum hydrocarbons-diesel range organics
TPH-o = total petroleum hydrocarbons-residual range
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control
H = Sample was prepped or analyzed beyond the specified holding time

Appendix B.4.1 – GW Analytical Table_TPH and Fuel-Related Compounds

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		140		120		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							200		5.5		ND		560		978		400		160		140		320		410		874		1200		330		ND		1400	
Maximum After 11/4/2022							–		–		ND		–		–		340		–		–		83		–		–		340		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	<18.0	U	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	<18.0	U	–		–		310	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	<18.0	UJ	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		160	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		200	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		320		–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	<18.0	U	–		–		230	J	–		–		<300.0	U	–		–		190	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	<18.0	U	–		–		210	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		170	J	–		–		150	J	–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<18.0	U	–		–		160	J	–		–		150	J+	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		210	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	<18.0	UJ	–		–		320		–		–		<300.0	U	–		–		410		–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	UJ	–		–		180	J+	–		–		<300.0	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	<18.0	U	–		–		300	J	–		–		<300.0	UJ	–		–		<300	U	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	<18.0	U	–		–		260	J	–		–		160	J	–		–		200	J	–		–		230	J	–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	R	–		–		230	J-	–		–		<300	UJ	–		–		180	J-	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	<18.0	U	–		–		<300	U	–		–		<300.0	U	–		–		<300	U	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	<18.0	U	–		–		230	J	–		–		<300.0	U	–		–		310	J	–		–		190	J+	–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	<18.0	U	–		–		320		–		–		<300	U	–		–		220	J	–		–		<300	U	–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	<18	U	–		–		270	J	–		–		<300	U	–		–		300	J	–		–		<300	U	–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		160	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	<18.0	U	–		–		250	J	–		–		<300.0	U	–		–		220	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	<18.0	U	–		–		280	J	–		–		<300	U	–		–		230	J+	–		–		330	J+	–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	<18.0	UJ	–		–		250	J			–		<300	U			–		270	J+			–		<300	UJ			–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	<18.0	U	–		–		240	J	–		–		<300.0	U	–		–		210	J+	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	<18.0	U	–		–		280	J	–		–		<300.0	U	–		–		310	J+	–		–		<300	UJ	–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		260	J	–		–		–		51	J	–		–		220	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		<300	UJ	–		–		<300	U	–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	14	J	–		–		400		–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		390		–		–		–		80	J	–		–		140	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	29		–		–		560		–		–		<300.0	U	–		–		210	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		490		–		–		–		120	J	–		–		–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	<18.0	U	–		–		540		–		–		<300.0	U	–		–		240	J	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		420		–		–		<120	U	–		–		190	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	22				–		550				–		<300.0	U			–		290	J			–		<300.0	U			–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		670		–		–		140	J	–		–		250	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	<18	U	–	–	–		430	J	–		–		<300	U	–		–		170	J+	–		–		<300.0	U	–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		400		–		–		78	J	–		–		230	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	38	J-	–	–	–		480	J	–		–		<300	U	–		–		150	J	–		–		<300	U	–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		470		–		–		78	J	–		–		220	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	29		–	–	–		430		–		–		<300	U	–	–	–		<300	U	–	–	–		<300	UJ	–	–	–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		880		–		–		110	J	–		–		710		–		–		<170	U	–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	200		–	–	–		510		–		–		<300	U	–	–	–		<300	U	–	–	–		<300	U	–	–	–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		530		–		–		100	J	–		–		200	J	–		–		<150	U	–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	16	J	–		–		550		–		–		<300	U	–	–	–		<320	UJ	–	–	–		<300	U	–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		480		–		–		110	J	–		–		220	J	–		–		<140	U	–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	<18	U	–		–		290	J	–		–		<300	U	–	–	–		290	J	–	–	–		210	J	–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		570		–		--		66	J	–		--		650		–		--		<150	U	–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		<8.7	U	–		–		290	J	–		–		55	J	–		–		230	J	–		--		<140	U	–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	–		<8.7	U	–		–		190	J	–		–		58	J	–				<150	U	–		–		<150	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		140		120		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							200		5.5		ND		560		978		400		160		140		320		410		874		1200		330		ND		1400	
Maximum After 11/4/2022							–		–		ND		–		–		340		–		–		83		–		–		340		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	–		<8.7	U	–		–		250	J-	–		–		47	J-	–		–		150	J-	–		–		–	R	–	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–		3.3	J	–		–		290	J	–		–		45	J	–		–		380		–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		2.8	J	–		–		280	J	–				110	J	–				240	J	–				<140	U	–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–		3	J	–		–		210	J	–		–		42	J	–		–		210	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		2.4	J	–		–		180	J	–		–		39	J	–		–		180	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–		2.4	J	–		–		140	J	–		–		<120	U	–		–		120	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		3	J	–		–		160	J	–		–		<120	U	–		–		120	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–		2.5	J	–		–		160	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		<8.7	U	–		–		280	J	–		–		45	J	–		–		230	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–		<8.7	U	–		–		190	J	–		–		41	J	–		–		97	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		5.5	J	–		–		390		–		–		42	J	–		–		97	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–		<8.7	U	–		–		300		–		–		34	J	–		–		190	J	–		–		<150	U	–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–		4.3	J	–		–		910		–		–		46	J	–		–		720		–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–		3.8	J	–		–		270	J	–		–		38	J	–		–		170	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–		2.5	J	–		–		440		–		–		33	J	–		–		170	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		3.3	J	–		–		270	J	–		–		39	J	–		–		200	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		2.8	J	–		–		270	J	–		–		40	J	–		–		190	J	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		3.4	J	–		–		290	J	–		–		37	J	–		–		100	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		3.4	J	–		–		310		–		–		47	J	–		–		98	J	–		–		<140	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		3	J	–		–		370		–		–		37	J	–		–		170	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		3.2	J	–		–		470		–		–		46	J	–		–		250	J	–		–		<140	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		5.2	J	–		–		280	J	–		–		40	J	–		–		150	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		5.2	J	–		–		290	J	–		–		46	J	–		–		130	J	–		–		<140	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		2.7	J	–		–		320		–		–		38	J	–		–		150	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		2.4	J	–		–		290	J	–		–		33	J	–		–		120	J	–		–		<140	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		4.5	J	–		–		360		–		–		<140	U	–		–		280	J	–		–		<140	U	–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		3.9	J	–		–		230	J	–		–		43	J	–		–		170	J	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		3.7	J	–		–		170	J	–		–		<150	U	–		–		190	J	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		2.33	J	–		–		226	J	–		–		38.5	J	–		–		112	J	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		<8.7	U	–		–		978		–		–		35.1	J	–		–		874		–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		<8.7	U	–		–		194	J	–		–		56.1	J	–		–		<149	U	–		–		<149	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		2.7	J	–		–		234	J	–		–		39	J	–		–		210	J	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		<8.7	U	–		–		226	J	–		–		44.8	J	–		–		255	J	–		–		<150	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		140		120		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							200		5.5		ND		560		978		400		160		140		320		410		874		1200		330		ND		1400	
Maximum After 11/4/2022							–		–		ND		–		–		340		–		–		83		–		–		340		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		2.87	J	–		–		255	J	–		–		42.4	J	–		–		180	J	–		–		<143	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		3.16	J	–		–		553	J-	–		–		53.5	J	–		–		604	J-	–		–		–	R	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		2.8	J	–		–		253	J	–		–		44.6	J	–		–		185	J	–		–		<149	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		<8.7	U	–		–		229	J	–		–		47.4	J	–		–		<150	U	–		–		<150	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		3.68	J	–		–		496		–		–		<149	U	–		–		424		–		–		<149	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		2.29	J	–		–		199	J	–		–		48	J	–		–		160	J	–		–		<149	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		<80	U	–		–		180		–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		<80	UJ	–		–		150	J-	–		–		<100	UJ	–		–		<310	UJ	–		–		<310	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		210		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		<80	U	–		–		200		–		–		94	J	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		<80	UJ	–		–		160		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		<80	UJ	–		–		230		–		–		320		–		–		1200		–		–		1400	J+
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		<80	U	–		–		150		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		180		–		–		170		–		–		<300	U	–		–		<300	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		130		–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		140		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		130		–		–		<99	U	–		–		<300	U	–		–		<300	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		130		–		–		<100	U	–		–		270	J	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		240		–		–		<100	U	–		–		180	J	–		–		<300	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		330		–		–		<110	U	–		–		220	J	–		–		<320	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		120	J	–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		240	J	–		–		75	J	–		–		230	J	–		–		<230	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		400		–		–		70	J	–		–		500		–		–		<240	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		340		–		–		83	J	–		–		340	J	–		–		<310	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							530		ND		–		–		7.95	
Maximum Before 11/5/2022							21100		0.0074		–		–		740	
Maximum After 11/4/2022							1300		ND		–		–		440	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	990		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	4000		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	21100	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	1700	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	1200	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	1300	J-	–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	1200	J-	–	–	–	–	–	–	–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	1400		–	–	–	–	–	–	–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	2100		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	7500		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	--		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	780		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	690		<0.0049	U	–		–		550	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							530		ND		–		–		7.95	
Maximum Before 11/5/2022							21100		0.0074		–		–		740	
Maximum After 11/4/2022							1300		ND		–		–		440	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	770		<0.0050	U	–		–		490	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	700		<0.0048	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	730		<0.0049	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	800		<0.0049	U	–		–		490	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	680		<0.0049	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	670	J+	<0.0048	U	–		–		580	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	1600		<0.0049	U	–		–		380	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	980		<0.005	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	1100		<0.0049	U	–		–		350	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	1100		<0.0049	U	–		–		540	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	1200		<0.0049	UJ	–		–		560	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	1000		<0.0049	U	–		–		560	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	1200		<0.0048	U	–		–		480	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	1000		<0.0049	U	–		–		570	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	1700		<0.0049	U	–		–		620	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	1100		<0.0048	U	–		–		590	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	1200		<0.0049	U	–		–		570	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	901		<0.00481	U	–		–		567	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	1230		<0.00481	U	–		–		431	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	977		<0.0049	U	–		–		573	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	776		<0.00499	U	–		–		563	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	712		<0.0049	U	–		–		449	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	530		ND		–		–		7.95	
							Maximum Before 11/5/2022	21100		0.0074		–		–		740	
							Maximum After 11/4/2022	1300		ND		–		–		440	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V		705		<0.005	U	–		–		558	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V		754	J-	–	R	–		–		577	J-
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V		1210		<0.0049	U	–		–		7.95	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V		716		<0.00481	U	–		–		611	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		818		<0.00499	U	–		–		663	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		732		<0.0049	U	–		–		537	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V		670	J	<0.0057	U	–		–		740	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V		880	J	<0.0058	U	–		–		530	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V		12000		<0.0057	U	–		–		460	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V		1500	J+	<0.0057	U	–		–		480	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V		1100	J	<0.0057	U	–		–		460	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V		3400		<0.0058	U	–		–		320	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V		980	J	<0.0058	U	–		–		490	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V		850	J	<0.0057	U	–		–		640	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V		2800		<0.0058	U	–		–		420	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V		2400		<0.0058	U	–		–		390	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V		710	J	<0.0057	U	–		–		300	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V		560	J	<0.0057	U	–		–		400	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V		860	J	<0.0058	U	–		–		390	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V		530	J	<0.0057	U	–		–		480	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V		540	J	<0.0058	U	–		–		460	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V		1200	J	<0.0057	U	–		–		370	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V		2800		0.0074	J	–		–		250	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V		1300	J	<0.0057	U	–		–		440	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		12		ND		1300		1200		1000		ND		250		350		ND		260		ND		ND		ND		ND	
Maximum Before 11/5/2022							230		44.2		66		3600		5200		4000		1400		790		1100		660		1300		630		250		130		370	
Maximum After 11/4/2022							–		–		ND		–		–		3000		–		–		430		–		–		340		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	100		–		–		1600		–		–		360		–		–		240	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	37		–		–		1700		–		–		340		–		–		250	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	<18.0	U	–		–		1500		–		–		360		–		–		170	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	<18.0	UJ	–		–		1600		–		–		380		–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	80		–		–		1400		–		–		210	J	–		–		190	J	–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	81		–		–		1300		–		–		330		–		–		180	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	38		–		–		2000		–		–		290	J	–		–		300	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	27		–		–		1500		–		–		390		–		–		370		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	33		–		–		1900		–		–		400		–		–		320		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	60		–		–		1900		–		–		<300.0	U	–		–		240	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	47		–		–		2100		–		–		250	J	–		–		410		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	23		–		–		2000		–		–		740		–		–		350		–		–		160	J	–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	52		–		–		1400		–		–		470		–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	130		–		–		1800		–		–		570		–		–		320		–		–		<300.0	U	–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	170		–		–		1800		–		–		520		–		–		210	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	<18.0	U	–		–		3300		–		–		900		–		–		360		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	<18.0	U	–		–		2700		–		–		660	J-	–		–		530	J+	–		–		<300.0	UJ	–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	22		–		–		2800		–		–		740	J	–		–		<520	U	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	59		–		–		2400		–		–		530		–		–		440		–		–		250	J	–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	92	J-	–		–		2900	J-	–		–		680	J-	–		–		380	J-	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	<18.0	U	–		–		3000		–		–		690		–		–		480	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	85		–		–		3300		–		–		340		–		–		470		–		–		<300.0	U	–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	<18.0	U	–		–		2800		–		–		620		–		–		370		–		–		<300	U	–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	<18.0	U	–		–		3600		–		–		1400				–		560	J+	–		–		180	J+	–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	58		–		–		2700		–		–		1400	J+	–		–		660	J+	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	46	J+	–		–		2600		–		–		1100	J	–		–		470	J+	–		–		<300	UJ	–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	55		–		–		3300		–		–		670		–		–		<470	UJ	–		–		<300	U	–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		2700		–		–		510	J-	–		–		380		–		–		<160	UJ	–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	64		–		–		2600		–		–		<300.0	U	–		–		390	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		2400	J-	–		–		580	J-	–		–		380	J-	–		–		<140	UJ	–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	77		–		–		3000		–		–		480		–		–		290	J+	–		–		160	J+	–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		3100		–		–		750		–		–		380		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	<18.0	U	–		–		3000		–		–		1400	J+	–		–		320		–		–		170	J+	–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		3500		–		–		580		–		–		430		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	130		–		–		2100		–		–		430		–		–		260	J	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		3000		–		–		790		–		–		300		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	86		–		–		3000	J	–		–		940		–		–		310	J+	–		–		<300.0	U	–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		3600		–		–		680		–		–		470		–		–		110	J	–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	71	J-	–		–		2400	J	–		–		1100	J+	–		–		340	J	–		–		190	J+	–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		2800		–		–		520		–		–		350		–		–		<140	U	–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	68		–		–		2500		–	–	–		620	–	–	–	–		<300	U	–	–	–		<300	U	–	–	–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		2400		–		--		670		–		–		540		–		–		130	J	–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	230		–		–		2300		–	–	–		510	–	–	–	–		200	J	–	–	–		150	J	–	–	–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		2500		–		–		520		–		–		330		–		–		<150	U	–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	78		–		–		2600		–	–	–		570	–	–	–	–		400	J+	–	–	–		<300	U	–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		3100		–		–		630		–		–		350		–		–		<150	U	–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	58		–		–		1700		–	–	–		430	–	–	–	–		410		–	–	–		160	J	–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		2300		–		–		420		–		–		1300		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		12	J	–		–		1700		–		–		410		–		–		340		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	–		14	J	–		–		1200		–		–		260	J	–		–		260	J	–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	–		21		–		–		3800		–		–		250	J	–		–		480		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		22		–		–		3600		–		–		320		–		–		480		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		26		–		–		4200		–		–		360		–		–		670		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		35		–		–		3600		–		–		590		–		–		780		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		38		–		–		5200		–		–		410		–		–		430		–		–		<150	U	–	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		39		–		–		3000		–		–		460		–		–		580		–		–		<140	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		12		ND		1300		1200		1000		ND		250		350		ND		260		ND		ND		ND		ND	
Maximum Before 11/5/2022							230		44.2		66		3600		5200		4000		1400		790		1100		660		1300		630		250		130		370	
Maximum After 11/4/2022							–		–		ND		–		–		3000		–		–		430		–		–		340		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		38		–		–		3200		–		–		490		–		–		410		–		–		<140	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		36		–		–		4100		–		–		520		–		–		690		–		–		<140	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		32		–		–		4100		–		–		510		–		–		500		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		36		–		–		3500		–		–		400		–		–		860		–		–		<140	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		27		–		–		3400		–		–		450		–		–		390		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		24		–		–		3700		–		–		430		–		–		540		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		32.6		–		–		3340		–		–		404		–		–		830		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		30.1		–		–		4700		–		–		408		–		–		1100		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		23.7		–		–		3600		–		–		546		–		–		862		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		26		–		–		3780		–		–		342		–		–		702		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		26.4		–		–		4410		–		–		578		–		–		582		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		41.8		–		–		4100		–		–		600		–		–		1300		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		34.6	J-	–		–		2870	J-	–		–		416	J-	–		–		573	J	–		–		–	R	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		31.4		–		–		3720		–		–		503		–		–		381		–		–		<152	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		44.2		–		–		4230		–		–		525		–		–		532		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		22.3		–		–		2660		–		–		458		–		–		781		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		39.2		–		–		4050		–		–		518		–		–		637		–		–		<150	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		35	J	–		–		2000		–		–		490		–		–		180	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		<80	U	–		–		3200		–		–		1100		–		–		210	J	–		–		370	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		37	J	–		–		1900		–		–		440		–		–		<310	U	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		66	J	–		–		2300	J	–		–		610		–		–		190	J	–		–		<300	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		<80	U	–		–		4000		–		–		710		–		–		350	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		32	J	–		–		2900		–		–		470		–		–		580		–		–		340	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		<80	UJ	–		–		1700		–		–		410		–		–		<300	U	–		–		<300	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		34	J	–		–		2900		–		–		510		–		–		260	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		39	J	–		–		2400		–		–		580		–		–		260	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		1900		–		–		450		–		–		180	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		1700		–		–		440		–		–		190	J	–		–		<300	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	UJ	–		–		1600		–		–		530		–		–		290	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		2000		–		–		490		–		–		180	J	–		–		<310	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		1000		–		–		350		–		–		<320	U	–		–		<320	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		1500	J	–		–		420	J	–		–		<290	U	–		–		<290	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		1500	J	–		–		350	J	–		–		140	J	–		–		<230	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		46	J	–		–		2900		–		–		700		–		–		630		–		–		140	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		3000		–		–		400		–		–		340	J	–		–		<300	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		1900		–		–		430		–		–		280	J	–		–		<300	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							2300		ND		–		–		1500	
Maximum Before 11/5/2022							18000		ND		–		–		5400	
Maximum After 11/4/2022							14000		ND		–		–		5300	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	4100	J	–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	5500		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	18000	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	4700		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	2500	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	3200	J-	–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	4800	J-	–	–	–	–	–	–	–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	2500		–	–	–	–	–	–	–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	2300		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	2300		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	3400		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	3500		<0.0049	U	–		–		2500	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	5700		<0.0050	U	–		–		2900	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	7600		<0.0049	U	–		–		3000	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	7200		<0.0049	U	–		–		3200	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	9400		<0.0049	U	–		–		3200	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	11000		<0.0049	U	–		–		3800	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	4300		<0.0049	UJ	–		–		2900	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte						Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.						–		106-93-4		112-34-5		111-77-3		74-82-8	
Method						–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL						–		0.04		–		800		–	
Units						µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022						2300		ND		–		–		1500	
Maximum Before 11/5/2022						18000		ND		–		–		5400	
Maximum After 11/4/2022						14000		ND		–		–		5300	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	5800		<0.0049	U	–		–		3400	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	7800		<0.0048	U	–		–		3500	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	8900		<0.0049	U	–		–		3300	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	10000		<0.0049	U	–		–		3700	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	6400		<0.005	U	–		–		3700	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	3300		<0.0049	U	–		–		3000	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	6790		<0.00481	U	–		–		3270	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	7410		<0.0049	U	–		–		3080	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	4980		<0.0049	U	–		–		3600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	3740		<0.0049	U	–		–		2940	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	4040		<0.0049	U	–		–		3420	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	5860		<0.0049	U	–		–		4030	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	5700	J-	–	R	–		–		3730	J-
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	7250		<0.0049	U	–		–		3460	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	8160		<0.0049	U	–		–		4180	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	3620		<0.0049	U	–		–		3310	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	6210		<0.0049	U	–		–		3530	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	5300		<0.0058	U	–		–		4200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	8600		<0.0059	U	–		–		4200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	5100		<0.0058	U	–		–		2300	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	10000		<0.0058	U	–		–		3900	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	9200		<0.0058	U	–		–		5400	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	11000		<0.0058	U	–		–		2400	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	4800		<0.0057	U	–		–		3600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	7300		<0.0058	U	–		–		3800	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	7400		<0.0058	U	–		–		3100	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	5500		<0.0057	U	–		–		3000	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	3700		<0.0058	U	–		–		3200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	6000		<0.0057	U	–		–		2600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	4900		<0.0057	U	–		–		2600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	4000		<0.0058	U	–		–		3600	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	7500	J+	<0.0058	U	–		–		1500	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	4100		<0.0058	U	–		–		2500	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	13000		<0.0057	U	–		–		2200	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	14000		<0.0058	U	–		–		5300	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	6900		<0.0057	U	–		–		4000	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		90.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		3.6		32		430		613		360		ND		ND		77		860		852		640		550		148		190	
Maximum After 11/4/2022							–		–		ND		–		–		470		–		–		ND		–		–		500		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<18.0	U	–		–		200	J	–		–		<300.0	U	–		–		220	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<18.0	U	–		–		170	J	–		–		<300.0	U	–		–		210	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<18.0	U	–		–		160	J	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<18.0	UJ	–		–		<300.0	U	–		–		–		–		–		<300.0	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		180	J	–		–		<300.0	U	–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<18.0	U	–		–		180	J	–		–		<300.0	U	–		–		180	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		330		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<18.0	U	–		–		330		–		–		<300.0	U	–		–		580		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<18.0	U	–		–		430		–		–		<300.0	U	–		–		840		–		–		350		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<18.0	U	–		–		370		–		–		<300.0	U	–		–		550		–		–		200	J	–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		370		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		330		–		–		200	J	–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<18.0	U	–		–		150	J	–		–		<300.0	U	–		–		170	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<18.0	U	–		–		220	J	–		–		<300.0	U	–		–		350		–		–		150	J	–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<18.0	U	–		–		160	J	–		–		<300.0	U	–		–		200	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<18.0	UJ	–		–		310	J	–		–		<300.0	U	–		–		660		–		–		<300.0	U	–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300.0	UJ	–		–		610	J+	–		–		<300.0	UJ	–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<18.0	U	–		–		390		–		–		<300.0	UJ	–		–		<570	U	–		–		<300	UJ	–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		490		–		–		250	J	–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<18.0	UJ	–		–		430		–		–		<300	U	–		–		710		–		–		240	J	–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<18.0	U	–		–		350	J+	–		–		<300.0	U	–		–		790	J+	–		–		260	J	–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		520		–		–		190	J+	–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<18.0	U	–		–		410		–		–		<300	U	–		–		860		–		–		550		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<18.0	U	–		–		260	J	–		–		<300.0	U	–		–		520	J+	–		–		190	J+	–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300	U	–		–		700	J+	–		–		410	J+	–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		700	J+	–		–		440	J	–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<18.0	U	–		–		360		–		–		<300.0	U	–		–		<530	UJ	–		–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		160	J	–		–		<130	U	–		–		320	J	–		–		<160	U	–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		570	J+	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		220	J-	–		–		<120	UJ	–		–		720	J-	–		–		<150	UJ	–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<18.0	U	–		–		350		–		–		<300.0	U	–		–		410	J+	–		–		150	J+	–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		180	J	–		–		<140	U	–		–		570		–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<18.0	U	–		–		250	J	–		–		<300.0	U	–		–		290	J	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		120	J	–		–		<120	U	–		–		330		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<18.0	U	–		–		270	J	–		–		<300.0	U	–		–		410		–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		150	J	–		–		<110	U	–		–		280	J	–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<18	U	–	–	–		170	J	–		–		<300.0	U	–		–		190	J+	–		–		<300.0	U	–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		160	J	–		–		<120	U	–		–		370		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<18	U	–	–	–		180	J	–		–		<300	U	–		–		210	J	–		–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		110	J	–		–		<120	U	–		–		250	J	–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<18	U	–	–	–		220	J	–	–	–		<300	U	–	–	–		<300	U	–	–	–		<300	UJ	–	–	–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		200	J	–		–		<120	U	–		–		310		–		–		<140	U	–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<18	U	–	–	–		190	J	–	–	–		<300	U	–	–	–		220	J	–	–	–		220	J	–	–	–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		120	J	–		–		<120	U	–		–		350		–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<18	U	–		–		210	J	–	–	–		<300	U	–	–	–		330	J+	–	–	–		<300	U	–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		130	J	–		–		<120	U	–		–		290	J	–		–		<150	U	–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<18	U	–		–		180	J	–	–	–		<300	U	–	–	–		310	J	–	–	–		160	J	–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		110	J	–		–		<120	U	–		–		230	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		<8.7	U	–		–		120	J	–		–		<120	UJ	–		–		240	J	–		–		<150	UJ	–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	–		<8.7	U	–		–		160	J	–		–		<120	U	–		–		290	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	–		<8.7	U	–		–		140	J	–		–		<150	U	–		–		400		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		3.6	J	–		–		240	J	–		–		<150	U	–		–		430		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		<8.7	U	–		–		96	J	–		–		<150	U	–		–		300	J	–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<120	U	–		–		300		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		<8.7	U	–		–		360		–		–		<120	U	–		–		550		–		–		<150	U	–	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		<8.7	U	–		–		160	J	–		–		<140	U	–		–		270	J	–		–		<140	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		90.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		3.6		32		430		613		360		ND		ND		77		860		852		640		550		148		190	
Maximum After 11/4/2022							–		–		ND		–		–		470		–		–		ND		–		–		500		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		<8.7	U	–		–		250	J	–		–		<110	U	–		–		370		–		–		<140	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		<8.7	U	–		–		110	J	–		–		<140	U	–		–		320		–		–		<140	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		<8.7	U	–		–		210	J	–		–		<120	U	–		–		370		–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<160	U	–		–		450		–		–		<160	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		<8.7	U	–		–		200	J	–		–		<150	U	–		–		310		–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		<8.7	U	–		–		90.4	J	–		–		<120	U	–		–		212	J	–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		<8.7	U	–		–		129	J	–		–		<120	U	–		–		291	J	–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		<8.7	U	–		–		171	J	–		–		<150	U	–		–		416		–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		<8.7	U	–		–		337		–		–		<150	U	–		–		497		–		–		148	J	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		<8.7	U	–		–		175	J	–		–		<149	U	–		–		413		–		–		<149	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		<8.7	U	–		–		296	J	–		–		<150	U	–		–		446		–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		<8.7	U	–		–		613	J-	–		–		–	R	–		–		852	J-	–		–		–	R	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		<8.7	U	–		–		274	J	–		–		<150	U	–		–		530		–		–		<150	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		<8.7	U	–		–		574		–		–		<150	U	–		–		664		–		–		59.9	J	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		<20	U	–		–		196	J	–		–		<149	U	–		–		334		–		–		<149	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		<8.7	U	–		–		210	J	–		–		<121	U	–		–		338		–		–		<152	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		140		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		180		–		–		<100	U	–		–		210	J	–		–		<300	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		<80	U	–		–		310		–		–		77	J	–		–		640		–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		<80	UJ	–		–		210		–		–		<100	U	–		–		280	J	–		–		<300	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		32	J	–		–		130		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		<80	U	–		–		220		–		–		<100	U	–		–		420		–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		180		–		–		<100	U	–		–		180	J	–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		130		–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		220		–		–		<100	U	–		–		350	J	–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		260		–		–		<100	U	–		–		250	J	–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	UJ	–		–		170		–		–		<100	U	–		–		330	J	–		–		<300	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		360		–		–		<100	U	–		–		540		–		–		190	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		280		–		–		<100	U	–		–		380		–		–		<300	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		270	J	–		–		<96	U	–		–		430	J	–		–		<290	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		170	J	–		–		<77	U	–		–		270	J	–		–		<230	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		250		–		–		<76	U	–		–		470		–		–		<230	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	UJ	–		–		470		–		–		<100	U	–		–		500		–		–		<310	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		250		–		–		<100	U	–		–		380		–		–		<310	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							1380		ND		–		–		ND	
Maximum Before 11/5/2022							19700		0.01		–		–		1.1	
Maximum After 11/4/2022							5100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	4600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	7400		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	19700	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	2600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	1700	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	1500	J-	–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	1700	J-	–	–	–	–	–	–	–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	2300		–	–	–	–	–	–	–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	1600		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	7900		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	1800	J	–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	2400		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	2600		<0.0050	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	2000		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	1900		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	1700		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	1800		<0.0048	U	–		–		<1.2	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	1800		<0.0049	UJ	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte						Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.						–		106-93-4		112-34-5		111-77-3		74-82-8	
Method						–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL						–		0.04		–		800		–	
Units						µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022						1380		ND		–		–		ND	
Maximum Before 11/5/2022						19700		0.01		–		–		1.1	
Maximum After 11/4/2022						5100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	1800		<0.0048	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	2800		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	2000		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	1600		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	3200		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	1700		<0.0049	U	–		–		<1.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	1640		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	1380		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	1800		<0.0048	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	2970		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	2470		<0.0049	U	–		–		0.78	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	1790		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	1880	J-	–	R	–		–		–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	2320		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	6090	J-	<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	2240		<0.00499	U	–		–		0.786	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	1980		<0.0049	U	–		–		<1.16	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	1600		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	1600		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	3700		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	5000		<0.0057	U	–		–		0.68	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	2500		<0.0058	U	–		–		0.65	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	2200		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	2300		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	1900		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	2200		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	3000		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	2200		<0.0057	U	–		–		1.1	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	6100		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	7300		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	2200		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	3400		0.01	J	–		–		<1.3	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	2500		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	3400		<0.0058	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	4700		<0.0057	U	–		–		<1.3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	5100		<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		30		82		–		892		110		–		ND		ND		–		720		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		47	J	–		–		<120	U	–		–		170	J	–		–		<150	U	–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		<8.7	U	–		–		280	J	–		–		<150	U	–		–		410		–		–		<150	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		30		–		–		330		–		–		<110	U	–		–		550		–		–		<140	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		<8.7	U	–		–		58	J	–		–		<120	U	–		–		240	J	–		–		<150	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		<8.7	U	–		–		120	J	–		–		<120	U	–		–		270	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		<8.7	U	–		–		47	J	–		–		<150	U	–		–		200	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		892		–		–		<120	U	–		–		720		–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		<8.7	U	–		–		187	J	–		–		<119	U	–		–		376		–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		211	J	–		–		<120	U	–		–		287	J	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		45.1	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		<8.7	U	–		–		534	J	–		–		<118	U	–		–		566	J	–		–		<147	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		63	J	–		–		<120	U	–		–		<150	UJ	–		–		<150	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		<8.7	U	–		–		47.7	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		44	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		30		82		–		892		110		–		ND		ND		–		720		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		–		<80	U	–		–		110		–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	–		–		82	J	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	–		–		<80	U	–		–		<81	U	–		–		–		–		–		<240	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<83	U	–		–		–		–		–		<250	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	–		–		<80	U	–		–		<84	U	–		–		–		–		–		<250	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<86	U	–		–		–		–		–		<260	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	5400		ND		–		–		4.62	
							Maximum After 11/4/2022	580		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V		2100		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V		5400		<0.0048	U	–		–		<1.2	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V		3100		<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V		690		<0.0048	U	–		–		<1.2	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V		420	J	<0.005	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V	d	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V		390	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V		400	J	<0.0048	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V	c	–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V		280	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V		220	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V		300	J	<0.005	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V		340	J	<0.0049	U	–		–		<1.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		339	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		387	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		260	J	<0.0048	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		264	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		794		<0.0049	U	–		–		4.62	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		290	J	<0.00481	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		299	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		282	J	<0.00499	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		405	J	–	R	–		–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							5400		ND		–		–		4.62	
Maximum After 11/4/2022							580		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	795		<0.0048	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	370	J	<0.0049	U	–		–		<1.16	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	460	J	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	540	J	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	660	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	580	J	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	520	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	450	J	<0.0058	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	380	J	<0.0059	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<1000	U	<0.0057	UJ	–		–		<1.3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	580	J	<0.0057	U	–		–		<1.3	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		4		ND		190		250		1500		ND		ND		280		490		450		1200		290		ND		420	
Maximum After 11/4/2022							–		–		ND		–		–		96		–		–		ND		–		–		200		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<18.0	U			–		<300.0	U	–		–		<300.0	U	–		–		490	J+	–		–		<300.0	U	–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		50	J	–		–		–		–		–		<150	U	–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<18.0	U			–		<300.0	U			–		–	R			–		220	J+			–		280	J+			–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		56	J	–		–		<140	UJ	–		–		87	J	–		–		<140	UJ	–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<18.0	U			–		190	J			–		<300.0	U			–		240	J			–		240	J+			–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		59	J	–		–		<120	U	–		–		110	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<18.0	U			–		150	J			–		<300.0	U			–		250	J			–		<300.0	U			–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		91	J	–		–		<110	U	–		–		130	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<18	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		84	J	–		–		<120	U	–		–		130	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		130	J	–		–		<110	U	–		–		180	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–		<300	UJ	–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		86	J	–		–		<120	U	–		–		110	J	–		–		<150	U	–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		150	J	–		–		290	J	–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		81	J	–		–		<120	U	–		–		170	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–		<300	U	–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		78	J	–		–		<110	U	–		–		150	J	–		–		<140	U	–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–	–	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		<8.7	U	–		–		230	J	–		–		<120	U	–		–		450		–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		<8.7	U	–		–		39	J	–		–		<120	U	–		–		170	J	–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		<8.7	U	–		–		250	J	–		–		<120	U	–		–		450		–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	–		<8.7	U	–		–		60	J	–		–		<150	U	–		–		150	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		<8.7	U	–		–		63	J	–		–		<150	U	–		–		150	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		<8.7	U	–		–		37	J	–		–		<150	U	–		–		230	J	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		4	J	–		–		64	J	–		–		<110	U	–		–		120	J	–		–		<140	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<140	U	–		–		180	J	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		<8.7	U	–		–		79	J	–		–		<110	U	–		–		140	J	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		170	J	–		–		<140	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		4		ND		190		250		1500		ND		ND		280		490		450		1200		290		ND		420	
Maximum After 11/4/2022							–		–		ND		–		–		96		–		–		ND		–		–		200		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		<8.7	U	–		–		170	J	–		–		<120	U	–		–		290	J	–		–		<140	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		<8.7	U	–		–		60	J	–		–		<150	U	–		–		160	J	–		–		<150	U	–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		<8.7	U	–		–		72.2	J	–		–		<121	U	–		–		185	J	–		–		<152	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		<8.7	U	–		–		59.5	J	–		–		<119	U	–		–		146	J	–		–		<149	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		<8.7	U	–		–		187	J	–		–		<150	U	–		–		234	J	–		–		<150	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–	R	–		–		131	J	–		–		–	R	–		–		129	J	–		–		–	R	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		<8.7	U	–		–		98.5	J	–		–		<152	U	–		–		<152	U	–		–		<152	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		<8.7	U	–		–		46.8	J	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		<8.7	U	–		–		41.1	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<310	UJ	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		<120	U	–		–		–		–		–		<350	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		<80	UJ	–		–		99	J	–		–		<100	U	–		–		<310	U	–		–		<310	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		<100	U	–		–		480		–		–		420	J+
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		<80	UJ	–		–		200		–		–		<100	U	–		–		360		–		–		<310	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		66	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		1500		–		–		280		–		–		1200		–		–		260	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<78	U	–		–		–		–		–		<230	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<84	U	–		–		–		–		–		<250	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		96	J	–		–		<100	U	–		–		200	J	–		–		<300	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							16100		0.014		–		–		ND	
Maximum After 11/4/2022							3100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	510	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	1100		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	16100		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	280	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	280	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	360	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	130	J-	–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	560	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	370	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	1200		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	2400	J	–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	390	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	380	J	<0.0050	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	570		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	450	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	910		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	560		<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	410	J	<0.0049	UJ	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	470	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	410	J	<0.0048	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	590		<0.0049	U	–		–		<1.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							16100		0.014		–		–		ND	
Maximum After 11/4/2022							3100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	420	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	630		<0.0048	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	735		<0.00481	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	342	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	312	J	<0.0048	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	369	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	631		<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	471	J	<0.0048	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	409	J	–	R	–		–		–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	1110		<0.00499	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	450	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	415	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	325	J	<0.0049	U	–		–		<1.16	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	690	J	<0.0058	U	–		–		<1.3	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	710	J	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	670	J	<0.0056	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	1900		<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	430	J	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	630	J	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	410	J	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	610	J	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	3200		0.014		–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	540	J	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	3100		<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		3.3		ND		–		630		ND		–		43		–		–		1400		ND		–		160		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		<150	U	–		–		<120	U	–		–		150	J	–		–		<150	U	–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	–		<8.7	U	–		–		630		–		–		43	J	–		–		1400		–		–		160	J	–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	–		<8.7	U	–		–		63	J	–		–		<150	U	–		–		130	J	–		–		<150	U	–	
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–		3.3	J	–		–		160	J	–		–		<150	U	–		–		340		–		–		<150	U	–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–		<8.7	U	–		–		91	J-	–		–		–		–		–		460	J-	–		–		–		–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		90	J	–		–		<150	U	–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		<8.7	U	–		–		82	J	–		–		<110	U	–		–		88	J	–		–		<140	U	–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		<141	U	–		–		<113	U	–		–		<141	U	–		–		<141	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		76.3	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW06

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		3.3		ND		–		630		ND		–		43		–		–		1400		ND		–		160		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		<149	U	–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		<8.7	U	–		–		64.2	J	–		–		<119	U	–		–		151	J	–		–		<149	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		<8.7	U	–		–		288	J	–		–		<119	U	–		–		447		–		–		<149	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<81	U	–		–		–		–		–		<240	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<85	U	–		–		–		–		–		<250	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

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Groundwater Sampling: RHMW06

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	1760		0.014		–		–		13	
							Maximum After 11/4/2022	790		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		430	J	–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		<500	U	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		280	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		830		<0.02	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		480	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		420	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		<500	U	<0.0048	U	–		–		<1.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		370	J	<0.005	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		330	J	<0.0048	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		300	J	<0.0047	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		210	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		170	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		350	J	<0.005	U	–		–		<1.2	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		380	J	<0.0049	U	–		–		<1.2	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		245	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		204	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		371	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		198	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		553		<0.0049	U	–		–		4.63	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		247	J	<0.0049	U	–		–		<1.16	U

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Groundwater Sampling: RHMW06

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1760		0.014		–		–		13	
Maximum After 11/4/2022							790		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	348	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	222	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	283	J	<0.00481	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	1760		<0.0049	U	–		–		13	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	465	J	<0.0049	U	–		–		<1.16	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	410	J	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	500	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	–	R	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	430	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	520	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<1000	U	<0.0056	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	500	J	0.014		–		–		0.77	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	410	J	<0.0057	U	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	460	J	<0.0058	UJ	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	790	J	<0.0058	UJ	–		–		<1.3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	760	J	<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		12.9		ND		–		1430		ND		–		ND		–		–		979		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		<150	U	–		–		<120	U	–		–		–		<150	U	–		<150	U	–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–	–	–		–		–	–	–		–		–	–	–		–		–	–	–		–		–	–	–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		<8.7	U	–		–		280	J-	–		–		–	R	–		–		240	J-	–		–		–	R	–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		<8.7	U	–		–		70	J-	–		–		–	R	–		–		–	R	–		–		–	R	–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		<8.7	U	–		–		350		–		–		<120	U	–		–		670		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	–		<8.7	U	–		–		420		–		–		<120	U	–		–		480		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		<8.7	U	–		–		450		–		–		<120	U	–		–		650		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	–		<8.7	U	–		–		54	J	–		–		<140	U	–		–		140	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		<8.7	U	–		–		69	J	–		–		<140	U	–		–		160	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<8.7	U	–		–		250	J	–		–		<120	U	–		–		510		–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<140	U	–		–		130	J	–		–		<140	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<8.7	U	–		–		110	J	–		–		<120	U	–		–		190	J	–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<8.7	U	–		–		67	J	–		–		<120	U	–		–		160	J	–		–		<150	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		100	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		120	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		<8.7	U	–		–		70	J	–		–		<110	U	–		–		230	J	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		<8.7	U	–		–		44	J	–		–		<150	U	–		–		130	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		<8.7	U	–		–		47	J	–		–		<120	U	–		–		150	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		117	J	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		1430		–		–		<118	U	–		–		920		–		–		<147	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		12.9	J	–		–		800		–		–		<150	U	–		–		979		–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<149	U	–		–		81.6	J	–		–		<149	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		12.9		ND		–		1430		ND		–		ND		–		–		979		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		143	J	–		–		<115	U	–		–		287	J	–		–		<144	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		86.7	J	–		–		<119	U	–		–		151	J	–		–		<149	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		43.3	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<78	U	–		–		–		–		–		<230	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<85	U	–		–		–		–		–		<250	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							2300		ND		–		–		66.5	
Maximum After 11/4/2022							1300		ND		–		–		1.8	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	420	J	–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	530	J	–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	1300		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	750		<0.0049	U	–		–		0.71	J
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	990		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	2300		<0.0048	U	–		–		0.73	J
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	1300		<0.0050	U	–		–		10	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	1100		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	680	J+	<0.0048	U	–		–		<1.2	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	730		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	630		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	630		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	580		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	530		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	570		<0.0049	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	1100		<0.0048	U	–		–		<1.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	723		<0.0049	U	–		–		44.3	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	536		<0.0049	U	–		–		1.66	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	1440		<0.00481	U	–		–		6.09	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	922		<0.0049	U	–		–		1.6	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							2300		ND		–		–		66.5	
Maximum After 11/4/2022							1300		ND		–		–		1.8	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	614		<0.0049	U	–		–		1.12	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	573		<0.0049	U	–		–		66.5	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	577		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	636		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	567		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	584		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	656		<0.0049	U	–		–		<1.16	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	560	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	520	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	560	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	1000	J	<0.0057	U	–		–		0.73	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	690	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	730	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	500	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	460	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	970	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	500	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	650	J	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	1000	J	<0.0057	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	790	J	<0.0057	U	–		–		0.75	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	760	J	<0.0058	UJ	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	1100	J	<0.0058	U	–		–		<1.3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	1300	J	<0.0057	U	–		–		1.8	J

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.12		ND		–		680		170		–		ND		ND		–		1400		240		–		110		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		<140	U	–		–		<120	U	–		–		<140	U	–		–		<140	U	–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	–		<8.7	U	–		–		680	J-	–		–		<120	UJ	–		–		1400	J-	–		–		110	J-	–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	–		<8.7	U	–		–		280	J	–		–		<140	U	–		–		490		–		–		73	J	–	
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<120	U	–		–		140	J	–		–		<140	U	–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		250	J	–		–		<150	U	–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		160	J	–		–		<150	U	–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		<8.7	U	–		–		430		–		–		<140	U	–		–		480		–		–		<140	U	–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		<8.7	U	–		–		70	J	–		–		<110	U	–		–		170	J	–		–		<140	U	–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		<8.7	U	–		–		37	J	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		<8.7	U	–		–		51	J	–		–		<150	U	–		–		140	J	–		–		<150	U	–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		<8.7	U	–		–		70	J	–		–		<119	U	–		–		115	J	–		–		<148	U	–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		<147	U	–		–		<147	U	–		–		<147	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		<8.7	U	–		–		46.5	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		<8.7	U	–		–		166	J	–		–		<120	U	–		–		271	J	–		–		<150	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		<8.7	U	–		–		172	J	–		–		<141	U	–		–		172	J	–		–		<141	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		<8.7	U	–		–		156	J	–		–		<144	U	–		–		434		–		–		<144	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		<8.7	U	–		–		44.1	J	–		–		<149	U	–		–		236	J	–		–		<149	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		2.12	J	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<330	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.12		ND		–		680		170		–		ND		ND		–		1400		240		–		110		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<86	U	–		–		–		–		–		<260	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		**170**		–		–		<80	U	–		–		**240**	**J**	–		–		<240	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							9100		0.024		–		–		3.1	
Maximum After 11/4/2022							1000		0.0072		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	220	J	–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	1100		<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	9100		<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	350	J	<0.0047	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	660		<0.0048	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	770		<0.005	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	260	J	<0.0048	U	–		–		<1.2	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	880		<0.0048	UJ	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	280	J	<0.005	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	455	J	<0.0049	U	–		–		3.1	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	245	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	286	J	<0.00481	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	401	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	1540		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	1090		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	1300		<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	242	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	314	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	255	J	<0.00481	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	427	J	<0.0049	U	–		–		<1.16	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	590	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	540	J	<0.0057	U	–		–		3	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	450	J	<0.0058	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	480	J	<0.0061	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	410	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	670	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							9100		0.024		–		–		3.1	
Maximum After 11/4/2022							1000		0.0072		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	8400		0.024		–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	490	J	0.0072	J	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	1000	J	<0.0057	U	–		–		<1.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	420	J	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.84		ND		–		510		76		–		ND		ND		–		620		210		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		220	J-	–		–		<110	UJ	–		–		170	J-	–		–		<140	UJ	–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		230	J-	–		–		<110	UJ	–		–		160	J-	–		–		<140	UJ	–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	–		<8.7	U	–		–		<160	U	–		–		<120	U	–		–		100	J	–		–		<160	U	–	
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		<8.7	U	–		–		510		–		–		<150	U	–		–		620		–		–		<150	U	–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<110	U	–		–		140	J	–		–		<140	U	–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		<8.7	U	–		–		97	J	–		–		<110	U	–		–		140	J	–		–		<140	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		<8.7	U	–		–		140	J	–		–		<110	U	–		–		290	J	–		–		<140	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		<8.7	U	–		–		170	J	–		–		<110	U	–		–		250	J	–		–		<140	U	–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		<8.7	U	–		–		57	J	–		–		<110	U	–		–		190	J	–		–		<140	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<8.7	U	–		–		248	J	–		–		<143	U	–		–		372		–		–		<143	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<8.7	U	–		–		291	J	–		–		<120	U	–		–		453		–		–		<150	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		2.11	J	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<8.7	U	–		–		48.8	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.84		ND		–		510		76		–		ND		ND		–		620		210		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		2.84	J	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<83	U	–		–		–		–		–		<250	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		76	J	–		–		<83	UJ	–		–		210	J	–		–		<250	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							5300		ND		–		–		2	
Maximum After 11/4/2022							380		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	5300		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	460	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	390	J	<0.005	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	300	J	<0.0048	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	320	J	<0.005	U	–		–		0.72	J
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	370	J	<0.0049	U	–		–		0.72	J
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	350	J	<0.0048	U	–		–		<1.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	340	J	<0.005	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	368	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	252	J	<0.0047	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	250	J	<0.0048	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	266	J	<0.00499	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	279	J	<0.00499	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	284	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	284	J	–	R	–		–		–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	277	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	294	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	300	J	<0.0049	U	–		–		<1.16	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	276	J	<0.0049	U	–		–		<1.16	U

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						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		–		–		ND	
						Maximum Before 11/5/2022	5300		ND		–		–		2	
						Maximum After 11/4/2022	380		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	**440**	**J**	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<1000	U	<0.0057	U	–		–		**2**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	**390**	**J**	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	**257**	**J**	<0.0049	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	**380**	**J**	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	**560**	**J**	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	**380**	**J**	<0.0057	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK3	11/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		2.83		ND		–		1000		ND		–		ND		–		–		682		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		66		–		–		ND		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	–		2.8	J	–		–		44	J	–		–		–	U	–		–		140	J	–		–		<150	U	–	
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		<8.7	U	–		–		200	J	–		–		<120	U	–		–		300		–		–		<150	U	–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		<8.7	U	–		–		360		–		–		<140	U	–		–		480		–		–		<140	U	–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		130	J	–		–		<150	U	–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		BROKEN		–		–		360		–		–		<140	U	–		–		460		–		–		<140	U	–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		110	J	–		–		<140	U	–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		<8.7	U	–		–		44	J	–		–		<110	U	–		–		150	J	–		–		<140	U	–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<120	U	–		–		110	J	–		–		<150	U	–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		<8.7	U	–		–		51.3	J	–		–		<120	U	–		–		156	J	–		–		<150	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		135	J	–		–		<118	U	–		–		294	J	–		–		<148	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		1000		–		–		<120	U	–		–		682		–		–		<150	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		43.7	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		<8.7	U	–		–		45.1	J	–		–		<119	U	–		–		<149	U	–		–		<149	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		2.83	J	–		–		209	J	–		–		<150	U	–		–		346		–		–		<150	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		2.83		ND		–		1000		ND		–		ND		–		–		682		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		66		–		–		ND		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<98	U	–		–		–		–		–		<290	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<87	U	–		–		–		–		–		<260	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		66	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1500		ND		–		–		4	
Maximum After 11/4/2022							670		ND		–		–		0.99	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	390	J	<0.0050	U	–		–		1.8	J
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	400	J	<0.0050	U	–		–		2.1	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	370	J	<0.0049	U	–		–		4	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	410	J	<0.0047	U	–		–		1.3	J
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	1500		<0.0049	U	–		–		0.93	J
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<500	U	<0.0049	U	–		–		2.3	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	550		BROKEN		–		–		BROKEN	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	370	J	<0.005	U	–		–		1.8	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	360	J	<0.0048	U	–		–		1.2	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	340	J	<0.005	U	–		–		1.7	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	290	J	<0.0049	U	–		–		0.75	J
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	370	J	<0.0049	U	–		–		1.4	J
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	370	J	<0.0049	U	–		–		2.7	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	332	J	<0.00481	U	–		–		1.78	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	309	J	<0.00481	U	–		–		0.752	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	342	J	<0.00481	U	–		–		1.79	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	307	J	<0.00481	U	–		–		1.69	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	314	J	<0.0049	U	–		–		<1.16	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	328	J	<0.0049	U	–		–		1.29	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	337	J	<0.00481	U	–		–		2.03	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	342	J	<0.00499	U	–		–		0.875	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	310	J	<0.00481	U	–		–		1.14	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	338	J	<0.00481	U	–		–		1.48	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	349	J	<0.0049	U	–		–		<1.16	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	410	J	<0.0058	U	–		–		<1.3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	640	J	<0.0057	U	–		–		0.89	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.63	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	380	J	<0.0057	U	–		–		1.6	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	440	J	<0.0057	U	–		–		<1.3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	650	J	<0.0057	U	–		–		1.2	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	570	J	<0.0057	U	–		–		0.79	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	430	J	<0.0058	U	–		–		0.84	J
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	368	J	<0.0049	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		1	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	<1000	U	<0.0057	U	–		–		0.94	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	480	J	<0.0057	U	–		–		1	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.94	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1500		ND		–		–		4	
Maximum After 11/4/2022							670		ND		–		–		0.99	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	480	J	<0.0058	U	–		–		1	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	550	J	<0.0058	U	–		–		<1.3	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.99	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	640	J	<0.0057	U	–		–		0.68	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	670	J	<0.0057	U	–		–		0.81	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		50		–		65.2		62		–		ND		ND		–		216		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		<8.7	U	–		–		39	J	–		–		<120	U	–		–		<140	U	–		–		<140	U	–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		<8.7	U	–		–		50	J	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		<8.7	U	–		–		40	J	–		–		<110	U	–		–		130	J	–		–		<140	U	–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<119	U	–		–		216	J	–		–		<149	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		<8.7	U	–		–		46	J	–		–		<119	U	–		–		155	J	–		–		<149	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		<8.7	U	–		–		65.2	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		<8.7	U	–		–		<141	U	–		–		–		–		–		<141	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	–		–		50	J	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		50		–		65.2		62		–		ND		ND		–		216		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<330	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<82	U	–		–		–		–		–		<250	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		62	J	–		–		<83	U	–		–		<250	U	–		–		<250	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<290	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<110	UJ	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1100		ND		–		–		94	
Maximum After 11/4/2022							700		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	530		<0.0049	U	–		–		94	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	630		<0.0048	U	–		–		2.7	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	350	J	<0.0049	U	–		–		15	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	430	J	<0.0049	U	–		–		1.4	J
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	490	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	500	J	<0.0049	UJ	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	400	J	<0.0048	U	–		–		0.82	J
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	370	J	<0.0048	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	400	J	<0.0048	U	–		–		<1.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	373	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	348	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	412	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	301	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/1/2022	Primary	V	312	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/1/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/10/2022	Primary	V	293	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/10/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/15/2022	Primary	V	324	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/15/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/22/2022	Primary	V	359	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/22/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	6/30/2022	Primary	V	351	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	6/30/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/6/2022	Primary	V	354	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/6/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2208WK1	7/12/2022	Primary	V	379	J	<0.0049	U	–		–		<1.16	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	7/12/2022	Primary	V	–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	440	J	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	400	J	<0.0059	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	440	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<1000	U	<0.0057	U	–		–		1.6	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	540	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	600	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	454	J	<0.00481	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		<1.3	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	410	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	1100		ND		–		–		94	
							Maximum After 11/4/2022	700		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		1100	J	<0.0058	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		620	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		440	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		650	J	<0.0057	U	–		–		<1.3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		700	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		139		ND		–		640		ND		–		ND		–		–		620		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		<150	UJ	–		–		–		–		–		<150	UJ	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	–		139		–		–		640		–		–		<120	U	–		–		620		–		–		<150	U	–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		<8.7	U	–		–		50	J	–		–		<150	U	–		–		210	J	–		–		<150	U	–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		<8.7	U	–		–		38	J	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		<8.7	U	–		–		100	J	–		–		<120	U	–		–		200	J	–		–		<150	U	–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		<8.7	U	–		–		38	J	–		–		<147	U	–		–		164	J	–		–		<147	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		<8.7	U	–		–		<141	U	–		–		–		–		–		<141	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		<8.7	U	–		–		<142	U	–		–		–		–		–		<142	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–	R	–		–		–	R	–		–		–		–		–		–	R	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		<8.7	U	–		–		<152	U	–		–		<152	U	–		–		<152	U	–		–		<152	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		139		ND		–		640		ND		–		ND		–		–		620		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<84	U	–		–		–		–		–		<250	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<86	U	–		–		–		–		–		<260	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	4600		ND		–		–		ND	
							Maximum After 11/4/2022	590		0.005		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V		200	J	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V		850		<0.0049	U	–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V		4600		<0.0050	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V		240	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V		250	J	<0.0048	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V		240	J	<0.0047	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V		<500	U	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V		320	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V		250	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V		240	J	<0.0048	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V		240	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V		250	J	<0.005	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V		270	J	<0.005	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V		250	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		254	J	<0.0049	U	–		–		<1.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		210	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		195	J	<0.0048	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		324	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		1280		<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		278	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		223	J	–	R	–		–		–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		212	J	<0.00499	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		212	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		281	J	<0.00481	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		207	J	<0.0049	U	–		–		<1.16	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V		<1000	U	<0.0059	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V		680	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V		420	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V		1100	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V		440	J	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V		<1000	U	<0.0059	U	–		–		<1.3	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		252	J	<0.0050	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		–		–		–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW14-03

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	4600		ND		–		–		ND	
							Maximum After 11/4/2022	590		0.005		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V		560	J	<0.0058	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V		420	J	<0.0057	U	–		–		<1.3	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V		590	J	0.005	J	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		–		207		59		–		ND		ND		–		317		150		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		67		–		–		ND		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		<8.7	U	–		–		–	R	–		–		<120	U	–		–		–	R	–		<160	U	–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		<8.7	U	–		–		46	J	–		–		<120	U	–		–		87	J	–		<140	U	–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	–		<8.7	U	–		–		<170	U	–		–		–		–		–		<170	U	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		<150	U	–		–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		98	J	–		<150	U	–		–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		<8.7	U	–		–		41	J	–		–		<140	U	–		–		210	J	–		<140	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		<150	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		<8.7	U	–		–		100	J	–		–		<120	U	–		–		220	J	–		<150	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		<8.7	U	–		–		128	J	–		–		<147	U	–		–		317		–		–		<147	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		<150	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		41.9	J	–		–		<149	U	–		–		<149	U	–		<149	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		<142	U	–		–		–		–		–		<142	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		<8.7	U	–		–		53.4	J	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		<8.7	U	–		–		207	J	–		–		<149	U	–		–		54.4	J	–		<149	U	–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		<150	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		–		207		59		–		ND		ND		–		317		150		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		67		–		–		ND		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<120	U	–		–		–		–		–		<350	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<81	U	–		–		–		–		–		<240	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		59	J	–		–		<77	U	–		–		150	J	–		–		<230	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	–		–		<80	U	–		–		<84	U	–		–		–		–		–		<250	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	–		–		<80	U	–		–		67	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							4500		ND		–		–		ND	
Maximum After 11/4/2022							1100		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	4500		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	240	J	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	190	J	<0.0043	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	2600	J-	<0.0050	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	1600		<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	1400		<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	290	J	<0.0048	U	–		–		<1.2	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	240	J	<0.0048	UJ	–		–		BROKEN	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	270	J	<0.005	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	340	J	<0.005	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	248	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	231	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	213	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	245	J	<0.00481	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	393	J	<0.00499	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	241	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	251	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	273	J	<0.0049	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	3030		<0.005	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	309	J	<0.0048	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	253	J	<0.00481	U	–		–		<1.16	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	650	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	560	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	420	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	480	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	630	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	282	J	<0.0049	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		–		–		ND	
						Maximum Before 11/5/2022	4500		ND		–		–		ND	
						Maximum After 11/4/2022	1100		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	**410**	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	**810**	J	<0.0058	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	**1100**	J	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	**570**	J	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
CAS No.							PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
Method							8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
DOH Tier 1 EAL							300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum Before 11/5/2022							–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
Maximum Before 11/5/2022							–	ND	ND	–	310	ND	–	ND	–	–	390	ND	–	ND	–
Maximum After 11/4/2022							–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–	–	–	–	73 J	–	–	<120 U	–	–	320	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	–	<8.7 U	–	–	310	–	–	<110 U	–	–	390	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–	–	<150 U	–
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–	<8.7 U	–	–	41 J	–	–	<110 U	–	–	<140 U	–	–	<140 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	<110 U	–	–	110 J	–	–	<140 U	–
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–	<8.7 U	–	–	38 J	–	–	<110 U	–	–	130 J	–	–	<140 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–	<8.7 U	–	–	<140 U	–	–	–	–	–	<140 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–	<8.7 U	–	–	140 J	–	–	<150 U	–	–	280 J	–	–	<150 U	–
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–	<8.7 U	–	–	<150 U	–	–	<150 U	–	–	93 J	–	–	<150 U	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–	<8.7 U	–	–	<147 U	–	–	–	–	–	<147 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	–	–	–	<150 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	<8.7 U	–	–	<143 U	–	–	–	–	–	<143 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	– R	–	–	243 J	–	–	– R	–	–	364 J-	–	–	– R	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	<8.7 U	–	–	<149 U	–	–	<119 U	–	–	<149 U	–	–	<149 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	<8.7 U	–	–	<150 U	–	–	<120 U	–	–	<150 U	–	–	<150 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	<8.7 U	–	–	<152 U	–	–	<121 U	–	–	<152 U	–	–	<152 U	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	<8.7 U	–	–	<149 U	–	–	–	–	–	<149 U	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		310		ND		–		ND		–		–		390		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<310	UJ	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		<8.7	U	–		–		128	J	–		–		<153	U	–		–		252	J	–		–		<153	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<98	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<97	U	–		–		–		–		–		<290	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<81	U	–		–		–		–		–		<240	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	500		ND		–		–		ND	
							Maximum After 11/4/2022	ND		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V		210	J	–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V		170	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V		190	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V		180	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V		270	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V		280	J	<0.005	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V		220	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V		240	J	<0.005	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V		280	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V		270	J	<0.0048	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V		280	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V		500	U	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V		200	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V		270	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		271	J	<0.0049	U	–		–		<1.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		217	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		206	J	<0.0048	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		212	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		222	J	<0.00499	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		271	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		217	J	–	R	–		–		–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		252	J	<0.00499	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		234	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		249	J	<0.0048	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		204	J	<0.0049	U	–		–		<1.16	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V		380	J	<0.0058	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
						Method	–		8011		8015C - DAI		8270D		SW8015M	
						DOH Tier 1 EAL	–		0.04		–		800		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		–		–		ND	
						Maximum Before 11/5/2022	500		ND		–		–		ND	
						Maximum After 11/4/2022	ND		ND		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	**430**	J	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	**490**	J	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	**430**	J	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	**400**	J	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	**383**	J	<0.0049	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		<1.3	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		5.19		ND		–		202		370		–		ND		76		–		495		460		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		5.19	J	–		–		202	J	–		–		<119	U	–		–		495		–		–		<149	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		58.9	J	–		–		<149	U	–		–		99	J	–		–		<149	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		113	J	–		–		<120	U	–		–		237	J	–		–		<150	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		370		–		–		<100	U	–		–		460		–		–		<310	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		<80	U	–		–		100	J	–		–		76	J	–		–		<300	U	–		–		<300	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	–		–		<80	U	–		–		86	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	UJ	–		–		<98	U	–		–		–		–		–		<290	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<79	U	–		–		–		–		–		<240	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		<98	U	–		–		<300	UJ	–		–		<290	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							13000		0.015		–		–		ND	
Maximum After 11/4/2022							940		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	1460		<0.00481	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	806		<0.005	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	868		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	754		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	1000		<0.0049	U	–		–		<1.16	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	13000		<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	1400	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	580	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	570	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	620	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	680	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	560	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	710	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	1600		<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	450	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	540	J	<0.0057	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	560	J	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0056	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	620	J	0.015		–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	870	J	<0.0059	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	940	J	<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.3		ND		–		630		73		–		63		ND		–		588		170		–		180		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		82	J	–		–		<120	U	–		–		380		–		–		<150	U	–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–		<8.7	U	–		–		72	J	–		–		<150	U	–		–		160	J	–		–		<150	U	–	
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–		<8.7	U	–		–		260	J	–		–		<150	U	–		–		540		–		–		89	J	–	
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–		<8.7	U	–		–		48	J	–		–		<120	U	–		–		170	J	–		–		<150	U	–	
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–		<8.7	U	–		–		43	J	–		–		<120	U	–		–		170	J	–		–		130	J	–	
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–		2.3	J	–		–		170	J	–		–		<110	U	–		–		490		–		–		180	J	–	
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		110	J	–		–		<140	U	–	
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		<8.7	U	–		–		100	J	–		–		63	J	–		–		63	J	–		–		<140	U	–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		<8.7	U	–		–		258	J	–		–		<119	U	–		–		411		–		–		<148	U	–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		<147	U	–		–		<147	U	–		–		<147	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		<8.7	U	–		–		118	J	–		–		<141	UJ	–		–		308	J-	–		–		72.7	J	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		<8.7	U	–		–		94.8	J	–		–		<150	U	–		–		218	J	–		–		115	J	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		<8.7	U	–		–		45.2	J	–		–		<150	U	–		–		99.7	J	–		–		<150	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		<8.7	U	–		–		630		–		–		<119	U	–		–		588		–		–		<149	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.3		ND		–		630		73		–		63		ND		–		588		170		–		180		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		**73**	**J**	–		–		<81	U	–		–		**170**	**J**	–		–		<240	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		<80	U	–		–		<80	U	–		–		–		–		–		<240	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	3100		ND		–		–		ND	
							Maximum After 11/4/2022	480		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V		580	J	–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V		3100		<0.0047	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V		740		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V		<500	U	<0.0048	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V		2200		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V		320	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V		730		<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V		700		<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V		320	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V		280	J	<0.0048	UJ	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V		240	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V		260	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V		280	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V		300	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V		330	J	<0.005	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V		450	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		255	J	<0.0049	U	–		–		<1.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		520		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		326	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		248	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		577		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		408	J	<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		432	J	<0.00481	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		285	J	<0.00499	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		525		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		295	J	<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		582		<0.0049	U	–		–		<1.16	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V		390	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V		490	J	<0.0057	U	–		–		<1.3	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V		570	J	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V		430	J	<0.0059	U	–		–		<1.3	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V		450	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V		430	J	<0.0057	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							3100		ND		–		–		ND	
Maximum After 11/4/2022							480		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	520	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<1000	U	<0.00085	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	690	J	<0.0056	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	510	J	<0.0058	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	480	J	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<1000	U	<0.0057	UJ	–		–		<1.3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		159		83		ND		142000		90		ND		140000		ND		ND		580		730		ND		230		660	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		–		<300.0	U	–		–		<300	UJ	–		–		<300	UJ	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–				–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<18.0	U			–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U			–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		<140	U	–		–		<140	U	–		–		170	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<18.0	U			–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–		<300	UJ	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		43	J	–		–		<110	U	–		–		<140	U	–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<90	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		87	J	–		–		<120	U	–		–		370		–		–		<140	U	–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–		<300	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		2.8	J	–		–		640		–		–		<120	U	–		–		580		–		–		<150	U	–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		159		–		–		142000		–		–		140000		–		–		530		–		–		<1500	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	–		<8.7	U	–		–		150	J	–		–		60	J	–		–		100	J	–		–		<140	U	–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		44		–		–		1800		–		–		1400		–		–		180	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	–		47		–		–		1500		–		–		1300		–		–		180	J	–		–		100	J	–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	–		59		–		–		2400		–		–		1800		–		–		540		–		–		230	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		44		–		–		1200		–		–		730		–		–		170	J	–		–		98	J	–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	–		<8.7	U	–		–		250	J	–		–		87	J	–		–		170	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		3.7	J	–		–		1100		–		–		680		–		–		320		–		–		220	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		18	J	–		–		930		–		–		480		–		–		300	J	–		–		200	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<8.7	U	–		–		150	J	–		–		<140	U	–		–		<140	U	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		46		–		–		2300		–		–		1800		–		–		580		–		–		150	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		92		–		–		1600		–		–		960		–		–		290	J	–		–		150	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		<120	U	–		–		170	J	–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		18	J	–		–		1500		–		–		790		–		–		280	J	–		–		150	J	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		20		–		–		1600		–		–		900		–		–		320		–		–		180	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<8.7	U	–		–		270	J	–		–		46	J	–		–		130	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<8.7	U	–		–		310		–		–		74	J	–		–		240	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		2.6	J	–		–		370		–		–		74	J	–		–		340		–		–		120	J	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<8.7	U	–		–		590		–		–		<120	U	–		–		440		–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<8.7	U	–		–		690		–		–		390		–		–		220	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<8.7	U	–		–		91	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		159		83		ND		142000		90		ND		140000		ND		ND		580		730		ND		230		660	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–		<8.7	U	–		–		190	J	–		–		130	J	–		–		130	J	–		–		<140	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–		<8.7	U	–		–		130	J	–		–		30	J	–		–		280	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–		2.1	J	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–		<8.7	U	–		–		49	J	–		–		<110	U	–		–		180	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		<8.7	U	–		–		420		–		–		<140	U	–		–		580		–		–		<140	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		<8.7	U	–		–		160	J	–		–		<110	U	–		–		300	J	–		–		150	J	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		3.1	J	–		–		150	J	–		–		96	J	–		–		120	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		<8.7	U	–		–		130	J	–		–		<110	U	–		–		260	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		<8.7	U	–		–		250	J	–		–		<110	U	–		–		320		–		–		<140	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		94	J	–		–		<140	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		<8.7	U	–		–		380		–		–		230	J	–		–		210	J	–		–		79	J	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		<8.7	UJ	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		<8.7	U	–		–		48	J	–		–		29	J	–		–		180	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		2.4	J	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		3.45	J	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		97.3	J	–		–		28.4	J	–		–		281	J	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		159		83		ND		142000		90		ND		140000		ND		ND		580		730		ND		230		660	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		<8.7	U	–		–		88.4	J	–		–		<152	U	–		–		<152	U	–		–		<152	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<8.7	U	–		–		56.3	J	–		–		<155	U	–		–		191	J	–		–		<155	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		<8.7	U	–		–		<143	U	–		–		–		–		–		<143	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<8.7	U	–		–		<143	U	–		–		–		–		–		<143	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		2.26	J	–		–		51.7	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		<152	U	–		–		–		–		–		<152	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	–		–		64	J	–		–		90	J	–		–		<100	UJ	–		–		730	J-	–		–		660	J-
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		83	J	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–		–		<80	UJ	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	–		–		<80	UJ	–		–		68	J	–		–		<100	U	–		–		250	J	–		–		<310	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<96	U	–		–		–		–		–		<290	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		159		83		ND		142000		90		ND		140000		ND		ND		580		730		ND		230		660	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<97	U	–		–		–		–		–		<290	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<78	UJ	–		–		–		–		–		<230	UJ	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		<80	U	–		–		–		–		–		<240	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<80	U	–		–		–		–		–		<240	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							17600		ND		ND		ND		6.7	
Maximum After 11/4/2022							440		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<350	U	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	200	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	17600	J-	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	180	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	160	J-	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<350	UJ	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<350	UJ	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	130	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<350	U	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	240	J	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	3800		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	640		<0.0049	U	–		–		1.2	J
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	1000		<0.0049	U	–		–		1.2	J
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		<80	U	–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	1600		<0.0050	U	–		–		1.9	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		<80	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	780		<0.0051	U	–		–		1.6	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	1200		<0.0049	U	–		–		2.5	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<0.0049	U	–		–		2.5	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	810		<0.0050	U	–		–		2.2	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	2000		<0.0048	U	–		–		2.5	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	890		<0.0048	U	–		–		2.6	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	2500		<0.0048	U	–		–		1.8	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	1300		<0.0048	U	–		–		2.2	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	1500		<0.0049	U	–		–		2	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	1100		<0.0049	U	–		–		1.5	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	1400		<0.0049	U	–		–		6.7	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	750	J+	<0.02	U	–		–		2.4	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		<5000	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							17600		ND		ND		ND		6.7	
Maximum After 11/4/2022							440		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	400	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		<5000	U	–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	290	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	250	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	300	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	230	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	280	J	<0.0048	UJ	–		–		<1.2	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	270	J	<0.0049	UJ	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	330	J	<0.0048	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	390	J	<0.0048	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	240	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	330	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	250	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	260	J	<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	610		<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	620		<0.005	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	640		<0.005	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	380	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	424	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	235	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	255	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	221	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	291	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	255	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							17600		ND		ND		ND		6.7	
Maximum After 11/4/2022							440		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	291	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	223	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	269	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	233	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	315	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	227	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	468	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	246	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	317	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	273	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	286	J	<0.00481	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	290	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	276	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	254	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	417	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	240	J	<0.0049	U	–		–		<1.16	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	530	J	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	650	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	410	J	<0.0058	U	–		–		<1.3	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	610	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	400	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	460	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	1200	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	3800		<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	1900		<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	2700		<0.0059	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							17600		ND		ND		ND		6.7	
Maximum After 11/4/2022							440		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	440	J	<0.0057	U	–		–		<1.3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup		Total Organic Carbon	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC		–	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		–	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		–		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND	
Maximum Before 11/5/2022							ND		–		–		ND		260		–		ND		ND		–		540		530		–		370		ND		–		17300	
Maximum After 11/4/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		–		–		–		<300.0	U	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		370		–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	UJ	–		–		480	J+	–		–		<300.0	UJ	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	UJ	–		–		<400	U	–		–		<320	UJ	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		230	J	–		–		200	J	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<18.0	UJ	–		–		<300.0	U	–		–		<300	U	–		–		540		–		–		<300	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		480	J+	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		320		–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300	U	–		–		530		–		–		<300	U	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<18.0	U	–		–		<300	U	–		–		<300.0	U	–		–		480	J+	–		–		170	J+	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<18.0	U	–		–		<300	U	–		–		<300	U	–		–		320	J+	–		–		<300	UJ	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		270	J+	–		–		370	J	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<490	UJ	–		–		<300	U	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		<150	U	–		–		<120	U	–		–		–		<150	U	–		–		<150	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		<140	U	–		–		<110	U	–		–		–		<140	U	–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		<140	U	–		–		<110	U	–		–		–		<140	U	–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300	UJ	–		–		<350	U	–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	UJ	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		<140	UJ	–		–		–		–		–		100	J-	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		<140	UJ	–		–		–		–		–		<140	UJ	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		250	J	–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		17300	J-	–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300.0	U	–		–		230	J	–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<18.0	U	–		–		<300.0	U	–		–		<300.0	UJ	–		–		<300.0	U	–		–		<300.0	UJ	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		280	J-	–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<350	UJ	–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup		Total Organic Carbon	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC		–	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		–	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		–		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND	
Maximum Before 11/5/2022							ND		–		–		ND		260		–		ND		ND		–		540		530		–		370		ND		–		17300	
Maximum After 11/4/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		190	J
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<18	U	–		–		<300.0	U	–		–		<300.0	U	–		–		<300	U	–		–		<300.0	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		45	J	–		–		<110	U	–		–		120	J	–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		170	J
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		210	J	–		–		<120	U	–		–		390		–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		40	J	–		–		<110	U	–		–		230	J	–		–		<140	U	–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		260	J	–		–		<120	U	–		–		530		–		–		<140	U	–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		<300	U	–		–		190	J
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	<18	U	–		–		<300	U	–		–		<300	U	–		–		<300	UJ	–		–		<300	U	–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

						Analyte	1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane						
						CAS No.	106-93-4		112-34-5		111-77-3		74-82-8						
						Method	8011		8015C - DAI		8270D		SW8015M						
						DOH Tier 1 EAL	0.04		–		800		–						
						Units	µg/L		µg/L		µg/L		µg/L						
						Minimum Before 11/5/2022	–		–		–		–						
						Maximum Before 11/5/2022	–		–		–		–						
						Maximum After 11/4/2022	–		–		–		–						
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**						
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–						
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–						

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

						Analyte	1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane						
						CAS No.	106-93-4		112-34-5		111-77-3		74-82-8						
						Method	8011		8015C - DAI		8270D		SW8015M						
						DOH Tier 1 EAL	0.04		–		800		–						
						Units	µg/L		µg/L		µg/L		µg/L						
						Minimum Before 11/5/2022	–		–		–		–						
						Maximum Before 11/5/2022	–		–		–		–						
						Maximum After 11/4/2022	–		–		–		–						
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**						
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–						
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–						
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–						
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–						
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–						
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–						

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds fr

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DO

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sa

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. Th

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		120		–		420		ND		–		ND		–		–		270		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		420		–		–		<110	U	–		–		240	J	–		–		<140	U	–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		<8.7	U	–		–		97	J	–		–		<120	U	–		–		270	J	–		–		<150	U	–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	–		<8.7	U	–		–		130	J	–		–		<120	U	–		–		<160	U	–		–		<160	U	–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		99	J	–		–		<150	U	–	
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		<8.7	U	–		–		38	J	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		140	J	–		–		<140	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	–		–		120	J	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
CAS No.							PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
Method							8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
DOH Tier 1 EAL							300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum Before 11/5/2022							–	ND	ND	–	ND	ND	–	ND	–	–	ND	ND	–	ND	–
Maximum Before 11/5/2022							–	ND	120	–	420	ND	–	ND	–	–	270	ND	–	ND	–
Maximum After 11/4/2022							–	–	ND	–	–	ND	–	–	–	–	–	ND	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	–	–	<80 U	–	–	<110 U	–	–	–	–	–	<320 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	–	–	<80 U	–	–	<80 U	–	–	–	–	–	<240 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	–	–	<80 U	–	–	<84 U	–	–	–	–	–	<250 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	–	–	<80 UJ	–	–	<100 U	–	–	–	–	–	<310 U	–	–	–
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	–	–	<80 U	–	–	<100 U	–	–	–	–	–	<300 U	–	–	–

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1800		0.0075		–		–		ND	
Maximum After 11/4/2022							650		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	1800		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	520	J	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	240	J	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<500	U	<0.0050	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	350	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	320	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	200	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	320	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	320	J	<0.0049	UJ	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	330	J	<0.0048	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	260	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	190	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	460	J	<0.005	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	390	J	<0.0049	U	–		–		<1.2	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	376	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	350	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	328	J	<0.00481	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	318	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	374	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	334	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	364	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	308	J	<0.005	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	380	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	424	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	346	J	<0.0049	U	–		–		<1.16	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	530	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	470	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	630	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	660	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	710	J	<0.0057	UJ	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	710	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	820	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	830	J	<0.0057	U	–		–		<1.3	U

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Groundwater Sampling: OWDFMW01

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							1800		0.0075		–		–		ND	
Maximum After 11/4/2022							650		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	520	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	660	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	600	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	650	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	860	J	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	970	J	0.0075	J	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	570	J	<0.0058	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	650	J	<0.0057	UJ	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sump Sampling: Adit 3 Sump

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		44.1		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		650		ND		–		684000		240		–		668000		150		–		980		330		–		470		300	
Maximum After 11/4/2022							–		–		ND		–		–		120		–		–		83		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		253		–		–		684000		–		–		668000		–		–		980		–		–		<7100	U	–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	–		47		–		–		4700		–		–		4000		–		–		380		–		–		180	J	–	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	–		85		–		–		5500	J-	–		–		3700	J-	–		–		350	J-	–		–		–	R	–	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		78		–		–		2100		–		–		1500		–		–		470		–		–		160	J	–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		650		–		–		171000		–		–		154000		–		–		640		–		–		<730	U	–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		18	J	–		–		1500		–		–		780		–		–		330		–		–		<150	U	–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		16	J	–		–		1000		–		–		660		–		–		380		–		–		130	J	–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		7.7	J	–		–		670		–		–		260	J	–		–		300	J	–		–		<140	U	–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		3.7	J	–		–		320		–		–		160	J	–		–		120	J	–		–		<140	U	–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		27		–		–		3500		–		–		2300		–		–		880		–		–		470		–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		5.2	J	–		–		180	J	–		–		88	J	–		–		<140	U	–		–		<140	U	–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		12	J	–		–		1100		–		–		950		–		–		160	J	–		–		120	J	–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		3.2	J	–		–		140	J	–		–		65	J	–		–		<140	U	–		–		<140	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		4	J	–		–		110	J	–		–		61	J	–		–		130	J	–		–		<140	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		4.2	J	–		–		150	J	–		–		63	J	–		–		<140	U	–		–		<140	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		5.2	J	–		–		440		–		–		360		–		–		280	J	–		–		180	J	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		59	J	–		–		120	J	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		3.3	J	–		–		580		–		–		44	J	–		–		420		–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		<8.7	U	–		–		150	J	–		–		49	J	–		–		200	J	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		<8.7	U	–		–		60.8	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		66.6	J	–		–		<120	U	–		–		100	J	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		46.6	J	–		–		48.5	J	–		–		126	J	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		167	J	–		–		42.4	J	–		–		144	J	–		–		<150	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sump Sampling: Adit 3 Sump

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		44.1		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		650		ND		–		684000		240		–		668000		150		–		980		330		–		470		300	
Maximum After 11/4/2022							–		–		ND		–		–		120		–		–		83		–		–		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		<8.7	U	–		–		165	J	–		–		101	J	–		–		327		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		<8.7	U	–		–		57.8	J	–		–		29.3	J	–		–		<152	U	–		–		<152	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		<8.7	U	–		–		85.5	J	–		–		32.2	J	–		–		<150	U	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		<8.7	U	–		–		449	J	–		–		<121	U	–		–		586	J	–		–		<152	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		44.1	J	–		–		<119	U	–		–		<149	UJ	–		–		<149	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		76.2	J	–		–		<119	U	–		–		190	J	–		–		<149	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		48.8	J	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		2.09	J	–		–		55.3	J	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	–		–		<80	U	–		–		110		–		–		<100	U	–		–		<300	U	–		–		<300	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	–		–		<80	U	–		–		110	J-	–		–		<100	UJ	–		–		<310	UJ	–		–		<310	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	–		–		<80	UJ	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	–		–		<80	UJ	–		–		72	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		<80	UJ	–		–		80	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	–		–		<80	U	–		–		96	J	–		–		98	J	–		–		<310	U	–		–		<310	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		<80	UJ	–		–		240		–		–		150		–		–		330	J	–		–		300	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		<80	U	–		–		<98	U	–		–		–		–		–		<290	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		<80	U	–		–		110	J	–		–		<80	U	–		–		<240	U	–		–		<240	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		<80	U	–		–		<81	U	–		–		–		–		–		<240	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	–		–		<80	U	–		–		99	J	–		–		<100	U	–		–		<300	U	–		–		<300	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		<80	U	–		–		120		–		–		83	J	–		–		<310	U	–		–		<310	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sump Sampling: Adit 3 Sump

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane						
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8						
						Method	–		8011		8015C - DAI		8270D		SW8015M						
						DOH Tier 1 EAL	–		0.04		–		800		–						
						Units	µg/L		µg/L		µg/L		µg/L		µg/L						
						Minimum Before 11/5/2022	ND		ND		–		ND		ND						
						Maximum Before 11/5/2022	7000		0.018		–		32000		57						
						Maximum After 11/4/2022	400		ND		–		–		0.77						
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**						
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	410	J	<0.0049	U	–		–		50						
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	3300		<0.0050	U	–		–		34						
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		<80	U	–						
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		32000		–						
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	2100		<0.0049	U	–		–		5.9						
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	7000		<0.0048	U	–		–		2	J					
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	4600		<0.02	U	–		–		9.5						
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	2800	J	<0.0049	U	–		–		5.5						
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	2700		<0.02	U	–		–		6.3						
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	680		<0.005	U	–		–		2						
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	1100		<0.005	U	–		–		57						
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	610		<0.0049	U	–		–		2.2						
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	530		<0.0049	U	–		–		3.2						
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	490	J	<0.0049	UJ	–		–		2.7						
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	460	J	<0.0049	U	–		–		1.7	J					
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	520		<0.0048	U	–		–		1.5	J					
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	710		<0.0049	U	–		–		2.5						
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	540		<0.005	U	–		–		1.2	J					
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	510		<0.005	U	–		–		1.4	J					
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	410	J	<0.0048	U	–		–		1.3	J					
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	405	J	<0.0049	U	–		–		1.23	J					
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	363	J	<0.00481	U	–		–		1.44	J					
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	349	J	<0.00481	U	–		–		1.07	J					
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–						
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	577		<0.00481	U	–		–		1.96	J					

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Sump Sampling: Adit 3 Sump

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		ND		ND	
Maximum Before 11/5/2022							7000		0.018		–		32000		57	
Maximum After 11/4/2022							400		ND		–		–		0.77	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	347	J	<0.0049	U	–		–		1.42	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	338	J	<0.0049	U	–		–		1.68	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	394	J	<0.00481	U	–		–		1.26	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	388	J	<0.00499	U	–		–		1.47	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	332	J	<0.0049	U	–		–		1.33	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	406	J	<0.0049	U	–		–		1.24	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	351	J	<0.0049	U	–		–		1.37	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.82	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	520	J	<0.0058	U	–		–		0.68	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		0.82	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<1000	U	<0.0057	U	–		–		0.79	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<1000	UJ	<0.0058	UJ	–		–		<1.3	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	–	R	<0.0057	U	–		–		1.6	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	380	J	<0.0058	U	–		–		0.69	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	500	J	<0.0058	U	–		–		<1.3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	610	J	<0.0057	U	–		–		1.2	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<1000	U	<0.0056	U	–		–		1.6	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<1000	U	<0.0058	U	–		–		2.3	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		0.95	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	480	J	<0.0058	U	–		–		<1.3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	1900		0.018		–		–		<1.3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	470	J	<0.0058	U	–		–		2.1	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	400	J	<0.0057	UJ	–		–		0.77	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	380	J	<0.0057	U	–		–		0.77	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		–		180		160		–		ND		73		–		410		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		**160**	**J**	–		–		<140	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		<8.7	U	–		–		**49**	**J**	–		–		<140	U	–		–		**95**	**J**	–		–		<140	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		<8.7	U	–		–		**100**	**J**	–		–		<150	U	–		–		**270**	**J**	–		–		<150	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		<8.7	U	–		–		**180**	**J**	–		–		<120	U	–		–		**410**		–		–		<150	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		**100**	**J**	–		–		<140	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		<140	U	–		–		**110**	**J**	–		–		<140	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		<8.7	U	–		–		<152	U	–		–		–		–		–		<152	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<8.7	U	–		–		<152	U	–		–		–		–		–		<152	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		<8.7	U	–		–		**40.6**	**J**	–		–		<114	U	–		–		<143	U	–		–		<143	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		**40.5**	**J**	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<8.7	U	–		–		**44.4**	**J**	–		–		<150	U	–		–		**107**	**J**	–		–		<150	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		**86.7**	**J**	–		–		<149	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		<8.7	U	–		–		<136	U	–		–		–		–		–		<136	U	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		–		180		160		–		ND		73		–		410		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<8.7	U	–		–		<153	U	–		–		<153	U	–		–		52.8	J	–		–		<153	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	–		–		<80	U	–		–		160		–		–		<100	U	–		–		<300	U	–		–		<300	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	–		–		<80	U	–		–		<98	U	–		–		–		–		–		<290	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		<98	U	–		–		–		–		–		<290	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		<80	U	–		–		<93	U	–		–		–		–		–		<280	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<94	U	–		–		–		–		–		<280	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		<80	U	–		–		<83	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<83	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		<80	U	–		–		69	J	–		–		73	J	–		–		<250	U	–		–		<250	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		<80	U	–		–		–		–		–		<240	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		<80	U	–		–		<110	U	–		–		–		–		–		<320	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		<80	U	–		–		<99	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							470		ND		–		–		ND	
Maximum Before 11/5/2022							1400		0.011		–		–		ND	
Maximum After 11/4/2022							1300		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	780		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	1200		<0.0048	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	930		<0.005	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	870		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	900		<0.0049	UJ	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	890		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	910		<0.0048	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	870		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	930		<0.005	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	950		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	1200		<0.0049	U	–		–		<1.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	860		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	700		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	721		<0.00481	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	727		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	746		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	708		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	765		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	729		<0.00499	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	756		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							470		ND		–		–		ND	
Maximum Before 11/5/2022							1400		0.011		–		–		ND	
Maximum After 11/4/2022							1300		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	802		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	765		<0.0049	U	–		–		<1.16	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	670	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	1400	J	<0.0057	U	–		–		<1.3	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	840	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	1100	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	980	J	<0.0058	U	–		–		<1.3	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	830	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	1000	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	990	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	950	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	1100	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	690	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	660	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	710	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	520	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	990	J	0.011		–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	920	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	680	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	900	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	920	J	<0.0058	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	1300	J	<0.0057	U	–		–		<1.3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	1200	J	<0.0057	U	–		–		<1.3	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.58		ND		–		876		ND		–		ND		ND		–		677		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–		<8.7	U	–		–		57	J	–		–		<120	U	–		–		120	J	–		–		<150	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		93	J	–		–		<150	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–		<8.7	U	–		–		120	J	–		–		<110	U	–		–		240	J	–		–		<140	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		<8.7	U	–		–		210	J	–		–		<110	U	–		–		280	J	–		–		<140	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		<8.7	U	–		–		56	J	–		–		<110	U	–		–		140	J	–		–		<140	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		<8.7	U	–		–		100	J	–		–		<120	U	–		–		220	J	–		–		<150	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<8.7	U	–		–		876		–		–		<147	U	–		–		677		–		–		<147	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		2.58	J	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<8.7	U	–		–		<141	U	–		–		–		–		–		<141	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<8.7	U	–		–		<142	U	–		–		–		–		–		<142	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–		–		<149	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		–		<80	U	–		–		–	R	–		–		–		<100	U	–		–		–		–		<300	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND		–		ND		ND	
Maximum Before 11/5/2022							–		2.58		ND		–		876		ND		–		ND		ND		–		677		ND		–		ND		ND	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<100	UJ	–		–		–		–		–		<300	UJ	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<82	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		<80	U	–		–		<83	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
							CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8	
							Method	–		8011		8015C - DAI		8270D		SW8015M	
							DOH Tier 1 EAL	–		0.04		–		800		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		–		–		ND	
							Maximum Before 11/5/2022	630		0.011		–		–		10	
							Maximum After 11/4/2022	790		ND		–		–		0.63	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V		560		<0.0048	U	–		–		9.1	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V		630		<0.0048	U	–		–		10	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V		550		<0.005	U	–		–		9.9	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V		530		<0.0049	U	–		–		10	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V		440	J	<0.0049	UJ	–		–		1.7	J
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V		470	J	<0.0049	U	–		–		4.8	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V		440	J	<0.0048	U	–		–		3.2	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V		440	J	<0.0049	U	–		–		5	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V		470	J	<0.005	U	–		–		4	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V		480	J	<0.0048	U	–		–		4.4	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V		520		<0.0049	U	–		–		<1.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		448	J	<0.0049	U	–		–		4.66	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		369	J	<0.0048	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		386	J	<0.00481	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V		332	J	<0.0049	U	–		–		5.79	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		388	J	<0.0049	U	–		–		1.36	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		365	J	<0.00499	U	–		–		2.56	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		405	J	<0.00481	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		403	J	<0.0049	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		371	J	<0.0049	U	–		–		<1.16	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V		590	J	<0.0059	U	–		–		<1.3	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V		460	J	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V		450	J	<0.0058	U	–		–		1.2	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V		380	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V		500	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V		530	J	<0.0056	U	–		–		0.64	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V		530	J	<0.0057	U	–		–		0.84	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V		560	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V		<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V		<1000	U	<0.0057	U	–		–		<1.3	U

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							630		0.011		–		–		10	
Maximum After 11/4/2022							790		ND		–		–		0.63	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0057	U	–		–		0.66	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	550	J	0.011		–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	490	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	470	J	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	790	J	<0.0058	U	–		–		<1.3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	550	J	<0.0057	U	–		–		0.63	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		94.4		ND		–		ND		–		–		228		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		<110	U	–		–		<140	U	–		<140	U	–		–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		<8.7	U	–		–		46	J	–		–		<110	U	–		–		140	J	–		–		<140	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		48	J	–		–		<119	U	–		–		<148	U	–		<148	U	–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<8.7	U	–		–		<149	UJ	–		–		<149	UJ	–		–		<149	UJ	–		<149	UJ	–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<8.7	U	–		–		94.4	J	–		–		<120	U	–		–		228	J	–		<150	U	–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<8.7	U	–		–		41.7	J	–		–		<119	U	–		–		<149	U	–		<149	U	–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		94.4		ND		–		ND		–		–		228		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<82	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							450		ND		–		–		ND	
Maximum After 11/4/2022							1200		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	270	J	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	450	J	<0.0047	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	370	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<500	U	<0.0048	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	290	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	290	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	270	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	310	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	290	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	280	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	230	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	350	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	330	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	265	J	<0.005	U	–		–		<1.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	246	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	274	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	247	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	243	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	278	J	<0.00481	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	320	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	296	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	310	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	260	J	<0.0049	U	–		–		<1.16	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	390	J	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	420	J	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	UJ

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							450		ND		–		–		ND	
Maximum After 11/4/2022							1200		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	400	J	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<1000	U	<0.0057	UJ	–		–		<1.3	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	1200	J	<0.0057	U	–		–		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		<8.7	U	–		–		100	J	–		–		<120	U	–		–		270	J	–		–		<140	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		<8.7	U	–		–		76	J	–		–		<110	U	–		–		170	J	–		–		<140	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		<8.7	U	–		–		190	J	–		–		<110	U	–		–		250	J	–		–		<140	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		<8.7	U	–		–		<140	U	–		–		–		–		–		<140	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<8.7	U	–		–		<148	U	–		–		–		–		–		<148	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		<8.7	U	–		–		<147	U	–		–		–		–		–		<147	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		<120	U	–		–		<150	U	–		–		<150	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		2.88	J	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		<8.7	U	–		–		256	J	–		–		<121	U	–		–		491		–		–		<152	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<8.7	U	–		–		335		–		–		<120	U	–		–		565		–		–		<150	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		<8.7	U	–		–		218	J	–		–		<119	U	–		–		356		–		–		<149	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		2.78	J	–		–		192	J	–		–		<152	U	–		–		345		–		–		<152	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<8.7	U	–		–		191	J	–		–		<149	U	–		–		468		–		–		<149	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		<8.7	U	–		–		<149	U	–		–		–		–		–		<149	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<8.7	U	–		–		<150	U	–		–		–		–		–		<150	U	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		–		58	J	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		<80	UJ	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	–		–		<80	U	–		–		<95	U	–		–		–		–		–		<280	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		<80	U	–		–		<97	U	–		–		–		–		–		<290	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		<80	U	–		–		<82	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		<80	U	–		–		<79	U	–		–		–		–		–		<240	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		<80	U	–		–		<95	U	–		–		–		–		–		<280	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							TPH-g (C6-C12) APPL		TPH-g (C6-C12) Energy		TPH-g (Eurofins Labs)		TPH-d (APPL Lab)		TPH-d (Energy Lab)		TPH-d (Eurofins Labs)		TPH-d (APPL Lab) with Silica Gel Cleanup		TPH-d (Energy Labs) with Silica Gel Cleanup		TPH-d (Eurofins Labs) with Silica Gel Cleanup		TPH-o (APPL Lab) [b]		TPH-o (Energy Labs) [b]		TPH-o (Eurofins Labs) [b]		TPH-o (APPL Lab) with Silica Gel Cleanup		TPH-o (Energy Labs) with Silica Gel Cleanup		TPH-o (Eurofins Labs) with Silica Gel Cleanup	
CAS No.							PHCC6C10		PHCC6C10		PHCC6C10		PHCC10C24		PHCC10C24		PHCC10C24		PHCC10C24SGC		PHCC10C24SGC		PHCC10C24SGC		PHCC24C40		PHCC24C40		PHCC24C40		PHCC24C40SGC		PHCC24C40SGC		PHCC24C40SGC	
Method							8260B		8015C		8260/CALUFT DOD		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM		8015B_E		8015B_E		8015DM	
DOH Tier 1 EAL							300		300		300		400		400		400		—		—		—		500		500		500		—		—		—	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum Before 11/5/2022							–		ND		ND		–		ND		ND		–		ND		–		–		ND		ND		–		ND		–	
Maximum After 11/4/2022							–		–		ND		–		–		ND		–		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		<80	U	–		–		<97	U	–		–		–		–		–		<290	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		<80	U	–		–		<80	U	–		–		–		–		–		<240	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		<80	U	–		–		<84	U	–		–		–		–		–		<250	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<310	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		–		<80	U	–		–		<100	U	–		–		–		–		–		<300	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-*O* - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							ND		ND		–		–		ND	
Maximum After 11/4/2022							ND		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	650		<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	630		<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	610		<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	520		<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<500	U	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	420	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	370	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	360	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	400	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	360	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	320	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	250	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	370	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	340	J	<0.0049	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	361	J	<0.0048	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	279	J	<0.005	U	–		–		<1.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	434	J	<0.00481	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	486	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	293	J	<0.00499	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	297	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		–		–		ND	
Maximum Before 11/5/2022							ND		ND		–		–		ND	
Maximum After 11/4/2022							ND		ND		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	326	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	331	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	317	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	346	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	291	J	<0.0049	U	–		–		<1.16	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	440	J	<0.0058	U	–		–		<1.3	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	460	J	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	480	J	<0.0057	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	760	J	<0.0057	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	400	J	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	<1000	U	<0.0059	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	<1000	U	<0.0058	U	–		–		<1.3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane						
						CAS No.	–		106-93-4		112-34-5		111-77-3		74-82-8						
						Method	–		8011		8015C - DAI		8270D		SW8015M						
						DOH Tier 1 EAL	–		0.04		–		800		–						
						Units	µg/L		µg/L		µg/L		µg/L		µg/L						
						Minimum Before 11/5/2022	ND		ND		–		–		ND						
						Maximum Before 11/5/2022	ND		ND		–		–		ND						
						Maximum After 11/4/2022	ND		ND		–		–		ND						
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**						
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	**470**	J	<0.0059	U	–		–		<1.3	U					
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		–		–		–						
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U					
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		–		–		–						
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	<1000	U	<0.0057	U	–		–		<1.3	U					
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		–		–						
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	**390**	J	<0.0058	U	–		–		<1.3	U					
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	–		–		–		–		–						
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	**760**	J	<0.0057	U	–		–		<1.3	U					

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							TPH-g (C6-C12) APPL	TPH-g (C6-C12) Energy	TPH-g (Eurofins Labs)	TPH-d (APPL Lab)	TPH-d (Energy Lab)	TPH-d (Eurofins Labs)	TPH-d (APPL Lab) with Silica Gel Cleanup	TPH-d (Energy Labs) with Silica Gel Cleanup	TPH-d (Eurofins Labs) with Silica Gel Cleanup	TPH-o (APPL Lab) [b]	TPH-o (Energy Labs) [b]	TPH-o (Eurofins Labs) [b]	TPH-o (APPL Lab) with Silica Gel Cleanup	TPH-o (Energy Labs) with Silica Gel Cleanup	TPH-o (Eurofins Labs) with Silica Gel Cleanup
CAS No.							PHCC6C10	PHCC6C10	PHCC6C10	PHCC10C24	PHCC10C24	PHCC10C24	PHCC10C24SGC	PHCC10C24SGC	PHCC10C24SGC	PHCC24C40	PHCC24C40	PHCC24C40	PHCC24C40SGC	PHCC24C40SGC	PHCC24C40SGC
Method							8260B	8015C	8260/CALUFT DOD	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM	8015B_E	8015B_E	8015DM
DOH Tier 1 EAL							300	300	300	400	400	400	—	—	—	500	500	500	—	—	—
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum Before 11/5/2022							–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Maximum Before 11/5/2022							–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Maximum After 11/4/2022							–	–	ND	–	–	–	–	–	ND	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	–	–	<80 U	–	–	66 J	–	–	<100 U	–	–	340 J	–	–	180 J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							Total Organic Carbon		1,2-Dibromoethane		2-2 Butoxyethoxy-ethanol		2-(2- Methoxyethoxy)-ethanol		Methane	
CAS No.							–		106-93-4		112-34-5		111-77-3		74-82-8	
Method							–		8011		8015C - DAI		8270D		SW8015M	
DOH Tier 1 EAL							–		0.04		–		800		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–	
Maximum After 11/4/2022							–		–		–		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	**910**	J	**0.025**		**–**		**–**		<1.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Appendix B.4.2 – GW Analytical Table_BTEX_VOCS

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		0.16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–	R	–	R	–	R	–	R	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.0719	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		0.16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V		<0.07	U	<0.07	UJ	<0.15	U	0.15	J	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	0.16	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.73		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						Analyte																										
						CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.73		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	0.2	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	0.19	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.611	J
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	0.227	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.73		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.611	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	0.51	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	0.19	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	0.73		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	UJ	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	0.42	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	0.36	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	12	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	23		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	39		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.16		0.35		0.19	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.28		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.16		0.35		0.19	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.28		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.06	J
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.21	J	<0.1	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.35	J	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.1	J	<0.05	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.16	J	<0.05	U
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.15	J	<0.05	U
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.111	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.146	J	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0578	J	<0.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0578	J	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.16		0.35		0.19	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.28		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.126**	**J**	<0.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	**0.15**	**J**	**0.084**	**J**	**0.079**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.059**	**J**	**0.052**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.16**	**J**	**0.12**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–	R	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.085**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	**0.16**	**J**	**0.26**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.19**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	**0.079**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.063**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.09**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.093**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.088**	**J**	<0.08	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.19**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.17**	**J**	<0.08	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.093**	**J**	**0.068**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.18**	**J**	**0.15**	**J**
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.28**	**J**	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.036		0.309		ND		0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.033		0.13		ND		0.19		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V		–	R	0.3	J-	–	R	–	R	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V		<0.30	U	0.27	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V		<0.30	U	0.23	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V		<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V		<0.30	U	0.27	J	<0.30	U	0.47	J	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V		<0.30	U	0.23	J	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V		<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	0.13	J	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V		<0.20	U	0.11	J	<0.20	U	0.15	J	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V		<0.20	U	0.11	J	<0.20	U	0.16	J	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V		<0.2	U	0.21	J	<0.2	U	0.13	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V		<0.2	U	0.27	J	<0.2	U	0.2	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V		<0.2	U	0.18	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V		<0.2	U	0.15	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.036		0.309		ND		0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							0.033		0.13		ND		0.19		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.2	U	0.17	J	<0.2	U	0.19	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.2	U	0.14	J	<0.2	U	0.17	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.21	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.16	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	<0.2	U	0.11	J	<0.2	U	0.13	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	0.14	J	<0.2	U	0.137	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	0.128	J	<0.2	U	0.136	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.16	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	0.092	J	<0.2	U	0.146	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	0.159	J	<0.2	U	0.106	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	0.309	J	<0.2	U	0.197	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	0.188	J	–	R	0.279	J	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	0.152	J	<0.2	U	0.277	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	0.262	J	<0.2	U	0.268	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	0.0878	J	<0.2	U	0.104	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	0.179	J	<0.2	U	0.144	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.07	U	0.11	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	0.034	J	0.17	J	<0.15	U	0.17	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.07	U	0.067	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	0.031	J	0.2	J+	<0.15	U	0.3	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	0.036	J	0.28	J+	<0.15	U	0.31	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	<0.07	U	0.16	J	<0.15	U	0.37	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	<0.07	U	0.052	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	0.14	J	<0.15	U	0.41	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	<0.07	U	0.15	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	0.25	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	<0.07	U	0.066	J	<0.15	U	0.28	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	<0.07	U	0.036	J	<0.15	U	0.26	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	0.29	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	0.15	J	<0.15	U	0.32	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	0.033	J	0.13	J	<0.15	U	0.19	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	<0.07	U	0.081	J	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.82		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.279	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.82		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.279	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V		0.21	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.279	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V		0.24	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V		0.17	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V		0.52		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V		0.15	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V		0.23	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V		0.82		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2.7		ND		ND		ND		ND		ND		ND		ND		0.29	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2.7		ND		ND		ND		ND		ND		ND		ND		0.29	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	0.29	J+
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.41		2		0.13	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		0.19		0.66		0.21	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.15**	J	–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.13**	J	**0.57**	J	<0.1	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	**0.15**	J	**0.09**	J	**0.06**	J
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	**0.16**	J	**0.16**	J	<0.1	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.13**	J	**2**		**0.06**	J
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.2**	J	**0.2**	J	<0.1	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.19**	J	**0.08**	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	**0.19**	J	**0.07**	J	<0.05	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.41		2		0.13	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		0.19		0.66		0.21	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.19	J	0.15	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.17	J	0.11	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.21	J	0.16	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.16	J	0.17	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.13	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.137	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.136	J	0.168	J	<0.05	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.16	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.146	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.106	J	<0.1	U	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.197	J	0.257	J	<0.05	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	0.279	J	0.213	J	<0.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.277	J	0.356	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.268	J	0.11	J	<0.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.104	J	0.154	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	0.144	J	0.197	J	<0.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.25	J	0.11	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.17	J	<0.08	U	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.081	J	0.085	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.3	J	0.1	J	<0.08	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.31	J	0.055	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.37	J	0.16	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.12	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	0.41	J	<0.08	U	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.22	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.19	J	0.13	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.055	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.25	J	<0.08	U	0.13	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.28	J	0.23	J	<0.08	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	0.13	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.26	J	0.22	J	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.29	J	0.086	J	0.079	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.32	J	0.35	J	0.13	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	0.19	J	0.66		0.21	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.24	J	0.087	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.16	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.16	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.08	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.057	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.069	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.03	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.13	J
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.53		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.53		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	0.274	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	0.173	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	0.33	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	0.53		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2.65		0.49	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		1.2		0.25	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.74**	**J**	–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.14**	**J**	<0.1	U
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.44**	**J**	**0.06**	**J**
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.14**	**J**	<0.1	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.4**	**J**	**0.08**	**J**
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.32**	**J**	<0.1	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.59**	**J**	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**1**		**0.05**	**J**

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						Analyte																
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		2.65		0.49	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		1.2		0.25	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.64**	**J**	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**2**		**0.1**	**J**
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.89**	**J**	**0.13**	**J**
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.64**	**J**	**0.1**	**J**
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.5**	**J**	<0.05	U
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.484**	**J**	<0.05	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**1.21**		**0.0315**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.745**	**J**	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.515**	**J**	<0.05	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**2.65**		**0.0608**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	–	**R**	**0.626**		<0.1	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.984**		<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.536**		**0.0352**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.238**	**J**	<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.108**	**J**	<0.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.2**	**J**	**0.49**	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.21**	**J**	**0.11**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.66**		**0.28**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–	**R**	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.38**	**J**	**0.045**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.17**	**J**	<0.08	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.42**		<0.08	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.36**	**J**	**0.17**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.18**	**J**	**0.13**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.32**	**J**	<0.08	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.32**	**J**	<0.08	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.11**	**J**	**0.04**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**1**		**0.2**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.31**	**J**	<0.08	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.56**		<0.4	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.38**	**J**	**0.16**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.24**	**J**	**0.12**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.65**		**0.18**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**1.2**		**0.25**	**J**
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.32**	**J**	**0.077**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/19/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	1.5		ND		ND		ND		ND		ND		ND		ND		ND		0.75		ND		ND		ND	
							Maximum After 11/4/2022	0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	0.75	J	<0.50	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		0.226	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		0.308	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		0.25	J	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							1.5		ND		ND		ND		ND		ND		ND		ND		ND		0.75		ND		ND		ND	
Maximum After 11/4/2022							0.47		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	0.27	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	0.36	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	0.16	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	0.16	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.35	UJ	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	0.24	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	0.51		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	1.5	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	0.28	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	0.15	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	0.39	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	0.27	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	0.44	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	0.47	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.1		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	0.1	J	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		1.4		0.776	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.35		0.08	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.28**	J	<0.1	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.4**	J	<0.1	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.26**	J	<0.1	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.65**	J	**0.13**	J
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.32**	J	**0.07**	J
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.09**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.27**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.133**	J	<0.05	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.122**	J	<0.05	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.155**	J	<0.05	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.35**	J	**0.776**	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.492**	J	**0.0412**	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.204**	J	<0.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–	R	–	R	–	R	–	R	–	R	–	R	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	**0.393**	J	**0.0359**	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**1.27**		**0.119**	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						Analyte																
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		1.4		0.776	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.35		0.08	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.496	J	0.222	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.66		0.18	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	1.4	J	0.48	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.11	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.086	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.14	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.17	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.16	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.1	J	0.11	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.15	J	0.1	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.059	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.14	J	0.085	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.4		0.17	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.42		0.29	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.46		0.13	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.046	J	0.25	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.41		0.2	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.093	J	0.053	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.071	J	0.054	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.35	J	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.17	J	0.08	J
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.18	J	<0.08	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.
3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t
4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.135		0.287		0.72		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	0.135	J	0.287	J	0.72	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		0.135		0.287		0.72		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	**0.15**	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.24		ND		ND		ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	J	<0.5	U	<0.5	U	<0.5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	0.17	J	<0.50	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	0.22	J	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	0.165	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.24		ND		ND		ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V		0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V		0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V		0.17	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V		0.24	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/18/2022	Primary	V		0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		15.7		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	15.7	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		15.7		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.066		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.522		0.198		3		1.9	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		1.1		0.4	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.28**	**J**	–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.28**	**J**	**0.06**	**J**
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**1**		**0.06**	**J**
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	**J**	<0.1	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**3**		<0.1	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.16**	**J**	<0.1	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.13**	**J**	**0.11**	**J**
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.12**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.2**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.79**	**J**	**0.04**	**J**
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.52**	**J**	**0.06**	**J**
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.22**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	**0.522**	**J**	**0.198**	**J**	**0.28**	**J**	<0.05	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.218**	**J**	**0.0669**	**J**
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0788**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.879**	**J**	<0.05	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.726**	**J**	**0.338**	**J**
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	**0.39**	**J**	**0.084**	**J**
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.066		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		0.522		0.198		3		1.9	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		1.1		0.4	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.627		<0.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.468	J	<0.1	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.104	J	<0.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.275	J	0.101	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.59		0.19	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	1.8		0.088	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.2	J	0.15	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.15	J	0.42		<0.08	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.89		0.095	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.25	J	<0.08	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.26	J	0.089	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.066	J	0.15	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.32	J	0.077	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.069	J	0.063	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.21	J	<0.08	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.3	J	0.15	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.37	J	0.061	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	1.3		1.9	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.62		0.13	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.68		0.11	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.1	J	0.088	J
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	1.1		0.4	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.049	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.044	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	**0.046**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.04**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.049**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.037**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	**0.034**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.049	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.044	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.039	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.043	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.044	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.48		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.158	
Maximum After 11/4/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	**0.177**	**J**	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.158**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	**0.318**	**J**	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	**0.17**	**J**	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	**0.18**	**J**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	**0.46**	**J**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	**R**	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	**0.15**	**J**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.48		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.158	
Maximum After 11/4/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	0.15	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	0.48	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	0.3	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.15		ND		ND		ND		ND		ND		3.13		0.44	
							Maximum After 11/4/2022	0.066		ND		ND		ND		ND		ND		0.28		0.041	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.5	J	–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.25	J	<0.1	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	1		0.25	J
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.12	J	0.06	J
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.36	J	<0.1	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.11	J	<0.1	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.17	J	0.06	J
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.27	J	<0.05	U
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	3.13		<0.05	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.125	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.173	J	0.0478	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.103	J	<0.05	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.311	J	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.04	J	0.44	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.055	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.13	J	0.18	J
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.049	J	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.15		ND		ND		ND		ND		ND		3.13		0.44	
Maximum After 11/4/2022							0.066		ND		ND		ND		ND		ND		0.28		0.041	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.12**	**J**	**0.041**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.074**	**J**	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.11**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	**0.098**	**J**	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	**0.15**	**J**	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.066**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.12**	**J**	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.28**	**J**	<0.08	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	**0.066**	**J**	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.17**	**J**	**0.041**	**J**
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.88		ND		ND		ND		ND		ND		ND		ND		ND		0.24		ND		ND		0.808	
Maximum After 11/4/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	**0.24**	**J**	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	**0.22**	**J**	<0.50	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	**0.23**	**J**	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	**0.22**	**J**	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	**0.18**	**J**	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.808**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	**0.88**	**J+**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	**0.3**	**J**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	**0.21**	**J**	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	**R**	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.88		ND		ND		ND		ND		ND		ND		ND		ND		0.24		ND		ND		0.808	
Maximum After 11/4/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	0.17	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	0.15	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	0.21	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	0.3	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.77		0.19	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.37		0.22	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.31	J	–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.43	J	0.1	J
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.17	J	0.07	J
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.15	J	<0.1	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.15	J	<0.1	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.25	J	<0.1	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.41	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.23	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.09	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.11	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.14	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.15	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.108	J	<0.05	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.227	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.141	J	<0.05	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.38	J	0.0814	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.117	J	<0.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0654	J	0.036	J
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.149	J	<0.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.29	J	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.77	J	<0.4	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.11	J	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.14	J	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.084	J	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.77		0.19	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.37		0.22	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.19**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.13**	**J**	**0.077**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.13**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.058**	**J**	**0.063**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.081**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.17**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.16**	**J**	**0.058**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.049**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.24**	**J**	**0.15**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.041**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.17**	**J**	**0.11**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.17**	**J**	<0.08	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.076**	**J**	**0.057**	**J**
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.37**	**J**	**0.22**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.07	UJ	<0.07	UJ	<0.15	UJ	<0.35	UJ	<0.15	U	<0.15	UJ	<0.15	UJ	<0.35	UJ	–		<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.25	UJ	<0.07	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							1.1		ND		ND		ND		ND		ND		ND		ND		ND		0.23		ND		ND		ND	
Maximum After 11/4/2022							0.53		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	0.23	J	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	0.28	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	0.53	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	0.31	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	0.2	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	0.37	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	0.88	J-	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	0.35	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	1.1		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	0.55	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	0.74		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	1.1		ND		ND		ND		ND		ND		ND		ND		ND		0.23		ND		ND		ND	
							Maximum After 11/4/2022	0.53		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V		0.53		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<5	U	<0.25	UJ	<3.5	UJ	<0.5	UJ	<0.15	UJ	<0.15	U	<0.25	UJ	<0.07	UJ	<0.15	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		2		0.31	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.22		0.13	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	2		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.47	J	0.08	J
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.14	J
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.23	J	<0.1	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.26	J	0.1	J
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.14	J	<0.1	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.3	J	0.06	J
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.24	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.19	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.22	J	0.03	J
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.3	J	0.09	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0701	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.102	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.332	J	0.0983	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.118	J	<0.05	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.305	J	0.0535	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.066	J	<0.08	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.083	J	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	0.046	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.21	J	0.042	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.14	J	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V		<0.15	UJ	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	UJ	<0.35	UJ	0.096	J	0.045	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	0.23	J	0.076	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.057	J	0.045	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.18	J	0.13	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.078	J	<0.08	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.2	J	0.11	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.22	J	0.096	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2		0.31	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.22		0.13	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**1.1**		**0.31**	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.23**	J	**0.18**	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.36**	J	**0.11**	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.09**	J	**0.049**	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.22**	J	**0.13**	J
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.22**	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		0.22		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.17	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.25	U	<0.25	U	0.22	J	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.22		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.17	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.17	J
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.43		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V		<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V		0.43	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V		0.2	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		0.173	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.43		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		0.269	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
						CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.15	U	<0.07	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.23		0.74	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.047		0.044	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.23	J		
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	0.12	J
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.23		0.74	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.047		0.044	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.094**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.74**	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.04**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.074**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.13**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.067**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		**0.094**	**J**	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.061**	**J**	**0.2**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.17**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.1**	**J**	**0.074**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.047**	**J**	**0.04**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	**0.044**	**J**
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.068		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V		<0.2	U	<0.2	U	0.068	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.068		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.607	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V		<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.607**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	**0.129**	**J**
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.607	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	1.1		<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	0.26	J	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	0.36	J	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.12	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.088	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	0.12	J	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW02G-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	–	R	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.4		0.16	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.061		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.11	J	0.04	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	0.08	J
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.08	J	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.273	J	<0.05	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.0314	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.041	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0621	J	<0.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.197	J	<0.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.049	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	0.14	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.063	J	0.16	J
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		0.4		0.048	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.075	J	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.4		0.16	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.061		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.066	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.044	J	0.069	J
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.061	J	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.65	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.65	J
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.65	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.46		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							0.2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	0.46	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	0.2	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	UJ	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	0.2	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.46		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		0.34	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		0.2	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		6.69		0.31	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.061		0.067	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.55	J	<0.1	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.318	J	<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	6.69		<0.05	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.12	J	<0.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.2	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.078	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.24	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	0.31	J
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	UJ	0.18	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		6.69		0.31	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.061		0.067	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.15**	**J**	**0.089**	**J**
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.061**	**J**	<0.08	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	**0.067**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	UJ	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.14		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.14		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V		0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		14		0.23	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.085		0.074	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.12**	J	–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	**0.06**	J
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	**0.14**	J
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.11**	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.13**	J	<0.1	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.13**	J	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	J	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.04**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.149**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0604**	J	<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.986**		<0.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.18**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.059**	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.23**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.04**	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.046**	J	**0.13**	J
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		–		–		–		–		–		–		**0.053**	J	**0.069**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.11**	J	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		14		0.23	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.085		0.074	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**14**		**0.11**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.11**	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.068**	J	**0.11**	J
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.045**	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.085**	J	<0.08	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.055**	J	<0.08	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	**0.074**	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V		<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	UJ	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V		<0.35	UJ	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.24		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V		0.24	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK2	11/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.67		8.9	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V		–		–		–		–		<0.2	U	<0.2	U	–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	**J**	<0.1	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.27**	**J**	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.184**	**J**	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.656**		<0.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	**8.9**	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0304**	**J**
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0645**	**J**	<0.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.57**	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.24**	**J**
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V		–	**R**	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	–	**R**	<0.25	U	<0.35	U	**0.049**	**J**	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.067**	**J**	<0.08	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.054**	**J**
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.67		8.9	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		<0.08	U	0.043	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.18	J	0.16	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.063	J	0.048	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.43		<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.065	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.18	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.67		0.21	J
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	0.15	J	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.75		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	0.4	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	0.269	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.75		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V		0.75		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.15		0.13		0.32	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.06		0.063	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V		<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U		
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		<0.1	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.09	J	<0.1	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.1	U	0.05	U
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–	R	–	R	–	R	–	R	–	R	–	R	<0.1	U	<0.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0558	J	0.0383	J
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	0.15	J	0.045	J	0.16	J
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.054	J	0.11	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.15		0.13		0.32	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.06		0.063	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.32**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.4	U	<0.2	U	–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		–		–		–		–		–		–		<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.13**	**J**	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.04**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.075**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.06**	**J**	**0.063**	**J**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		0.937		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	0.937	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	0.27	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	0.237	J	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.61		ND		ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND	
							Maximum After 11/4/2022	1.8		ND		ND		ND		ND		ND		ND		ND		ND		0.047		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		0.186	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.082	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.19	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V		0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V		<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	R	<0.07	U	0.1	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.085	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.063	J	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V		0.29	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V		0.28	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	UJ	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V		0.22	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V		0.61	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V		0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V		0.43	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V		1.8		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	0.047	J	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.24		0.32	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		0.048	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0373**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.07**	J	**0.11**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.24**	J	<0.4	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.32**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.11**	J	**0.078**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.096**	J	**0.054**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.12**	J	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V		<0.15	U	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	**0.16**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.17**	J	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.053**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.079**	J	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.059**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	UJ	**0.096**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.041**	J	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.055**	J	**0.071**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.082**	J	**0.056**	J
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.048**	J

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
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T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.068		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.068	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.068		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.59		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		0.302	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V		0.22	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V		0.59	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V		0.34	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V		0.27	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.59		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	0.3	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	0.42	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	0.53		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	0.3	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	–	R	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.59		0.81	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.12		0.046	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.25**	**J**	<0.1	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.59**	**J**	<0.05	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.03**	**J**
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.09**	**J**	**0.04**	**J**
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.1**	**J**	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.288**	**J**	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.257**	**J**	**0.0846**	**J**
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0691**	**J**	<0.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.119**	**J**	**0.0309**	**J**
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.12**	**J**	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.073**	**J**	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.16**	**J**
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	UJ	<0.08	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.083**	**J**	**0.81**	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.59		0.81	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.12		0.046	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.11	J	0.074	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.051	J	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.043	J	0.15	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.083	J	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.064	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.32	J	0.15	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	0.065	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.12	J	0.045	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.067	J	0.046	J
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.11	J	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.039	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<0.30	U	<0.5	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	<0.20	U	0.06	J	<0.20	U	0.33	J	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	<0.20	U	0.63	J	<0.2	U	7.2		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	0.73	J	<0.5	U	<0.5	U	<0.25	U	0.2	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.25	U	0.85	J	<0.25	U	<0.5	U	<0.5	U	0.65	J	<0.5	U	<0.5	U	<0.25	U	0.2	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.25	U	1.7		<0.25	U	<0.5	U	<0.5	U	0.59	J	<0.5	U	<0.5	U	<0.25	U	0.17	J	<0.5	U	<0.25	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	2.7		<0.2	U	<0.5	U	<0.25	U	0.65	J	–		<0.5	U	<0.2	U	0.2	J	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	2.9		<0.2	U	<0.5	U	<0.25	U	0.6	J	–		<0.5	U	<0.2	U	0.2	J	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.2	U	<0.5	U	<0.25	U	0.8	J	–		<0.5	U	<0.2	U	0.26	J	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	0.085	J	<0.20	U	<0.50	U	<0.25	U	0.66	J	–		<0.50	U	<0.20	U	0.23	J	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	0.067	J	<0.20	U	<0.50	U	<0.25	U	0.65	J	–		<0.50	U	<0.20	U	0.23	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.61	J	–		<0.50	U	<0.20	U	0.21	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	0.17	J	<0.20	U	<0.50	U	<0.25	U	0.3	J	–		<0.50	U	<0.20	U	0.09	J	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	0.11	J	<0.20	U	<0.50	U	<0.25	U	0.28	J	–		<0.50	U	<0.20	U	0.1	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.31	J	–		<0.50	U	<0.20	U	0.12	J	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.19	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.15	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	0.23	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	0.22	J	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	0.16	J	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.039	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.096	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.34	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.17	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.095	J
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.169	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.151	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.151	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.168	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.155	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.63		ND		7.2		ND		ND		ND		0.8		ND		ND		ND		0.26		ND		0.17	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.039	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.11	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.078	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.054	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.072	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.14	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.079	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.17	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.087	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.17	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.094	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.12	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.039	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.68		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	0.24	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	0.23	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.68		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V		0.19	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V		0.18	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V		0.377	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V		0.235	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V		0.265	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.995	J
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.928	J
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V		0.363	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V		0.321	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.68		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.995	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V		0.44	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V		0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V		0.28	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V		0.68	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V		0.42	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V		0.26	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V		0.34	J	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V		<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V		0.23	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V		0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	5.1	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	3.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	3.4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		5.1		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	–	R	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		2.8		4.4		0.89		0.28	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		0.15	J	0.18	J	–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		2.8		4.4		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	0.27	J	0.58	J	–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	0.34	J	1.3		0.1	J	–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.31	J	2.4		0.09	J	<0.1	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.32	J	2.6		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	0.085	J	0.18	J	0.25	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.07	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	0.17	J	<0.1	U	0.13	J
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	0.11	J	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.16	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.33	J	<0.1	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
						Analyte																
						CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
						DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		2.8		4.4		0.89		0.28	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.08**	**J**
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.22**	**J**	**0.04**	**J**
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.08**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	**0.23**	**J**	**0.11**	**J**	**0.34**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.22**	**J**	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.16**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.19**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.11**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0754**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.112**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.405**	**J**	<0.05	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.119**	**J**	<0.05	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0551**	**J**	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.0878**	**J**	<0.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		2.8		4.4		0.89		0.28	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.18**	**J**	**0.13**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.17**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.21**	**J**	<0.4	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.81**		<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.052**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.081**	**J**	**0.16**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.14**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.059**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.058**	**J**	**0.12**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.15**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.27**	**J**	**0.11**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.28**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.5**		**0.088**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.13**	**J**	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.38**	**J**	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.073**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.092**	**J**	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.25**	**J**	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.056**	**J**	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.056**	**J**	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.057**	**J**	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.89**		**0.095**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.047**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.063**	**J**	**0.11**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.051**	**J**
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.048**	**J**
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
Maximum After 11/4/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<0.30	UJ	<0.50	UJ	<0.30	UJ	<0.30	UJ	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	

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							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	ND		ND		ND		ND		–		–		–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<0.30	U	<0.50	U	<0.30	U	<0.30	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	<0.3	U	<0.5	U	<0.3	U	<0.3	U	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Analyte							Chloromethane	2-Chlorotoluene	4-Chlorotoluene	Dibromomethane	1,2-Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Dichlorodifluoromethane	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene
CAS No.							74-87-3	95-49-8	106-43-4	74-95-3	95-50-1	541-73-1	106-46-7	75-71-8	75-34-3	107-06-2	75-35-4	156-59-2	156-60-5
Method							8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
DOH Tier 1 EAL							190	–	–	–	10	5	5	–	2.8	5	7	70	100
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum Before 11/5/2022							–	–	–	–	–	–	–	–	–	–	–	–	–
Maximum Before 11/5/2022							–	–	–	–	–	–	–	–	–	–	–	–	–
Maximum After 11/4/2022							–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–

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							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH d

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

						Analyte	1,2-Dichloropropane	1,3-Dichloropropane	2,2-Dichloropropane	1,1-Dichloropropene	cis-1,3-Dichloropropene	trans-1,3-Dichloropropene	Methyl ethyl ketone	Methyl tert-butyl ether (MTBE)	Methylene chloride	Styrene	1,1,1,2-Tetrachloroethane	1,1,2,2-Tetrachloroethane	Tetrachloroethene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene
						CAS No.	78-87-5	142-28-9	594-20-7	563-58-6	10061-01-5	10061-02-6	78-93-3	1634-04-4	75-09-2	100-42-5	630-20-6	79-34-5	127-18-4	71-55-6	79-00-5	79-01-6
						Method	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B	8260B
						DOH Tier 1 EAL	5	–	–	–	–	–	5600	5	5	10	0.61	0.078	5	11	5	5
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum Before 11/5/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum Before 11/5/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
						Maximum After 11/4/2022	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane		Trichloroethene	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5		79-01-6	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH d

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–	
Maximum After 11/4/2022							–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHSF

Analyte							Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–	
Maximum After 11/4/2022							–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from t

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH d

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sampl

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The re

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.14	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.25	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.25	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V		<0.25	U	<0.25	U	<0.25	U	<0.20	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.5	U	<0.25	U	<0.25	U	<0.5	U	0.16	J
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	<0.50	U	<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.15	J
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.16	J
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.19	J
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.19	J
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.15	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J+
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.17	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.194	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.183	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.205	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.2	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.182	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.202	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.198	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.213	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.203	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V		<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.16	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.14	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V		<0.07	U	<0.07	UJ	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.17	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.25	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.14	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.25	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.25	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.2	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.21	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.24	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	0.23	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.25	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.22	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.29		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.963		1.28	
Maximum After 11/4/2022							0.14		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	0.172	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	0.963	J	1.28	J+
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	0.15	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	UJ	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	UJ	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.29		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.963		1.28	
Maximum After 11/4/2022							0.14		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	0.29	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.19		0.74	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.041		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		<0.2	U	<0.2	U	–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	0.06	J
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.17	J	0.05	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.15	J	0.74	J
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.05	J	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.148	J	<0.05	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	0.0352	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.27	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.051	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.34	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.17	J
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.19	J	0.087	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.19		0.74	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.041		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.13**	**J**
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.083**	**J**	<0.08	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.057**	**J**
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	**0.094**	**J**	**0.053**	**J**
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.041**	**J**	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.19		6		4.7		71		ND		ND		0.235		3.97		ND		ND		ND		1.1		ND		1.2	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	6		4.7		71		<0.5	U	<1	U	<1	U	<0.5	U	<1	U	<1	U	<0.5	U	<0.5	U	<1	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	0.19	J	2.3		1.3		27		<0.25	U	<0.5	U	<0.5	U	0.82	J	<0.5	U	<0.5	U	<0.25	U	0.23	J	<0.5	U	0.42	J
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.20	U	0.3	J	0.14	J	5.4		<0.2	U	<0.5	U	<0.25	U	1		<0.5	U	<0.5	U	<0.2	U	0.23	J	<0.5	U	0.36	J
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	0.11	J	<0.20	U	2.1		<0.20	U	<0.50	U	<0.25	U	1.5		–		<0.50	U	<0.20	U	0.28	J	<0.50	U	0.32	J
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	0.26	J	<0.20	U	5.3		<0.20	U	<0.50	U	<0.25	U	0.14	J	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.2	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	1		<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	1.1	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.16	J	<0.2	U	<0.5	U	0.12	J	0.34	J	–		<0.5	U	<0.2	U	0.16	J	<0.5	U	1.2	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.42	J	<0.2	U	<0.5	U	<0.25	U	0.41	J	–		<0.5	U	<0.2	U	0.16	J	<0.5	U	0.93	J
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.21	J
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	0.13	J	<0.2	U	0.66	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.11	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.18	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.11	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.073	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.14	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.099	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.35	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	0.36	J	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.091	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.086	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.104	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.0835	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.0791	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.0848	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	0.235	J	3.97		–		<0.5	U	<0.2	U	1.1		<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.038	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.033	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.03	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.19		6		4.7		71		ND		ND		0.235		3.97		ND		ND		ND		1.1		ND		1.2	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.07	UJ	<0.07	UJ	<0.15	UJ	<0.35	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.35	UJ	–		<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.25	UJ	<0.07	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.07	U	0.093	J	<0.15	U	0.28	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.07	U	<0.07	U	0.2		<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.07	U	<0.07	U	0.11	J	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.07	U	0.26		0.07	J	1.1		<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<0.07	U	0.32		0.05	J	1.3		<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.07	U	0.26		<0.15	U	1.1		<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	<0.07	U	0.11	J	<0.15	U	0.75		<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.07	U	0.055	J	<0.15	U	0.47	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.07	U	0.073	J	<0.15	U	0.52		<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.07	U	0.05	J	<0.15	U	0.41	J	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.9		ND		ND		0.2		ND		ND		ND		ND		ND		ND		ND		ND		1.13	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<1	U	<0.5	U	<0.5	U	<1	U	<0.5	U	<0.5	U	<0.5	U	<1	U	<1	U	<1	U	<1	U	<1	U	<1	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.5	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	0.2	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	0.2	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	1.13	J+
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	0.307	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	0.186	J	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	0.42	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	0.82		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.9		ND		ND		0.2		ND		ND		ND		ND		ND		ND		ND		ND		1.13	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.35	U	<0.35	UJ	<0.25	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.35	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.07	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	0.54		<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	0.9	J+	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		27		ND		0.32		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	<0.5	U	<1	U	<0.5	U	<0.5	U	<0.5	U	<10	U	<0.5	U	0.32	J	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<1	U	<0.5	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.25	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U	<0.25	U	<0.25	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4.2	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	4	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	19	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	27		<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	2.3	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	14	J	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		27		ND		0.32		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	UJ	<0.07	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<0.15	UJ	<5	UJ	<0.25	UJ	<3.5	UJ	<0.5	UJ	<0.15	UJ	<0.15	UJ	<0.25	UJ	<0.07	UJ	<0.15	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	UJ	<0.25	U	<0.07	U	<0.15	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		26		45		230		11	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		1.9		0.32	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<0.5	U	<1	U	<1	U	<1	U	26		45		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.25	U	<0.5	U	<0.5	U	<0.5	U	13		14		15			
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	1.9		3.5		6		0.12	J
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	0.73	J	1.3		6		0.23	J
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	2		3.3		1		0.11	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.41	J	0.62	J	1		0.07	J
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.42	J	<0.1	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.2	J	0.22	J	6		<0.1	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.28	J	0.37	J
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.33	J	0.34	J	129		11	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.11	J	0.36	J	0.06	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.11	J	1		0.21	J
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	0.073	J	1		0.09	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.65	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.24	J	0.12	J	0.17	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	0.24	J	0.12	J	18		<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.49	J	0.05	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.68	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.9	J	0.27	J
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.0975	J	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	24.7		0.0933	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	19.5		1.26	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	17.9		1.81	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	14.2		0.123	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	1.59		0.0682	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.95		0.124	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.684		<0.1	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	15.7		<0.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	8.28		0.217	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.049	J	0.38	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	6.9		0.35	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	5.8		0.19	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.2	J	0.11	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		26		45		230		11	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		1.9		0.32	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	UJ	<0.35	UJ	<0.15	UJ	<0.015	UJ	<0.25	UJ	<0.35	UJ	0.1	J	0.058	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	2.7		0.17	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.37	J	0.24	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.28	J	<0.35	U	3.2		<0.08	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	5.7		0.97	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	41		0.91	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.75		0.33	J	2.8		0.099	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.85		0.4	J	0.67		0.056	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.76		0.37	J	84		0.39	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.43	J	0.32	J	230		0.18	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.21	J	0.26	J	59		0.47	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	U	<0.015	U	0.27	J	0.25	J	1.5		0.26	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	0.17	J	0.24	J	1.1		0.08	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.35	UJ	<0.15	UJ	<0.09	U	<0.25	U	<0.35	U	1.9		0.28	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	1.8		0.32	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		1.6	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.069		ND		ND		ND		3.8	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.063		ND		0.058		ND		3.8	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	2.1	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	1.6	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	1.9	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.1	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.77	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.75	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.78	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.9	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.99	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.87	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.85	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.79	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.67	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.86	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.89	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.74	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.97	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.43	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.34	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.04	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		1.6	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.069		ND		ND		ND		3.8	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		0.063		ND		0.058		ND		3.8	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	3.03	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.91	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	2.85	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.064	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.069	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.039	J	<0.15	U	<0.15	U	<0.25	U	3.1	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.062	J	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.055	J	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.06	J	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.059	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.059	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.067	J	<0.15	U	<0.15	U	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.067	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.062	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.058	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.066	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.065	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.067	J	<0.15	U	<0.15	U	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.064	J	<0.15	U	<0.15	U	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.063	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.054	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.064	J	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.3	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.061	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.057	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.056	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.052	J	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.055	J	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.048	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.054	J	<0.15	U	<0.15	U	<0.25	U	3.4	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.05	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.056	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.063	J	<0.15	U	0.058	J	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.054	J	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.051	J	<0.15	U	<0.15	U	<0.25	U	3.5	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.059	J	<0.15	U	<0.15	U	<0.25	U	3.8	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.054	J	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.7	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	3.6	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		0.054	J	<0.15	U	<0.15	U	<0.25	U	3.7	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.34		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.27		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		0.285	J	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.34		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.27		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	0.34	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	0.33	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	0.17	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	0.29	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	0.15	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	0.27	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	0.23	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.131		0.29	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		2.9		0.65	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.08**	J	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V		<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	J	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.11**	J	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	**0.131**	J	<0.05	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.131		0.29	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		2.9		0.65	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.14**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.04**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.29**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.11**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.071**	**J**	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.052**	**J**	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.1**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.13**	**J**	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.058**	**J**	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	**0.65**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**2.9**		<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.27		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.507	
							Maximum After 11/4/2022	0.16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	0.507	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V		0.14	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V		0.27	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V		0.25	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V		0.18	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.27		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.507	
Maximum After 11/4/2022							0.16		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		1.4		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.2	UJ	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	1.4	J	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		1.4		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	UJ	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.123		0.55	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.11		0.1	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.123	J	<0.05	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.28	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.13	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.55	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	–	R	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	UJ	<0.08	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	UJ	<0.08	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.04	J	0.11	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.076	J	0.069	J
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	UJ	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.123		0.55	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.11		0.1	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.073**	**J**	**0.043**	**J**
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.055**	**J**
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.11**	**J**	**0.1**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V		<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
						CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	0.36		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.3		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							0.36		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	0.3	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	0.21	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	0.33	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	0.36	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	--	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.13		0.36	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.048		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.12**	**J**	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	**0.13**	**J**	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.06**	**J**	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	**0.04**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	**0.07**	**J**	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	**0.0306**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	<0.08	U	**0.18**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	<0.4	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.23**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.1**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.076**	**J**	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.36**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	UJ	<0.25	U	<0.35	U	<0.08	U	**0.049**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.096**	**J**	<0.08	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	**0.051**	**J**
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.13		0.36	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.048		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	UJ	**0.046**	J
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.065**	J	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.065**	J	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.056**	J	**0.11**	J
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	**0.048**	J	<0.08	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
CAS No.							71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.31	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.11	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.085	J
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U	<0.25	U	–		<0.50	U	<0.20	U	<0.20	U	<0.50	U	0.09	J
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.11	J
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.12	J
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.19	J
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.19	J
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.3	J
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.31	J
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.3	J
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.31	J
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.29	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.27	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.25	J
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.26	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.21	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.22	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.2	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.15	J
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.15	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.16	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.138	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.127	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.133	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.138	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.122	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.128	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.134	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.129	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.133	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.131	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.125	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.119	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U	<0.25	U	–		<0.5	U	<0.2	U	<0.2	U	<0.5	U	0.126	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.087	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.07	U	<0.07	UJ	<0.15	U	<0.35	UJ	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.098	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
							CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.31	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		ND		ND		ND		ND		0.11	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.092	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.096	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.12	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.12	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	UJ	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.12	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.094	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.094	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.096	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.073	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.067	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.09	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.088	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.094	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.068	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.097	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.065	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.08	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.086	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.084	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.083	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.085	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.1	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.086	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.094	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.11	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.092	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.087	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.083	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.08	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.09	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V		<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	–		<0.07	U	<0.15	U	<0.15	U	<0.25	U	0.095	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.67		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.79		1.04	
Maximum After 11/4/2022							0.42		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.50	U	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<0.50	U	<0.50	U	<0.25	U	<0.50	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	UJ	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	**0.79**	**J**	**1.04**	**J+**
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.5	U	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<0.5	U	<0.5	U	<0.25	U	<0.5	U	<0.25	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.35	UJ	<0.35	U	<0.25	UJ	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
CAS No.							74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							190		–		–		–		10		5		5		–		2.8		5		7		70		100	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.67		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.79		1.04	
Maximum After 11/4/2022							0.42		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.35	UJ	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	0.67	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	0.39	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	0.16	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	0.42	J	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	UJ	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	<0.20	U	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.20	U	<0.50	U	<0.20	U	<0.20	U	<0.20	U	<5	U	<0.25	U	<0.50	U	–	R	<0.25	U	<0.20	U	<0.20	U	<0.50	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	UJ	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.2	U	<0.5	UJ	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.2	U	<0.5	U	<0.2	U	<0.2	U	<0.2	U	<5	U	<0.25	U	<0.5	U	<0.2	U	<0.25	U	<0.2	U	<0.2	U	<0.5	U	<0.25	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
CAS No.							78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
Method							8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
DOH Tier 1 EAL							5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	UJ	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.07	U	<0.15	UJ	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	–	R	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.6		0.61	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.45		0.086	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	0.08	J	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.20	U	<0.50	U	<0.50	U	<0.50	U	<0.50	U	<0.20	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.29	J	0.17	J
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.06	J	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.24	J	0.1	J
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.1	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.07	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	<0.1	U	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.5	U	<0.5	U	<0.2	U	0.6	J	<0.05	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.18	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.241	J	<0.05	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.592	J	0.0333	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.231	J	0.0479	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.201	J	0.0575	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	0.0543	J	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	UJ	<0.1	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.2	U	<0.5	U	<0.5	U	<0.1	U	<0.5	U	<0.2	U	<0.1	U	<0.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	UJ	<0.08	U	0.15	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
CAS No.							79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
Method							8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
DOH Tier 1 EAL							5		–		0.6		2		–		–		5.6		–	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.6		0.61	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.45		0.086	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.4	U	0.61	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.046	J	0.045	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	UJ	0.069	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.048	J	0.061	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.24	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.42	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	<0.08	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.063	J	<0.08	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	<0.08	U	0.29	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.41		0.13	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.25	J	0.052	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.11	J	0.1	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.2	J	0.095	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.074	J	<0.08	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.047	J	<0.08	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.25	J	0.19	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.29	J	<0.08	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.45		0.086	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	0.075	J	0.064	J
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.15	U	<0.35	U	<0.15	U	<0.09	U	<0.25	U	<0.35	U	0.14	J	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

						Analyte	Benzene		Ethylbenzene		Toluene		Xylenes		Bromobenzene		Bromochloromethane		Bromodichloromethane		Bromoform		Bromomethane		Carbon tetrachloride		Chlorobenzene		Chlorodibromomethane		Chloroethane		Chloroform	
						CAS No.	71-43-2		100-41-4		108-88-3		1330-20-7		108-86-1		74-97-5		75-27-4		75-25-2		74-83-9		56-23-5		108-90-7		124-48-1		75-00-3		67-66-3	
						Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
						DOH Tier 1 EAL	5		30		40		20		–		–		–		80		7.6		5		25		–		16		28	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
						Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.17		0.29		–		ND		ND		0.34		ND		0.11	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.07	U	<0.07	U	<0.15	U	<0.35	U	<0.15	U	<0.15	U	**0.17**	**J**	**0.29**	**J**	**–**		<0.07	U	<0.15	U	**0.34**		<0.25	U	**0.11**	**J**

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

							Analyte	Chloromethane		2-Chlorotoluene		4-Chlorotoluene		Dibromomethane		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		Dichlorodifluoromethane		1,1-Dichloroethane		1,2-Dichloroethane		1,1-Dichloroethene		cis-1,2-Dichloroethene		trans-1,2-Dichloroethene	
							CAS No.	74-87-3		95-49-8		106-43-4		74-95-3		95-50-1		541-73-1		106-46-7		75-71-8		75-34-3		107-06-2		75-35-4		156-59-2		156-60-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	190		–		–		–		10		5		5		–		2.8		5		7		70		100	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V		<0.35	U	<0.35	U	<0.25	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<0.35	U	<0.07	U	<0.15	U	<0.07	U	<0.15	U	<0.07	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

							Analyte	1,2-Dichloropropane		1,3-Dichloropropane		2,2-Dichloropropane		1,1-Dichloropropene		cis-1,3-Dichloropropene		trans-1,3-Dichloropropene		Methyl ethyl ketone		Methyl tert-butyl ether (MTBE)		Methylene chloride		Styrene		1,1,1,2-Tetrachloroethane		1,1,2,2-Tetrachloroethane		Tetrachloroethene		1,1,1-Trichloroethane		1,1,2-Trichloroethane	
							CAS No.	78-87-5		142-28-9		594-20-7		563-58-6		10061-01-5		10061-02-6		78-93-3		1634-04-4		75-09-2		100-42-5		630-20-6		79-34-5		127-18-4		71-55-6		79-00-5	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B		8260B	
							DOH Tier 1 EAL	5		–		–		–		–		–		5600		5		5		10		0.61		0.078		5		11		5	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result			Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.15	U		<0.07	U	<0.15	U	<0.15	U	<0.15	U	<0.15	U	<5	U	<0.25	U	<3.5	U	<0.5	U	<0.15	U	<0.15	U	<0.25	U	<0.07	U	<0.15	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

							Analyte	Trichloroethene		Trichlorofluoromethane		1,2,3-Trichloropropane		Vinyl chloride		m+p-Xylenes		o-Xylene		Lead		Disolved Lead	
							CAS No.	79-01-6		75-69-4		96-18-4		75-01-4		179601-23-1		95-47-6		7439-92-1		7439-92-1	
							Method	8260B		8260B		8260B		8260B		8260B		8260B		SW6020		SW6020	
							DOH Tier 1 EAL	5		–		0.6		2		–		–		5.6		–	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		–		–		–		–		–		–		–	
							Maximum Before 11/5/2022	–		–		–		–		–		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.33		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V		<0.15	U	<0.35	U	<0.15	U	<0.015	U	<0.25	U	<0.35	U	**0.33**	**J**	<0.08	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screei

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Appendix B.4.3 – GW Analytical Table_SVOCs

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	<0.29	U	<0.15	UJ	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	UJ	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.088	UJ	<0.088	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	–	R	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.084	U	<0.084	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.087	U	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	–	R	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	<0.3	UJ	<0.15	UJ	<0.089	UJ	<0.089	UJ	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	UJ	<0.3	UJ	<0.3	UJ	<0.15	UJ	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	–		<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V		<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V		<0.15	UJ	<0.29	UJ	–	R	<0.15	UJ	–	R	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V		–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V		<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.3	U	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V		<0.15	U	<0.3	UJ	<1.2	UJ	<0.15	UJ	<0.3	U	–		<0.15	UJ	–	R	–		–		–		<0.15	UJ	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
							CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		3.2		3.2		ND		ND		2		ND		0.2		ND		ND	
							Maximum After 11/4/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.2		3.2		ND		ND		2		ND		0.2		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	2.2	J	3.2	J	–		<5.0	U	2	J	–		<5.0	U	<5.0	U	–	
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	3.2	J	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.51	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	UJ	<0.58	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.2		3.2		ND		ND		2		ND		0.2		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		0.2	J+	<0.15	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		<0.15	UJ	<0.088	UJ	<0.15	UJ	<1.6	UJ	<0.58	UJ	–		<7.8	UJ	<0.29	UJ	–		–	R	<0.15	UJ	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.084	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.6	U	–		<8.1	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.15	UJ	<0.089	UJ	<0.15	UJ	<1.6	UJ	<0.59	UJ	–		<7.9	UJ	<0.3	UJ	–		<0.3	UJ	<0.15	UJ	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	1.7	J	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	0.98	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		<5	U	<5	U	<5	U	–	R	<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U	<5	U	<5	U
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<9.5	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		–		<4.8	U	<4.8	U	<9.6	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<10	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	UJ	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	UJ	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.15	J	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	–		<0.091	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.15		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		<0.29	UJ	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	UJ	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.088	UJ	–	R	<0.15	UJ	–		<0.088	UJ	<0.15	UJ	–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	UJ	<0.14	U	–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.084	U	<0.28	U	<0.14	U	–		<0.084	U	<0.14	U	<0.94	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.3	UJ	<0.15	UJ	<0.3	UJ	<0.15	UJ	–		<0.3	UJ	<0.3	U	<0.089	UJ	<0.3	UJ	<0.15	UJ	–		<0.089	UJ	<0.15	U	<0.99	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	UJ	<0.14	U	<0.97	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.086		1.4	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V		<5	U	<5	U	<5	U	–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.086		1.4	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V		<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V		–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V		–		<5.0	U	–		<5.0	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V		–		<4.9	U	–		<4.9	UJ
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V		–		<5.0	U	–		<5.0	UJ
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V		–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V		–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V		–		<5.1	U	–		<5.1	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V		–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V		–		<5.1	U	–		<5.1	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V		–		<5.2	U	–		<5.2	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V		–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V		–		<5	U	–		<5	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V		–		<0.57	U	<0.086	U	**1.4**	**J**
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c		–		**<0.61**	**U**	**0.086**	**J**	**<3.2**	**U**
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V		–		<0.61	U	<0.092	U	<3.3	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.0	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V		–		<0.58	U	<0.087	U	<3.1	UJ
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V		–		<0.58	U	<0.087	U	<3.1	UJ
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.086		1.4	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	–		<0.58	U	<0.087	U	–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.58	UJ	–		–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.58	U	–		–	R
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.56	U	–		<3	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	–		<0.58	UJ	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.59	U	–		<3.2	UJ
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		2.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	2.4		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	UJ	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		2.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V f	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		–	R	–	R	–	R	–	R	–	R	<0.30	U	<0.30	U	<0.15	U	–	R	–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	UJ	<0.50	U	<0.50	U	<1.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–	R	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	–	R	–	R	–	R	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V f	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V f	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<2.9	U	<2.9	U	<0.48	U	<0.48	U	<12	U	<2.9	U	<2.9	U	<1.4	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V f	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V f	<0.29	UJ	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	–	R	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		2.4		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.66		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		0.26		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V		<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V		<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V		<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V		<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V		<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V		<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.66		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		0.26		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V f		<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.31	U	–		0.46	J	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c		<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V		<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V		–	R	<0.61	UJ	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V		<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V		<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	UJ	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	UJ	–	R	–		<0.14	UJ	<5.8	U	–		–		–		<0.14	UJ	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V		<0.14	U	–	R	–	R	–	R	<0.29	U	–		–	R	<5.7	U	–		–		–		–	R	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		–	R	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V f		–	R	<0.29	U	–	R	<0.14	U	–	R	–		0.66		–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V f		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		0.34	J	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V		<0.15	UJ	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	UJ	<2.9	U	–		<1.4	U	<58	U	–		–		–		<0.14	UJ	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V f		<0.14	U	–	R	<1.1	UJ	<0.14	U	<0.29	U	–		0.34	J	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V		<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V f		<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		0.46	J	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	UJ	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V		<0.15	U	<0.3	U	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.66		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		0.26		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	UJ	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.14	UJ	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		1		ND		ND		0.21		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		1		ND		ND		0.21		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V f	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		–		–		**<0.15**	**U**	**<0.091**	**U**	**<0.15**	**U**	**0.75**	**J**	**<0.61**	**UJ**	–		**<0.51**	**U**	**<0.30**	**U**	–		**<0.30**	**U**	**<0.15**	**U**	–	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		**0.21**	**J**	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	UJ	<0.59	U	–		<7.9	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<8.0	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		–	R	<0.14	UJ	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	R	–	R	–	R	–	R	–	R	–		–	R	–	R	–		–	R	–	R	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V f	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V f	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<2.9	U	<1.4	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V f	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V f	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		1		ND		ND		0.21		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	1	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.33		ND		ND		ND		2.7		ND		0.19		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	<5	U	<5	U	<5	U	–	R	<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	–		<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	2.7	J	<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.33		ND		ND		ND		2.7		ND		0.19		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V f	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	0.33	J	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	0.19	J	<1.0	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	–	R	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	–	R	–	R
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.98	U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		<0.30	U	<0.15	U	–	R	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.30	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	–	R	<0.14	UJ	–		<0.087	UJ	<0.14	U	–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–	R	–	R	–	R	–	R	–		–	R	<0.29	U	–	R	–	R	–	R	–		–	R	<0.14	U	–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	–	R	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.95	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V f	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V f	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<2.9	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V f	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V f	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.33		ND		ND		ND		2.7		ND		0.19		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.26		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V		<5	U	<5	U	<5	U	–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V		–		<5.0	U	–		<5.0	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V		–		<5.2	U	–		<5.2	UJ
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V		–		<5	U	–		<5	U
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V		–		<4.9	U	–		<4.9	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		0.26		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V f	–		<0.61	U	<0.092	U	<3.3	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	–		**<0.61**	**U**	**0.26**	**J**	**<3.2**	**U**
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	–		–	R	<0.091	U	<3.2	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	–		<0.59	U	<0.089	U	<3.1	UJ
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	UJ
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.58	U	–		–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.57	U	–		–	R
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V f	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V f	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.58	U	–		<3.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V f	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V f	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.57	U	–		–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		0.26		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	–		<0.57	U	–		<3.1	UJ

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<3.0	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.30	U	<0.15	UJ	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	UJ	<0.50	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.28	U	<0.14	U	<0.084	U	<0.084	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<2.9	U	<1.5	U	<0.88	U	<0.88	U	–		<2.9	U	<2.9	U	<4.9	U	<4.9	U	<12	UJ	<2.9	U	<2.9	U	<1.5	U	<1.5	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V		<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V		<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–	R	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V		<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	–		<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V		<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V		<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V		<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Analyte	2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V		<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c		<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V		<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V		<0.14	U	<0.57	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–		–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V		<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	UJ	–		<0.15	UJ	<6.0	UJ	–		–		–		<0.15	UJ	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		–	R	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V		–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V		<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V		<0.14	U	–	R	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V		<0.14	UJ	–	R	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW03

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<1.5	U	<2.9	U	<12	UJ	<1.5	U	<2.9	U	–		<1.5	U	–	R	–		–		–		<1.5	U	–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Analyte	Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
							CAS No.	205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		0.24		ND		3.8		0.39		ND		0.34		ND		ND		0.15		ND		ND	
							Maximum After 11/4/2022	–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW03

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.24		ND		3.8		0.39		ND		0.34		ND		ND		0.15		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		–		–		<0.15	U	<0.091	U	<0.15	U	0.87	J	<0.61	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		0.34	J	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	3.8	J+	<0.59	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<8.0	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		0.15	J-	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	0.3	J	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.15	U	0.24		<0.15	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.24		ND		3.8		0.39		ND		0.34		ND		ND		0.15		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.084	U	<0.14	U	<1.5	U	**0.39**	J	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<1.5	U	<0.88	U	<1.5	U	<16	U	<5.9	U	–		<79	U	<2.9	U	–		<2.9	U	<1.5	U	–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V		<5	U	<5	U	<5	U	–	R	<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<5	U	<10	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V		<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<9.9	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		–		<4.8	U	<4.8	U	<9.5	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	UJ	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V		–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1	U		
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U		
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U		
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	–		<0.085	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.57	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U		
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	–		<0.30	UJ	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.30	UJ	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	UJ	<0.14	U	–	R		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.19	J	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.15	J	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U		
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.14	J	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R		
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U		

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.19		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.084	U	<0.28	U	<0.14	U	–		<0.084	U	<0.14	U	<0.94	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	–		<2.9	U	<1.5	U	<2.9	U	<1.5	U	–		<2.9	U	<2.9	U	<0.88	U	<2.9	U	<1.5	U	–		<0.88	U	<1.5	U	<9.8	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.097		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V		<5	U	<5	U	<5	U	–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V		<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V		–		<4.8	U	–		<4.8	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V		–		<4.9	U	–		<4.9	UJ
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V		–		<5	U	–		<5	U

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW03

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.097		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V		–		<0.61	U	<0.092	U	<3.3	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c		–		**<0.61**	**U**	**0.097**	**J**	**<3.2**	**U**
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V		–		<0.59	U	<0.088	U	<3.1	UJ
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V		–		<0.60	U	<0.090	U	–	R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V		–		<0.58	U	–		–	R
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V		–		<0.56	U	–		<3	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V		–		<0.57	U	–		<3	UJ
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V		–		<0.57	UJ	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V		–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							Phenanthrene		Phenol		Pyrene		Pyridine	
						Analyte								
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		0.097		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.56	U	–		–	R
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	–		<5.9	U	–		<31	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	–		<0.59	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.29	UJ	<0.15	UJ	<0.088	UJ	<0.088	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	UJ	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	UJ	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.9	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When tl

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		3.4		ND		–		ND		ND		–		0.3		0.067		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	3.4	J	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.3	J	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		<0.15	UJ	<0.088	UJ	<0.15	UJ	<1.6	UJ	<0.59	UJ	–		<7.8	UJ	<0.29	UJ	–		<0.29	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		<0.15	UJ	<0.087	UJ	<0.15	UJ	<1.6	UJ	<0.58	UJ	–		<7.8	UJ	<0.29	UJ	–		<0.29	UJ	<0.15	UJ	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		0.19	J	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	0.067	J	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		3.4		ND		–		ND		ND		–		0.3		0.067		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	UJ	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	UJ	<0.15	UJ	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.6	U	–		<8.1	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When tl

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		0.15		ND		0.36		ND		–		ND		0.11		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	U
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	0.36	J	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.088	UJ	<0.29	UJ	<0.15	UJ	–		<0.088	UJ	<0.15	UJ	–	R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.15	UJ	–		<0.087	UJ	<0.15	UJ	–	R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.08	J	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	UJ	<0.96	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.95	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.28	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		0.15		ND		0.36		ND		–		ND		0.11		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	UJ	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	UJ	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	–	R	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.15	J	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.11	J	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When tl

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		0.7		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	–		<5.0	U	–		<5.0	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	–		<0.60	U	<0.090	U	<3.2	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	–		<0.61	U	<0.091	U	<3.2	U
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	–		<0.56	U	<0.085	U	<3.0	UJ
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	–		<0.58	U	<0.086	U	<3.1	U
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	–		<0.58	U	<0.087	U	<3.1	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	–	R
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.57	U	–		–	R
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		<0.59	UJ	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	–		<0.58	UJ	–		<3.1	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	–		<0.57	UJ	–		<3	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		0.7		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V		–		<0.59	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V		–		<0.57	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V		–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V		–		<0.59	U	–		<3.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V		–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V		–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V		–		<0.58	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V		–		<0.57	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V		–		0.7	J	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V		–		0.51	J	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V		–		<0.58	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V		–		<0.57	U	–		–	R
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V		–		<0.6	U	–		<3.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V		–		<0.6	U	–		<3.2	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V		–		<0.59	U	–		<3.1	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V		–		<0.57	U	–		<3	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V		–		<0.57	U	–		<3.1	U

Notes:

1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When tl

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		–		–		–		–		–		ND		ND		ND		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.29	U	<0.15	UJ	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	UJ	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		–		–		–		–		–		ND		ND		ND		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.15	U	–	R	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND		–		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<9.6	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	–		<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	–		<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.15	U	<0.58	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	**<0.15**	**U**	**<0.60**	**UJ**	**<1.2**	**UJ**	**<0.15**	**U**	**<0.30**	**U**	–		**<0.15**	**U**	**<6.0**	**U**	–		–		–		**<0.15**	**U**	–		–		–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	UJ	–		<0.15	UJ	<5.9	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND		–		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V		<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V		<0.14	U	–	R	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V		<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V		–	R	<0.29	UJ	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		12		ND		ND		ND		ND		ND		0.2		0.46		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	UJ	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		0.2	J	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		12		ND		ND		ND		ND		ND		0.2		0.46		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	0.46	J	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	–		–		–		<0.15	UJ	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	6	J	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	UJ	1.4	J	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	1.3	J	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	12		<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	0.74	J	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		–		ND		ND		ND		–		ND		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<10	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ	<9.6	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	–		–		<4.9	U	<4.9	U	<9.8	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	UJ	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	–		<0.087	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.58	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	–		<0.29	UJ	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	UJ	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	UJ	<0.29	U	<0.15	U	–		<0.088	UJ	<0.15	U	–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		–		ND		ND		ND		–		ND		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	U	<0.14	U	–		<0.28	UJ	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	–	R	<0.087	U	<0.29	U	<0.15	U	–		<0.087	UJ	–	R	–	R

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		0.3		ND	
							Maximum After 11/4/2022	–		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V		<4.8	UJ	<4.8	UJ	<4.8	UJ	<4.8	UJ
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V		–		<4.9	U	–		<4.9	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V		–		<4.8	U	–		<4.8	UJ
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V		–		<5.1	UJ	–		<5.1	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V		–		<0.58	U	<0.087	U	<3.1	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c		–		**<0.60**	**U**	**0.3**	**J**	**<3.2**	**U**
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V		–		<0.58	U	<0.086	U	<3.1	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V		–		<0.58	U	<0.087	U	<3.1	UJ
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V		–		<0.59	U	<0.088	U	–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V		–		<0.59	U	–		–	R
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V		–		<0.57	U	–		<3.1	UJ
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V		–		<0.59	U	–		<3.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		0.3		ND	
Maximum After 11/4/2022							–		–		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		<0.58	UJ	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	–		<0.58	UJ	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.58	U	–		–	R
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	–		–	R	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.3	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.30	U	<0.15	U	<0.089	U	<0.089	U	–		<0.30	U	<0.30	U	<0.49	U	<0.49	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	–		<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	UJ	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		<0.15	U	<0.61	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		<0.15	U	<0.30	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	UJ	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	UJ	–	R	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		<0.14	UJ	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V		<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V		<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.36		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–			
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–			
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–			
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–			
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–			
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	UJ	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–			
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–			
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		0.36	J+	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.30	U	–		0.15	J+	<0.15	U	–			
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		–	R	<0.14	UJ	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.7	UJ	<0.29	UJ	–		–	R	<0.14	UJ	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–			
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.36		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	UJ	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.26		ND		ND		ND		ND		0.19		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	–		–		<4.9	U	<4.9	U	<9.8	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	UJ	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		–		<0.30	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	0.26	J	<0.089	U	<0.30	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	–	R	<0.14	UJ	–		<0.086	UJ	<0.14	U	–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	0.2	J	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	UJ	–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	0.19	J	<0.97	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V		–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.96	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V		–		<0.29	U	<0.19	UJ	<0.39	UJ	<0.19	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.26		ND		ND		ND		ND		ND		0.19		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.67		0.16		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		–		<4.9	U	–		<4.9	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		–		<4.8	U	–		<4.8	UJ
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		–		<0.61	U	<0.091	U	<3.3	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		–		<0.61	U	**0.16**	**J**	<3.2	U
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	UJ
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		–		**<0.58**	**U**	**<0.086**	**U**	**<3.1**	**UJ**
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		–		<0.59	U	<0.089	U	<3.2	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		<0.57	U	–		–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		<0.57	U	–		–	R
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		<0.57	U	–		<3	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		<0.58	UJ	–		<3.1	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V		–		**0.67**	**J**	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V		–		<0.57	UJ	–		<3.1	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V		–		<0.57	U	–		–	R
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V		–		<0.57	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.67		0.16		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V		–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.48	UJ	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
							CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V		<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V		<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V		<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V		<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V		<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.15	U	<0.62	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.28	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.2	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		4.9		ND		ND		ND		ND		ND		0.64		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	4.9	J	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	4	J	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.24	J	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.62	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		0.64	J+	<0.15	U	–	
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.2	J+	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		<0.15	UJ	<0.087	UJ	<0.15	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.15	UJ	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		4.9		ND		ND		ND		ND		ND		0.64		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	UJ	<0.59	UJ	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.087		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	UJ	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.62	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	0.068	J	<1.0	UJ
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	UJ	<0.085	U	<0.28	U	<0.14	UJ	–		<0.085	U	<0.14	UJ	<0.95	U
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.15	UJ	–		<0.087	UJ	<0.15	UJ	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	0.087	J	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.96	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.087		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V		–		<0.29	U	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V		–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V		–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	UJ	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.085	J	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.43		0.097		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	–		<4.9	U	–		<4.9	UJ
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	–		<5	U	–		<5	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	–		<5	U	–		<5	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	–		<0.60	U	<0.091	U	<3.2	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	–		<0.62	U	0.097	J	<3.3	U
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	–		<0.61	U	<0.091	U	<3.2	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	–		<0.57	U	<0.085	U	<3.0	UJ
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		<0.58	U	–		–	R
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	–		<0.57	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.43		0.097		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	–		<0.57	U	–		–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.56	U	–		<3	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	–		0.43	J	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.58	U	–		–	R
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.29	UJ	<0.28	U	<0.48	UJ	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	UJ	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	R	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.14	U	–	R	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.14	UJ	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.3		0.36		ND		ND		ND		ND		0.44		0.23		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	3.3	J	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–			
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–			
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–			
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–			
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–			
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		0.44	J+	<0.15	U	–			
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	UJ	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	UJ	<0.15	U	–			
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–			
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	0.36	J	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	0.23	J	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	UJ	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	UJ	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		0.14	J	<0.14	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–			
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–			

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.3		0.36		ND		ND		ND		ND		0.44		0.23		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.28		ND		ND		ND		ND		0.33		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V		<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<10	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V		–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V		–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	UJ	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V		–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V		–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.087	U	<0.29	U	<0.14	UJ	–		<0.087	U	<0.14	UJ	<0.96	UJ
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	UJ	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	–	R	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	–	R	–	R
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V		–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V		–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V		–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V		–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V		–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V		–		<0.29	U	–	R	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	UJ	<0.087	U	<0.29	UJ	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	UJ
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V		–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.28		ND		ND		ND		ND		ND		0.33		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	**0.28**	**J**	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	**0.33**	**J**	<0.95	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		1.9		0.18		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V		<5	U	<5	U	<5	U	<5	U
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V		<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V		–		<4.9	U	–		<4.9	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V		–		<5	U	–		<5	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	UJ
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V		–		<0.61	U	**0.18**	**J**	<3.2	U
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V		–		<0.58	UJ	<0.087	U	<3.1	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V		–		<0.58	U	<0.086	U	<3.1	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		–	**R**	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V		–		<0.61	U	–		<3.2	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V		–		<0.58	U	–		–	**R**
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V		–		<0.58	U	–		–	**R**
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V		–		<0.58	UJ	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V		–		<0.56	U	–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V		–		<0.61	U	–		<3.3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V		–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		1.9		0.18		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	–		**1.9**		–		<3	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	UJ	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.47	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		–	R	<0.29	U	–	R	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	–	R	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	<0.14	U	<0.57	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		–	R	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.14	U	–	R	<1.1	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14	UJ	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.14	UJ	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.31		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		–		–		**<0.15**	U	**<0.091**	U	**<0.15**	U	**<1.6**	U	**<0.60**	U	–		**<0.50**	U	**<0.30**	U	–		**0.31**	J	**<0.15**	U	–	
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		–	R	<0.14	UJ	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	U	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		0.31		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<9.5	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.087	U	<0.29	U	<0.14	U	–		<0.087	UJ	<0.14	U	<0.96	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.23		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V		–		<4.9	U	–		<4.9	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V		–		<5.1	U	–		<5.1	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V		–		<4.9	U	–		<4.9	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d		–		<0.60	U	<0.091	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V		–		<0.57	U	<0.086	U	<3.0	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V		–		<0.57	U	<0.085	U	<3.0	UJ
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.0	U
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V		–		<0.58	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.0	UJ
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		<0.57	U	–		–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		<0.57	U	–		–	R
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		–		0.23	J	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		–		<0.57	U	–		–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		–		<0.58	U	–		–	R
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

						Analyte	Phenanthrene			Phenol			Pyrene			Pyridine			
						CAS No.	85-01-8			108-95-2			129-00-0			110-86-1		
						Method	SW8270C			SW8270C			SW8270C			SW8270C		
						DOH Tier 1 EAL	2.3			58			4.6			–		
						Units	µg/L			µg/L			µg/L			µg/L		
						Minimum Before 11/5/2022	ND			ND			ND			ND		
						Maximum Before 11/5/2022	ND			0.23			ND			ND		
						Maximum After 11/4/2022	–			ND			–			ND		
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**			**Result**			**Result**			**Result**		
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK3	11/22/2022	Primary	V	–			<0.57	U		–			<3	U	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	–			<0.57	U		–			<3.1	U	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	R	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	UJ	–		–		–		<0.15	U	–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		5		0.28		ND		ND		ND		ND		0.27		1.6		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		4		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	2.1	J	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.27	J	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	0.8	J	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	5		<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	0.28	J	–		<7.7	UJ	<0.29	U	–		<0.29	U	1.6	J+	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		5		0.28		ND		ND		ND		ND		0.27		1.6		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		4		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	4		<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.12		ND		ND		ND		ND		ND		0.098		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	UJ	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		0.12	J	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	–		<0.29	U	–	R	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.12		ND		ND		ND		ND		ND		ND		0.098		ND	
Maximum After 11/4/2022							–		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.098	J	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.96	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.59		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V		<5.2	U	<5.2	U	<5.2	U	<5.2	U
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V		–		<5.0	U	–		<5.0	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	UJ
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V		–		<0.56	U	<0.085	U	<3.0	UJ
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V		–		<0.57	U	<0.085	U	<3	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V		–		<0.57	U	<0.086	U	–	R
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		<0.61	U	–		<3.2	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		<0.6	U	–		<3.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V		–		<0.61	U	–		<3.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		0.59		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	–		0.59	J	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.29	U	<0.14	U	<0.088	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.28	UJ	<0.14	UJ	<0.085	UJ	<0.085	UJ	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	UJ	<0.28	UJ	<0.14	UJ	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.15	U	<0.3	UJ	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.2	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	UJ	<0.28	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.14	UJ	<0.29	UJ	–	R	<0.14	U	<0.29	UJ	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		16		ND		ND		ND		ND		ND		0.44		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		0.37		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	16		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.6	UJ	–		<0.5	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	UJ	–		<0.30	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		0.44	J+	<0.15	U	–	
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		–	R	<0.15	UJ	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	5.6	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	2.3	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	14	J	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	2	J	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	–		–		–		<0.15	U	<0.088	UJ	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		16		ND		ND		ND		ND		ND		0.44		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		0.37		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	UJ	<0.085	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.28	UJ	–		<0.28	UJ	<0.14	UJ	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	**0.37**	**J**	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	–		<0.091	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.6	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	U
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	UJ	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.95	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		–		<0.28	UJ	<0.14	UJ	<0.28	UJ	<0.14	UJ	–		<0.28	UJ	<0.28	U	<0.085	UJ	<0.28	UJ	<0.14	UJ	–		<0.085	UJ	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	UJ	<0.087	U	<0.29	U	<0.14	U	–		<0.087	UJ	<0.14	UJ	<0.96	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V		<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V		–		<5.0	U	–		<5.0	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V		–		<5.2	U	–		<5.2	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V		–		<0.6	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V		–		<0.57	U	<0.085	U	<3	UJ
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V		–		<0.57	U	<0.086	U	<3	U
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V		–		<0.58	U	–		–	R
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V		–		<0.61	U	–		<3.2	UJ
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V		–		<0.59	U	–		<3.2	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V		–		<0.6	U	–		<3.2	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V		–		<0.57	UJ	–		<3.1	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V		–		<0.59	U	–		<3.2	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V		–		<0.57	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		–		<0.57	U	–		<3	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		–		<0.57	U	–		–	R
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		–		<0.58	UJ	–		<3.1	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.15	U	–	R	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		–	R	–	R	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.3	UJ	<0.15	UJ	<0.09	UJ	<0.09	UJ	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	UJ	<0.3	UJ	<0.15	UJ	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	–		<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.15	U	<0.61	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	UJ	<0.3	U	–		<0.15	UJ	<6	U	–		–		–		<0.15	UJ	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.029		ND		4.5		ND		ND		ND		ND		ND		0.27		0.98		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	4.5	J	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.27	J	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<8.0	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.14	J	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	–	R	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		<0.15	UJ	<0.09	UJ	<0.15	UJ	<1.6	UJ	<0.6	UJ	–		<8	UJ	<0.3	UJ	–		<0.3	UJ	<0.15	UJ	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	UJ	<0.6	UJ	–		<8.1	UJ	<0.3	U	–		<0.3	U	0.98	J+	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	UJ	<1.6	U	<0.59	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		0.029		ND		4.5		ND		ND		ND		ND		ND		0.27		0.98		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	0.029	J	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.1		0.15		ND		ND		ND		ND		ND		0.14		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	–		–		<5.2	U	<5.2	U	<10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	–		<0.30	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.30	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	UJ
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	UJ	<0.29	U	<0.15	U	–		<0.088	UJ	<0.15	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		<0.3	UJ	<0.15	UJ	<0.3	UJ	<0.15	UJ	–		<0.3	UJ	<0.3	U	<0.09	UJ	<0.3	UJ	<0.15	UJ	–		<0.09	UJ	<0.15	U	<1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	–		<0.3	U	<0.15	UJ	<0.3	U	<0.15	U	–		0.1	J	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	0.11	J	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	0.14	J	<0.97	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	UJ	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.1		0.15		ND		ND		ND		ND		ND		0.14		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	0.15	J	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.12	J	<0.96	UJ
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.8		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V		–		<5.2	U	–		<5.2	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V		–		<5.2	U	–		<5.2	UJ
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V		–		<5.0	U	–		<5.0	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V		–		<5	U	–		<5	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d		–		<0.60	U	<0.091	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	UJ
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.1	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V		–		<0.57	U	<0.086	U	–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V		–		<0.58	U	–		–	R
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V		–		<0.57	U	–		<3.2	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V		–		<0.6	U	–		<3.2	UJ
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V		–		<0.59	U	–		<3.2	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V		–		<0.6	U	–		<3.2	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V		–		0.19	J	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V		–		<0.58	U	–		–	R
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V		–		<0.6	U	–		<3.2	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		0.8		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	–		**0.8**	**J**	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
							CAS No.	120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V		<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	UJ	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V		<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V		<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V		<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V		<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V		<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		<0.31	UJ	<0.16	UJ	<0.093	UJ	<0.093	UJ	–		<0.31	U	<0.31	U	<0.52	U	<0.52	U	<1.2	U	<0.31	UJ	<0.31	UJ	<0.16	UJ	<0.16	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V		<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V		<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	UJ	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V		<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V		<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.3	UJ	<0.15	UJ	<0.089	UJ	<0.089	UJ	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	UJ	<0.3	UJ	<0.3	UJ	<0.15	UJ	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK2	11/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	UJ	–	R	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V		<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V		<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V		<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V		<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V		<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V		<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V		<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	UJ	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V		<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V		<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V		<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V		<0.15	U	<0.29	UJ	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	UJ	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V		<0.16	U	<0.31	UJ	<1.2	U	<0.16	UJ	<0.31	U	–		<0.16	UJ	–	R	–		–		–		–	R	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V		<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V		<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V		<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V		<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V		<0.15	U	<0.3	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V		<0.14	UJ	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V		<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	UJ	<0.15	UJ	<0.3	U	–		<0.15	UJ	–	R	–		–		–		<0.15	UJ	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK2	11/17/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.3	UJ	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		4.1		ND		ND		38		ND		ND		0.26		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	UJ	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	4.1	J	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		38		<5	U	–		<5	U	<5	U	–	
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	UJ	<0.60	UJ	–		<0.50	U	<0.30	U	–		0.15	J	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	UJ	<1.6	UJ	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		0.26	J+	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		<0.16	UJ	<0.093	UJ	<0.16	UJ	<1.7	UJ	<0.62	UJ	–		<8.3	UJ	<0.31	UJ	–		<0.31	UJ	<0.16	UJ	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		4.1		ND		ND		38		ND		ND		0.26		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	–		–		–		<0.15	UJ	<0.089	UJ	<0.15	UJ	<1.6	UJ	<0.59	UJ	–		<7.9	UJ	<0.3	UJ	–		<0.3	UJ	<0.15	UJ	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	UJ	<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.67		ND		ND		ND		ND		ND		0.65		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<5.3	UJ	<5.3	U	<5.3	U	<5.3	U	<11	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	UJ	<5.1	UJ	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		<0.31	UJ	<0.16	UJ	–	R	<0.16	UJ	–		<0.31	UJ	<0.31	U	<0.093	UJ	–	R	<0.16	UJ	–		<0.093	UJ	<0.16	U	<1	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	–		<0.28	U	<0.14	UJ	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	**0.67**	**J**	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	**0.65**		<0.97	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.67		ND		ND		ND		ND		ND		0.65		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	–		<0.3	UJ	<0.15	UJ	<0.3	UJ	<0.15	UJ	–		<0.3	UJ	<0.3	U	<0.089	UJ	<0.3	UJ	<0.15	UJ	–		<0.089	UJ	<0.15	U	<0.98	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.96	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	UJ	<0.15	U	<1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	–		<4.9	U	–		<4.9	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	–		<5.1	U	–		<5.1	UJ
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	–		<5	U	–		<5	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	–		<5.1	U	–		<5.1	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	–		<0.59	U	<0.088	U	<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		<0.62	UJ	–		–	R
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		<0.61	U	–		<3.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	–		<0.58	U	–		–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		<0.58	U	–		<3.1	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	–		<0.59	U	–		<3.1	UJ
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	–		<0.58	U	–		–	R
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	–		<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.29	U	<0.14	UJ	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	<0.29	U	–	R	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.15	U	<0.3	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2.2		ND		ND		ND		ND		ND		0.23		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	2.2	J	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.23	J	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	1.3	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		2.2		ND		ND		ND		ND		ND		0.23		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	<9.5	U		
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U		
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<10	U		
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U		
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U		
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U		
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U		
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U		
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U		
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U		
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	–		<0.29	UJ	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	UJ	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	–	R		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U		
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ		
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U		

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
							CAS No.	86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V		–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V		–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V		–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<0.99	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V		–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V		–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V		–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	UJ	<0.15	U	<0.97	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.35		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V		<4.8	U	<4.8	U	<4.8	U	<4.8	U
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V		<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V		–		<5.0	U	–		<5.0	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V		–		<4.9	U	–		<4.9	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d		–		<0.60	U	<0.090	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V		–		<0.57	U	<0.085	U	<3.0	UJ
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V		–		<0.57	U	<0.086	U	<3.0	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	<3.1	UJ
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	UJ
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V		–		<0.58	U	<0.086	U	<3.1	UJ
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V		–		<0.58	U	<0.086	U	–	R
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V		–		<0.57	U	<0.086	U	–	R
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		–		<0.57	U	–		–	R
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		–		<0.57	U	–		<3.1	UJ
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V		–		<0.57	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		0.35		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	–		**0.35**	**J**	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	–		<0.57	U	–		–	**R**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	–		<0.6	U	–		<3.2	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	**R**
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	UJ	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	UJ	–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		11		ND		–		ND		0.19		–		0.83		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	3.1		<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	11		<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	3.8		<0.57	U	–		<7.6	U	0.19	J	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		0.83	J	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
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D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.091		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.091	J	<0.95	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.96	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	UJ	–		<0.28	UJ	<0.28	U	<0.085	UJ	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	–	R
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.96	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
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B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		–		ND	
							Maximum Before 11/5/2022	–		ND		–		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		–		<0.56	U	–		<3	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V		–		<0.58	UJ	–		<3.1	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V		–		<0.59	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V		–		<0.58	U	–		–	R
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V		–		<0.58	U	–		<3.1	U

Notes:
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d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
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Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.29	UJ	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.29	UJ	<0.14	U	<0.087	U	<0.087	U	–		<0.29	UJ	<0.29	U	<0.48	UJ	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	UJ	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Groundwater Sampling: RHMW19

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.14	U	–	R	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.15	UJ	<0.29	U	–	R	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		3.6		ND		–		ND		ND		–		0.34		0.15		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	2.9	J	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	3.6	J	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	UJ	<1.6	UJ	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		0.34	J+	<0.14	U	–	
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	1.1	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	1	J	<0.58	U	–		<7.7	U	–	R	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	1.7	J	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	0.15	J	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	UJ	<0.58	UJ	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	UJ	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		3.6		ND		–		ND		ND		–		0.34		0.15		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	U	–		<8	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	3.5		<0.6	U	–		<8	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	UJ
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.3	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.97	UJ
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		0.2		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V		–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V		–		<5.1	U	–		<5.1	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V		–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V		–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V		–		<5	U	–		<5	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.1	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V		–		<0.58	U	<0.087	U	<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V		–		<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V		–		<0.61	U	–		<3.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V		–		<0.57	U	–		–	R
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V		–		0.2	J	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V		–		<0.58	U	–		–	R
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V		–		<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V		–		<0.57	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V		–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		0.2		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**			**Result**		**Result**		**Result**	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	–			<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	–			<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	–			<0.6	U	–		<3.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	–			<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	–			<0.58	U	–		<3.1	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	–			<0.6	U	–		<3.2	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	–			**0.18**	**J**	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	–			<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	–			<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	–			<0.57	U	–		<3	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	–			<0.57	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<10	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.28	UJ	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	UJ	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	R	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<10	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	–		<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<10	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	–		<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–		<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	–		<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	–		<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<5.0	U	<5.0	U	<10	U	<5.0	U	<5.0	U	–		<5.0	U	<10	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<5	U	<5	U	<9.9	U	<5	U	<5	U	<5	U	<5	U	<9.9	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<4.9	U	<4.9	U	<9.7	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.7	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.15	U	<0.61	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	UJ	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	UJ	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	<0.15	U	<0.3	U	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.29	UJ	–	R	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	118		<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	54		<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	2.4	J-	<5	UJ	<5	UJ	4.6	J-	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	9.2	J-	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	9.2	J-	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	2.6	J	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		2.9	J	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		3.1	J	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	3.9	J	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	0.78	J	<0.61	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	1.4	J	<0.61	U	–		<0.51	U	<0.31	U	–		<0.31	UJ	<0.15	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	5.2	J+	<0.57	U	–		<7.6	U	<0.29	UJ	–		0.34	J+	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	1.5	J	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		0.4	J	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	2.8	J	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	UJ	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	UJ	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	UJ	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	UJ	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	UJ	<0.15	UJ	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		118		ND		ND		9.2		ND		ND		0.4		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	UJ	<1.6	UJ	<0.59	U	–		<7.9	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	UJ	<5	U	<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ	<10	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<5	UJ	<10	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<9.9	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	–		–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	–		–		<5.0	U	<5.0	U	<10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	UJ	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<9.9	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
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Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.7	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	UJ	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	UJ	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	–		<0.092	UJ	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	UJ
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	UJ
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	UJ	<0.95	UJ
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	–	R	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	UJ	<0.15	U	<0.98	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	UJ
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<5	U	<5	U	<5	U	<5	U
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<5.1	UJ	<5.1	UJ	<5.1	UJ	<5.1	UJ
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<5	UJ	<5	UJ	<5	UJ	<5	UJ
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	–		<5.0	U	–		<5.0	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	–		<5.0	U	–		<5.0	UJ
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	–		<5.2	U	–		<5.2	UJ
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	–		<5	U	–		<5	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	–		<5	U	–		<5	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V		–		<4.9	U	–		<4.9	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V		–		<4.9	U	–		<4.9	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V		–		<5	U	–		<5	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V		–		<5	U	–		<5	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V		–		<4.8	U	–		<4.8	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	UJ
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	UJ
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V		–		<0.61	U	<0.092	U	<3.3	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V		–		<0.61	U	<0.092	U	<3.3	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V		–		<0.58	U	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.0	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.1	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V		–		<0.58	U	<0.087	U	<3.1	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.0	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V		–		<0.57	U	<0.086	U	–	R
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V		–		<0.59	U	<0.088	U	–	R
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V		–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3.1	UJ
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	–		<0.59	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.59	U	–		<3.2	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.57	U	–		<3.1	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	–		<0.59	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Choronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		5.2		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND	
Maximum before 2/04/2022							ND		ND		5.2		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<5	U	<5	U	5.2	J	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		5.2		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND	
Maximum before 2/04/2022							ND		ND		5.2		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does r

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result i

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U	<5	U
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does r

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result i

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<5	U	<5	U	<5	U	–	R	<5	U	<5	U	<5	U	<5	U	<5	U	–		–		<5	U	<5	U	<5	U	<5	U	<5	U
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND		ND		ND	
Maximum before 2/04/2022							ND		ND		ND		–		ND		ND		ND		ND		ND		–		–		ND		ND		ND		ND	
Current Maximum							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does r

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result i

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		–	
Maximum before 2/04/2022							ND		ND		ND		–	
Current Maximum							–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<5	U	<5	U	<5	U	–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–		–		–		–	

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum before 2/04/2022							ND		ND		ND		–	
Maximum before 2/04/2022							ND		ND		ND		–	
Current Maximum							–		–		–		–	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the s

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does r

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample we

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result i

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.31	U	<0.15	U	<0.093	U	<0.093	U	–		<0.31	U	<0.31	U	<0.52	U	<0.52	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		–	R	–	R	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	–	R	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.31	U	<0.16	U	<0.094	U	<0.094	U	–		<0.31	U	<0.31	U	<0.52	U	<0.52	U	<1.3	UJ	<0.31	U	<0.31	U	<0.16	U	<0.16	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	R	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	–		<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	<0.15	U	<0.62	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	–	R	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.16	U	<0.31	U	<1.3	UJ	<0.16	U	<0.31	U	–		<0.16	U	–	R	–		–		–		<0.16	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND		0.19		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.19	J	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		–		–		<0.15	U	<0.093	U	<0.15	UJ	<1.6	U	<0.62	U	–		<0.52	U	<0.31	UJ	–		<0.31	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	1.1	J+	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	UJ	<1.6	UJ	<0.59	U	–		<7.8	U	<0.29	UJ	–		<0.29	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		–	R	<0.14	UJ	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		0.18	J	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	–	R	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		1.1		ND		ND		ND		ND		ND		0.19		ND		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	–		–		–		<0.16	U	<0.094	U	<0.16	U	<1.7	UJ	<0.63	U	–		<8.4	U	<0.31	UJ	–		<0.31	U	<0.16	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.14		ND		ND		ND		ND		ND		0.12		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		–		<4.8	U	<4.8	U	<9.5	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<10	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	UJ	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		<0.093	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.093	U	<0.62	U	<0.15	U	–		<0.093	U	<0.15	U	<1.0	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		<0.29	U	<0.15	UJ	<0.29	UJ	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	UJ
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.95	U
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	–	R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	UJ	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	UJ	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	<0.96	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		0.14		ND		ND		ND		ND		ND		0.12		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	0.14	J	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	0.12	J	<0.94	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	UJ	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	UJ	<0.14	U	<0.95	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	–		<0.31	U	<0.16	U	<0.31	U	<0.16	U	–		<0.31	U	<0.31	U	<0.094	U	<0.31	U	<0.16	U	–		<0.094	U	<0.16	U	<1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte						Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.						85-01-8		108-95-2		129-00-0		110-86-1	
Method						SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL						2.3		58		4.6		–	
Units						µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022						ND		ND		ND		ND	
Maximum Before 11/5/2022						ND		0.65		ND		ND	
Maximum After 11/4/2022						–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V	–		<4.9	U	–		<4.9	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V	–		<5.2	U	–		<5.2	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V	–		<0.60	U	<0.091	U	<3.2	UJ
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V	–		<0.62	U	<0.093	U	<3.3	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V	–		<0.59	U	<0.088	U	<3.1	UJ
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V	–		<0.57	UJ	–		<3.1	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V	–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		0.65		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	–		**0.65**	**J**	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	–		<0.63	U	–		<3.3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		6500		ND		ND		ND		ND		ND		ND		ND		ND		ND		8990	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	6500		<417	U	<417	U	<417	U	<417	U	<834	U	<417	U	<417	U	<417	U	<417	U	8990	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	2.4	J-	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	–		<5.1	U	<5.1	U	–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<5.3	U	<5.3	U	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	UJ	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.51	U	<0.51	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	UJ	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		6500		ND		ND		ND		ND		ND		ND		ND		ND		ND		8990	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.29	UJ	<0.15	UJ	<0.088	UJ	<0.088	UJ	–		<0.29	UJ	<0.29	UJ	<0.49	UJ	<0.49	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.15	UJ	<0.15	UJ	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<834	U	<417	U	<417	U	<417	U	<417	U	<834	UJ	<417	U	<417	U	<417	U	<417	U	<834	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<11	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	–	R	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	–		<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	<5.3	U	<5.3	U	<11	U	<5.3	U	<5.3	U	<5.3	U	<5.3	U	<11	U	–		–		–		<5.3	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.15	U	<0.62	U	<1.2	UJ	<0.15	U	<0.31	U	–		<0.15	U	<6.2	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	U	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	UJ	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	UJ	<0.29	UJ	–		<0.15	UJ	<5.8	UJ	–		–		–		<0.15	UJ	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–	R	<0.29	UJ	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.3		284		ND		ND		ND		ND		0.19		0.16		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	284	J	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	UJ	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	3.3	J	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		–		–		<5.3	U	<5.3	U	<5.3	U	3.3	J	<5.3	U	–		<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	–	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	UJ	–		<0.5	U	<0.3	U	–		0.19	J	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.092	U	<0.15	U	<1.6	U	<0.62	U	–		<0.51	U	<0.31	U	–		<0.31	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<0.51	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	0.16	J+	–	
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.6	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	1.4	J	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	UJ	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	–		–		–		<0.15	UJ	<0.088	U	<0.15	UJ	<1.6	UJ	<0.58	UJ	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		3.3		284		ND		ND		ND		ND		0.19		0.16		ND	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	–		–		–		<0.15	UJ	<0.088	UJ	<0.15	UJ	<1.6	UJ	<0.58	UJ	–		<7.8	UJ	<0.29	UJ	–		<0.29	UJ	0.084	J	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND		ND		4450		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	<417	U	4450		<417	U	<417	U	<834	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	U	<5.6	UJ	<5.6	U	<5.6	U	<5.6	U	<11	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ	<9.7	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	UJ	<5.1	U	–		–		<5.1	U	<5.1	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	–		<5.3	U	<5.3	U	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<5.3	UJ	<5.3	U	<5.3	U	–		<5.3	U	<5.3	U	<11	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	–		<0.09	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.6	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.62	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	–		<0.091	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.61	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	UJ	<0.088	U	<0.29	U	<0.15	U	–		<0.088	UJ	<0.15	U	<0.97	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		0.22		ND		ND		ND		ND		4450		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	–		<0.29	UJ	<0.15	UJ	<0.29	UJ	<0.15	UJ	–		<0.29	UJ	<0.29	UJ	<0.088	UJ	–	R	<0.15	UJ	–		<0.088	UJ	<0.15	UJ	<0.97	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	–	R	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	–	R	–	R
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		0.22	J	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: Sump Adit 3

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		0.2		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V		<417	U	<417	U	<417	U	<417	U
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V		<5.6	U	<5.6	U	<5.6	U	<5.6	U
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V		<4.9	UJ	<4.9	UJ	<4.9	UJ	<4.9	UJ
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V		–		<5.1	U	–		<5.1	U
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V		–		<5.3	U	–		<5.3	U
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V		–		<5	U	–		<5	U
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V		–		<4.9	U	–		<4.9	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V		–		<4.9	U	–		<4.9	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V		–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V		–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V		–		<5	U	–		<5	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V		–		<4.8	U	–		<4.8	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V		–		<0.6	U	<0.09	U	<3.2	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V		–		<0.62	U	<0.092	U	<3.3	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V		–		<0.61	U	<0.091	U	<3.2	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V		–		<0.57	UJ	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V		–		<0.58	U	<0.086	U	<3.1	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V		–		<0.57	U	<0.086	UJ	–	R
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V		–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V		–		<0.57	U	–		<3	UJ
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V		–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V		–		<0.6	U	–		<3.2	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V		–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V		–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V		–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V		–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V		–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V		–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V		–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V		–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V		–		0.2	J	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V		–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V		–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V		–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: Sump Adit 3

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		0.2		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V	–		–	R	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V	–		<0.58	U	–		<3.1	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V	–		<0.57	U	–		–	R
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V	–		<0.57	U	–		<3	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		–	R	–	R	–	R	–	R	–	R	<0.30	U	<0.30	U	<0.15	U	–	R	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.084	U	<0.084	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		0.069		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<9.5	UJ	–		–		–		<4.8	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–	R	<0.60	U	–	R	<0.15	U	–	R	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		0.069	J	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.14	U	–	R	<1.1	U	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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							Analyte	2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		0.069		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.14	U	<0.28	UJ	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V		<0.14	U	–	R	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.14	U	–	R	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V		<0.14	UJ	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V		–	R	<0.29	U	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.14	U	<0.28	UJ	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.14	U	<0.28	U	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		1.2		ND		–		0.33		0.28		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	<0.6	UJ	–		1.2	J	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	UJ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.32	J+	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		0.33	J+	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	–	R	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	–	R	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		1.2		ND		–		0.33		0.28		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	UJ	<0.29	UJ	–		<0.29	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	UJ	<0.59	UJ	–		<7.8	UJ	<0.29	U	–		<0.29	U	0.28	J	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	0.23	J	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.084	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		<4.8	UJ	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–		<4.8	UJ	<4.8	U	<9.5	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		<0.09	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.6	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	–	R	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	–	R	–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	–	R	<0.14	U	–		<0.28	U	<0.28	U	<0.085	UJ	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.28	U	<0.14	U	–	R	<0.14	U	–		<0.28	U	<0.28	U	<0.085	UJ	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK3	6/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	UJ	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	–	R	<0.087	U	–	R	<0.14	U	–		<0.087	U	–	R	–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		<0.29	U	<0.15	UJ	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	UJ	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	UJ	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	UJ	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	UJ	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.084	U	<0.28	U	<0.14	U	–		<0.084	U	<0.14	U	<0.94	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	–		ND		ND		ND	
						Maximum Before 11/5/2022	–		ND		ND		ND	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	–		<5.0	U	–		<5.0	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	–		<4.9	U	–		<4.9	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	–		<0.57	U	<0.086	U	<3	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	–		<0.6	U	<0.09	U	<3.2	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	–		–	R	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	–		<0.57	UJ	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		<0.57	UJ	–		–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.57	UJ	–		–	R
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	–		<0.59	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–	R	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.59	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		<0.56	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	–		<0.56	U	–		<3	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		0.24		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		0.1		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	UJ	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V f	<0.3	U	<0.15	U	<0.09	U	<0.09	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<3.2	UJ	<0.3	U	0.22	J	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V f	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3	UJ	<0.29	U	0.21	J	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V f	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	0.24	J	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<1.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	–	R	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	U	<0.48	UJ	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		0.24		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		0.1		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V f	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	0.1	J	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<5.2	U	<5.2	U	<10	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	<10	U	–		–		–		<5.2	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V f	<0.15	U	<0.6	U	<1.2	UJ	<0.15	U	<0.3	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V f	<0.14	U	<0.57	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V f	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.15	U	<0.30	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	UJ	–		<0.14	U	<5.8	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	UJ	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		–	R	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.15	U	<0.3	UJ	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.15	U	–	R	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.14	UJ	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V f	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		<5.7	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		1.5		–		ND		ND		–		ND		0.27		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–		–		–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V f	–		–		–		<0.15	U	<0.09	U	<0.15	U	<1.6	U	1.5	J+	–		<0.5	U	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V f	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V f	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<8.0	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	UJ	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	UJ	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	–	R	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.59	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	UJ	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	0.27	J	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	UJ	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	UJ	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		1.5		–		ND		ND		–		ND		0.27		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V f	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		0.52	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	–		<5.2	U	<5.2	U	<5.2	U	<5.2	U	–		<5.2	U	<5.2	U	<5.2	UJ	<5.2	UJ	<5.2	U	–		<5.2	U	<5.2	U	<10	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V f	–		<0.09	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.09	U	<0.6	U	<0.15	U	–		<0.09	U	<0.15	U	<1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V f	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V f	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	–		<0.30	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.30	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	UJ	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	UJ	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		<0.29	U	<0.14	U	–	R	<0.14	U	–		<0.29	U	<0.29	U	<0.086	UJ	–	R	<0.14	U	–		<0.086	U	<0.14	U	0.52	J-
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	UJ	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	–		<0.29	U	–	R	–	R	–	R	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.087	UJ	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	–	R
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		0.52	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V f	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: OWDFMW05A

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V		–		<5.2	U	–		<5.2	UJ
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V f		–		<0.6	U	<0.09	U	<3.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V f		–		<0.57	U	<0.086	U	<3	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V f		–		<0.60	U	<0.090	U	<3.2	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V		–		<0.60	U	<0.090	U	<3.2	UJ
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V		–		<0.58	UJ	<0.086	U	<3.1	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V		–		<0.57	U	<0.085	U	<3.0	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		<0.57	UJ	–		–	R
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		<0.58	UJ	–		<3.1	UJ
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		<0.59	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		<0.59	U	–		<3.2	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V		–		<0.58	U	–		–	R
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V		–		<0.57	U	–		–	R
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V		–		<0.58	U	–		<3.1	U

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Groundwater Sampling: OWDFMW05A

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		ND		ND		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V f	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.58	U	–		–	R
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	–		<0.56	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.31	U	<0.15	U	<0.092	U	<0.092	U	–		<0.31	U	<0.31	U	<0.51	U	<0.51	U	<3.3	U	<0.31	U	<0.31	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	<0.30	U	<0.15	U	<0.091	U	<0.091	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	UJ	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.29	U	<0.15	UJ	<0.087	U	<0.087	UJ	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	UJ	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.29	UJ	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.5	U	<0.5	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.3	U	<0.15	U	<0.091	U	<0.091	U	–		<0.3	U	<0.3	U	<0.51	U	<0.51	U	<1.2	U	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.28	U	<0.14	U	<0.084	U	<0.084	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	–	R	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	UJ	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<4.9	U	<4.9	U	<9.8	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	<9.8	U	–		–		–		<4.9	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<5.1	U	<5.1	U	<10	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	<10	U	–		–		–		<5.1	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.15	U	<0.61	U	<1.2	U	<0.15	U	<0.31	U	–		<0.15	U	<6.1	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	<0.15	U	<0.60	U	<1.2	UJ	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–	R	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	UJ	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.14	U	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.15	UJ	<0.29	UJ	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.15	U	<0.29	U	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.14	U	<0.29	UJ	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

						Analyte	2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol	
						CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7	
						Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.15	U	<0.3	U	<1.2	U	<0.15	U	<0.3	U	–		<0.15	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK1	11/11/2022	Primary	V	<0.14	U	<0.28	UJ	–	R	<0.14	U	<0.28	U	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.14	UJ	<0.29	U	–	R	<0.14	U	<0.29	UJ	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R

Analyte	Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.	83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL	15		13		0.02		–		–		0.027		0.06	
Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022	–		–		–		ND		–		–		–	
Maximum Before 11/5/2022	–		–		–		ND		–		–		–	
Maximum After 11/4/2022	–		–		–		ND		–		–		–	
Sample ID	Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A-WGN01LF-2210WK3	–		–		–		<0.15	U	–		–		–	
OWDFMW07A-WGN02LF-2210WK3	–		–		–		<0.15	U	–		–		–	
OWDFMW07A-WGN01LF-2210WK4	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN02LF-2210WK4	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN01LF-2210WK5	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN02LF-2210WK5	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN01LF-2211WK1	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN01LF-2211WK2	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN02LF-2211WK2	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN01LF-2211WK3	–		–		–		<0.14	U	–		–		–	
OWDFMW07A-WGN01LF-2211WK4	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		0.35		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.062		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–		–		–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–		–		–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		–		–		**<0.15**	**U**	**<0.092**	**U**	**<0.15**	**U**	**<1.6**	**U**	**<0.61**	**U**	–		**<0.51**	**U**	**<0.31**	**U**	–		**0.17**	**J**	**<0.15**	**U**	–	
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	UJ	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		**0.35**	**J+**	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	UJ	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	UJ	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–		–		–		<0.15	UJ	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		0.35		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		0.062		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	U	<1.6	U	<0.6	U	–		<7.9	U	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		–		<0.15	U	<0.091	U	<0.15	U	<1.6	U	<0.61	U	–		<8.1	U	<0.3	U	–		<0.3	U	<0.15	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.084	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.5	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	**0.062**	**J**	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	–		<4.9	U	<4.9	U	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<4.9	UJ	<4.9	U	<4.9	U	–		<4.9	U	<4.9	U	<9.8	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<5.1	U	<5.1	U	<5.1	U	–		<5.1	U	<5.1	U	<10	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	–		<0.092	U	<0.15	U	<0.31	U	<0.15	U	–		<0.31	U	<0.31	U	<0.092	U	<0.61	U	<0.15	U	–		<0.092	U	<0.15	U	<1.0	U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	–		<0.091	U	<0.15	U	<0.30	UJ	<0.15	U	–		<0.30	U	<0.30	U	<0.091	U	<0.60	U	<0.15	U	–		<0.091	U	<0.15	U	<1.0	UJ
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	–	R	<0.14	UJ	–		<0.29	UJ	<0.29	U	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.97	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	U	<0.15	U	<0.99	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	U	<0.15	U	–		<0.3	U	<0.3	U	<0.091	U	<0.3	U	<0.15	U	–		<0.091	U	<0.15	U	<1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.084	U	<0.28	U	<0.14	U	–		<0.084	U	<0.14	U	<0.94	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	UJ	<0.29	UJ	<0.086	U	<0.29	U	<0.14	U	–		<0.086	UJ	<0.14	UJ	<0.96	UJ
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

							Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
							CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
							Method	SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	2.3		58		4.6		–	
							Units	µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	–		ND		ND		ND	
							Maximum Before 11/5/2022	–		ND		0.091		ND	
							Maximum After 11/4/2022	–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V		–		<4.9	U	–		<4.9	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V		–		<5	U	–		<5	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V		–		<5.1	U	–		<5.1	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V		–		<5	U	–		<5	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V		–		<4.8	U	–		<4.8	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V	d	–		**<0.61**	**U**	**<0.092**	**U**	**<3.3**	**U**
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V		–		<0.60	U	<0.091	U	<3.2	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V		–		<0.60	U	**0.091**	**J**	<3.2	U
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	UJ
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V		–		<0.57	U	<0.085	U	<3	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V		–		<0.57	U	<0.086	U	<3.1	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V		–		<0.57	U	<0.086	UJ	<3.0	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V		–		<0.57	U	–		<3	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V		–		<0.59	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V		–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V		–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V		–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V		–		<0.58	U	–		<3.1	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		0.091		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.6	U	–		<3.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.61	U	–		<3.2	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.56	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V	–		<0.57	UJ	–		<3.1	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		<0.57	U	–		<3	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	UJ	<4.8	U	<4.8	U	<4.8	UJ	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.30	U	<0.15	U	<0.090	U	<0.090	U	–		<0.30	U	<0.30	U	<0.50	U	<0.50	U	<3.2	U	<0.30	U	<0.30	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<3.0	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.087	UJ	<0.087	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.2	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.29	UJ	<0.14	UJ	<0.086	UJ	<0.086	UJ	–		<0.29	UJ	<0.29	UJ	<0.48	UJ	<0.48	UJ	<1.1	UJ	<0.29	UJ	<0.29	UJ	<0.14	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	UJ	<0.48	UJ	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.088	U	<0.088	U	–		<0.29	U	<0.29	U	<0.49	U	<0.49	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	<0.29	UJ	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.29	UJ	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	<0.29	U	<0.15	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.15	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	U	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		–	R	–	R	–	R	–	R	–	R	<0.29	U	<0.29	U	<0.14	U	–	R	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	–	R	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.1	UJ	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.28	U	<0.14	U	<0.085	U	<0.085	U	–		<0.28	U	<0.28	U	<0.47	U	<0.47	U	<1.1	UJ	<0.28	U	<0.28	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	<0.29	U	<0.14	U	<0.086	U	<0.086	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.29	U	<0.14	U	<0.087	U	<0.087	U	–		<0.29	U	<0.29	U	<0.48	U	<0.48	U	<1.2	U	<0.29	U	<0.29	U	<0.14	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							2-Nitrophenol		3,3´-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<5.0	U	<5.0	U	<9.9	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	<9.9	U	–		–		–		<5.0	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<4.8	U	<4.8	U	<9.6	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.6	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<5	U	<5	U	<10	U	<5	U	<5	U	<5	U	<5	U	<10	U	–		–		–		<5	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<4.8	U	<4.8	U	<9.5	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	<9.5	U	–		–		–		<4.8	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.15	U	<0.60	UJ	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.14	U	<0.57	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.15	U	<0.60	U	<1.2	U	<0.15	U	<0.30	U	–		<0.15	U	<6.0	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.14	U	<0.57	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.15	U	<0.29	U	–	R	<0.15	U	–	R	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.14	U	<0.28	UJ	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.14	U	<0.29	U	–	R	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.2	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.8	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.14	UJ	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	UJ	–		<0.14	UJ	<5.7	UJ	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.6	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	UJ	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V		<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	UJ	<0.14	UJ	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	UJ	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V		<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V		<0.15	U	<0.29	U	<1.2	UJ	<0.15	U	<0.29	U	–		<0.15	U	<5.9	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V		<0.14	UJ	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.14	UJ	<0.29	U	<1.2	UJ	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V		<0.15	U	<0.29	UJ	<1.2	U	<0.15	U	<0.29	U	–		<0.15	U	<5.8	U	–		–		–		<0.15	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.14	U	<0.29	UJ	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	<5.8	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.14	U	<0.28	U	<1.1	U	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
							CAS No.	88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
							Method	SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
							DOH Tier 1 EAL	–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		–		–		–		ND		–		–		–	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		–		ND		ND		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.14	U	<0.29	U	<1.1	U	<0.14	U	<0.29	U	–		<0.14	U	<5.7	U	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		–	R	<0.29	UJ	–	R	<0.14	U	–	R	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.14	U	<0.29	UJ	–	R	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.1	UJ	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.14	U	<0.28	U	<1.1	UJ	<0.14	U	<0.28	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V		<0.14	U	<0.29	U	<1.2	U	<0.14	U	<0.29	U	–		<0.14	U	–	R	–		–		–		<0.14	U	–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		5.6		ND		–		ND		ND		–		0.31		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		–		–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		–		–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	–		<5	U	<5	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	5.6	J	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		–		–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		0.21	J	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		0.31	J	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	UJ	–		<0.50	U	<0.30	U	–		<0.30	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		–		–		<0.15	U	<0.090	U	<0.15	U	<1.6	U	<0.60	U	–		<0.50	U	<0.30	U	–		<0.30	UJ	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<0.48	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		<0.14	UJ	<0.087	UJ	<0.14	UJ	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		<0.14	UJ	<0.086	UJ	<0.14	UJ	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.29	UJ	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		5.6		ND		–		ND		ND		–		0.31		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.56	U	–		<7.5	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.6	U	<0.58	U	–		<7.8	U	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.088	U	<0.15	U	<1.6	U	<0.59	UJ	–		<7.8	UJ	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		–		–		<0.15	U	<0.087	U	<0.15	U	<1.5	UJ	<0.58	UJ	–		<7.7	UJ	<0.29	U	–		<0.29	U	<0.15	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	UJ	<0.57	UJ	–		<7.6	UJ	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	UJ	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	UJ	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	UJ	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	UJ	<0.14	UJ	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	U	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Maximum Before 11/5/2022							–		–		–		ND		ND		ND		5.6		ND		–		ND		ND		–		0.31		ND		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.7	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.29	UJ	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		–		–		<0.14	U	<0.085	U	<0.14	U	<1.5	U	<0.57	U	–		<7.6	U	<0.28	UJ	–		<0.28	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	–		–		–		<0.14	U	<0.086	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		–		–		<0.14	U	<0.087	U	<0.14	U	<1.5	U	<0.58	U	–		<7.7	U	<0.29	U	–		<0.29	U	<0.14	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.088		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		<5.0	U	<5.0	U	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<5.0	UJ	<5.0	U	<5.0	U	–		<5.0	U	<5.0	U	<9.9	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.6	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<5	U	<5	U	<5	U	–		<5	U	<5	U	<10	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<4.8	U	<4.8	U	<4.8	U	–		<4.8	U	<4.8	U	<9.5	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		<0.090	U	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		<0.086	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		<0.090	UJ	<0.15	U	<0.30	U	<0.15	U	–		<0.30	U	<0.30	U	<0.090	U	<0.60	U	<0.15	U	–		<0.090	U	<0.15	U	<1.0	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		<0.086	UJ	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.57	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.15	U	–		<0.087	U	<0.15	U	–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	UJ	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.087	UJ	<0.29	UJ	<0.14	UJ	–		<0.087	UJ	<0.14	UJ	<0.97	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<0.29	UJ	<0.14	UJ	<0.29	UJ	<0.14	UJ	–		<0.29	UJ	<0.29	UJ	<0.086	UJ	<0.29	UJ	<0.14	UJ	–		<0.086	UJ	<0.14	UJ	–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.088		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		<0.29	U	<0.14	UJ	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.29	UJ	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	UJ	–		<0.086	U	<0.14	U	<0.95	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	UJ	<0.15	UJ	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	UJ	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	0.088	J	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	UJ	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.088	U	<0.29	U	<0.15	U	–		<0.088	U	<0.15	U	<0.98	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		<0.29	U	<0.15	U	<0.29	U	<0.15	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.15	U	–		<0.087	U	<0.15	U	<0.97	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	–	R	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	–	R	<0.14	U	–		<0.087	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	–	R	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	UJ
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.94	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		0.088		ND	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	–	R	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	–	R	–	R
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.28	U	<0.14	U	<0.28	U	<0.14	U	–		<0.28	U	<0.28	U	<0.085	U	<0.28	U	<0.14	U	–		<0.085	U	<0.14	U	<0.95	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.086	U	<0.29	U	<0.14	U	–		<0.086	U	<0.14	U	<0.96	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		<0.29	U	<0.14	U	<0.29	U	<0.14	U	–		<0.29	U	<0.29	U	<0.087	U	<0.29	U	<0.14	U	–		<0.087	U	<0.14	U	<0.97	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	–		<5.0	U	–		<5.0	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	–		<5	U	–		<5	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	–		<4.8	U	–		<4.8	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	–		<0.60	U	<0.090	U	<3.2	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	–		<0.57	U	<0.085	U	<3	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	–		<0.57	U	<0.086	U	<3.1	U
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	–		<0.57	U	<0.086	U	<3.0	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		<0.58	U	–		–	R
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		<0.57	U	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		<0.57	U	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		<0.58	UJ	–		<3.1	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		<0.57	UJ	–		<3.1	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		<0.57	UJ	–		<3	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V	–		<0.56	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V	–		<0.59	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	–		<0.57	U	–		<3	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Phenanthrene		Phenol		Pyrene		Pyridine	
CAS No.							85-01-8		108-95-2		129-00-0		110-86-1	
Method							SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							2.3		58		4.6		–	
Units							µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		ND		ND		ND	
Maximum Before 11/5/2022							–		ND		ND		ND	
Maximum After 11/4/2022							–		ND		–		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	–		<0.57	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	–		<0.57	U	–		–	R
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	–		<0.57	U	–		–	R
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	–		–	R	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	–		<0.57	U	–		<3	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	–		<0.58	U	–		<3.1	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	–		<0.58	U	–		<3.1	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							1,2,4-Trichlorobenzene		1,2-Dichlorobenzene		1,3-Dichlorobenzene		1,4-Dichlorobenzene		1-Methylnaphthalene		2,4,5-Trichlorophenol		2,4,6-Trichlorophenol		2,4-Dichlorophenol		2,4-Dimethylphenol		2,4-Dinitrophenol		2,4-Dinitrotoluene		2,6-Dinitrotoluene		2-Chloronaphthalene		2-Chlorophenol		2-Methylnaphthalene	
CAS No.							120-82-1		95-50-1		541-73-1		106-46-7		90-12-0		95-95-4		88-06-2		120-83-2		105-67-9		51-28-5		121-14-2		606-20-2		91-58-7		95-57-8		91-57-6	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							70		10		5		5		10		1.9		4.9		0.3		120		14		0.25		0.05		–		0.18		10	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum After 11/4/2022							ND		ND		ND		ND		–		ND		ND		ND		ND		–		ND		ND		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.3	U	<0.15	U	<0.089	U	<0.089	U	–		<0.3	U	<0.3	U	<0.49	U	<0.49	UJ	–	R	<0.3	U	<0.3	U	<0.15	U	<0.15	U	–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							2-Nitrophenol		3,3'-Dichlorobenzidine		4,6-Dinitro-2-methylphenol		4-Bromophenyl phenyl ether		4-Chloro-3-methylphenol		4-Chlorophenol		4-Chlorophenyl phenyl ether		4-Nitrophenol		Acenaphthene		Acenaphthylene		Anthracene		Azobenzene		Benzidine		Benzo(a)anthracene		Benzo(a)pyrene	
CAS No.							88-75-5		91-94-1		534-52-1		101-55-3		59-50-7		106-48-9		7005-72-3		100-02-7		83-32-9		208-96-8		120-12-7		103-33-3		92-87-5		56-55-3		50-32-8	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							–		0.17		–		–		–		–		–		–		15		13		0.02		–		–		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum After 11/4/2022							ND		ND		–		ND		ND		–		ND		–		–		–		–		ND		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.15	U	<0.3	UJ	–	R	<0.15	U	<0.3	U	–		<0.15	U	–	R	–		–		–		<0.15	U	–		–		–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
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B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		bis(-2-chloroethoxy)Methane		bis(-2-chloroethyl)Ether		bis(2-chloroisopropyl)Ether		bis(2-ethylhexyl)Phthalate		Butylbenzylphthalate		Chrysene		Di-n-butyl phthalate		Di-n-octyl phthalate		Dibenzo(a,h)anthracene		Diethyl phthalate		Dimethyl phthalate		Fluoranthene	
CAS No.							205-99-2		191-24-2		207-08-9		111-91-1		111-44-4		108-60-1		117-81-7		85-68-7		218-01-9		84-74-2		117-84-0		53-70-3		84-66-2		131-11-3		206-44-0	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							0.22		0.13		0.4		–		0.014		–		3		–		1		–		–		0.022		210		1100		0.8	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum After 11/4/2022							–		–		–		ND		ND		ND		ND		ND		–		ND		ND		–		ND		ND		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	–		–		–		<0.15	U	<0.089	U	<0.15	UJ	<1.6	UJ	<0.59	U	–		<7.9	U	<0.3	UJ	–		<0.3	U	<0.15	U	–	

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
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B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
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D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

Analyte							Fluorene		Hexachlorobenzene		Hexachlorobutadiene		Hexachlorocyclopentadiene		Hexachloroethane		Indeno(1,2,3-cd)pyrene		Isophorone		m+p-Cresols		n-Nitroso-di-n-propylamine		n-Nitrosodimethylamine		n-Nitrosodiphenylamine		Naphthalene		Nitrobenzene		o-Cresol		Pentachlorophenol	
CAS No.							86-73-7		118-74-1		87-68-3		77-47-4		67-72-1		193-39-5		78-59-1		15831-10-4		621-64-7		62-75-9		86-30-6		91-20-3		98-95-3		95-48-7		87-86-5	
Method							SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C		SW8270C	
DOH Tier 1 EAL							3.9		0.0003		0.2		–		0.4		0.095		82		–		–		–		–		12		0.14		–		1	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum Before 11/5/2022							–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
Maximum After 11/4/2022							–		ND		ND		ND		ND		–		ND		ND		ND		ND		ND		–		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	–		<0.3	U	<0.15	U	<0.3	UJ	<0.15	U	–		<0.3	U	<0.3	U	<0.089	U	<0.3	U	<0.15	U	–		<0.089	UJ	<0.15	U	<0.98	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

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c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

						Analyte	Phenanthrene		Phenol		Pyrene		Pyridine	
						CAS No.	85-01-8		108-95-2		129-00-0		110-86-1	
						Method	SW8270C		SW8270C		SW8270C		SW8270C	
						DOH Tier 1 EAL	2.3		58		4.6		–	
						Units	µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	–		–		–		–	
						Maximum Before 11/5/2022	–		–		–		–	
						Maximum After 11/4/2022	–		ND		–		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	–		<0.59	U	–		<3.2	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

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[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

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ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Appendix B.4.4 – GW Analytical Table_PAH_SIMs

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
Maximum After 11/4/2022							0.1		0.15		0.2		0.024		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	0.43		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	0.22		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	0.28		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	0.23		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	0.42		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	0.3		0.17	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	0.2	J-	–	R	–	R	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	0.088	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	0.19	J	0.089	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	0.28		0.085	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	0.25		0.064	J	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	0.14	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	0.24		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	0.19	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	0.21		<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	0.1	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	0.085	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	0.12	J-	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	0.16	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	0.1	J	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	0.12	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	0.1	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	0.096	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	0.071	J	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	--		--		--		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
Maximum After 11/4/2022							0.1		0.15		0.2		0.024		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.05	UJ	<0.05	U	<0.05	UJ	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.048	UJ	<0.048	U	<0.048	UJ	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	**0.036**	**J**	**0.036**	**J**	<0.05	U	<0.05	U	**0.069**	**J**	**0.032**	**J**	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.031	U	<0.077	U	**0.11**	**J**	**0.022**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.032	U	<0.081	U	**0.093**	**J**	**0.024**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	**0.047**	**J**	**0.049**	**J**	**0.12**	**J**	**0.033**	**J**	**0.0091**	**J**	<0.081	U	**0.018**	**J**	**0.014**	**J**
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.031	U	<0.077	U	**0.12**	**J**	**0.031**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	**0.032**	**J**	<0.081	U	**0.11**		**0.019**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	**0.037**	**J**	<0.076	U	**0.14**		**0.023**	**J**	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	**0.18**		<0.081	U	**0.17**		**0.026**	**J**	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.030	U	<0.076	U	**0.11**		**0.024**	**J**	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.031	U	<0.076	U	**0.12**		**0.022**	**J**	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.03	U	<0.076	U	**0.13**		**0.02**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.031	U	<0.078	U	**0.097**		**0.02**	**J**	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.031	U	<0.077	U	**0.12**		**0.027**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	**0.022**	**J**	<0.078	U	**0.084**	**J**	**0.027**	**J**	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	UJ	<0.078	UJ	**0.071**	**J-**	**0.018**	**J-**	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.025**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	**0.11**		**0.024**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.027**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	**0.032**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.43		0.17		0.17		0.037		0.069		0.032		0.018		0.014	
Maximum After 11/4/2022							0.1		0.15		0.2		0.024		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.032**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.029**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	**0.12**		**0.029**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	**0.13**		**0.031**	**J**	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	**0.13**		**0.032**	**J**	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.076	U	**0.14**		**0.037**	**J**	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	**0.13**		**0.029**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	**0.024**	**J**	<0.076	U	**0.13**		**0.033**	**J**	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	**0.028**	**J**	<0.077	U	**0.11**		**0.033**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	**0.13**		**0.026**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.027**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	**0.03**	**J**	<0.077	U	**0.13**		**0.034**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	**0.034**	**J**	<0.077	U	**0.14**		**0.03**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.076	U	**0.12**		**0.028**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	**0.024**	**J**	<0.077	U	**0.11**		**0.022**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.077	U	**0.092**	**J**	**0.022**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	<0.03	U	<0.076	U	**0.09**	**J**	**0.022**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.077	U	**0.11**		**0.027**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	<0.032	U	<0.081	U	**0.12**		**0.028**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	<0.032	U	<0.079	U	**0.091**	**J**	**0.018**	**J**	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.076	U	**0.13**		**0.027**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.076	U	**0.1**		**0.022**	**J**	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	**0.1**		**0.15**	**J**	**0.2**		**0.024**	**J**	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzo(b)fluoranthene (SIM)	Benzo(g,h,i)perylene (SIM)	Benzo(k)fluoranthene (SIM)	Chrysene (SIM)	Dibenzo(a,h)anthracene (SIM)	Fluoranthene (SIM)	Fluorene (SIM)	Indeno(1,2,3-cd)pyrene (SIM)	Phenanthrene (SIM)	Pyrene (SIM)
CAS No.							205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0
Method							8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
DOH Tier 1 EAL							0.22	0.13	0.4	1	0.022	0.8	3.9	0.095	2.3	4.6
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum Before 11/5/2022							ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Before 11/5/2022							ND	ND	ND	0.032	ND	0.084	0.073	ND	0.06	0.065
Maximum After 11/4/2022							0.012	ND	ND	ND	ND	ND	0.017	ND	ND	ND
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHMW01R	Low-Flow	APPL	ERH1363	5/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1370	5/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1376	5/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1382	5/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1388	5/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1394	5/31/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1400	6/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1406	6/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1412	6/7/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1418	6/9/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1424	6/11/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1440	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1448	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Low-Flow	APPL	ERH1456	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1529	6/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1464	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1533	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1541	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1549	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1576	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1584	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1592	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1617	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1624	8/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1640	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1647	9/1/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1653	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1660	9/8/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1662	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1669	9/15/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1671	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1678	9/22/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1753	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1783	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1784	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1803	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1804	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1833	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1834	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1844	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1845	10/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1872	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1873	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1892	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1893	11/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1918	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1919	11/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH1956	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH1957	11/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	APPL	ERH2002	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2003	12/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2213	12/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHMW01R	Bailer	Energy	ERH2178	12/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.032		ND		0.084		0.073		ND		0.06		0.065	
Maximum After 11/4/2022							0.012		ND		ND		ND		ND		ND		0.017		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	ERH2234	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2278	12/27/2021	Primary	V	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U	<0.096	U
RHMW01R	Bailer	Energy	ERH2279	12/27/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW01R	Bailer	Energy	ERH2323	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW01R	Bailer	Energy	ERH2324	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW01R	Bailer	Energy	ERH2376	1/10/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2377	1/10/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2426	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2427	1/17/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2474	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW01R	Bailer	Energy	ERH2475	1/24/2022	Field Duplicate	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	**0.052**	**J**	<0.052	U	<0.052	U	<0.052	U	**0.032**	**J**
RHMW01R	Bailer	Energy	ERH2514	2/3/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	**0.073**	**J**	<0.05	U	**0.036**	**J**	<0.05	U
RHMW01R	Bailer	Energy	ERH2531	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.084**	**J**	<0.048	U	<0.048	U	<0.048	U	**0.033**	**J**
RHMW01R	Bailer	Energy	ERH2549	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW01R	Bailer	Energy	ERH2563	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW01R	Bailer	Energy	ERH2602	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2603	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2660	3/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	ERH2661	3/2/2022	Field Duplicate	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Energy	ERH2718	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2719	3/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2720	3/8/2022	Primary	V c	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**0.032**	**J**	**<0.032**	**U**	**<0.032**	**U**	**0.028**	**J**	**<0.032**	**U**	**0.06**	**J**	**0.065**	**J**
RHMW01R	Bailer	Eurofins Seattle	ERH2721	3/8/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	ERH2812	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2813	3/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2814	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Eurofins Seattle	ERH2815	3/15/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.019**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH2883	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH2884	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH2885	3/22/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	**0.017**	**J**	<0.033	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Eurofins Seattle	ERH2886	3/22/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH3021	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3022	3/31/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3023	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	ERH3024	3/31/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	ERH3065	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Energy	ERH3066	4/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3067	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW01R	Bailer	Eurofins Seattle	ERH3068	4/5/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	ERH3322	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	ERH3323	4/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.078	U	<0.078	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.021**	**J**	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW01R

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		0.032		ND		0.084		0.073		ND		0.06		0.065	
Maximum After 11/4/2022							0.012		ND		ND		ND		ND		ND		0.017		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.019**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.017**	**J**	<0.03	U	<0.075	U	<0.075	U
RHMW01R	Bailer	Energy	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.021**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.018**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.018**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.018**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.02**	**J**	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK3	10/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.016**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK4	10/25/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK4	10/27/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.021**	**J**	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW01R	Bailer	Eurofins Seattle	RHMW01R-WGN02B-2211WK3	11/22/2022	Primary	V	**0.012**	**J**	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are repo
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond t
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site g
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	2.2		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	53		49		110		0.69		0.19		0.04		0.09		0.16	
						Maximum After 11/4/2022	13		4.9		26		0.3		0.083		ND		0.017		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	33		24		59		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	21		9.5		52		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	22		11	J	47		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	19		11		39		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	17		7		35		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	14		7		29		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	20		12		42		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	12		2.8		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	19		14		43		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	12	J-	7.2	J-	24	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	14		6		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	19		8.3		33		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	24		17		54		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	20		10		32		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	13		11		26		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	19		6.9		37		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	19		11		38		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	24		19		56		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	28		26		60		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	35	J-	29	J-	62	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	32		26		67		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	53		49		110		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	21		18		42		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	31	J-	29	J-	67	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	19	J-	15	J-	36	J-	–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	33		33		70		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	25	J-	23	J-	49	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	28	J-	31	J-	56	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	25	J-	26	J-	51	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	20	J-	21	J-	46	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	36		34		51		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	37		37		78		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	35		35		72		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	31	J-	30	J-	63	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	20	J-	18	J-	43	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	38	J	38	J	74	J	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	16		13		35		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	14	J+	11	J+	30	J+	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	2.2	J-	0.96	J-	4.9	J-	–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	3.7		0.86		2.3		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	8.8		4.9		12		0.2		<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	4.2		2.1		2.7		0.14		<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	24	J-	16		22	J-	0.32		<0.05	U	<0.05	U	0.045	J	0.16	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	39		23		25		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	9.6	J	5	J	12	J	0.4	J	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	15	J	4.6	J	8.3	J	0.27	J	0.071		0.032	J	0.056		0.035	J

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							2.2		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							53		49		110		0.69		0.19		0.04		0.09		0.16	
Maximum After 11/4/2022							13		4.9		26		0.3		0.083		ND		0.017		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	17		5.3		9.8		0.28		0.067		<0.081	U	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	8.5		1.4		1.9		0.18		<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	17		11		16		0.11		<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	5.6		0.55		0.74		0.15		0.034	J	<0.079	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	3.7	J	0.1	J	0.95		0.14		0.012	J	0.022	J	<0.032	U	<0.032	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	3.7	J	<0.077	U	0.39		0.2		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	6.3		1.1		0.74		0.35		<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	12		2.2		0.76		0.28		0.074		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	7.1		1.7		1.2		0.13	J	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	19	J	0.75	J	<0.077	U	0.26	J	0.17		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	45		22		23		0.21		0.14		<0.078	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	19		7.7		8		0.28		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	12		5.4		13		0.41		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	19		14		38		0.33		0.093		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	9.5		4.2		13		0.28		0.14		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	18		13		32		0.69		0.17		<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	10		5.9		11		0.23		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	24		15		28		0.27		0.19		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	11		7.3		16		0.21		0.05		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	13		9.2		16		0.3	J	0.12	J	<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	32		19		42		0.29		0.068		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	11		8.1		17		0.18		0.087		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	9.5		5.8		11		0.3		0.13		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	12		0.54		0.51		0.25		<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	10		2		1.6		0.2		<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	9.9		6		7.8		0.27		0.13		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	5.5		0.9		0.68		0.19		0.046	J	<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	8.4		3.6		4.9		0.23		0.056		0.04	J	0.09		0.034	J
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	7.2		4.2		7.8		0.31		0.059		<0.077	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	7.9		3.8		6.2		0.22		0.058		<0.08	U	<0.032	U	<0.032	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	4.1		1.4		2.8		0.21		0.04	J	<0.076	U	<0.03	U	<0.03	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	7.8	J-	2	J-	2.6	J-	0.25	J-	0.07	J-	<0.075	UJ	<0.03	UJ	<0.03	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	11		5.8		7.5		0.3		0.076		<0.076	U	<0.031	U	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	5.5		2.7		7.1		0.23		<0.031	U	<0.078	U	0.017	J	<0.031	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	13		4.9		26		0.3		0.083		<0.076	U	0.014	J	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.029		0.016		0.012		0.09		ND		0.18		0.26		ND		0.2		0.19	
Maximum After 11/4/2022							0.016		ND		ND		ND		ND		ND		0.17		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	Low-Flow	APPL	ERH1365	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1372	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1378	5/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1384	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1390	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1396	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1402	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1408	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1414	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1420	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1428	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1442	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1450	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1458	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Low-Flow	APPL	ERH1530	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1466	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1535	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1543	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1551	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1578	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1586	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1594	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1619	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1642	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1655	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1664	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1673	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1754	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1786	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1787	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1806	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1807	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1827	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1828	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1847	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1848	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1875	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1876	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1895	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1896	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1921	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1922	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH1950	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH1951	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	APPL	ERH2005	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2006	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2215	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2180	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2236	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Energy	ERH2281	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	**0.16**		<0.10	U	<0.10	U	<0.10	U
RHMW02	Bailer	Energy	ERH2326	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW02	Bailer	Energy	ERH2379	1/10/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	**0.055**	J	<0.05	U	**0.18**		**0.17**		<0.05	U	<0.05	U	**0.17**	
RHMW02	Bailer	Energy	ERH2429	1/17/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	**0.16**		<0.049	U	<0.049	U	<0.049	U
RHMW02	Bailer	Energy	ERH2622	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2657	3/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	**0.18**		<0.033	U	<0.082	U	<0.082	U
RHMW02	Bailer	Energy	ERH2715	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2716	3/8/2022	Primary	V c	**0.026**	J	**0.016**	J	<0.032	U	**0.09**	J	<0.032	U	**0.044**	J	**0.14**	J	<0.032	U	**0.11**		**0.19**	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW02

							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						Analyte																				
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.029		0.016		0.012		0.09		ND		0.18		0.26		ND		0.2		0.19	
						Maximum After 11/4/2022	0.016		ND		ND		ND		ND		ND		0.17		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW02	Bailer	Energy	ERH2809	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2810	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	**0.13**		<0.032	U	<0.081	U	<0.081	U
RHMW02	Bailer	Energy	ERH2880	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH2881	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	**0.094**	**J**	<0.032	U	<0.081	U	<0.081	U
RHMW02	Bailer	Energy	ERH3015	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3016	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	ERH3071	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3072	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.075**	**J**	<0.031	U	<0.079	U	<0.079	U
RHMW02	Bailer	Energy	ERH3328	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	ERH3329	4/26/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	**0.045**	**J**	<0.032	U	<0.080	U	<0.080	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.063**	**J**	<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	**0.017**	**J**	<0.03	U	<0.03	U	**0.16**		<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK3	5/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.13**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.072**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.19**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.14**		<0.031	U	<0.078	U	<0.078	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.15**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.2**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.14**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK1	7/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.14**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Energy	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.26**		<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.13**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.17**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.1**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.17**	**J**	<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.12**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.11**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.21**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.14**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.11**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.14**		<0.031	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.099**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK3	10/18/2022	Primary	V	**0.029**	**J**	<0.03	U	**0.012**	**J**	**0.034**	**J**	<0.03	U	**0.13**	**J**	**0.14**		<0.03	U	**0.2**		**0.11**	
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.12**		<0.031	U	<0.077	U	<0.077	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK4	10/25/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	**0.12**		<0.032	U	<0.08	U	<0.08	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK4	10/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	**0.12**		<0.03	U	<0.076	U	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	**0.13**	**J-**	<0.03	UJ	<0.075	UJ	<0.075	UJ
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2210WK5	11/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.16**		<0.031	U	**0.09**	**J**	<0.076	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK3	11/22/2022	Primary	V	**0.016**	**J**	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.13**		<0.031	U	<0.078	U	<0.078	U
RHMW02	Bailer	Eurofins Seattle	RHMW02-WGN02B-2211WK4	11/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.17**		<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.03		0.045		ND		ND		ND		ND		0.016		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.17		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	<0.099	UJ	<0.099	UJ	<0.099	UJ	–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.052	UJ	<0.052	U	<0.052	UJ	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	**0.03**	J	**0.045**	J	<0.081	U	<0.032	U	<0.032	U	<0.081	U	**0.016**	J	<0.032	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.03		0.045		ND		ND		ND		ND		0.016		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.17		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	0.013	J	<0.03	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.15	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	0.013	J	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.31	U	<0.79	U	<0.79	U	<0.31	U	<0.31	U	<0.79	U	0.17	J	<0.31	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.011		ND		ND		0.028		ND		0.053		ND		ND		0.064		0.074	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Low-Flow	APPL	ERH1367	5/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1374	5/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1380	5/25/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1386	5/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1392	5/28/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1398	5/31/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1404	6/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1410	6/4/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1416	6/7/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1422	6/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1426	6/11/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1444	6/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1452	6/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1460	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Low-Flow	APPL	ERH1531	6/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1468	7/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1537	7/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1545	7/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1553	7/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1580	8/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1588	8/12/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1596	8/19/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1621	8/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1644	9/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1657	9/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1666	9/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1675	9/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1755	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1789	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1790	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1809	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1810	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1830	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1831	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1850	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1851	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1878	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1879	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1898	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1899	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1924	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1925	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH1953	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH1954	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	APPL	ERH2008	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2009	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2217	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2182	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2238	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Energy	ERH2283	12/27/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
RHMW03	Bailer	Energy	ERH2328	1/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW03	Bailer	Energy	ERH2381	1/10/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	**0.053**	**J**	<0.052	U	<0.052	U	<0.052	U	**0.05**	**J**
RHMW03	Bailer	Energy	ERH2431	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW03	Bailer	Energy	ERH2576	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2658	3/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
RHMW03	Bailer	Energy	ERH2712	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2713	3/8/2022	Primary	V c	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**0.028**	**J**	<0.032	U	**0.02**	**J**	<0.032	U	<0.032	U	**0.064**	**J**	**0.074**	**J**

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW03

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.011		ND		ND		0.028		ND		0.053		ND		ND		0.064		0.074	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	Bailer	Energy	ERH2806	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2807	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW03	Bailer	Energy	ERH2877	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH2878	3/22/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	ERH3012	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3013	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	ERH3074	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3075	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW03	Bailer	Energy	ERH3331	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	ERH3332	4/26/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.023	J	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK3	6/21/2022	Primary	V	<0.15	U	<0.15	U	<0.15	U	<0.031	U	<0.15	U	0.018	J	<0.031	U	<0.15	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW03	Bailer	Energy	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2207WK2	7/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2208WK5	8/30/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK1	10/4/2022	Primary	V	0.011	J	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK3	10/18/2022	Primary	V	0.011	J	<0.03	U	<0.03	U	0.018	J	<0.03	U	0.025	J	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK4	10/27/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2210WK5	11/3/2022	Primary	V	0.011	J	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK3	11/22/2022	Primary	V	<0.31	U	<0.31	U	<0.31	U	<0.31	U	<0.31	U	<0.31	U	<0.31	U	<0.31	U	<0.79	U	<0.79	U
RHMW03	Bailer	Eurofins Seattle	RHMW03-WGN02B-2211WK4	11/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					Analyte		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					CAS No.		90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
					Method		8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL		10		10		17		15		13		0.02		0.027		0.06	
					Units		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum Before 11/5/2022		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum Before 11/5/2022		ND		ND		ND		ND		ND		ND		ND		0.027	
					Maximum After 11/4/2022		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	0.027	J
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V	<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.027	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.078	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.078	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		0.027	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V	<0.03	UJ	<0.076	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.033		0.044		0.013		0.02		ND		ND		ND		0.044		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	APPL	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH1762	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Energy	ERH2368	1/4/2022	Primary	V		<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW04	Low-Flow	Energy	ERH2422	1/14/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW04	Bailer	Energy	ERH2472	1/16/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW04	Bailer	Energy	ERH2578	3/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2655	3/1/2022	Primary	V d		**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.080**	**U**	**<0.080**	**U**	**<0.080**	**U**
RHMW04	Bailer	Energy	ERH2740	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2741	3/7/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U	<0.081	U
RHMW04	Bailer	Energy	ERH2780	3/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2781	3/14/2022	Primary	V c		**0.033**	**J**	**0.044**	**J**	**0.013**	**J**	**0.02**	**J**	**<0.032**	**U**	**<0.032**	**U**	**<0.032**	**U**	**0.044**	**J**	**<0.081**	**U**	**<0.081**	**U**	**<0.081**	**U**
RHMW04	Bailer	Energy	ERH2917	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH2918	3/23/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U	<0.075	U
RHMW04	Bailer	Energy	ERH3001	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3002	3/30/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.077	UJ
RHMW04	Bailer	Energy	ERH3109	4/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3110	4/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	ERH3337	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	ERH3338	4/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK1	5/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK2	5/11/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK2	5/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK3	5/16/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK3	5/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK4	5/23/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK4	5/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2205WK5	6/3/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.033		0.044		0.013		0.02		ND		ND		ND		0.044		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Energy	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2205WK5	6/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK1	6/8/2022	Field Duplicate	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK1	6/8/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK2	6/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK2	6/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK3	6/22/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK3	6/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2206WK4	6/30/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2206WK4	6/30/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK1	7/8/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW04

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.033		0.044		0.013		0.02		ND		ND		ND		0.044		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK1	7/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Energy	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2207WK2	7/14/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Energy	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2207WK2	7/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK1	8/3/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK1	8/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK2	8/10/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK2	8/10/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK3	8/17/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK3	8/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK4	8/24/2022	Field Duplicate	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK4	8/24/2022	Primary	V		<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2208WK5	8/31/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2208WK5	8/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK1	9/9/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK2	9/14/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK2	9/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK3	9/23/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK3	9/23/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2209WK4	9/28/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2209WK4	9/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK1	10/5/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK1	10/5/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK2	10/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK2	10/15/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK3	10/17/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK3	10/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK3	10/19/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK3	10/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK4	10/24/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK4	10/24/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK4	10/26/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2210WK5	10/31/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2210WK5	11/2/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2210WK5	11/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK2	11/14/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK2	11/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK3	11/19/2022	Field Duplicate	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK3	11/19/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD02B-2211WK3	11/21/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN02B-2211WK3	11/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGFD01B-2211WK4	11/30/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW04	Bailer	Eurofins Seattle	RHMW04-WGN01B-2211WK4	11/30/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:
1 - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

2 - Bailer method – sample without purging and from the top of the water column.

3 - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When t

4 - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a scree

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

e = Sample extract was reanalyzed due to suspected carryover contamination from the LCSD. In-hold reanalysis indicates that the sample is non-detect. Reanalysis results reported.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.062		0.036	
						Maximum After 11/4/2022	0.057		0.084		0.046		ND		ND		ND		0.032		0.02	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–	R	–	R	–	R	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	<0.096	UJ	<0.096	UJ	<0.096	UJ	–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.048	UJ	<0.048	U	<0.048	UJ	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	**<0.032**	**U**	**<0.080**	**U**	**<0.080**	**U**	**<0.032**	**U**	**<0.032**	**U**	**<0.080**	**U**	**0.062**		**0.036**	**J**
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	0.017	J	0.013	J
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.062		0.036	
						Maximum After 11/4/2022	0.057		0.084		0.046		ND		ND		ND		0.032		0.02	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.014**	**J**	**0.013**	**J**
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.013**	**J**	**0.013**	**J**
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V	**0.057**	**J**	**0.084**	**J**	**0.046**	**J**	<0.031	U	<0.031	U	<0.077	U	**0.032**	**J**	**0.02**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.028		0.02		ND		0.11		ND		0.051		ND		ND		0.067		0.23	
Maximum After 11/4/2022							0.044		ND		ND		0.021		ND		0.063		ND		0.014		0.053		0.06	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	APPL	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1756	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1792	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1793	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1812	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1813	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1824	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1825	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1853	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1854	10/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1881	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1882	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1901	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1902	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1927	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1928	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH1947	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH1948	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	APPL	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2011	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2219	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2220	12/8/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2184	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2240	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Energy	ERH2285	12/27/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW05	Bailer	Energy	ERH2330	1/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2383	1/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW05	Bailer	Energy	ERH2433	1/17/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW05	Bailer	Energy	ERH2580	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2659	3/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH2723	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2724	3/8/2022	Primary	V c	**0.028**	**J**	**0.02**	**J**	**<0.032**	**U**	**0.11**		**<0.032**	**U**	**0.051**	**J**	**<0.032**	**U**	**<0.032**	**U**	**0.067**	**J**	**0.23**	
RHMW05	Bailer	Energy	ERH2817	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2818	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW05	Bailer	Energy	ERH2889	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH2890	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW05	Bailer	Energy	ERH3027	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3028	3/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH3077	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3078	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	ERH3334	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	ERH3335	4/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2205WK5	5/31/2022	Primary	V	**0.018**	**J**	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	**0.036**	**J**	<0.031	U	<0.031	U	<0.077	U	**0.034**	**J**
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK2	6/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW05

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.028		0.02		ND		0.11		ND		0.051		ND		ND		0.067		0.23	
							Maximum After 11/4/2022	0.044		ND		ND		0.021		ND		0.063		ND		0.014		0.053		0.06	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK3	6/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2206WK4	6/29/2022	Primary	V		**0.012**	**J**	<0.031	U	<0.031	U	**0.017**	**J**	<0.031	U	**0.027**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK1	7/6/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW05	Bailer	Energy	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2207WK2	7/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK1	8/2/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK2	8/9/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK3	8/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK4	8/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2208WK5	8/30/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK1	9/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK2	9/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK3	9/20/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2209WK4	9/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK1	10/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK2	10/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK3	10/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK3	10/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK4	10/25/2022	Primary	V		**0.016**	**J**	<0.031	U	<0.031	U	**0.015**	**J**	<0.031	U	**0.025**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK4	10/27/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN01B-2210WK5	11/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	**0.023**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2210WK5	11/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW05	Bailer	Eurofins Seattle	RHMW05-WGN02B-2211WK3	11/22/2022	Primary	V		**0.044**	**J**	<0.031	U	<0.031	U	**0.021**	**J**	<0.031	U	**0.063**	**J**	<0.031	U	**0.014**	**J**	**0.053**	**J**	**0.06**	**J**

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					Analyte		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					CAS No.		90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
					Method		8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL		10		10		17		15		13		0.02		0.027		0.06	
					Units		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum Before 11/5/2022		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum Before 11/5/2022		0.086		0.14		0.041		ND		0.021		0.03		0.048		0.028	
					Maximum After 11/4/2022		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V	<0.033	U	<0.081	U	<0.081	U	<0.033	U	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V	**0.086**	**J**	**0.14**	**J**	**0.041**	**J**	<0.032	U	**0.021**	**J**	**0.03**	**J**	**0.048**	**J**	**0.028**	**J**
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d	**<0.031**	**U**	**<0.077**	**U**	**<0.077**	**U**	**<0.031**	**U**	**<0.031**	**U**	**<0.077**	**U**	**<0.031**	**U**	**<0.031**	**U**
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V	<0.031	UJ	<0.076	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.086		0.14		0.041		ND		0.021		0.03		0.048		0.028	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.019		0.012		ND		0.068		ND		0.044		0.022		ND		0.089		0.19	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	APPL	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH1763	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2186	12/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2242	12/21/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	ERH2319	12/28/2021	Primary	V		<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U	<0.098	U
RHMW06	Bailer	Energy	ERH2364	1/4/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW06	Bailer	Energy	ERH2418	1/11/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2468	1/18/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW06	Bailer	Energy	ERH2582	2/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2647	2/28/2022	Primary	V		<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.081	U	<0.081	U
RHMW06	Bailer	Energy	ERH2732	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2733	3/7/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW06	Bailer	Energy	ERH2833	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2834	3/16/2022	Primary	V		0.019	J	0.012	J	<0.032	U	0.068	J	<0.032	U	0.044	J	0.022	J	<0.032	U	0.089	J	0.19	
RHMW06	Bailer	Energy	ERH2906	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2907	3/23/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	ERH2990	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH2991	3/30/2022	Primary	V		<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW06	Bailer	Energy	ERH3083	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	ERH3084	4/4/2022	Primary	V d		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	ERH2231	4/25/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW06	Bailer	Energy	ERH3340	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Energy	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGFD01B-2205WK1	5/4/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK1	5/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK2	5/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK3	5/16/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK4	5/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2205WK5	6/3/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK1	6/8/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK2	6/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK3	6/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2206WK4	6/30/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK1	7/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Energy	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2207WK2	7/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK1	8/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK2	8/10/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK3	8/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK4	8/24/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK2	9/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK3	9/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2209WK4	9/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW06

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.019		0.012		ND		0.068		ND		0.044		0.022		ND		0.089		0.19	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK2	10/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK3	10/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK3	10/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK4	10/24/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK4	10/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2210WK5	11/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK3	11/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN02B-2211WK3	11/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW06	Bailer	Eurofins Seattle	RHMW06-WGN01B-2211WK4	11/30/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					Analyte		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
					CAS No.		90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
					Method		8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL		10		10		17		15		13		0.02		0.027		0.06	
					Units		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum Before 11/5/2022		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum Before 11/5/2022		0.021		ND		0.038		0.015		ND		ND		0.035		0.021	
					Maximum After 11/4/2022		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–	–	–	–	–	–	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.032	U	<0.081	U	<0.081	U	**0.015**	**J**	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	**0.035**	**J**	**0.021**	**J**
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.021		ND		0.038		0.015		ND		ND		0.035		0.021	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V	**0.021**	**J**	<0.077	U	**0.038**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.019		0.012		ND		0.069		ND		0.024		ND		ND		ND		0.11	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	APPL	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH1764	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	APPL	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2013	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2014	12/1/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2222	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2188	12/16/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2189	12/16/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2244	12/23/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2245	12/23/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Energy	ERH2315	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2360	1/4/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW08	Bailer	Energy	ERH2414	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2464	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW08	Bailer	Energy	ERH2584	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2648	2/28/2022	Primary	V c,d	<0.032	U	<0.032	U	<0.032	U	0.018	J	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	0.036	J
RHMW08	Bailer	Energy	ERH2755	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2756	3/9/2022	Primary	V c	0.019	J	0.012	J	<0.033	U	0.069	J+	<0.033	U	0.024	J	<0.033	U	<0.033	U	<0.082	U	0.11	
RHMW08	Bailer	Energy	ERH2826	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2827	3/16/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW08	Bailer	Energy	ERH2903	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2904	3/23/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	ERH2987	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH2988	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW08	Bailer	Energy	ERH3080	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3081	4/4/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	ERH3341	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	ERH3342	4/25/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK2	5/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK3	5/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK1	6/8/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK2	6/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW08	Bailer	Energy	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK2	8/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK4	8/24/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW08

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.019		0.012		ND		0.069		ND		0.024		ND		ND		ND		0.11	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK2	9/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK3	9/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2209WK4	9/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK1	10/5/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK2	10/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK3	10/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2210WK5	11/2/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK2	11/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK3	11/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN02B-2211WK3	11/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW08	Bailer	Eurofins Seattle	RHMW08-WGN01B-2211WK4	11/30/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.028		0.043		0.097		0.021		ND		ND		0.074		0.042	
Maximum After 11/4/2022							0.02		0.048		0.15		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V	<0.052	U	<0.052	U	<0.052	U	–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V	**0.028**	J	**0.043**	J	<0.081	U	<0.032	U	<0.032	U	<0.081	U	**0.074**		**0.042**	J
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.017**	J	<0.03	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.081	U	**0.033**	J	**0.021**	J	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V	<0.033	U	<0.081	U	<0.081	U	<0.033	U	<0.033	U	<0.081	U	<0.033	U	<0.033	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.028		0.043		0.097		0.021		ND		ND		0.074		0.042	
						Maximum After 11/4/2022	0.02		0.048		0.15		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V	<0.031	U	<0.076	U	**0.097**		<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V	**0.02**	**J**	**0.048**	**J**	**0.15**		<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.027		0.017		ND		0.11		ND		0.085		0.028		ND		0.059		0.22	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	APPL	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH1765	9/30/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2191	12/16/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2247	12/24/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Energy	ERH2317	1/1/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW09	Bailer	Energy	ERH2362	1/7/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	0.051	J	<0.049	U	<0.049	U	<0.049	U	0.061	J
RHMW09	Bailer	Energy	ERH2416	1/12/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	0.085	J	<0.052	U	<0.052	U	<0.052	U	0.085	J
RHMW09	Bailer	Energy	ERH2466	1/17/2022	Primary	V		<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW09	Bailer	Energy	ERH2586	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2656	3/3/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW09	Bailer	Energy	ERH2841	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2842	3/16/2022	Primary	V		0.027	J	0.017	J	<0.032	U	0.11		<0.032	U	0.048	J	<0.032	U	<0.032	U	0.04	J	0.22	
RHMW09	Bailer	Energy	ERH2862	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2863	3/21/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW09	Bailer	Energy	ERH2955	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH2956	3/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	ERH3040	4/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3041	4/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	ERH3295	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	ERH3296	4/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK1	5/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	0.031	J	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK2	5/9/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK3	5/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK4	5/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2205WK5	6/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK1	6/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK2	6/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK3	6/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2206WK4	6/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK1	7/5/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Energy	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2207WK2	7/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK1	8/1/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	0.029	J	0.028	J	<0.032	U	0.059	J	<0.081	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK2	8/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK3	8/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK4	8/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2208WK5	8/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK1	9/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK2	9/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK3	9/19/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2209WK4	9/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK1	10/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK2	10/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK3	10/19/2022	Primary	V		<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.081	U	<0.081	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW09

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.027		0.017		ND		0.11		ND		0.085		0.028		ND		0.059		0.22	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.02	J	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2210WK5	10/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2210WK5	11/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK1	11/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN01B-2211WK2	11/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW09	Bailer	Eurofins Seattle	RHMW09-WGN02B-2211WK3	11/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.032		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V		<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V		<0.048	U	<0.048	U	<0.048	U	–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V		<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	0.032	J	<0.051	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d		<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V		<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V		<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V		<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V		<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V		<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V		<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.047	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		0.032		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK3	11/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.081		0.031		0.072		0.088		0.081		0.02		ND		0.059		0.032		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Bailer	APPL	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1767	10/4/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Energy	ERH1772	10/4/2021	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2193	12/14/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2249	12/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2311	12/29/2021	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2356	1/5/2022	Primary	V		0.081	J	0.031	J	0.072	J	0.088	J	0.081	J	<0.051	U	<0.051	U	0.059	J	<0.051	U	<0.051	U
RHMW12A	Low-Flow	Energy	ERH2410	1/12/2022	Primary	V		0.031	J	<0.049	U	0.029	J	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW12A	Low-Flow	Energy	ERH2460	1/17/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW12A	Low-Flow	Energy	ERH2588	3/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Bailer	Eurofins Seattle	ERH2654	3/1/2022	Primary	V d		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW12A	Low-Flow	Energy	ERH2708	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2709	3/8/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW12A	Low-Flow	Energy	ERH2802	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2803	3/15/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2804	3/15/2022	Field Duplicate	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW12A	Low-Flow	Energy	ERH2872	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2873	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2874	3/22/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH2875	3/22/2022	Field Duplicate	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U
RHMW12A	Low-Flow	Energy	ERH2968	3/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH2969	3/29/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH2970	3/29/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW12A	Low-Flow	Eurofins Seattle	ERH2971	3/29/2022	Field Duplicate	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW12A	Low-Flow	Energy	ERH3055	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3056	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3057	4/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3058	4/4/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	ERH3310	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Energy	ERH3311	4/26/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	ERH3312	4/27/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	ERH3313	4/27/2022	Field Duplicate	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGFD01LF-2205WK1	5/3/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK2	6/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2206WK4	6/29/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	

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Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW12A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.081		0.031		0.072		0.088		0.081		0.02		ND		0.059		0.032		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2207WK2	7/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Energy	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK2	10/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.02	J	<0.031	U	<0.031	U	0.032	J	<0.078	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN01LF-2211WK3	11/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW12A	Low-Flow	Eurofins Seattle	RHMW12A-WGN02LF-2211WK4	12/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V	<0.030	U	<0.075	U	<0.075	U	<0.030	U	<0.030	U	<0.075	U	<0.030	U	<0.030	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Energy	ERH2199	12/16/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2255	12/23/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Energy	ERH2313	12/30/2021	Primary	V		<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW11-05	Westbay	Energy	ERH2358	1/6/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2412	1/13/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2462	1/20/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW11-05	Westbay	Energy	ERH2600	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2668	3/3/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW11-05	Westbay	Energy	ERH2770	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2771	3/9/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW11-05	Westbay	Energy	ERH2853	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2854	3/17/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW11-05	Westbay	Energy	ERH2929	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH2930	3/22/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.075	U	<0.075	U
RHMW11-05	Westbay	Energy	ERH3004	3/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3005	3/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	ERH3097	4/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3098	4/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	ERH3371	4/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	ERH3372	4/28/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK1	5/5/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK2	5/11/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK3	5/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK4	5/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2205WK5	6/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK1	6/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK2	6/16/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK3	6/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2206WK4	7/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK1	7/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2207WK2	7/13/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK2	8/12/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK3	8/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK4	8/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2208WK5	8/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK1	9/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK2	9/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK3	9/20/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2209WK4	9/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK1	10/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Energy	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK2	10/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK3	10/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK4	10/24/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW11-05

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2210WK5	11/2/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK1	11/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK2	11/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN01G-2211WK3	11/21/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW11-05	Westbay	Eurofins Seattle	RHMW11-05-WGN02G-2211WK4	11/30/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V		<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V		<0.050	U	<0.050	U	<0.050	U	–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V		<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V		<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V		<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V		<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V		<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V		<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V		<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V		<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V		<0.031	UJ	<0.076	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V		<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.036		ND		ND		ND		ND		0.058		ND		ND		ND		0.057	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Energy	ERH2201	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2256	12/22/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2307	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW13-05	Westbay	Energy	ERH2352	1/5/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	0.058	J	<0.048	U	<0.048	U	<0.048	U	0.057	J
RHMW13-05	Westbay	Energy	ERH2406	1/12/2022	Primary	V	0.036	J	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW13-05	Westbay	Energy	ERH2456	1/19/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW13-05	Westbay	Energy	ERH2590	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2662	3/2/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Eurofins Seattle	ERH2743	3/10/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW13-05	Westbay	Energy	ERH2758	3/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Energy	ERH2836	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2837	3/16/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW13-05	Westbay	Energy	ERH2909	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2910	3/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	UJ	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	ERH2993	3/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH2994	3/30/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
RHMW13-05	Westbay	Energy	ERH3086	4/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3087	4/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	ERH3345	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	ERH3346	4/27/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK1	5/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK2	5/12/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK1	6/10/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	UJ	<0.032	U	<0.079	U	<0.079	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK2	6/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK3	6/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK1	7/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK1	8/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK3	8/18/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK4	8/24/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK1	9/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK2	9/14/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Energy	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK2	10/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK3	10/19/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK3	10/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW13-05

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.036		ND		ND		ND		ND		0.058		ND		ND		ND		0.057	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2210WK5	10/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2210WK5	11/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK1	11/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK1	11/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN02G-2211WK3	11/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW13-05	Westbay	Eurofins Seattle	RHMW13-05-WGN01G-2211WK4	11/30/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	<0.098	U	<0.098	U	<0.098	U	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)										
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8										
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM										
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06										
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L										
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND										
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND										
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND										
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**										
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U									
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U									

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	APPL	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH1771	10/5/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2203	12/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2259	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Energy	ERH2276	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW14-03	Westbay	Energy	ERH2321	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW14-03	Westbay	Energy	ERH2374	1/10/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW14-03	Westbay	Energy	ERH2424	1/18/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW14-03	Westbay	Energy	ERH2592	3/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2652	3/1/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Energy	ERH2702	3/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2703	3/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW14-03	Westbay	Energy	ERH2799	3/15/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2800	3/15/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Energy	ERH2869	3/22/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2870	3/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW14-03	Westbay	Energy	ERH2965	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH2966	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	ERH3052	4/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3053	4/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	ERH3305	4/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	ERH3306	4/26/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK2	5/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2205WK5	5/31/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK1	6/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK1	7/5/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2207WK2	7/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK2	8/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK4	8/22/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2208WK5	8/29/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK2	9/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK3	9/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2209WK4	9/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK1	10/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Energy	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK2	10/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK3	10/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW14-03

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK3	10/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK4	10/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2210WK5	10/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN02G-2210WK5	11/2/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK1	11/7/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK3	11/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW14-03	Westbay	Eurofins Seattle	RHMW14-03-WGN01G-2211WK4	12/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	<0.096	UJ	<0.096	UJ	<0.096	UJ	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.05	UJ	<0.05	U	<0.05	UJ	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.033	U	<0.083	U	<0.083	U	<0.033	U	<0.033	U	<0.083	U	<0.033	U	<0.033	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
Analyte																						
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.031	U	<0.079	U	<0.079	U	<0.031	U	<0.031	U	<0.079	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.019		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	APPL	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2016	12/2/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2224	12/9/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2205	12/14/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2261	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Energy	ERH2297	12/28/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW15-05	Westbay	Energy	ERH2342	1/4/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2396	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW15-05	Westbay	Energy	ERH2446	1/16/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW15-05	Westbay	Energy	ERH2594	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2671	3/4/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2682	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2683	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Energy	ERH2774	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2775	3/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2856	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2857	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW15-05	Westbay	Energy	ERH2949	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH2950	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	ERH3034	4/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3035	4/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	ERH3289	4/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	ERH3290	4/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK1	5/2/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.083	U	<0.083	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK2	5/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK3	5/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK1	7/8/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2207WK2	7/11/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK2	8/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK1	9/6/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW15-05	Westbay	Energy	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW15-05

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.019		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK2	10/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK3	10/18/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK3	10/20/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK4	10/27/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.079	U	<0.079	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2210WK5	11/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.019	J	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK1	11/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK2	11/17/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN02G-2211WK3	11/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW15-05	Westbay	Eurofins Seattle	RHMW15-05-WGN01G-2211WK4	11/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V	<0.095	U	<0.095	U	<0.095	U	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Bailer	APPL	ERH1768	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Bailer	Energy	ERH1768	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2195	12/14/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2251	12/22/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2309	12/29/2021	Primary	V		<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW16	Low-Flow	Energy	ERH2354	1/5/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW16	Low-Flow	Energy	ERH2408	1/12/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2458	1/17/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW16	Low-Flow	Energy	ERH2596	3/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2653	3/1/2022	Primary	V d		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW16	Low-Flow	Energy	ERH2705	3/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2706	3/8/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW16	Low-Flow	Energy	ERH2820	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2821	3/15/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW16	Low-Flow	Energy	ERH2892	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2893	3/22/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2894	3/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2895	3/22/2022	Field Duplicate	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	ERH2973	4/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH2974	4/1/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH2975	4/1/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH2976	4/1/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	ERH3060	4/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3061	4/4/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3062	4/4/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3063	4/4/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	ERH3317	4/26/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Energy	ERH3318	4/26/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	ERH3319	4/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	ERH3320	4/26/2022	Field Duplicate	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK1	5/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK2	5/10/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK3	5/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK4	5/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2205WK5	6/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK1	6/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK2	6/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGFD01LF-2206WK3	6/21/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK3	6/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2206WK4	6/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK1	7/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2207WK2	7/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK1	8/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW16

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK2	8/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK3	8/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK1	9/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK2	9/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2209WK4	9/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK1	10/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Energy	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK2	10/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK1	11/7/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN01LF-2211WK3	11/19/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW16	Low-Flow	Eurofins Seattle	RHMW16-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		0.034		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V	<0.031	U	<0.077	U	**0.034**	**J**	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW17

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK2	6/15/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK3	6/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2206WK4	7/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK1	7/6/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW17	Bailer	Energy	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2207WK2	7/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK1	8/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK2	8/10/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK3	8/17/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK4	8/24/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK1	9/9/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK2	9/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK3	9/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2209WK4	9/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK1	10/5/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK2	10/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK3	10/19/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK4	10/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN01B-2210WK5	11/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2210WK5	11/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK2	11/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW17	Bailer	Eurofins Seattle	RHMW17-WGN02B-2211WK3	11/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:
[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
[2] - Bailer method – sample without purging and from the top of the water column.
[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th
[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer
a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.
b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.
B - Analyte detected in associated method blank
c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed
d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b
D - Limit of Quatitation (LOQ) increased due to sample matrix
J - estimated value
U - nondetect value
ID - identification
O - Diluted out
-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample
T - Analyte detected in the associated trip blank
TPH-g - total petroleum hydrocarbons gasoline
TPH-d - total petroleum hydrocarbons diesel (JP-5)
TPH-o - total petroleum hydrocarbons oil/grease
"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V		<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V		<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	APPL	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH1769	9/30/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Energy	ERH2366	1/7/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2420	1/12/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2470	1/19/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
RHMW19	Bailer	Energy	ERH2478	1/25/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2512	2/2/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2529	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2547	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW19	Bailer	Energy	ERH2571	2/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW19	Bailer	Energy	ERH2598	3/4/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2670	3/4/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2760	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2761	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW19	Bailer	Energy	ERH2777	3/14/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2778	3/14/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2865	3/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2866	3/21/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW19	Bailer	Energy	ERH2958	3/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH2960	3/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	ERH3043	4/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3044	4/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	ERH3298	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	ERH3299	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK3	5/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK4	5/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2205WK5	6/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2206WK4	6/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK1	7/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Energy	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2207WK2	7/11/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK1	8/1/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK2	8/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK1	9/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2209WK4	9/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW19

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK3	10/17/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK3	10/19/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK4	10/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2210WK5	10/31/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2210WK5	11/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK1	11/7/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK2	11/14/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN01B-2211WK3	11/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW19	Bailer	Eurofins Seattle	RHMW19-WGN02B-2211WK3	11/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	**0.17**	**J**	**0.19**	**J**	**0.12**	**J**	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–	–	–	–	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	<0.096	U	<0.096	U	<0.096	U	–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	<0.097	U	<0.097	U	<0.097	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	<0.099	U	**0.053**	**J**	<0.099	U	–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.097	UJ	<0.097	UJ	<0.097	UJ	–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	<0.097	UJ	<0.097	UJ	<0.097	UJ	–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.1**		<0.048	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	0.068	J	0.066	J	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.048	U	0.053	J	0.048	J	0.032	J	<0.048	U	0.063	J	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.033	U	<0.081	U	<0.081	U	<0.033	U	<0.033	U	<0.081	U	<0.033	U	<0.033	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	0.038	J	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	0.068	J	0.078	J	0.055	J	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	0.027	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	0.018	J-	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	0.02	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	0.023	J	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.17		0.19		0.12		0.032		ND		0.063		0.1		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.03	U	0.1	J	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	UJ
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V	<0.031	U	<0.079	U	<0.079	U	<0.031	U	<0.031	U	<0.079	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Low-Flow	APPL	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1757	9/29/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1795	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1796	10/6/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1815	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1816	10/13/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1836	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1837	10/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1856	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1857	10/26/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1884	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1885	11/3/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1904	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1905	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1930	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1931	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH1959	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH1960	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2018	12/1/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2226	12/8/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2175	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2176	12/15/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2206	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	APPL	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Savannah	ERH2265	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2266	12/21/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	APPL	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2267	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2287	12/27/2021	Primary	V	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U	<0.099	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2287	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2288	12/27/2021	Field Duplicate	V	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U	<0.097	U
RHMW2254-01	Low-Flow	Energy	ERH2289	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2289	12/27/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2332	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2332	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2333	1/3/2022	Field Duplicate	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
RHMW2254-01	Low-Flow	Energy	ERH2334	1/3/2022	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2334	1/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2385	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2386	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2387	1/10/2022	Field Duplicate	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Energy	ERH2389	1/10/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2390	1/10/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2435	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2436	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2437	1/20/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2439	1/20/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2440	1/20/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2486	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2487	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2490	1/24/2022	Primary	V	**0.17**		**0.07**	J	**0.12**		**0.11**		**0.037**	J	**0.043**	J	<0.048	U	**0.11**		<0.048	U	**0.032**	J
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2491	1/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Energy	ERH2516	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Bailer	Eurofins Savannah	ERH2517	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2519	2/3/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
RHMW2254-01	Low-Flow	Eurofins Savannah	ERH2520	2/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Energy	ERH2533	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Low-Flow	Energy	ERH2535	2/10/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2551	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Low-Flow	Energy	ERH2553	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
RHMW2254-01	Bailer	Energy	ERH2565	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	**0.063**	**J**	**0.078**	**J**	<0.048	U	**0.057**	**J**	**0.044**	**J**
RHMW2254-01	Low-Flow	Energy	ERH2567	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
RHMW2254-01	Bailer	Energy	ERH2610	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Energy	ERH2612	3/3/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2665	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW2254-01	Bailer	Eurofins Seattle	ERH2666	3/3/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW2254-01	Bailer	Energy	ERH2685	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2686	3/9/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.081	U	<0.081	U
RHMW2254-01	Low-Flow	Energy	ERH2688	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2689	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
RHMW2254-01	Bailer	Energy	ERH2844	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2845	3/17/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
RHMW2254-01	Low-Flow	Energy	ERH2847	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2848	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
RHMW2254-01	Bailer	Energy	ERH2920	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2921	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	ERH2923	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2924	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	ERH2981	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH2982	3/29/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	ERH2984	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH2985	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	ERH3103	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3104	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	ERH3106	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3107	4/7/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	ERH3365	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	ERH3366	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	ERH3368	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	ERH3369	4/28/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK1	5/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK2	5/12/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK3	6/23/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHMW2254-01

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.17		0.07		0.12		0.11		0.037		0.063		0.078		0.11		0.057		0.044	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK1	7/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Energy	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2207WK2	7/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Energy	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK1	8/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK2	8/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK3	8/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK3	8/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK4	8/25/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK4	8/25/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2208WK5	9/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2208WK5	9/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK1	9/8/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	U	<0.031	UJ	<0.031	U	<0.031	U	<0.031	UJ	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK2	9/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK3	9/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2209WK4	9/29/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK1	10/6/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK2	10/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK2	10/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK3	10/18/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK3	10/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK3	10/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK3	10/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK4	10/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK4	10/25/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK4	10/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK4	10/27/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN01B-2210WK5	11/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN01LF-2210WK5	11/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2210WK5	11/3/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2210WK5	11/3/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
RHMW2254-01	Bailer	Eurofins Seattle	RHMW2254-01-WGN02B-2211WK3	11/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
RHMW2254-01	Low-Flow	Eurofins Seattle	RHMW2254-01-WGN02LF-2211WK3	11/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.079	U	<0.079	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/4/2022							ND		ND		ND		–		–		–		–		–	
Maximum before 02/04/2022							0.063		0.07		0.043		–		–		–		–		–	
Current Maximum							–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	<0.10	UJ	<0.10	UJ	<0.10	UJ	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/4/2022							ND		ND		ND		–		–		–		–		–	
Maximum before 02/04/2022							0.063		0.07		0.043		–		–		–		–		–	
Current Maximum							–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	<0.1	U	<0.1	U	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	0.055	J	0.061	J	<0.1	U	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	0.063	J	0.07	J	0.043	J	–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Benzo(b)fluoranthene (SIM)	Benzo(g,h,i)perylene (SIM)	Benzo(k)fluoranthene (SIM)	Chrysene (SIM)	Dibenzo(a,h)anthracene (SIM)	Fluoranthene (SIM)	Fluorene (SIM)	Indeno(1,2,3-cd)pyrene (SIM)	Phenanthrene (SIM)	Pyrene (SIM)
CAS No.							205-99-2	191-24-2	207-08-9	218-01-9	53-70-3	206-44-0	86-73-7	193-39-5	85-01-8	129-00-0
Method							8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM	8270SIM
DOH Tier 1 EAL							0.22	0.13	0.4	1	0.022	0.8	3.9	0.095	2.3	4.6
Units							µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Minimum before 2/4/2022							–	–	–	–	–	–	–	–	–	–
Maximum before 02/04/2022							–	–	–	–	–	–	–	–	–	–
Current Maximum							–	–	–	–	–	–	–	–	–	–
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result	Result	Result	Result	Result	Result	Result	Result	Result	Result
RHSF	Pre-chlorination spigot	APPL	ERH1430	6/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1432	6/10/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1446	6/17/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1454	6/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1462	7/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1470	7/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1539	7/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1547	7/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1555	7/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1582	8/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1590	8/12/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1598	8/19/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1623	8/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1646	9/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1659	9/8/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1668	9/15/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1677	9/22/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1745	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Post-chlorination spigot	Energy	ERH1746	9/23/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1747	9/24/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1748	9/25/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1749	9/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1750	9/27/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1751	9/28/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1758	9/29/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1759	9/29/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1775	9/30/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1776	10/1/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1777	10/2/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1778	10/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1779	10/4/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1780	10/5/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1781	10/5/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1798	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1799	10/6/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1800	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1801	10/6/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1818	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1819	10/13/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1820	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1821	10/13/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1839	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1840	10/20/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1841	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1842	10/20/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1859	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1860	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1861	10/26/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1862	10/26/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1887	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	Energy	ERH1888	11/3/2021	Primary	V	–	–	–	–	–	–	–	–	–	–
RHSF	Pre-chlorination spigot	APPL	ERH1889	11/3/2021	Field Duplicate	V	–	–	–	–	–	–	–	–	–	–

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: RHSF

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum before 2/4/2022							–		–		–		–		–		–		–		–		–		–	
Maximum before 02/04/2022							–		–		–		–		–		–		–		–		–		–	
Current Maximum							–		–		–		–		–		–		–		–		–		–	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF	Pre-chlorination spigot	Energy	ERH1890	11/3/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1907	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1908	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1909	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1910	11/10/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1916	11/10/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1933	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1934	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1935	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1936	11/17/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1938	11/17/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1962	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1963	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	APPL	ERH1964	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Pre-chlorination spigot	Energy	ERH1965	11/24/2021	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
RHSF	Post-chlorination spigot	Energy	ERH1966	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compo

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or greas

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time per

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sar

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.037		ND		0.034		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V		<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V		–	R	–	R	–	R	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V		<0.10	U	<0.10	U	<0.10	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V		<0.099	U	<0.099	U	<0.099	U	–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V		<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V		<0.049	UJ	<0.049	U	<0.049	UJ	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V		<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V		<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V		0.037	J+	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	UJ	<0.03	UJ	<0.03	UJ
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V		<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V		<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.037		ND		0.034		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V		**0.021**	J	<0.076	U	**0.034**	J	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V		<0.033	U	<0.084	U	<0.084	U	<0.033	U	<0.033	U	<0.084	U	<0.033	U	<0.033	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.066		ND		ND		ND		0.072	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Bailer	APPL	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Bailer	Energy	ERH1770	10/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	APPL	ERH2020	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2020	12/1/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2228	12/8/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2197	12/13/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2253	12/21/2021	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Energy	ERH2293	12/27/2021	Primary	V		<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U	<0.095	U
OWDFMW01	Low-Flow	Energy	ERH2338	1/4/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW01	Low-Flow	Energy	ERH2394	1/11/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	**0.066**	**J**	<0.049	U	<0.049	U	<0.049	U	**0.072**	**J**
OWDFMW01	Low-Flow	Energy	ERH2444	1/17/2022	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW01	Low-Flow	Energy	ERH2616	3/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2669	3/3/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
OWDFMW01	Low-Flow	Energy	ERH2691	3/10/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2692	3/10/2022	Primary	V		<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
OWDFMW01	Low-Flow	Energy	ERH2793	3/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2794	3/15/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW01	Low-Flow	Energy	ERH2914	3/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2915	3/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW01	Low-Flow	Energy	ERH2998	3/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH2999	3/30/2022	Primary	V		<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
OWDFMW01	Low-Flow	Energy	ERH3112	4/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3113	4/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	ERH3348	4/27/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	ERH3349	4/27/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK1	5/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK2	5/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK3	5/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK4	5/25/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2205WK5	5/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK1	6/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	UJ	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK2	6/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK3	6/24/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2206WK4	6/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK1	7/6/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW01	Low-Flow	Energy	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2207WK2	7/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK1	8/3/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK2	8/10/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK3	8/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK4	8/24/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK1	9/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK2	9/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2209WK4	9/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW01

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.066		ND		ND		ND		0.072	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK1	10/5/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK3	10/19/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK4	10/25/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2210WK5	11/2/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW01	Low-Flow	Eurofins Seattle	OWDFMW01-WGN01LF-2211WK3	11/20/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.084	U	<0.084	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							629		902		127		0.28		0.15		0.33		0.99		0.83	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.049		0.054	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	<0.11	U	<0.11	U	<0.11	U	–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	4.3	J-	<0.097	UJ	1.1	J-	–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	0.2		0.18	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	629		902		127		<0.053	U	<0.053	U	0.21		0.16		0.092	J
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	0.16		0.13	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	0.033	J	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	2.3		3.6		1.2		0.28		0.15		0.33		0.99		0.83	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	0.058	J	0.069	J
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	0.042	J	0.048	J	0.074	J	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.033	U	<0.082	U	<0.082	U	<0.033	U	<0.033	U	<0.082	U	<0.033	U	<0.033	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	0.23		0.28	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.047	J	0.34		0.37	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.03	J	0.036	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	0.035	J	0.041	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.09	J	0.11	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	0.011	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	0.059		0.08	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	0.026	J	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.038	J	0.2		0.28	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	0.063	J	0.065	J	<0.078	U	<0.031	U	<0.031	U	<0.078	U	0.056		0.083	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	0.021	J	0.15		0.21	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	0.07		0.095	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	629		902		127		0.28		0.15		0.33		0.99		0.83	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.049		0.054	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V		<0.031	UJ	<0.078	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.031	UJ	<0.031	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V		**0.21**		**0.2**		**0.055**	**J**	<0.031	U	<0.031	U	<0.077	U	**0.037**	**J**	**0.039**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.027**	**J**	**0.033**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.033**	**J**	**0.032**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	**0.064**		**0.07**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.025**	**J**	**0.029**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	**0.022**	**J**	**0.14**		**0.18**	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	**0.038**	**J**	**0.044**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	**0.022**	**J**	**0.11**		**0.15**	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.055**		**0.08**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	**0.022**	**J**	**0.11**		**0.084**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.049**		**0.054**	**J**
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	**0.016**	**J**	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.9		2.6	
Maximum After 11/4/2022							0.048		0.031		0.026		0.073		ND		0.1		ND		0.05		0.036		0.12	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Energy	ERH1968	11/24/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2230	12/15/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2269	12/20/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2273	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	APPL	ERH2274	12/21/2021	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Energy	ERH2291	12/27/2021	Primary	V	0.3		0.16		0.1	J	0.33		<0.10	U	0.37		<0.10	U	0.17		0.05	J	0.64	
Sump Adit 3	Bailer	Energy	ERH2336	1/3/2022	Primary	V	0.16		0.042	J	0.045	J	0.18		<0.053	U	0.33		<0.053	U	0.071	J	1.9		0.42	
Sump Adit 3	Bailer	Energy	ERH2392	1/11/2022	Primary	V	0.2		0.087	J	0.075	J	0.16		<0.05	U	0.14		<0.05	U	0.11		<0.05	U	0.27	
Sump Adit 3	Bailer	Energy	ERH2442	1/20/2022	Primary	V	0.091	J	<0.049	U	0.067	J	<0.049	U	<0.049	U	0.067	J	<0.049	U	<0.049	U	<0.049	U	0.069	J
Sump Adit 3	Bailer	Energy	ERH2493	1/24/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
Sump Adit 3	Bailer	Energy	ERH2522	2/3/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2537	2/10/2022	Primary	V	1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.7		2.6	
Sump Adit 3	Bailer	Energy	ERH2555	2/17/2022	Primary	V	0.12		0.14		0.1		<0.05	U	0.12		<0.05	U	<0.05	U	0.12		<0.05	U	<0.05	U
Sump Adit 3	Bailer	Energy	ERH2569	2/22/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
Sump Adit 3	Bailer	Energy	ERH2614	3/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2667	3/2/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
Sump Adit 3	Bailer	Energy	ERH2763	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2764	3/9/2022	Primary	V	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
Sump Adit 3	Bailer	Energy	ERH2850	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2851	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
Sump Adit 3	Bailer	Energy	ERH2926	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2927	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ERH2978	3/29/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH2979	3/29/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ERH3100	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3101	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ERH3351	4/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ERH3352	4/28/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK4	5/26/2022	Primary	V	0.4		0.21		0.18		0.33		0.05	J	0.29		<0.032	U	0.26		0.093	J	0.56	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2205WK5	6/2/2022	Primary	V	0.44		0.24		0.15		0.35		0.056	J	0.52		<0.03	U	0.32		0.19		0.62	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK1	6/9/2022	Primary	V	0.043	J	0.029	J	0.02	J	0.04	J	<0.031	U	0.053	J	<0.031	UJ	0.036	J	<0.078	U	0.066	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK2	6/16/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGFD01B-2206WK3	6/23/2022	Field Duplicate	V	0.053	J	0.035	J	0.024	J	0.051	J	<0.03	U	0.064	J	<0.03	U	0.046	J	<0.076	U	0.072	J
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK3	6/23/2022	Primary	V	0.11	J	0.092	J	0.054	J	0.11		<0.031	U	0.14	J	<0.031	U	0.11	J	0.038	J	0.15	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2206WK4	7/1/2022	Primary	V	0.013	J	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.015	J	<0.078	U	<0.078	U
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK1	7/7/2022	Primary	V	0.094		0.072		0.039	J	0.079	J	<0.031	U	0.081	J	<0.031	U	0.097		<0.076	U	0.098	
Sump Adit 3	Bailer	Energy	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2207WK2	7/13/2022	Primary	V	0.28		0.24		0.13		0.25		0.058	J	0.32		<0.03	U	0.32		0.087	J	0.37	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK1	8/4/2022	Primary	V	0.09		0.046	J	0.044	J	0.074	J	<0.031	U	0.1	J	<0.031	U	0.067		0.075	J	0.15	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK2	8/11/2022	Primary	V	0.22		0.14		0.081		0.19		0.034	J	0.25		<0.03	U	0.2		0.072	J	0.26	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK3	8/18/2022	Primary	V	0.091	J	0.071		0.055	J	0.1		<0.031	U	0.12	J	<0.031	U	0.085		0.036	J	0.14	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK4	8/25/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Water Sampling: Sump Adit 3

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	1.2		0.51		0.42		1.2		0.13		2.6		0.45		0.57		1.9		2.6	
							Maximum After 11/4/2022	0.048		0.031		0.026		0.073		ND		0.1		ND		0.05		0.036		0.12	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2208WK5	9/1/2022	Primary	V		<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.078	UJ	<0.078	UJ
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK1	9/8/2022	Primary	V		0.05		0.034	J	0.025	J	0.055	J	<0.031	U	0.081	J	<0.031	U	0.039	J	<0.077	U	0.091	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK2	9/15/2022	Primary	V		0.047	J	0.03	J	0.022	J	0.051	J	<0.031	U	0.059	J	<0.031	U	0.038	J	<0.077	U	0.072	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2209WK4	9/29/2022	Primary	V		0.042	J	0.032	J	0.026	J	0.052	J	<0.03	U	0.089	J	<0.03	U	0.039	J	<0.076	U	0.11	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK1	10/5/2022	Primary	V		0.088	J	0.055		0.055	J	0.1		<0.031	U	0.11	J	<0.031	U	0.073		<0.076	U	0.15	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK2	10/16/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	0.017	J	<0.031	U	<0.031	U	<0.076	U	<0.076	U
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK3	10/18/2022	Primary	V		0.029	J	0.013	J	<0.031	U	0.046	J	<0.031	U	0.053	J	<0.031	U	0.02	J	<0.077	U	0.064	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK3	10/20/2022	Primary	V		0.2		0.12		0.095		0.2		0.043	J	0.24		<0.031	U	0.17		0.045	J	0.3	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK4	10/25/2022	Primary	V		0.05		0.016	J	0.025	J	0.046	J	<0.031	U	0.063	J	<0.031	U	0.027	J	<0.077	U	0.077	J
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK4	10/27/2022	Primary	V		0.15		0.085		0.079		0.16		<0.031	U	0.21		<0.031	U	0.08		0.04	J	0.26	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2210WK5	11/1/2022	Primary	V		0.077		0.065		0.046	J	0.08	J	<0.03	U	0.091	J	<0.03	U	0.087		0.031	J	0.1	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2210WK5	11/3/2022	Primary	V		0.11		0.025	J	0.062		0.14		<0.031	U	0.25		<0.031	U	0.037	J	0.056	J	0.26	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN01B-2211WK3	11/20/2022	Primary	V		0.048		0.031	J	0.026	J	0.073	J	<0.03	U	0.1	J	<0.03	U	0.05		0.036	J	0.12	
Sump Adit 3	Bailer	Eurofins Seattle	ADIT3-SUMP-WGN02B-2211WK3	11/22/2022	Primary	V		0.019	J	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.023	J	<0.03	U	<0.03	U	<0.076	U	0.032	J

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		0.03		0.053	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		0.03		0.053	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	0.03	J	0.053	J
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.047		0.06		0.023		0.035		ND		0.044		ND		0.055		ND		0.047	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Energy	ERH2299	12/30/2021	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2344	1/6/2022	Primary	V		<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW04A	Low-Flow	Energy	ERH2398	1/13/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW04A	Low-Flow	Energy	ERH2448	1/16/2022	Primary	V		<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW04A	Low-Flow	Energy	ERH2620	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2664	3/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2676	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2677	3/2/2022	Field Duplicate	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
OWDFMW04A	Low-Flow	Energy	ERH2747	3/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2748	3/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2749	3/9/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2750	3/9/2022	Field Duplicate	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2783	3/16/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Energy	ERH2784	3/16/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2785	3/16/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2786	3/16/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	ERH2859	3/21/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2860	3/21/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW04A	Low-Flow	Energy	ERH2952	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH2953	3/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	ERH3037	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3038	4/5/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	ERH3292	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	ERH3293	4/25/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK1	5/2/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK2	5/9/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK3	5/18/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK4	5/23/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK4	5/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2205WK5	6/3/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK1	6/6/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK2	6/13/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK3	6/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2206WK4	6/30/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW04A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum After 11/4/2022	0.047		0.06		0.023		0.035		ND		0.044		ND		0.055		ND		0.047	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK1	7/5/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK1	7/5/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2207WK2	7/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Energy	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK1	8/1/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK2	8/8/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK3	8/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK4	8/22/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2208WK5	8/29/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK1	9/6/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK1	9/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK2	9/12/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK3	9/21/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK3	9/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2209WK4	9/26/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK1	10/3/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK2	10/14/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK3	10/21/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK3	10/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK4	10/26/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		**0.047**	**J**	**0.06**		**0.023**	**J**	**0.035**	**J**	<0.03	U	**0.044**	**J**	<0.03	U	**0.055**		<0.076	U	**0.047**	**J**
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD02LF-2211WK2	11/18/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK3	11/21/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK3	11/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGFD01LF-2211WK4	12/1/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW04A	Low-Flow	Eurofins Seattle	OWDFMW04A-WGN01LF-2211WK4	12/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V	<0.032	U	<0.08	U	<0.08	U	<0.032	U	<0.032	U	<0.08	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						Analyte																
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V	<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.029		ND		ND		0.048		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Energy	ERH2301	12/31/2021	Primary	V		<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U	<0.052	U
OWDFMW05A	Low-Flow	Energy	ERH2346	1/6/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2400	1/13/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2450	1/16/2022	Primary	V		<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW05A	Low-Flow	Energy	ERH2618	3/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2663	3/2/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.08	U	<0.08	U
OWDFMW05A	Low-Flow	Energy	ERH2674	3/2/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2675	3/2/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	ERH2694	3/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2695	3/7/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2830	3/17/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2831	3/17/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2897	3/22/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2898	3/22/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW05A	Low-Flow	Energy	ERH2962	3/28/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH2963	3/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	ERH3091	4/5/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3092	4/5/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	ERH3302	4/25/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	ERH3303	4/25/2022	Primary	V		<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK1	5/2/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	0.029	J	<0.03	U	<0.03	U	0.048	J	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK2	5/9/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK3	5/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK4	5/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK4	5/23/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2205WK5	6/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK1	6/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK2	6/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK3	6/20/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2206WK4	6/30/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK1	7/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Energy	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2207WK2	7/15/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK1	8/1/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK2	8/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK3	8/15/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK4	8/22/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2208WK5	8/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK1	9/6/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK2	9/12/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK3	9/19/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2209WK4	9/26/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK1	10/3/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK2	10/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK4	10/26/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW05A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.029		ND		ND		0.048		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK3	11/21/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW05A	Low-Flow	Eurofins Seattle	OWDFMW05A-WGN01LF-2211WK4	12/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.041		0.06		ND		ND		0.013		ND		0.03		0.022	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	**<0.033**	**U**	**<0.082**	**U**	**<0.082**	**U**	**<0.033**	**U**	**<0.033**	**U**	**<0.082**	**U**	**<0.033**	**U**	**<0.033**	**U**
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	**0.041**	**J**	**0.06**	**J**	<0.080	U	<0.032	U	**0.013**	**J**	<0.080	U	**0.03**	**J**	**0.022**	**J**
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.030	UJ	<0.076	UJ	<0.076	UJ	<0.030	UJ	<0.030	UJ	<0.076	UJ	<0.030	UJ	<0.030	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.041		0.06		ND		ND		0.013		ND		0.03		0.022	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.032	U	<0.081	U	<0.081	U	<0.032	U	<0.032	U	<0.081	U	<0.032	U	<0.032	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.014		0.012		ND		0.043		ND		0.092		ND		ND		0.055		0.1	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Energy	ERH2303	12/31/2021	Primary	V	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U	<0.049	U
OWDFMW07A	Low-Flow	Energy	ERH2348	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2402	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2452	1/20/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	0.092	J	<0.05	U	<0.05	U	0.042	J	0.083	J
OWDFMW07A	Low-Flow	Energy	ERH2481	1/24/2022	Primary	V	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U	<0.051	U
OWDFMW07A	Low-Flow	Energy	ERH2507	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2524	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2542	2/17/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW07A	Low-Flow	Energy	ERH2558	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW07A	Low-Flow	Energy	ERH2605	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2649	2/28/2022	Primary	V d	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.033	U	<0.082	U	<0.082	U
OWDFMW07A	Low-Flow	Energy	ERH2752	3/9/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2753	3/9/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
OWDFMW07A	Low-Flow	Energy	ERH2823	3/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2824	3/16/2022	Primary	V	0.014	J	0.012	J	<0.032	U	0.043	J	<0.032	U	0.022	J	<0.032	U	<0.032	U	0.055	J	0.1	
OWDFMW07A	Low-Flow	Energy	ERH2900	3/23/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH2901	3/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3018	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3019	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3094	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3095	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	ERH3358	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	ERH3360	4/27/2022	Primary	V	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.030	UJ	<0.076	UJ	<0.076	UJ
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK3	6/21/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2206WK4	7/1/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK1	7/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Energy	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2207WK2	7/13/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK1	8/4/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK2	8/11/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK3	8/18/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK4	8/23/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2208WK5	8/30/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK1	9/8/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK2	9/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK3	9/20/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2209WK4	9/29/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK1	10/6/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK2	10/15/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW07A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.014		0.012		ND		0.043		ND		0.092		ND		ND		0.055		0.1	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.081	U	<0.081	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN02LF-2211WK2	11/18/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK3	11/20/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW07A	Low-Flow	Eurofins Seattle	OWDFMW07A-WGN01LF-2211WK4	11/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
CAS No.							90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
Method							8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							10		10		17		15		13		0.02		0.027		0.06	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							0.085		0.099		0.069		0.11		0.15		ND		0.035		ND	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	0.085	J	0.099	J	0.069	J	0.11		0.15		<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	0.035	J	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.032	U	<0.080	U	<0.080	U	<0.032	U	<0.032	U	<0.080	U	<0.032	U	<0.032	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.030	U	<0.076	U	<0.076	U	<0.030	U	<0.030	U	<0.076	U	<0.030	U	<0.030	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	UJ	<0.077	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.031	UJ	<0.031	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.076	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.031	UJ	<0.031	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.03	UJ	<0.076	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.03	UJ	<0.03	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
							CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
							Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	0.085		0.099		0.069		0.11		0.15		ND		0.035		ND	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		<0.03	U	<0.075	U	<0.075	U	<0.03	U	<0.03	U	<0.075	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V		<0.031	U	<0.078	U	<0.078	U	<0.031	U	<0.031	U	<0.078	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND	
						Maximum Before 11/5/2022	0.085		0.099		0.069		0.11		0.15		ND		0.035		ND	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V	<0.031	U	<0.076	U	<0.076	U	<0.031	U	<0.031	U	<0.076	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V	<0.03	U	<0.076	U	<0.076	U	<0.03	U	<0.03	U	<0.076	U	<0.03	U	<0.03	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V	<0.031	U	<0.077	U	<0.077	U	<0.031	U	<0.031	U	<0.077	U	<0.031	U	<0.031	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

Analyte							Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
CAS No.							205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method							8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL							0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
Units							µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum Before 11/5/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum Before 11/5/2022							ND		ND		ND		ND		ND		0.15		0.069		ND		ND		0.14	
Maximum After 11/4/2022							ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	ERH2305	12/31/2021	Primary	V	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U	<0.050	U
OWDFMW08A	Low-Flow	Energy	ERH2350	1/6/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2404	1/13/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2454	1/16/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2483	1/24/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2509	2/2/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	0.15		0.069	J	<0.048	U	<0.048	U	0.12	
OWDFMW08A	Low-Flow	Energy	ERH2510	2/2/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	0.15		<0.048	U	<0.048	U	<0.048	U	0.14	
OWDFMW08A	Low-Flow	Energy	ERH2526	2/9/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2527	2/9/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2544	2/16/2022	Primary	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2545	2/16/2022	Field Duplicate	V	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U	<0.05	U
OWDFMW08A	Low-Flow	Energy	ERH2560	2/23/2022	Primary	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2561	2/23/2022	Field Duplicate	V	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U	<0.048	U
OWDFMW08A	Low-Flow	Energy	ERH2607	2/28/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2608	2/28/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2650	2/28/2022	Primary	V d	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2651	2/28/2022	Field Duplicate	V d	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2697	3/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2698	3/7/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2699	3/7/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2700	3/7/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2788	3/17/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Energy	ERH2789	3/17/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2790	3/17/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.080	U	<0.080	U
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2791	3/17/2022	Field Duplicate	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH2932	3/24/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH2933	3/24/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH3007	3/31/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3008	3/31/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH3047	4/7/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3048	4/7/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	ERH3355	4/27/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	ERH3356	4/27/2022	Primary	V	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.030	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK1	5/5/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK2	5/12/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK2	5/12/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK3	5/19/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK3	5/19/2022	Primary	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK4	5/26/2022	Field Duplicate	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK4	5/26/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2205WK5	6/2/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2205WK5	6/2/2022	Primary	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.077	UJ	<0.077	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK1	6/8/2022	Field Duplicate	V	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.031	UJ	<0.076	UJ	<0.076	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK1	6/8/2022	Primary	V	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.03	UJ	<0.076	UJ	<0.076	UJ
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK2	6/16/2022	Field Duplicate	V	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK2	6/16/2022	Primary	V	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.15		0.069		ND		ND		0.14	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK3	6/23/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2206WK4	7/1/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.075	U	<0.075	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2206WK4	7/1/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK1	7/7/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK1	7/7/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2207WK2	7/13/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Energy	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2207WK2	7/13/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK1	8/4/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK1	8/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK2	8/11/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK2	8/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK3	8/19/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK3	8/19/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK4	8/23/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.078	U	<0.078	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK4	8/23/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2208WK5	8/31/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2208WK5	8/31/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK1	9/8/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK1	9/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK2	9/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK2	9/15/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK3	9/22/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK3	9/22/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2209WK4	9/29/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2209WK4	9/29/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK1	10/6/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK1	10/6/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK2	10/15/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK2	10/15/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK3	10/17/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK3	10/17/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK3	10/21/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK3	10/21/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK4	10/24/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK4	10/24/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK4	10/28/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK4	10/28/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2210WK5	10/31/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2210WK5	10/31/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2210WK5	11/4/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: OWDFMW08A

							Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
							CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
							Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
							DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
							Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
							Minimum Before 11/5/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
							Maximum Before 11/5/2022	ND		ND		ND		ND		ND		0.15		0.069		ND		ND		0.14	
							Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Sampling Method	Lab	Sample ID	Sampling Date	Type	Result Status		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2210WK5	11/4/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK1	11/8/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK1	11/8/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD02LF-2211WK1	11/11/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN02LF-2211WK1	11/11/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK2	11/14/2022	Field Duplicate	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK2	11/14/2022	Primary	V		<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.03	U	<0.076	U	<0.076	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGFD01LF-2211WK4	11/28/2022	Field Duplicate	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U
OWDFMW08A	Low-Flow	Eurofins Seattle	OWDFMW08A-WGN01LF-2211WK4	11/28/2022	Primary	V		<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.077	U	<0.077	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"--" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

						Analyte	1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene		Acenaphthene (SIM)		Acenaphthylene (SIM)		Anthracene (SIM)		Benzo(a)anthracene (SIM)		Benzo(a)pyrene (SIM)	
						CAS No.	90-12-0		91-57-6		91-20-3		83-32-9		208-96-8		120-12-7		56-55-3		50-32-8	
						Method	8270D SIM		8270D SIM		8270D SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	10		10		17		15		13		0.02		0.027		0.06	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	–		–		–		–		–		–		–		–	
						Maximum Before 11/5/2022	–		–		–		–		–		–		–		–	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.032	U	<0.079	U	<0.079	U	<0.032	U	<0.032	U	<0.079	U	<0.032	U	<0.032	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed. The reanalysis was performed beyond the sample holding time. The reported results are suspected to be due to contamination unrelated to site groundwater conditions.

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to be due to contamination unrelated to site groundwater conditions.

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Groundwater Sampling: NMW24

						Analyte	Benzo(b)fluoranthene (SIM)		Benzo(g,h,i)perylene (SIM)		Benzo(k)fluoranthene (SIM)		Chrysene (SIM)		Dibenzo(a,h)anthracene (SIM)		Fluoranthene (SIM)		Fluorene (SIM)		Indeno(1,2,3-cd)pyrene (SIM)		Phenanthrene (SIM)		Pyrene (SIM)	
						CAS No.	205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
						Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
						DOH Tier 1 EAL	0.22		0.13		0.4		1		0.022		0.8		3.9		0.095		2.3		4.6	
						Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
						Minimum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–	
						Maximum Before 11/5/2022	–		–		–		–		–		–		–		–		–		–	
						Maximum After 11/4/2022	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	**Sampling Method**	**Lab**	**Sample ID**	**Sampling Date**	**Type**	**Result Status**	**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**		**Result**	
NMW24	Bailer	Eurofins Seattle	NMW24-WGN01B-2211WK3	11/22/2022	Primary	V	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.032	U	<0.079	U	<0.079	U

Notes:

[1] - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

[2] - Bailer method – sample without purging and from the top of the water column.

[3] - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When th

[4] - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screer

a - Reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.

b - Reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

B - Analyte detected in associated method blank

c - Extraction and analysis of another bottle collected from the same location during the same sampling event had no detections of PAHs. Therefore, detections of PAHs in this sample were not confirmed

d - The concentration of diethylphthalate reported in this sample is similar to concentrations detected in laboratory method blanks analyzed during the same general time period. The result is suspected to b

D - Limit of Quatitation (LOQ) increased due to sample matrix

J - estimated value

U - nondetect value

ID - identification

O - Diluted out

-O - The oil range hydrocarbons (SGT-C24-C40) result is not available as the analyte was diluted out due to the high concentration of DRO range analytes present in the sample

T - Analyte detected in the associated trip blank

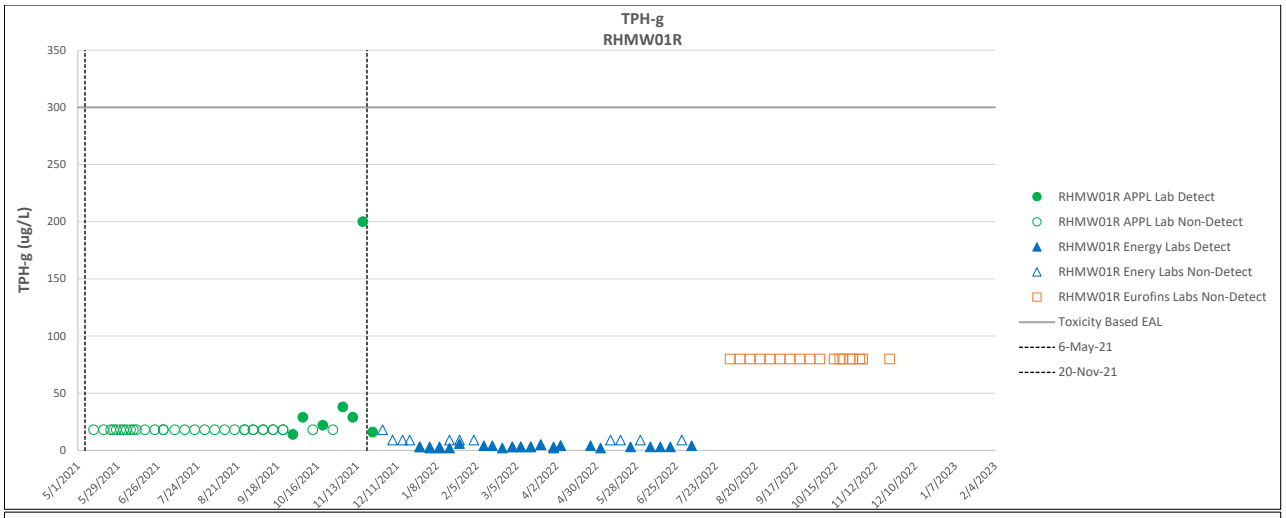
TPH-g - total petroleum hydrocarbons gasoline

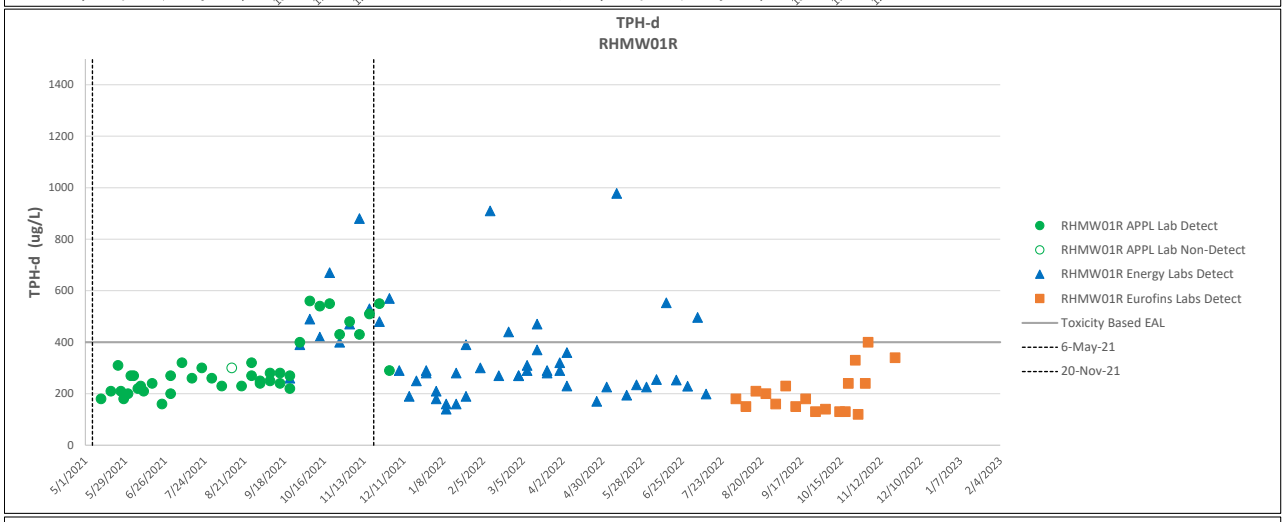
TPH-d - total petroleum hydrocarbons diesel (JP-5)

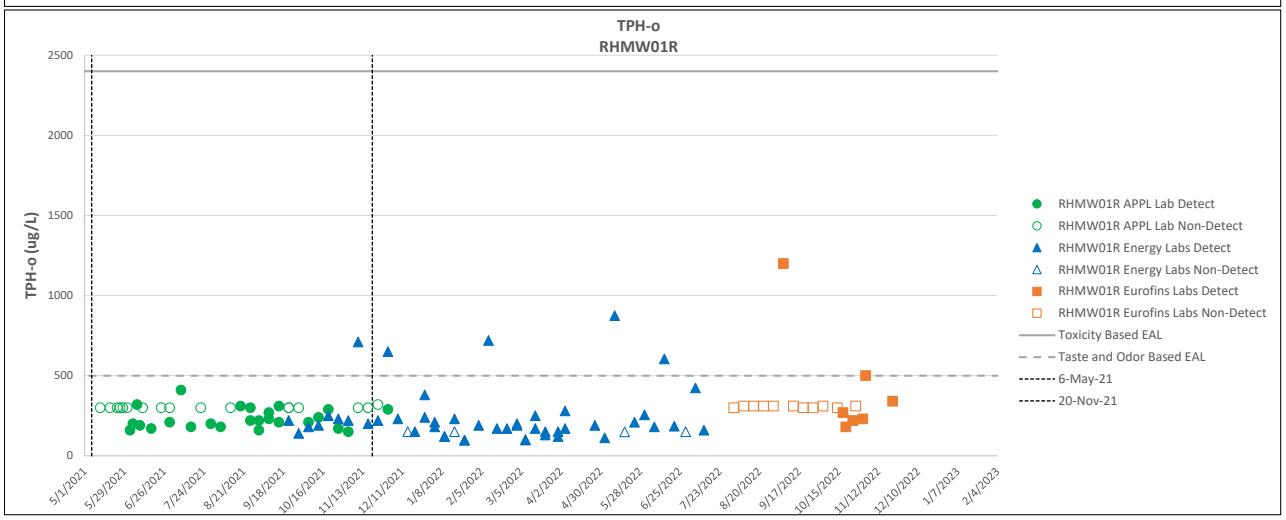
TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Appendix B.4.5 – TPH Charts

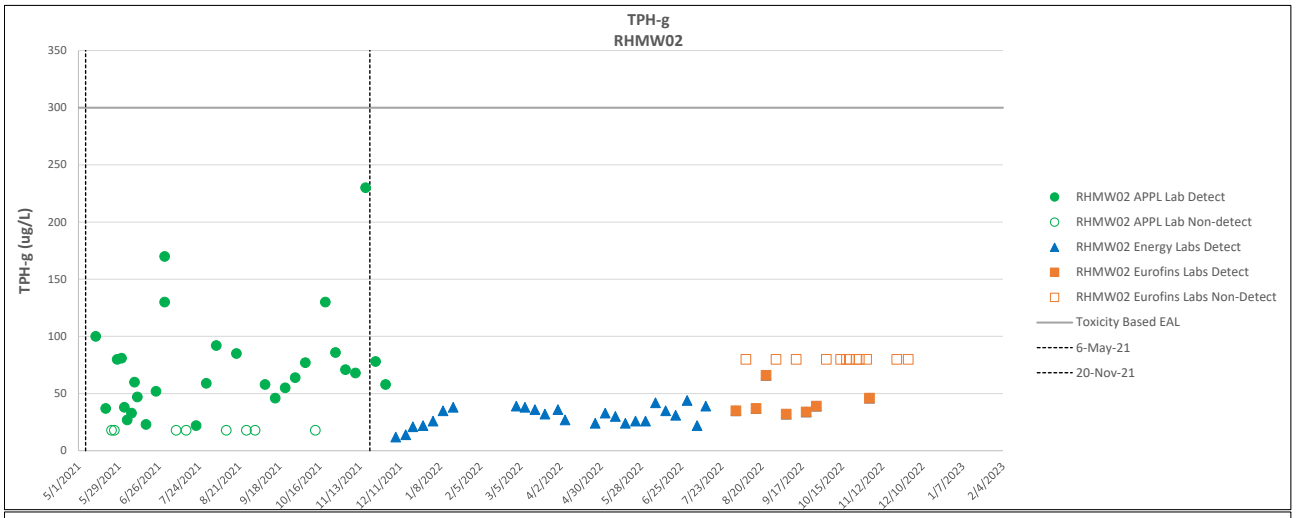


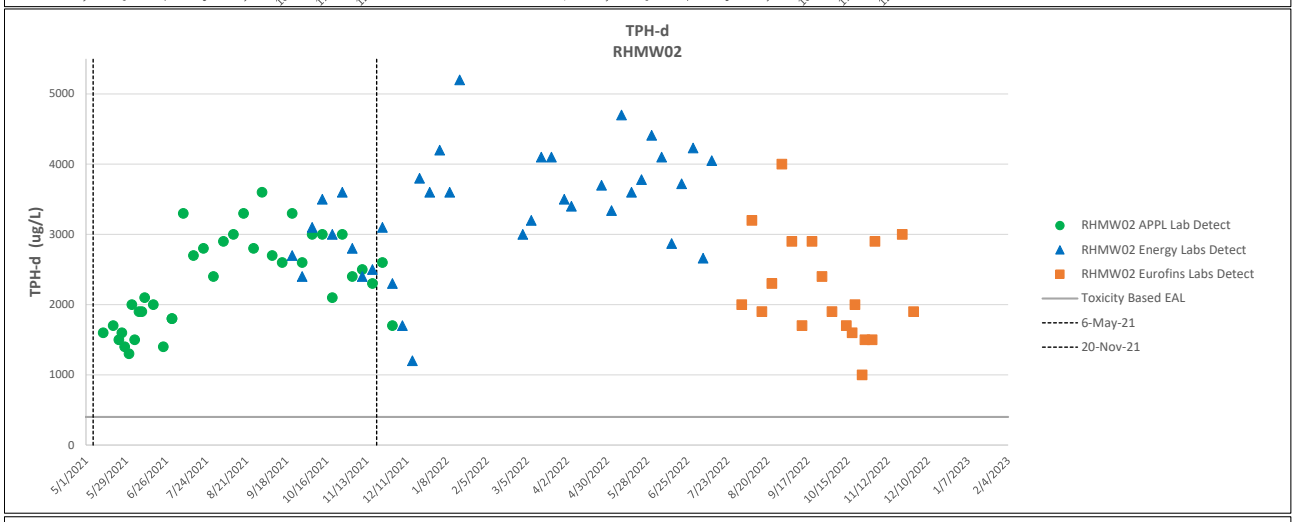


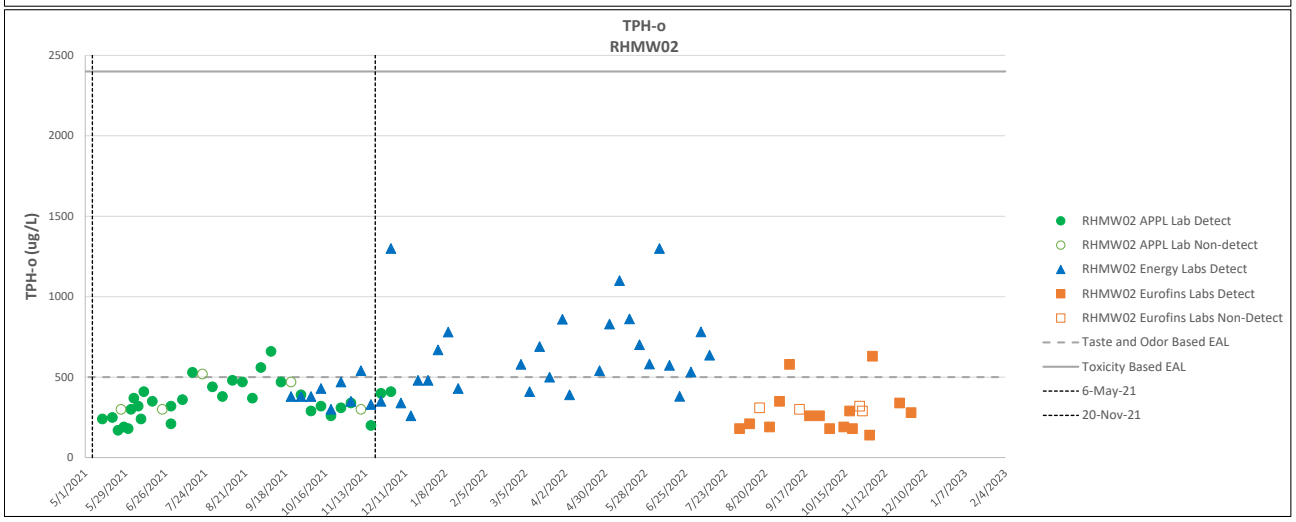


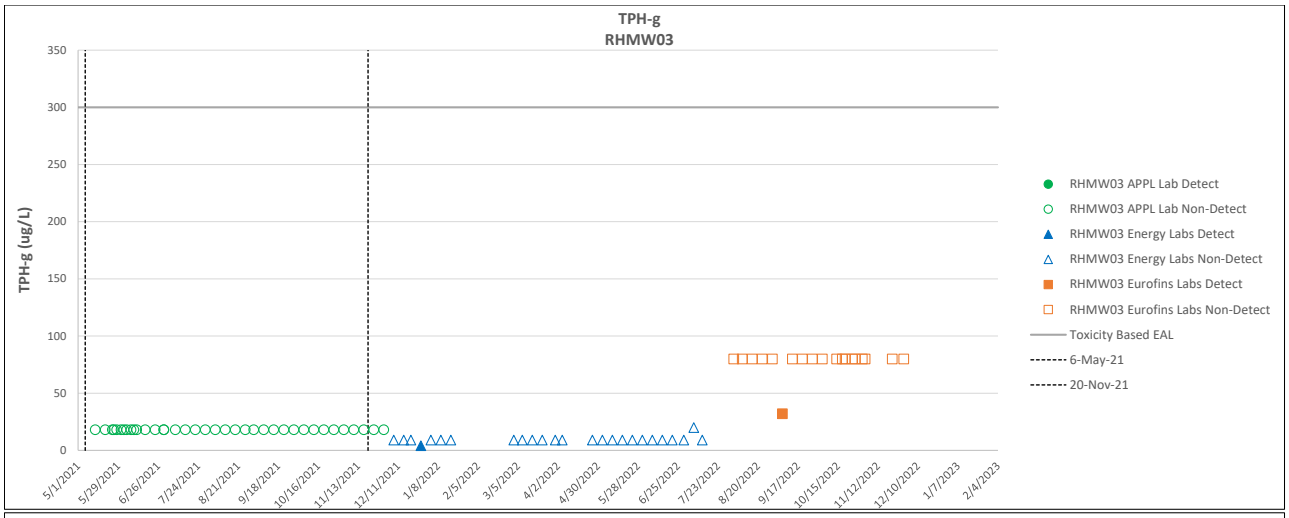
Notes:

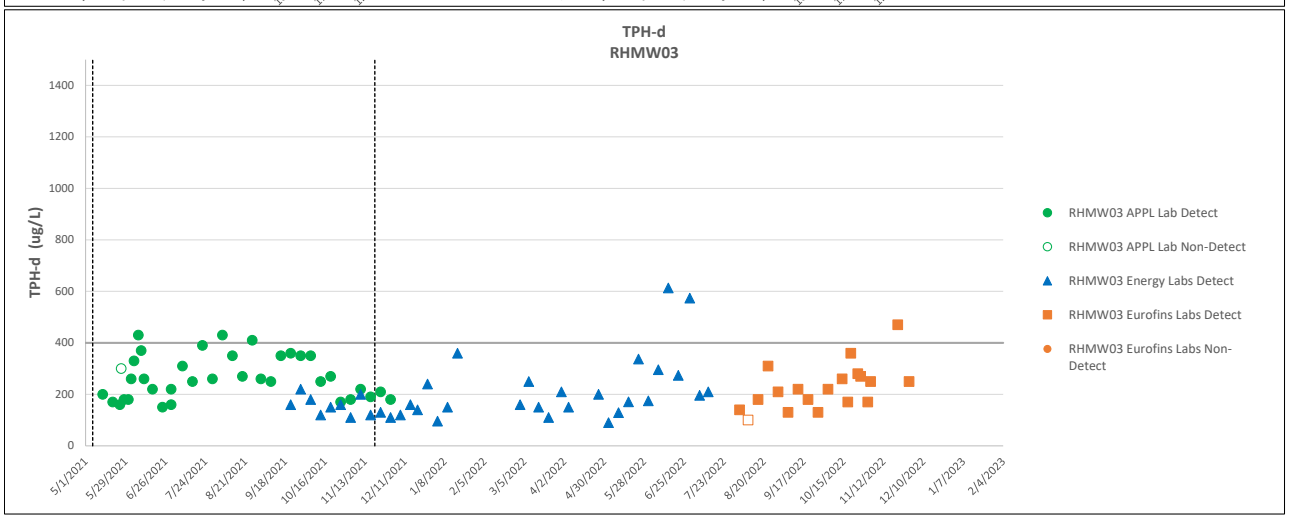
[1] Sample collected on 12/20/2021 was reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.


TPH-g
RHMW02
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW02
TPH-d (ug/L)
5000
4000
3000
2000
1000
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW02 APPL Lab Detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW02
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW02 APPL Lab Detect
RHMW02 APPL Lab Non-detect
RHMW02 Energy Labs Detect
RHMW02 Eurofins Labs Detect
RHMW02 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW03
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Energy Labs Non-Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW03
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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7/24/2021
8/21/2021
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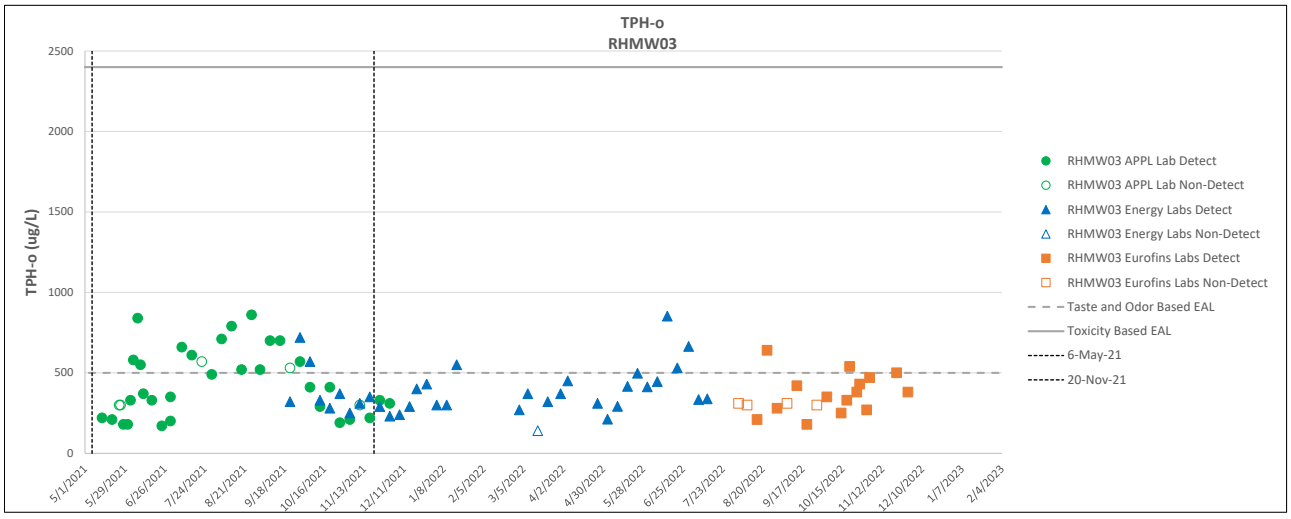
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect


TPH-o
RHMW03
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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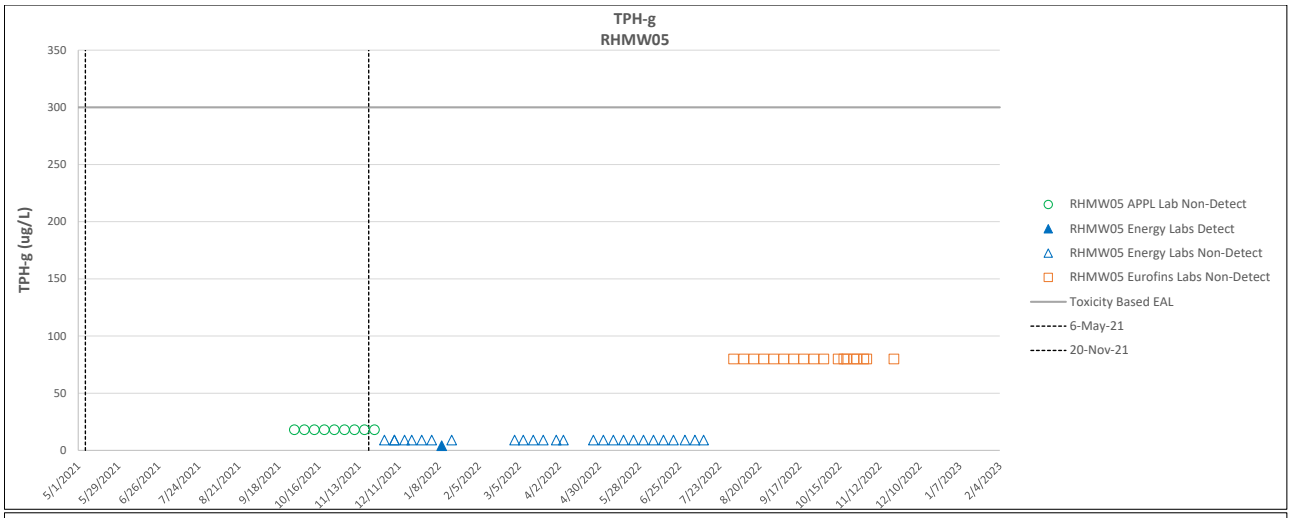
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW03 APPL Lab Detect
RHMW03 APPL Lab Non-Detect
RHMW03 Energy Labs Detect
RHMW03 Energy Labs Non-Detect
RHMW03 Eurofins Labs Detect
RHMW03 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW05
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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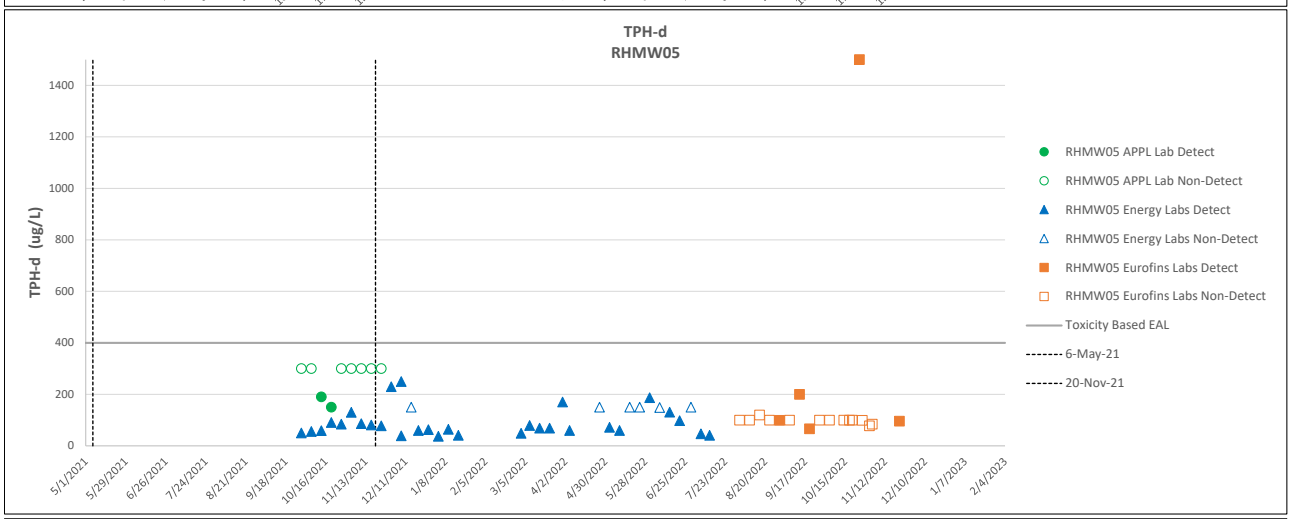
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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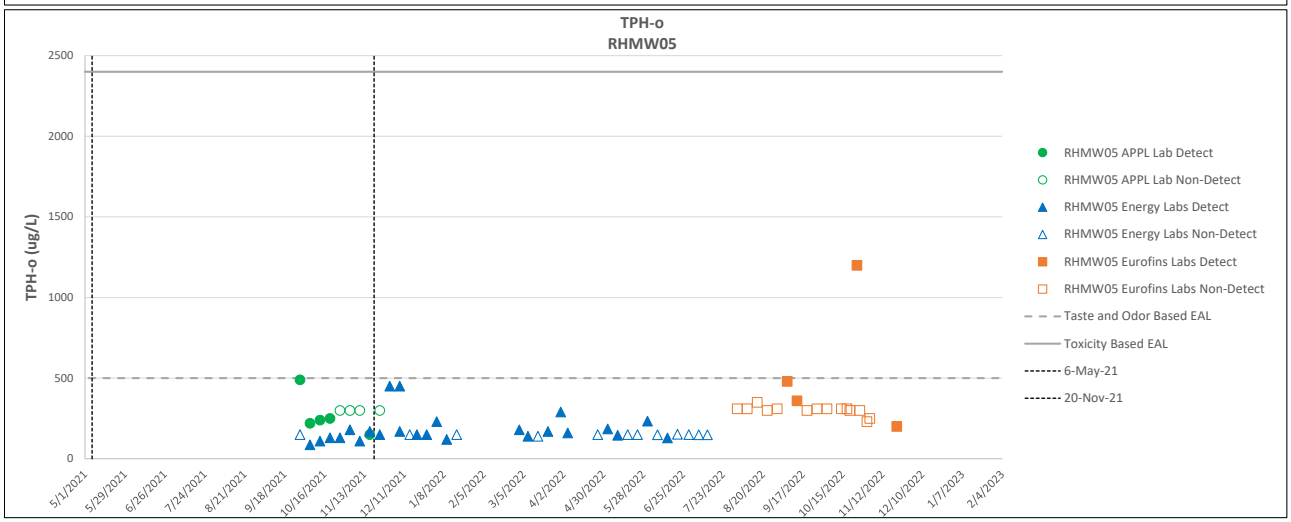
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW05
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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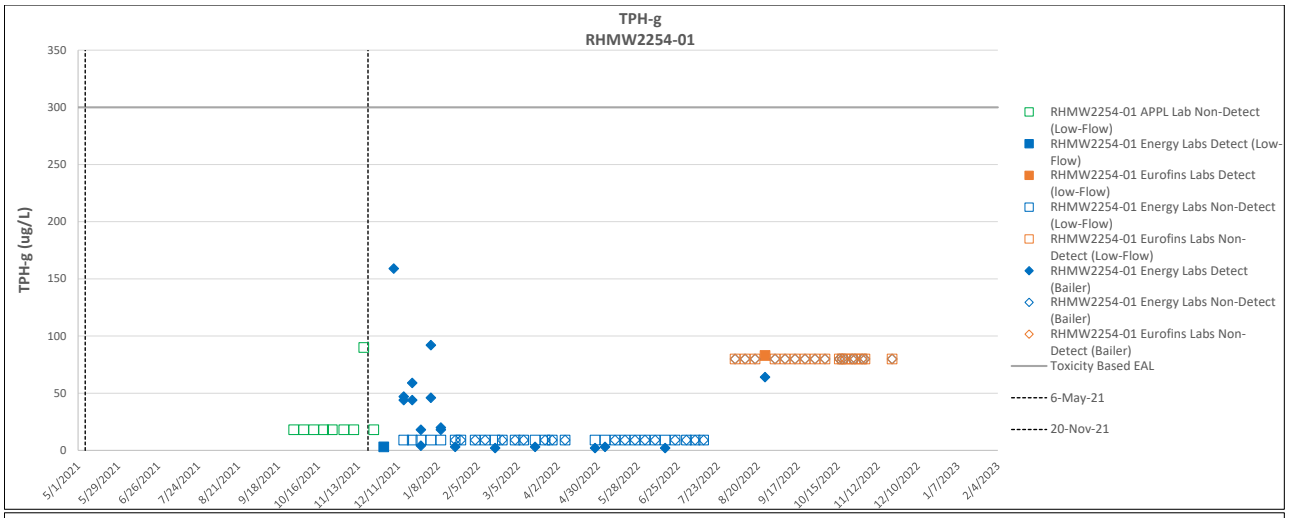
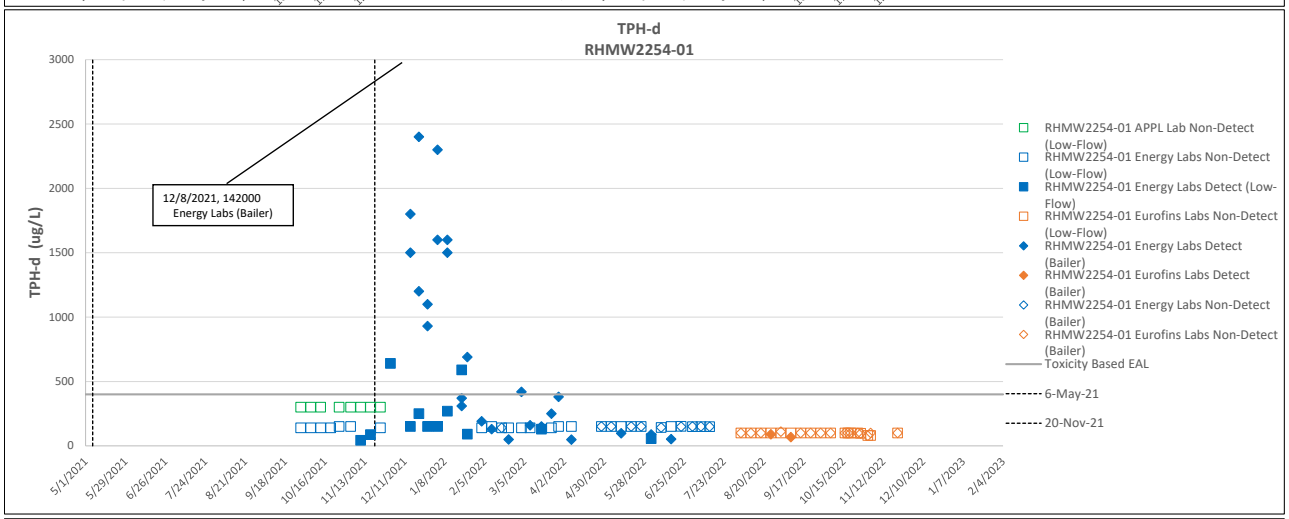
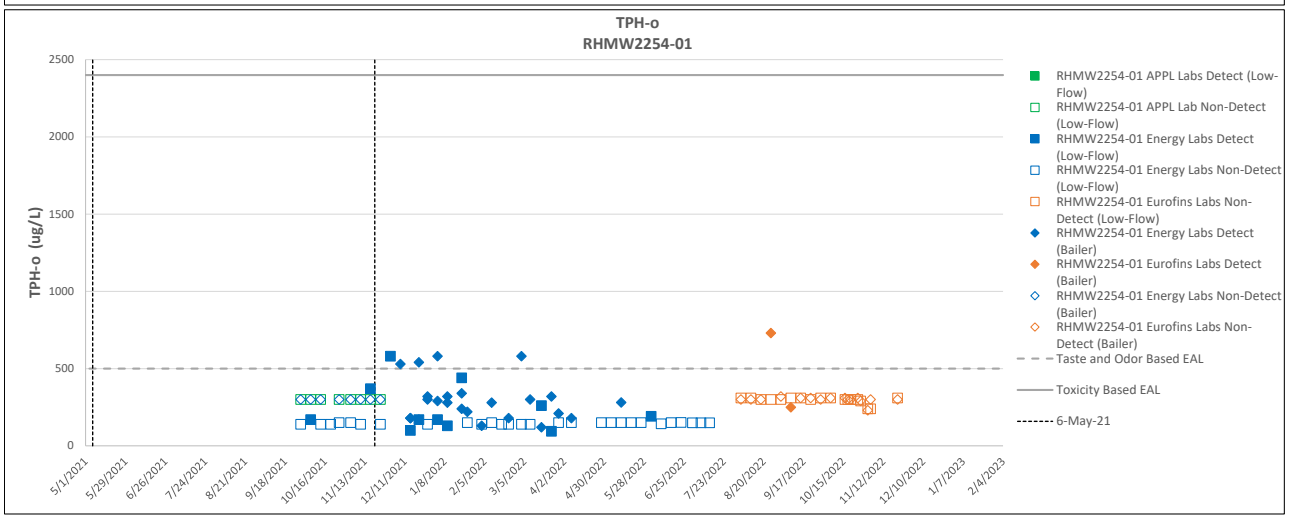
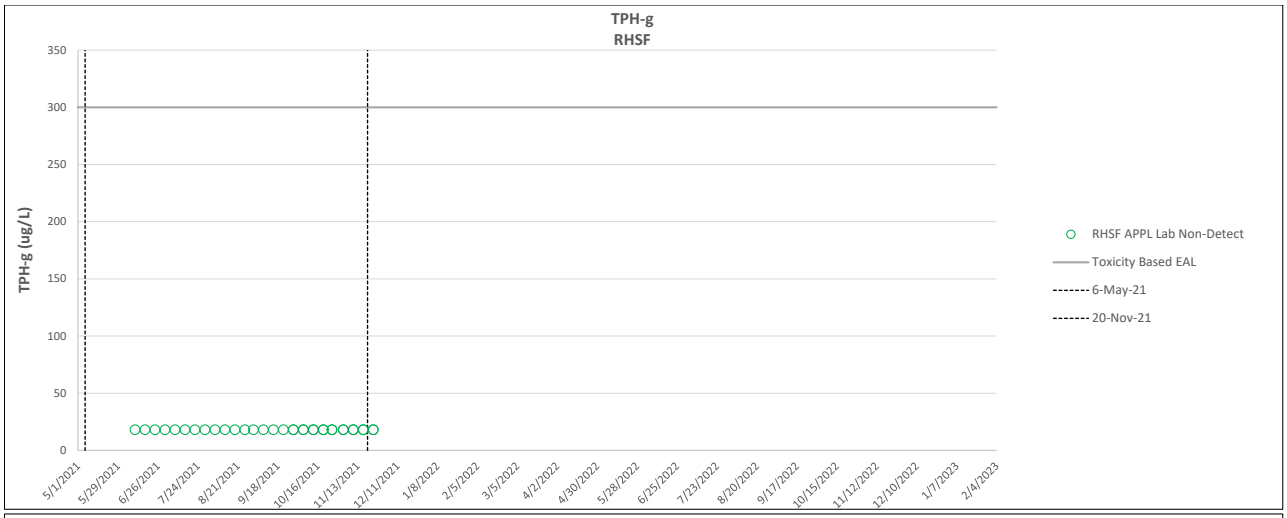
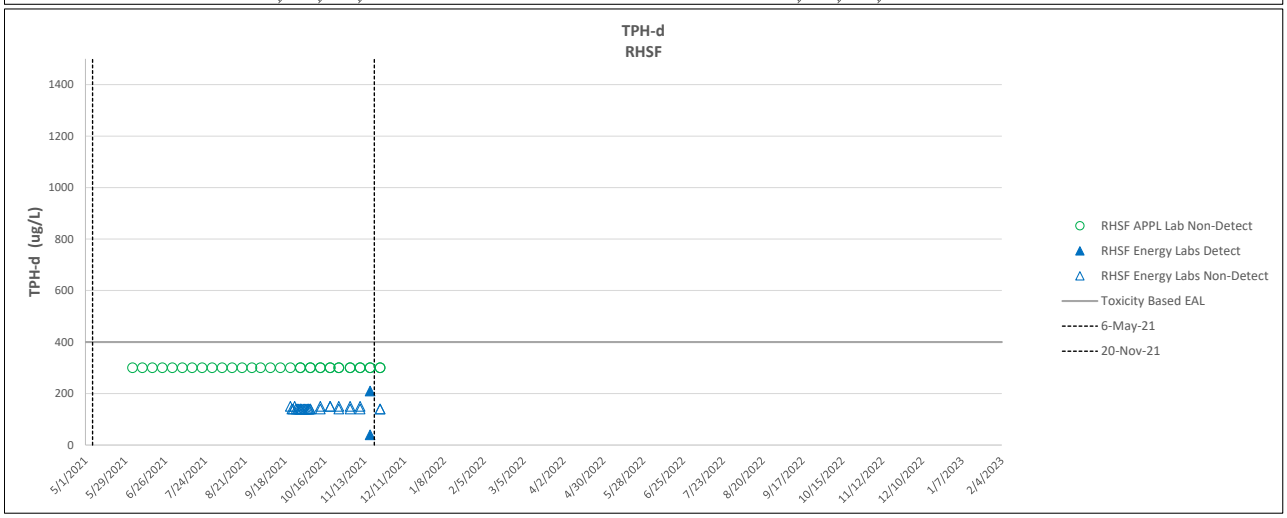
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW05 APPL Lab Detect
RHMW05 APPL Lab Non-Detect
RHMW05 Energy Labs Detect
RHMW05 Energy Labs Non-Detect
RHMW05 Eurofins Labs Detect
RHMW05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

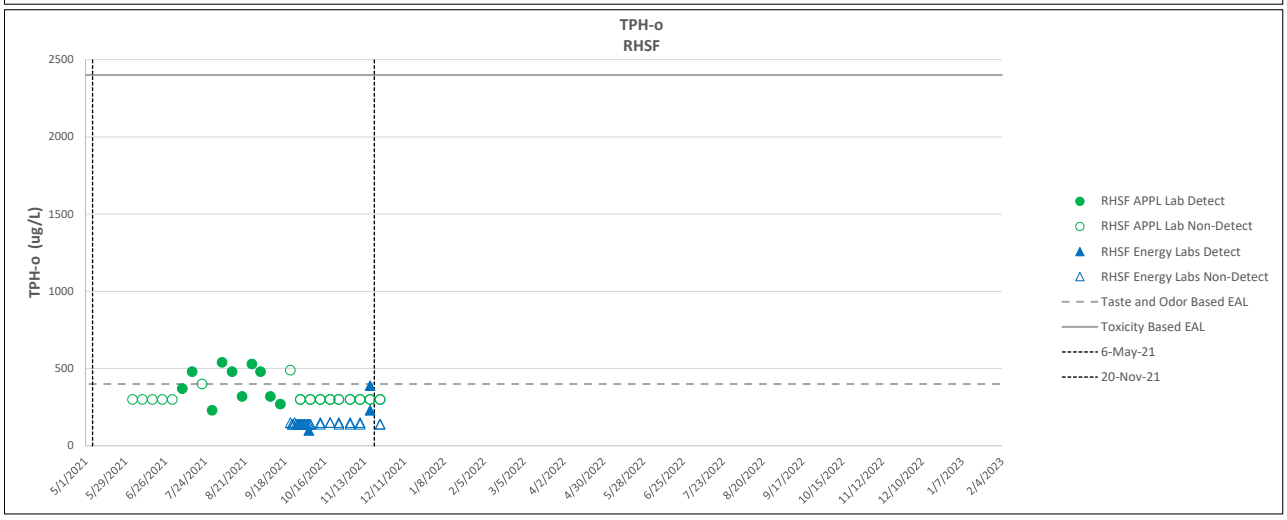

TPH-g
RHMW2254-01
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Detect (low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21

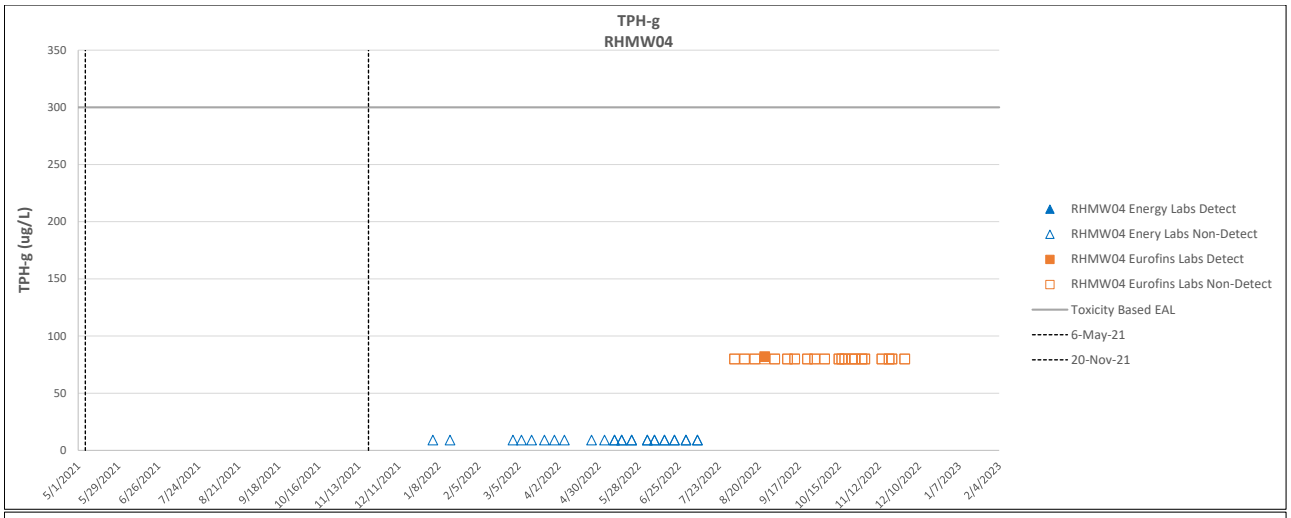

TPH-d
RHMW2254-01
TPH-d (ug/L)
3000
2500
2000
1500
1000
500
0
12/8/2021, 142000
Energy Labs (Bailer)
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Eurofins Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW2254-01
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW2254-01 APPL Labs Detect (Low-Flow)
RHMW2254-01 APPL Lab Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Low-Flow)
RHMW2254-01 Energy Labs Non-Detect (Low-Flow)
RHMW2254-01 Eurofins Labs Non-Detect (Low-Flow)
RHMW2254-01 Energy Labs Detect (Bailer)
RHMW2254-01 Eurofins Labs Detect (Bailer)
RHMW2254-01 Energy Labs Non-Detect (Bailer)
RHMW2254-01 Eurofins Labs Non-Detect (Bailer)
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21


TPH-g
RHSF
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHSF APPL Lab Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHSF
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHSF APPL Lab Non-Detect
RHSF Energy Labs Detect
RHSF Energy Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHSF
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHSF APPL Lab Detect
RHSF APPL Lab Non-Detect
RHSF Energy Labs Detect
RHSF Energy Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW04
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
5/29/2021
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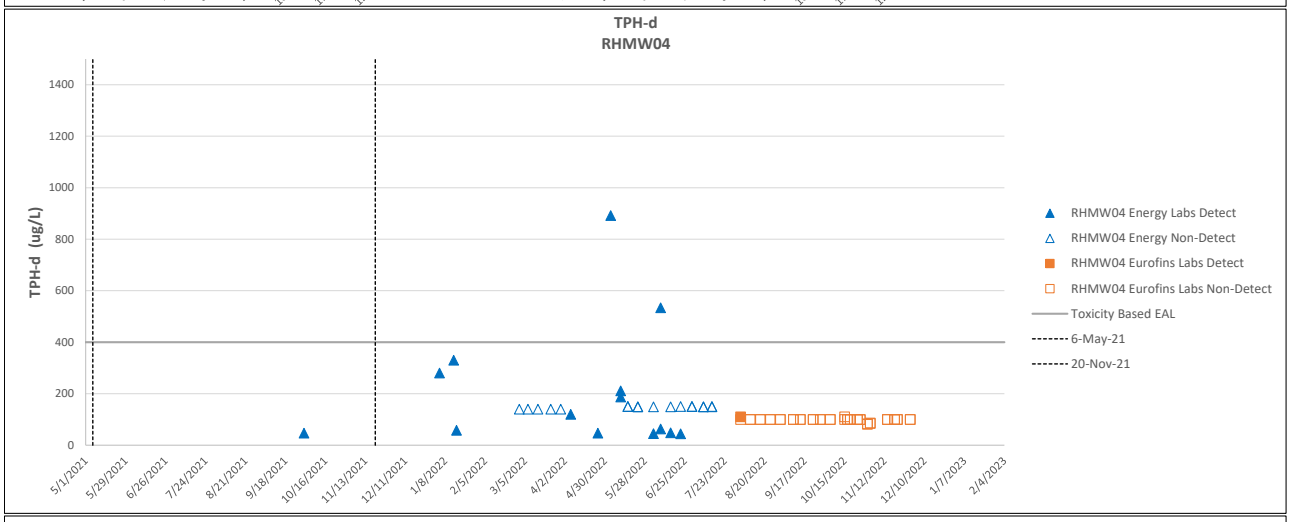
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW04 Energy Labs Detect
RHMW04 Enery Labs Non-Detect
RHMW04 Eurofins Labs Detect
RHMW04 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW04
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
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1/8/2022
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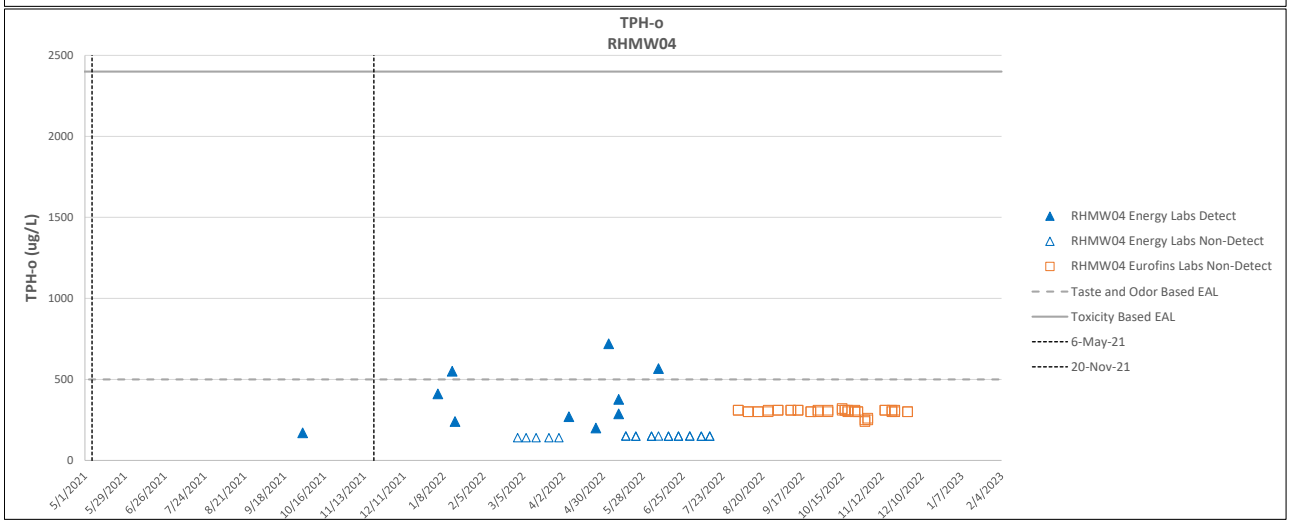
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW04 Energy Labs Detect
RHMW04 Energy Non-Detect
RHMW04 Eurofins Labs Detect
RHMW04 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW04
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
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12/11/2021
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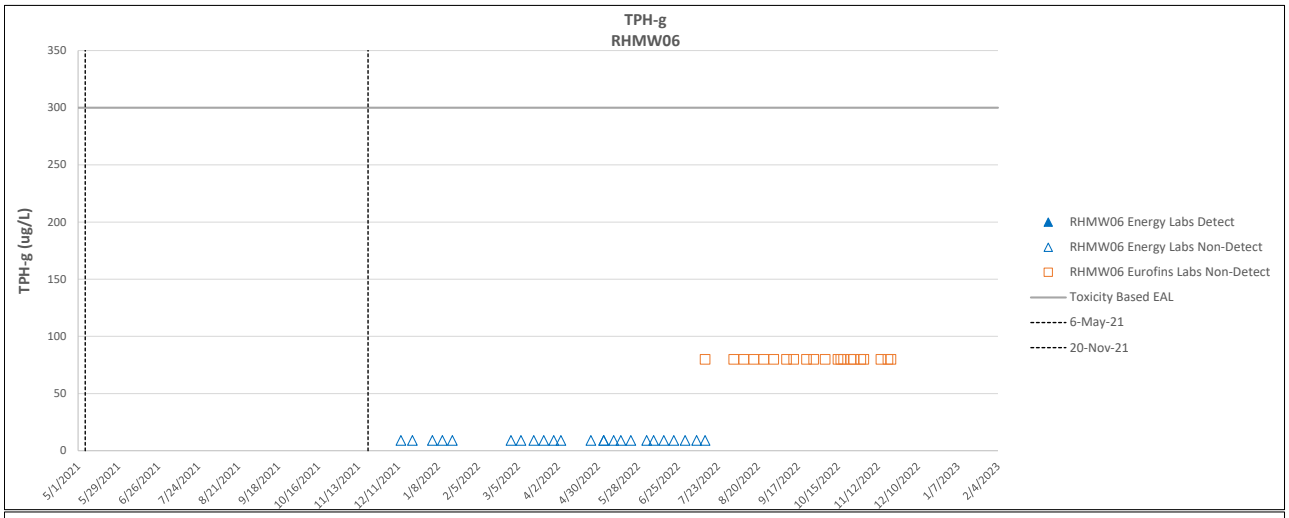
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW04 Energy Labs Detect
RHMW04 Energy Labs Non-Detect
RHMW04 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW06
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
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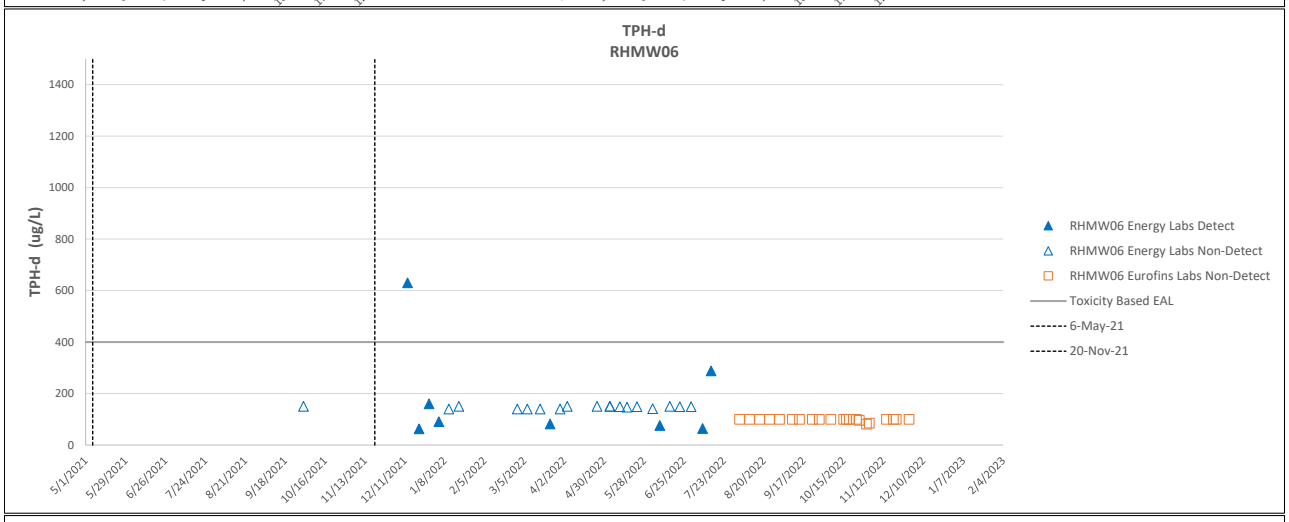
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW06
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
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4/30/2022
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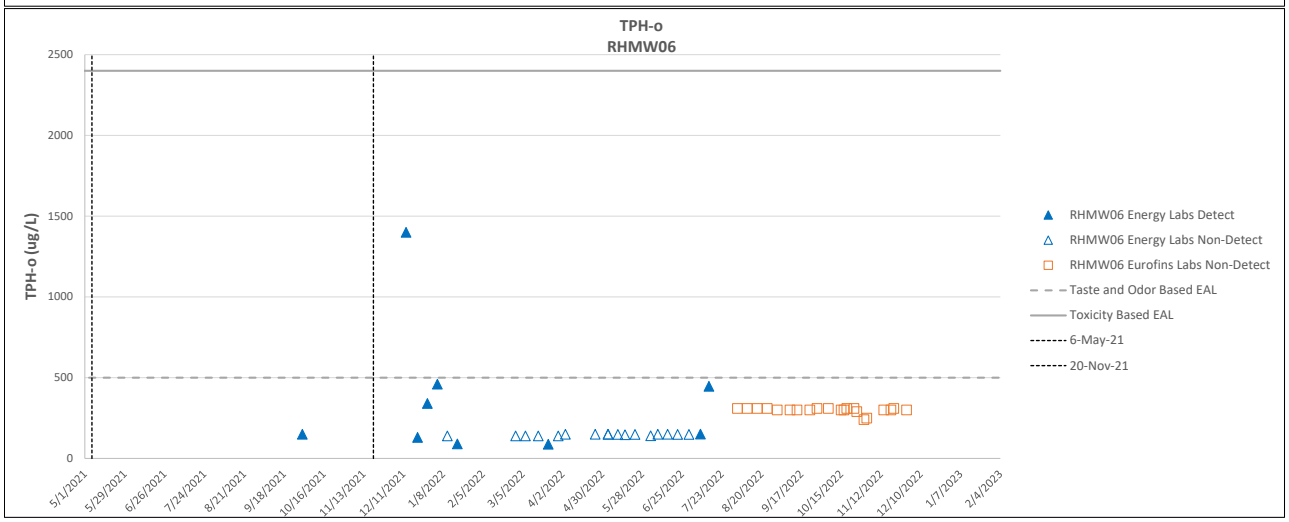
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW06
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
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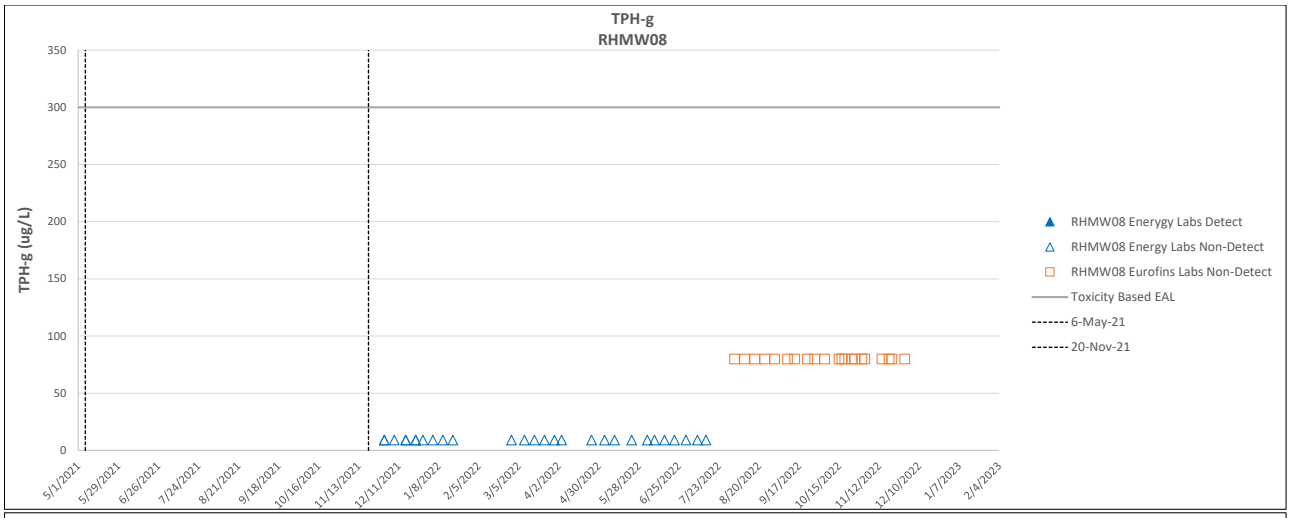
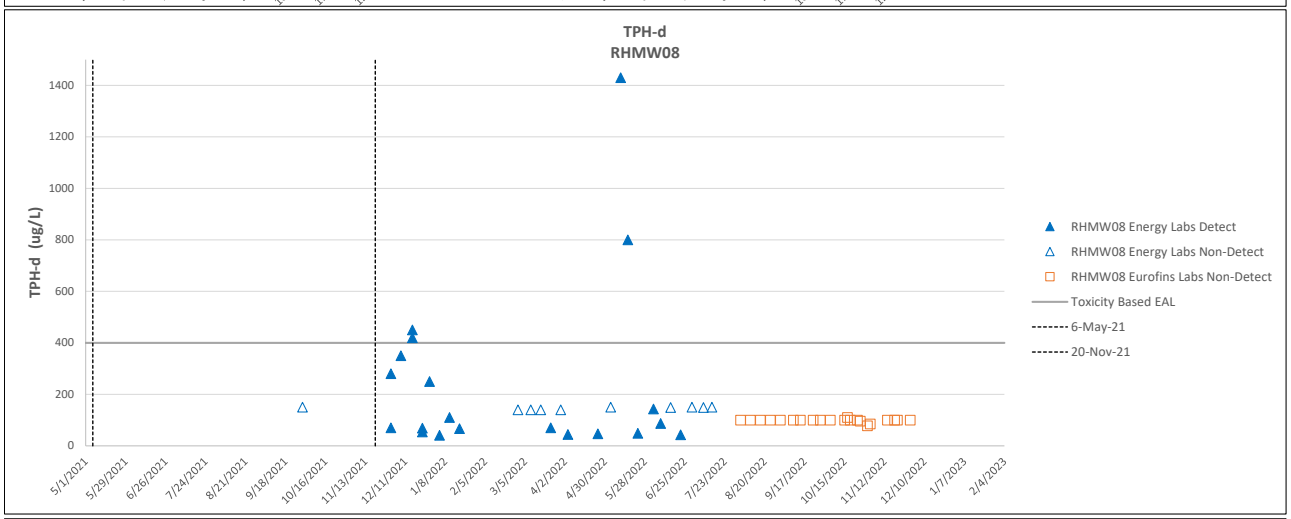
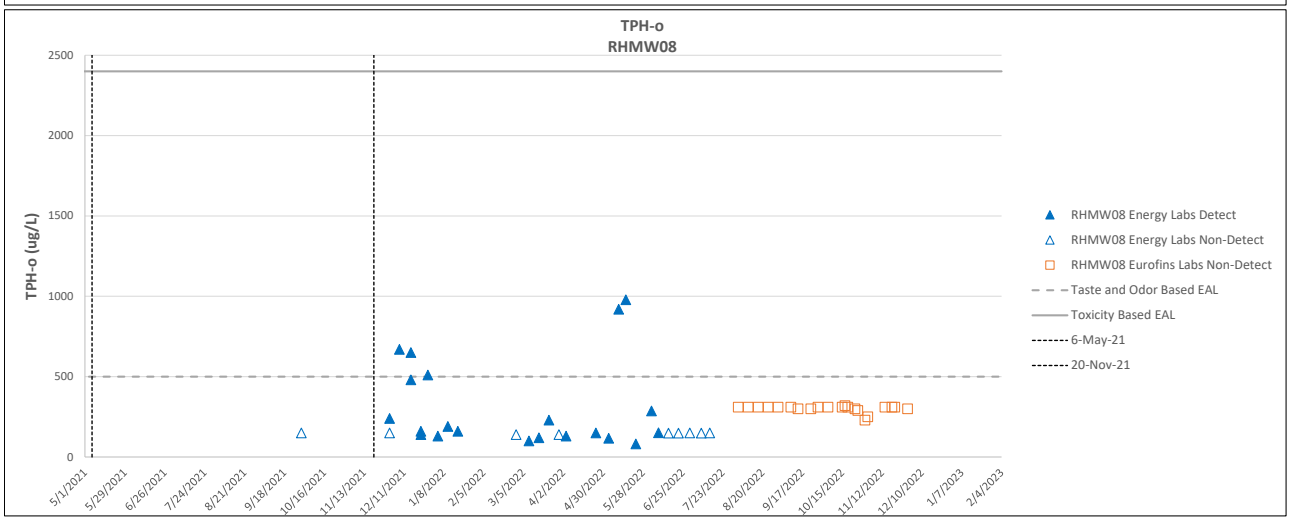
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW06 Energy Labs Detect
RHMW06 Energy Labs Non-Detect
RHMW06 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

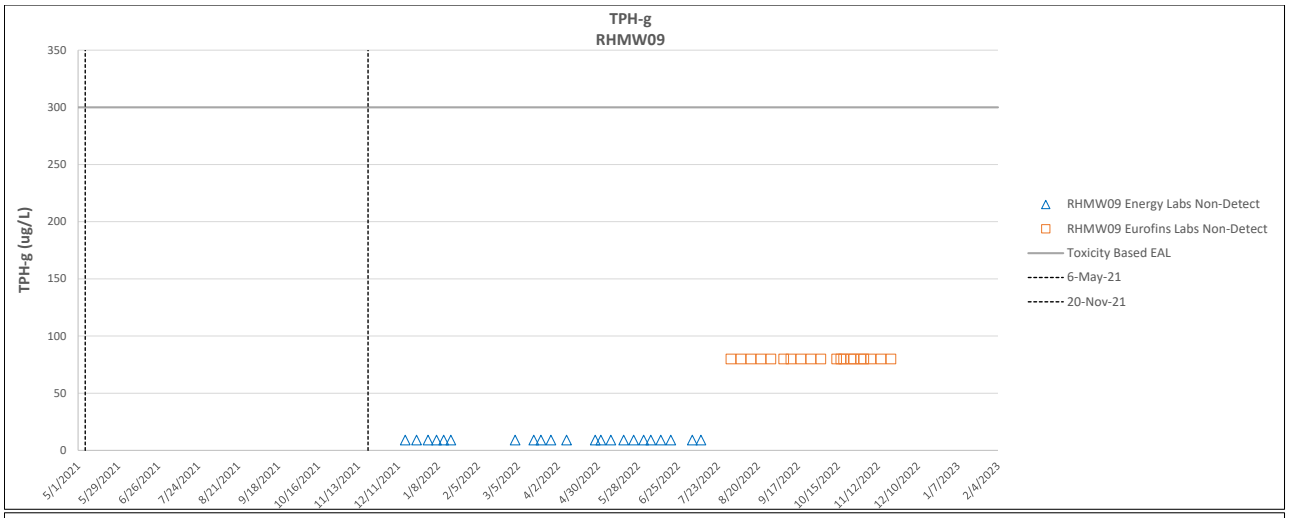


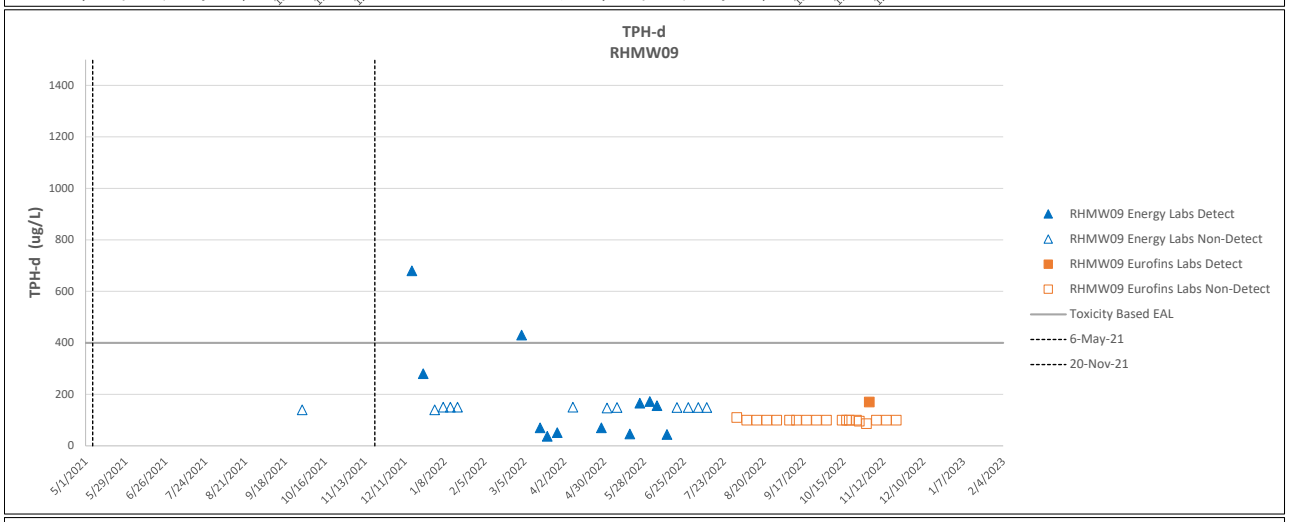




Notes:

[1] Sample collected 12/1/2021 was reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.


TPH-g
RHMW09
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW09
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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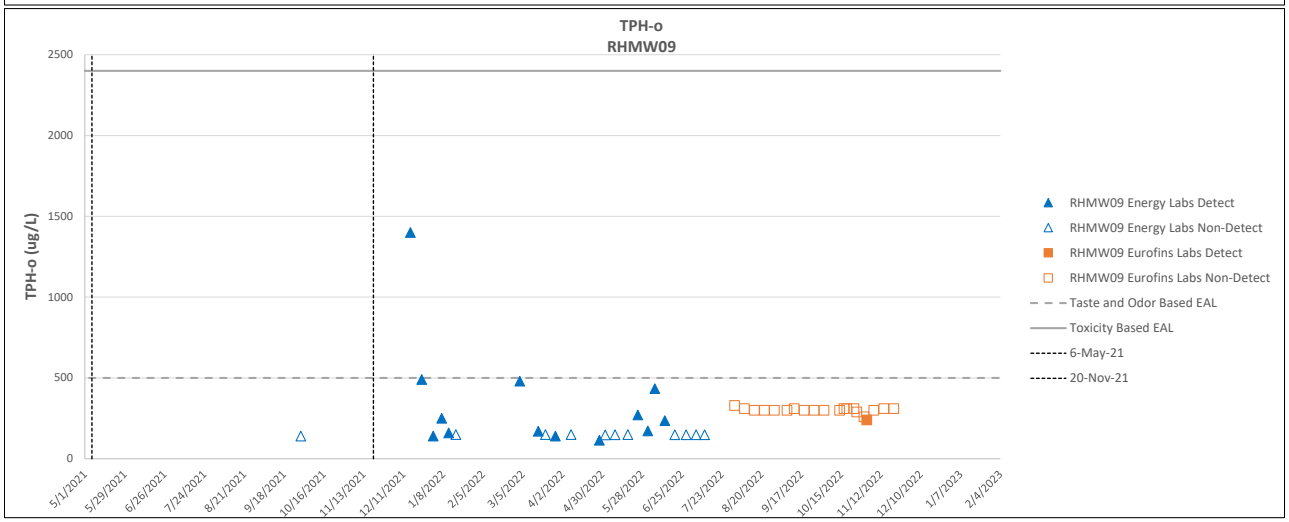
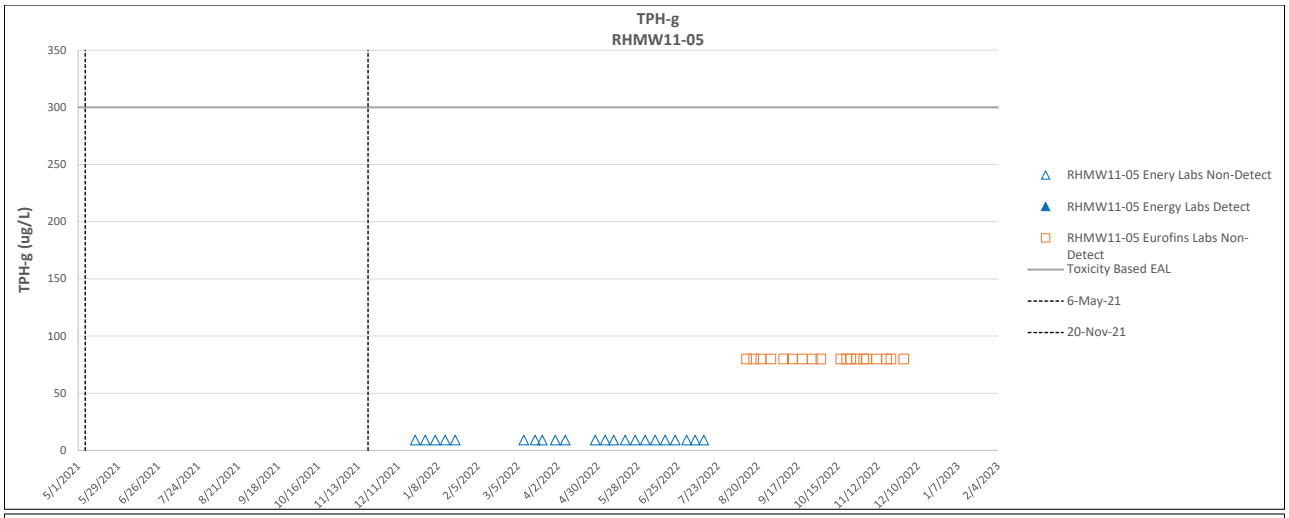
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Detect
RHMW09 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW09
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW09 Energy Labs Detect
RHMW09 Energy Labs Non-Detect
RHMW09 Eurofins Labs Detect
RHMW09 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW11-05
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
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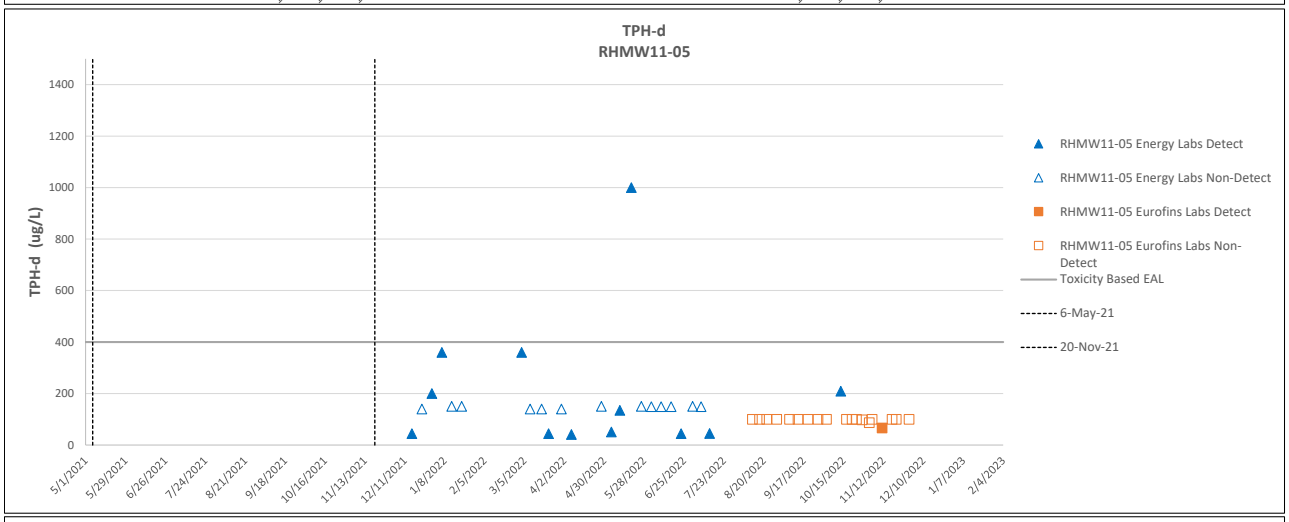
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW11-05 Enery Labs Non-Detect
RHMW11-05 Energy Labs Detect
RHMW11-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW11-05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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6/26/2021
7/24/2021
8/21/2021
9/18/2021
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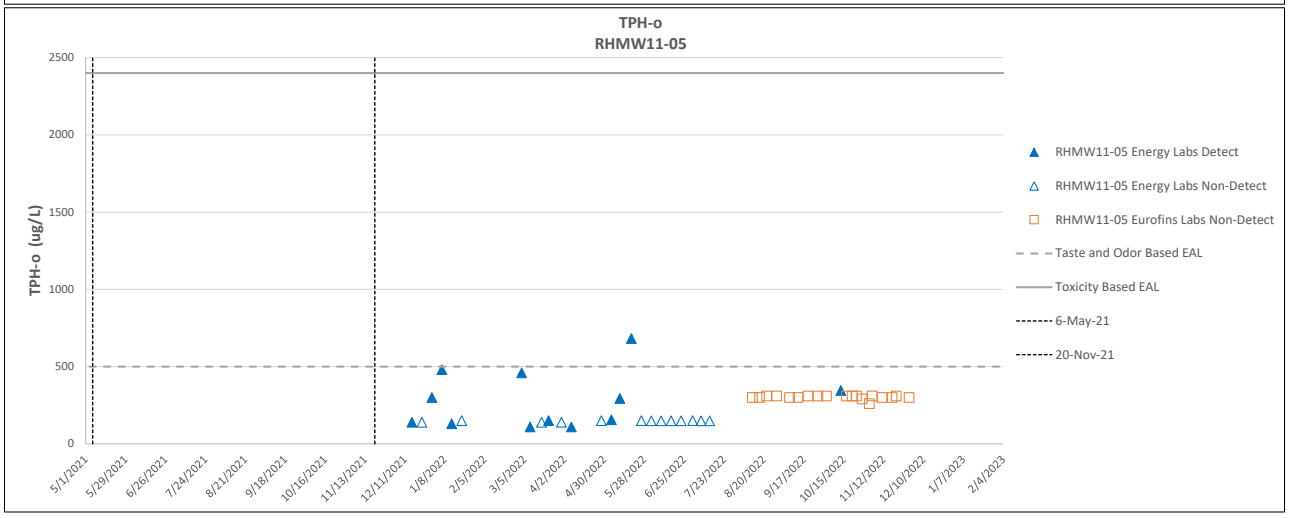
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Detect
RHMW11-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW11-05
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
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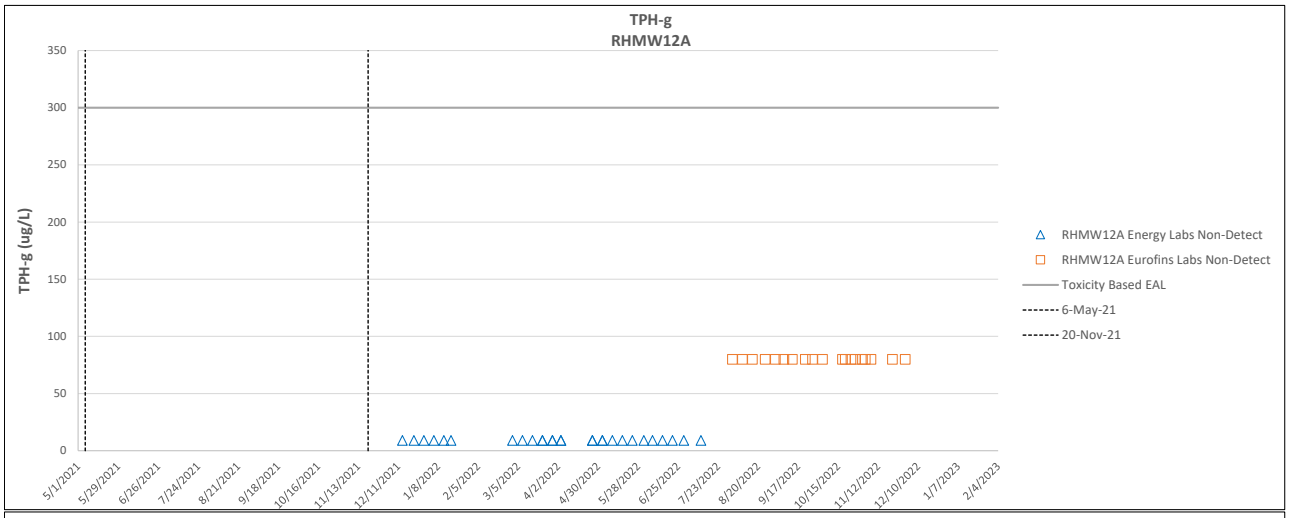
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW11-05 Energy Labs Detect
RHMW11-05 Energy Labs Non-Detect
RHMW11-05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW12A
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
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8/21/2021
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11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
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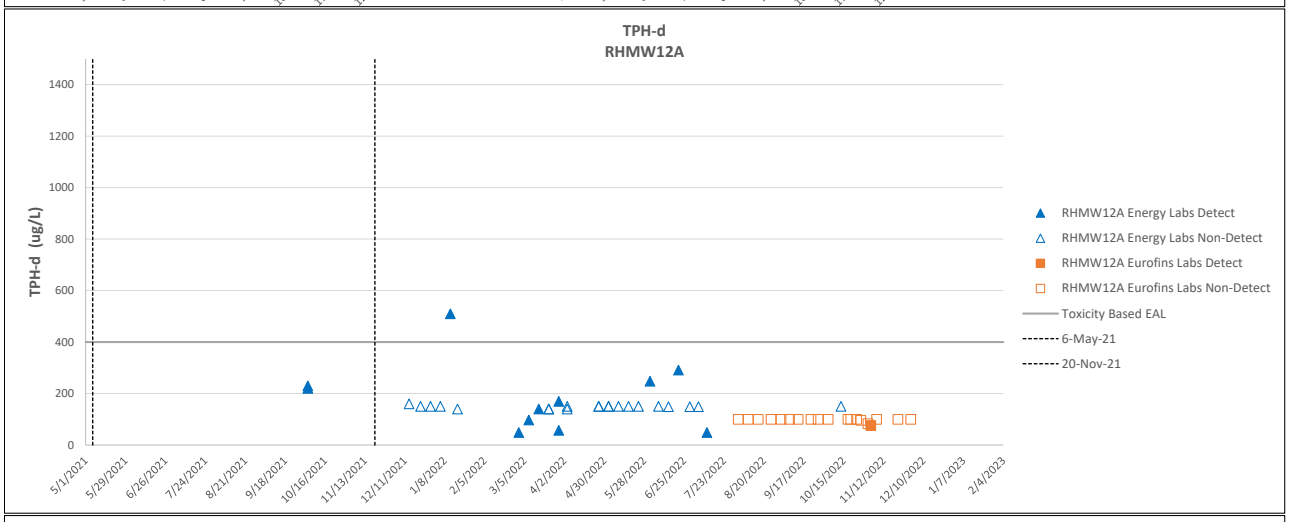
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW12A
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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8/21/2021
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7/23/2022
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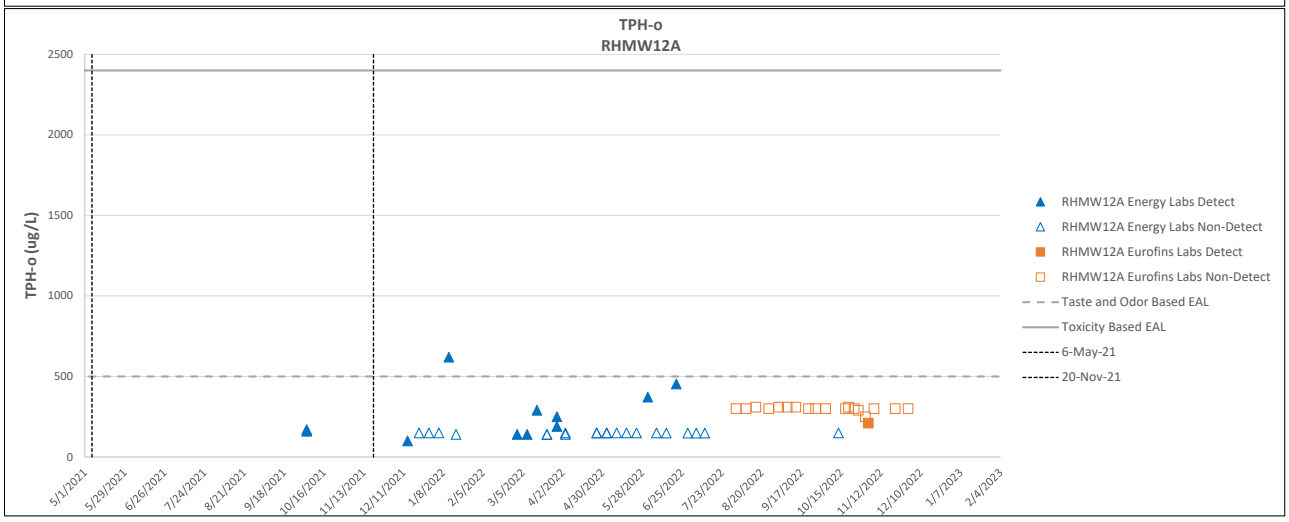
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Detect
RHMW12A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW12A
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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7/24/2021
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9/18/2021
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11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
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5/28/2022
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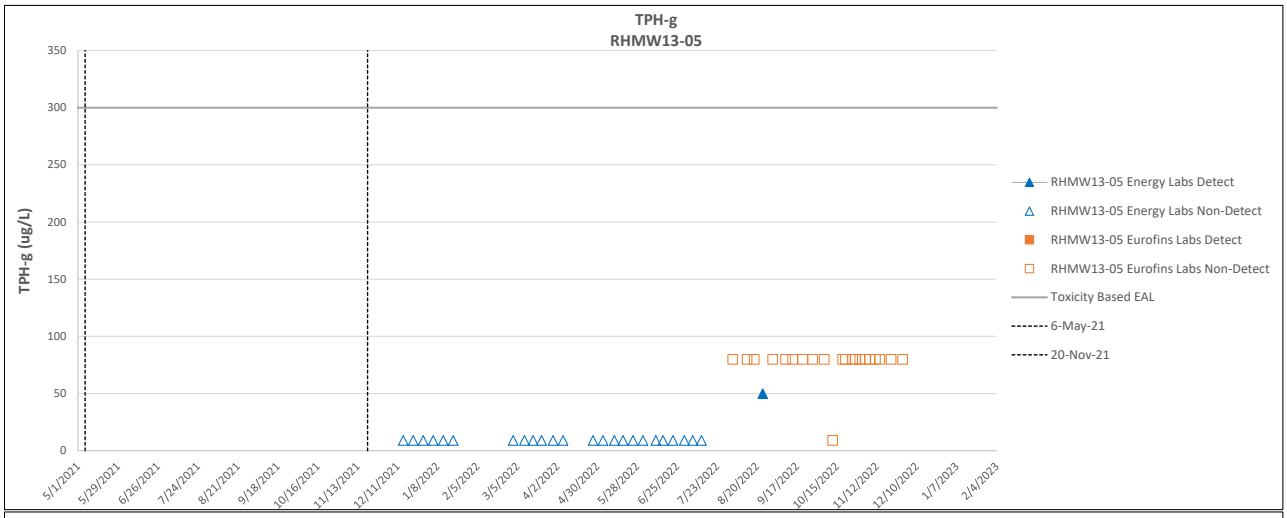
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW12A Energy Labs Detect
RHMW12A Energy Labs Non-Detect
RHMW12A Eurofins Labs Detect
RHMW12A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW13-05
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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6/26/2021
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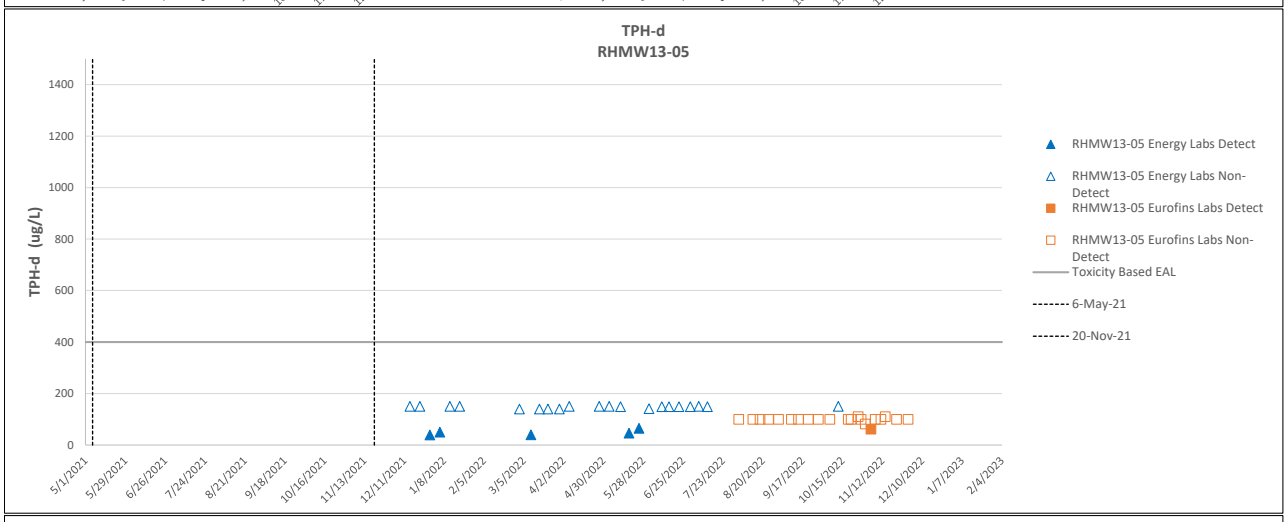
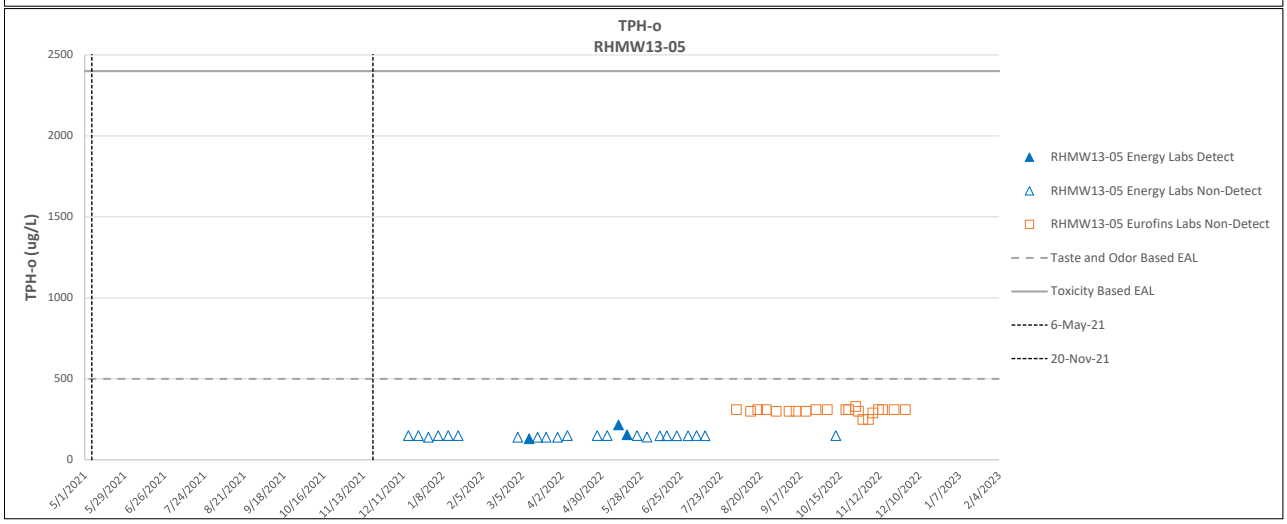
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW13-05 Energy Labs Detect
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Detect
RHMW13-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW13-05
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
4/30/2022
5/28/2022
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW13-05 Energy Labs Detect
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Detect
RHMW13-05 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW13-05
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
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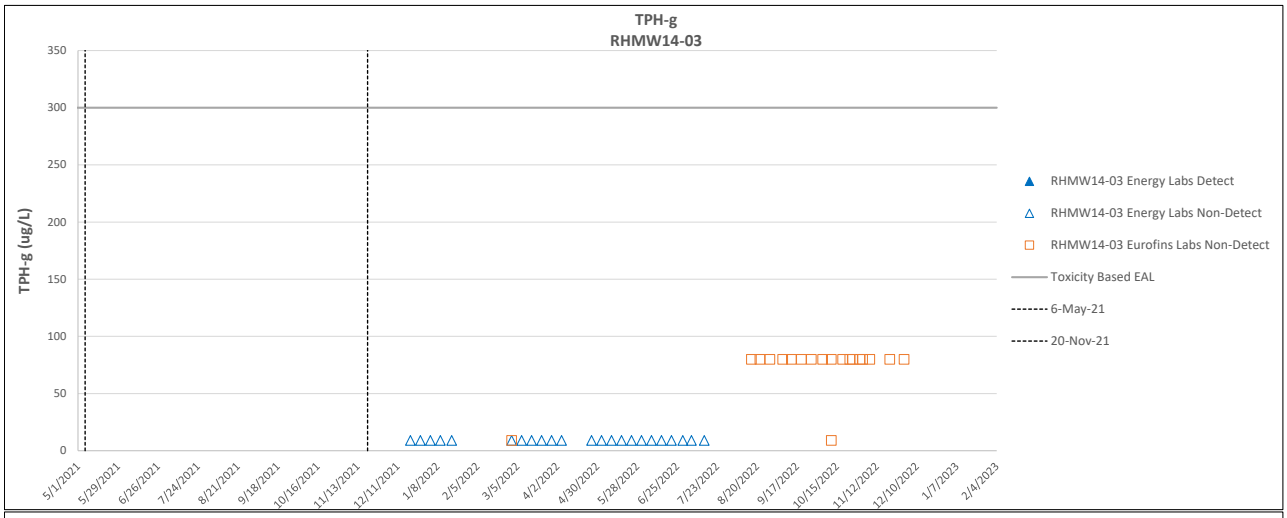
6/25/2022
7/23/2022
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW13-05 Energy Labs Detect
RHMW13-05 Energy Labs Non-Detect
RHMW13-05 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-g
RHMW14-03
TPH-g (ug/L)
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300
250
200
150
100
50
0
5/1/2021
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8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
1/8/2022
2/5/2022
3/5/2022
4/2/2022
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7/23/2022
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10/15/2022
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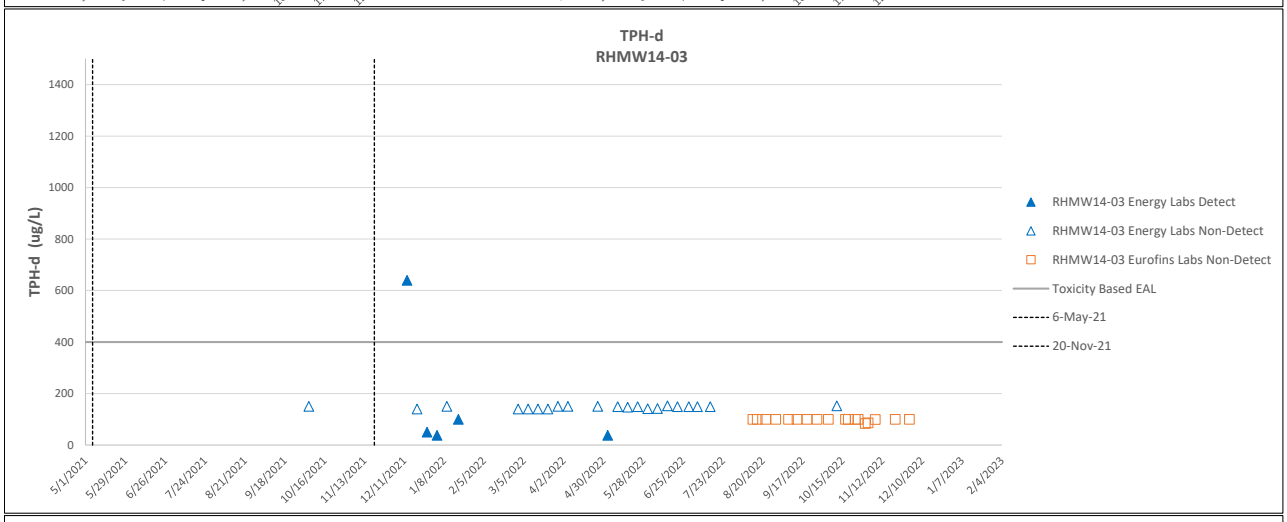
12/10/2022
1/7/2023
2/4/2023
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-d
RHMW14-03
TPH-d (ug/L)
1400
1200
1000
800
600
400
200
0
5/1/2021
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6/26/2021
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8/21/2021
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1/8/2022
2/5/2022
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7/23/2022
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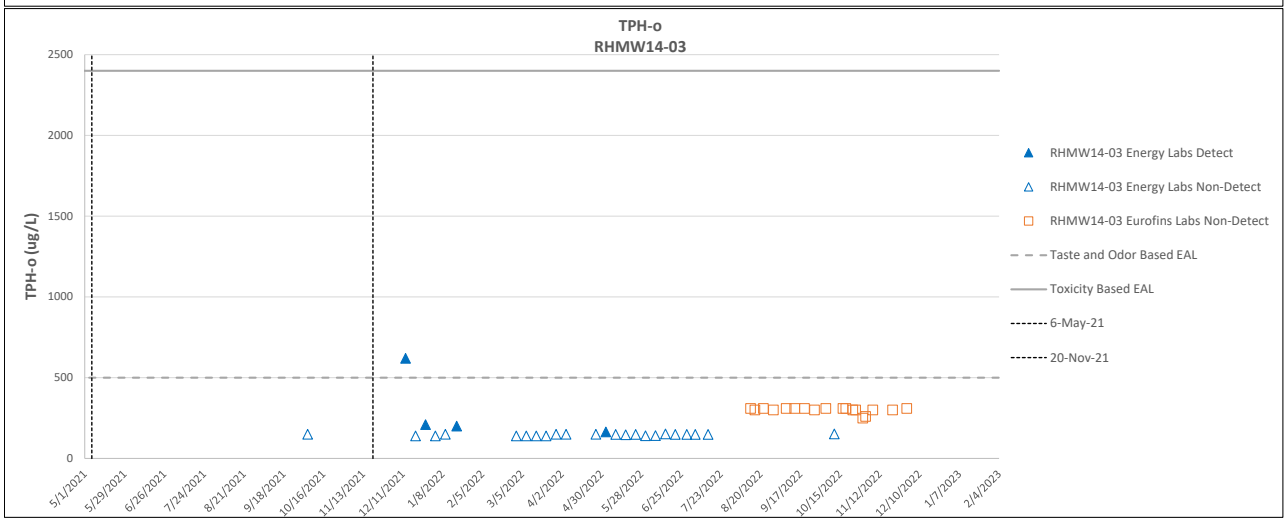
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
RHMW14-03
TPH-o (ug/L)
2500
2000
1500
1000
500
0
5/1/2021
5/29/2021
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9/18/2021
10/16/2021
11/13/2021
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1/8/2022
2/5/2022
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4/2/2022
4/30/2022
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6/25/2022
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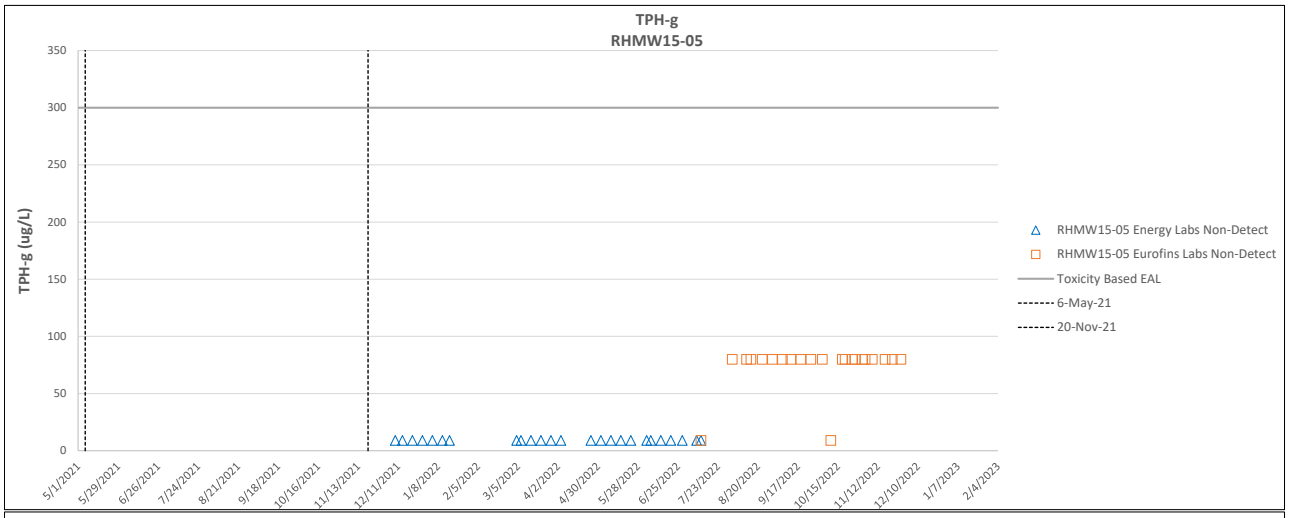
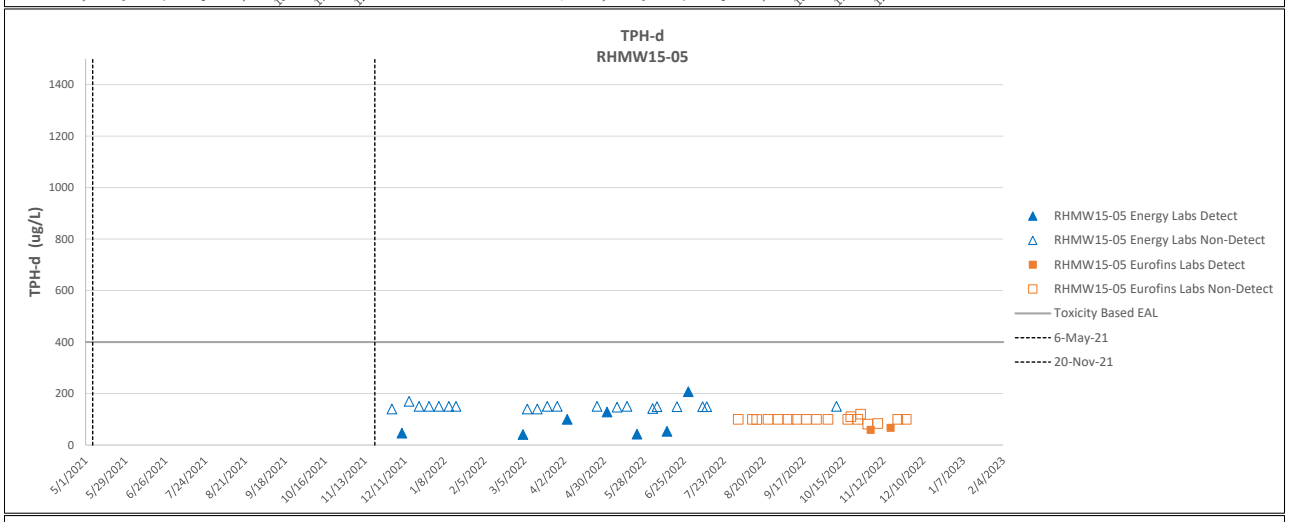
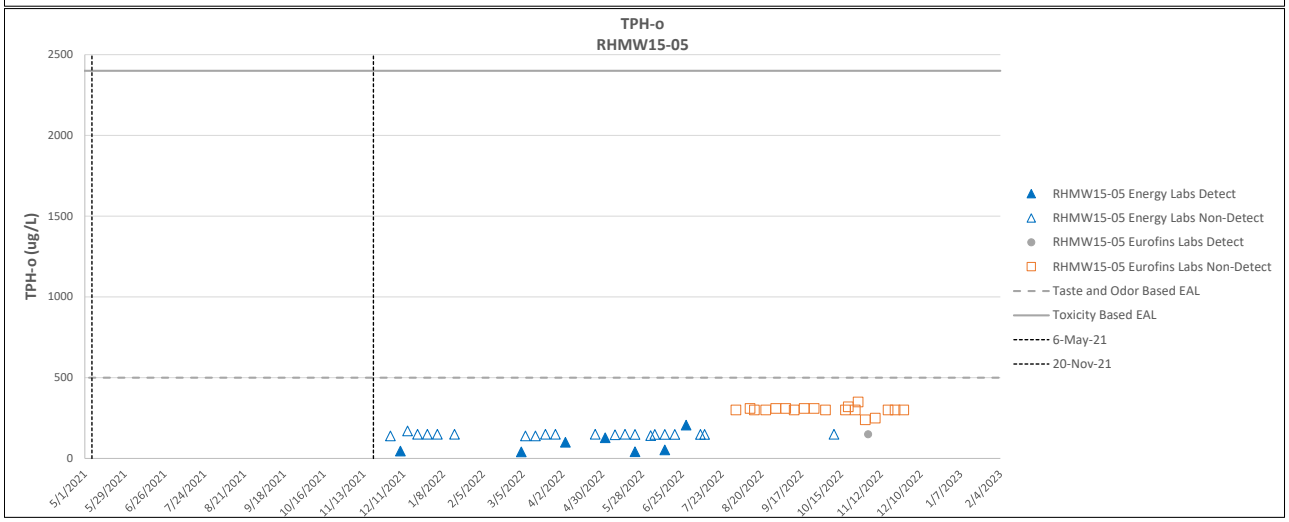
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW14-03 Energy Labs Detect
RHMW14-03 Energy Labs Non-Detect
RHMW14-03 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21

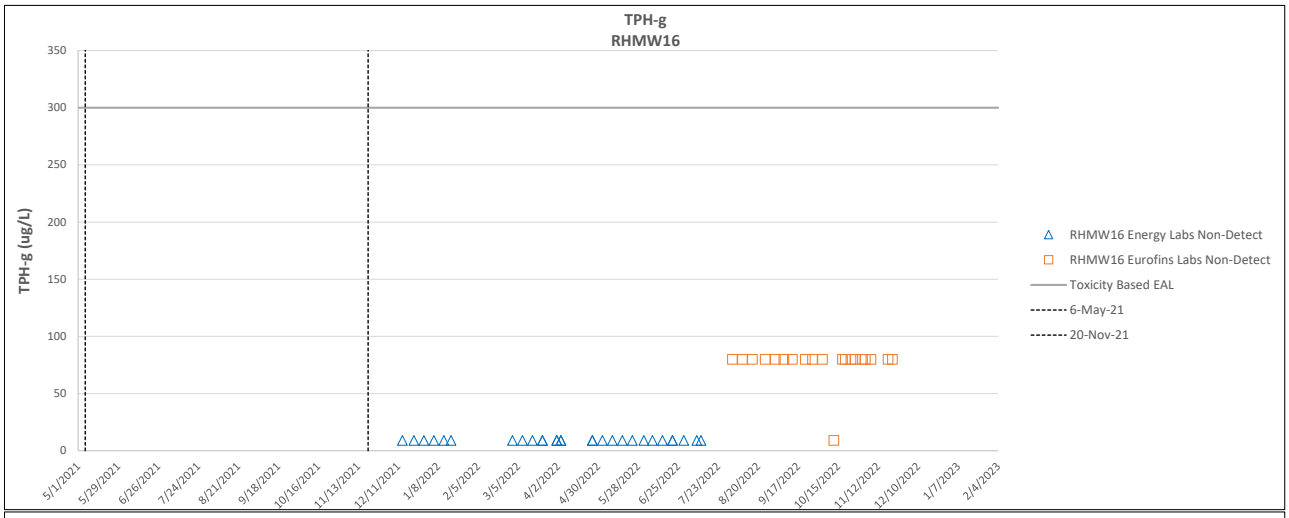






Notes:

[1] Sample collected 12/2/2021 was reanalyzed due to inconsistency with historic trends and suspected container switch. Reanalysis results were inconclusive and original results were reported.


TPH-g
RHMW16
TPH-g (ug/L)
350
300
250
200
150
100
50
0
5/1/2021
5/29/2021
6/26/2021
7/24/2021
8/21/2021
9/18/2021
10/16/2021
11/13/2021
12/11/2021
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2/5/2022
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4/2/2022
4/30/2022
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7/23/2022
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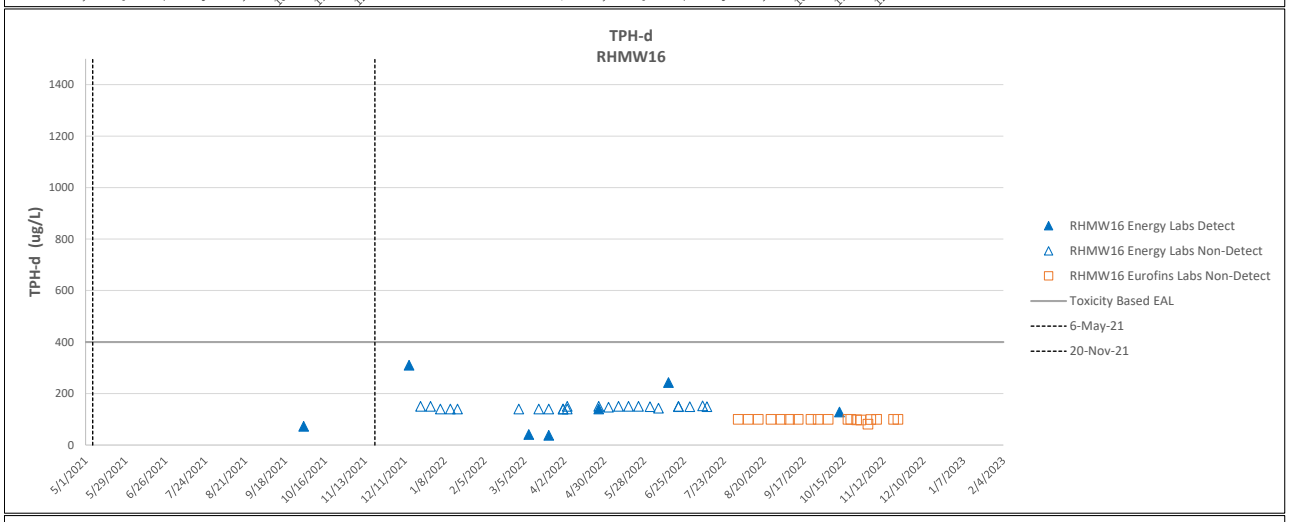
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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1/8/2022
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4/2/2022
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6/25/2022
7/23/2022
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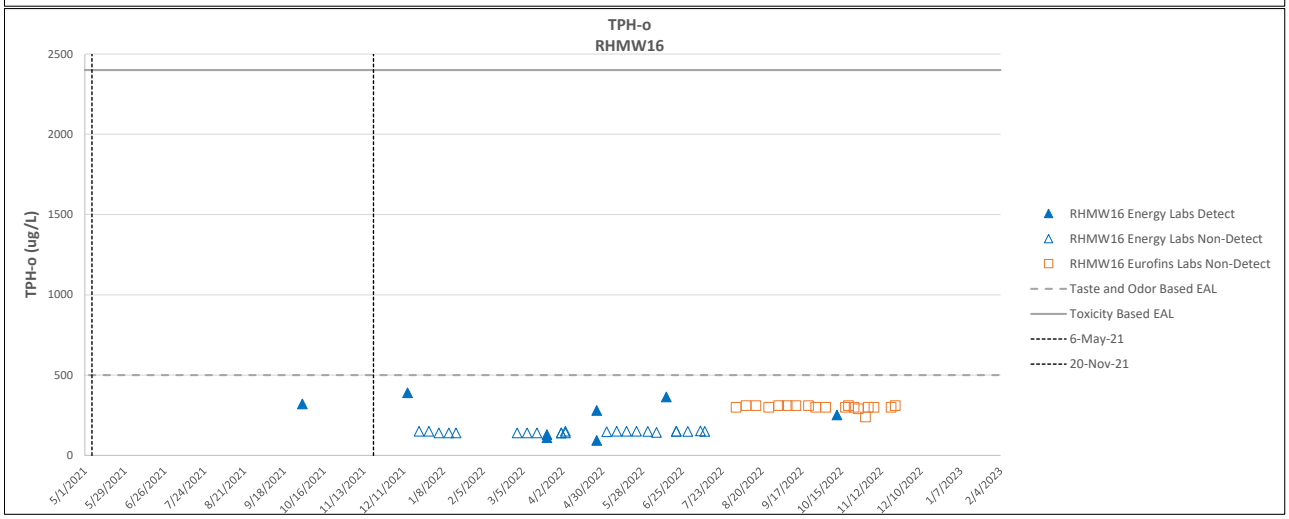
1/7/2023
2/4/2023
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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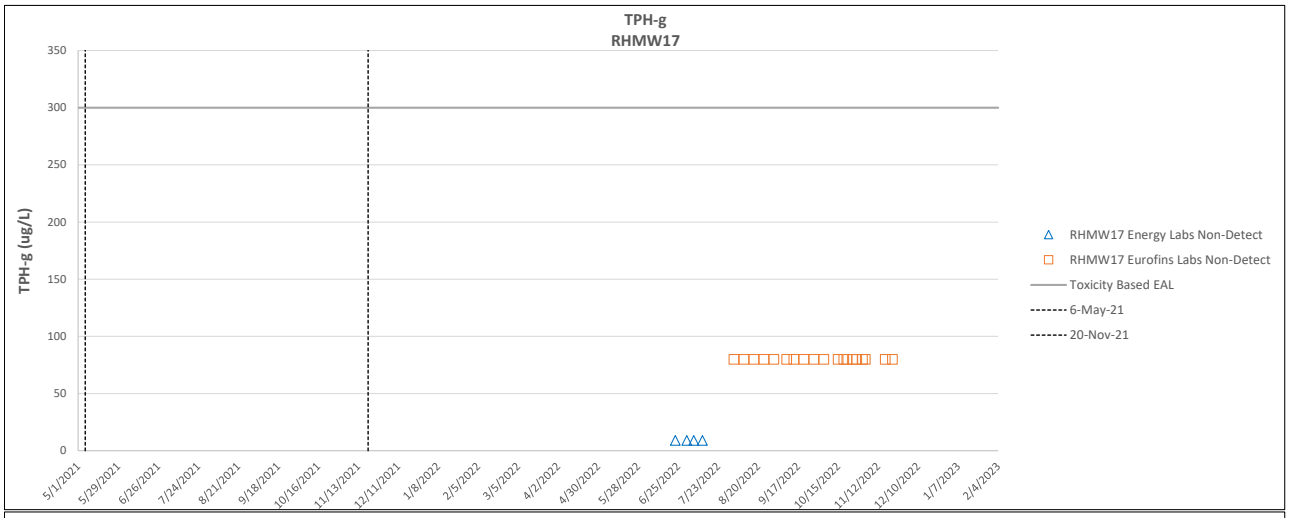
1/7/2023
2/4/2023
RHMW16 Energy Labs Detect
RHMW16 Energy Labs Non-Detect
RHMW16 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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5/28/2022
6/25/2022
7/23/2022
8/20/2022
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10/15/2022
11/12/2022
12/10/2022
1/7/2023
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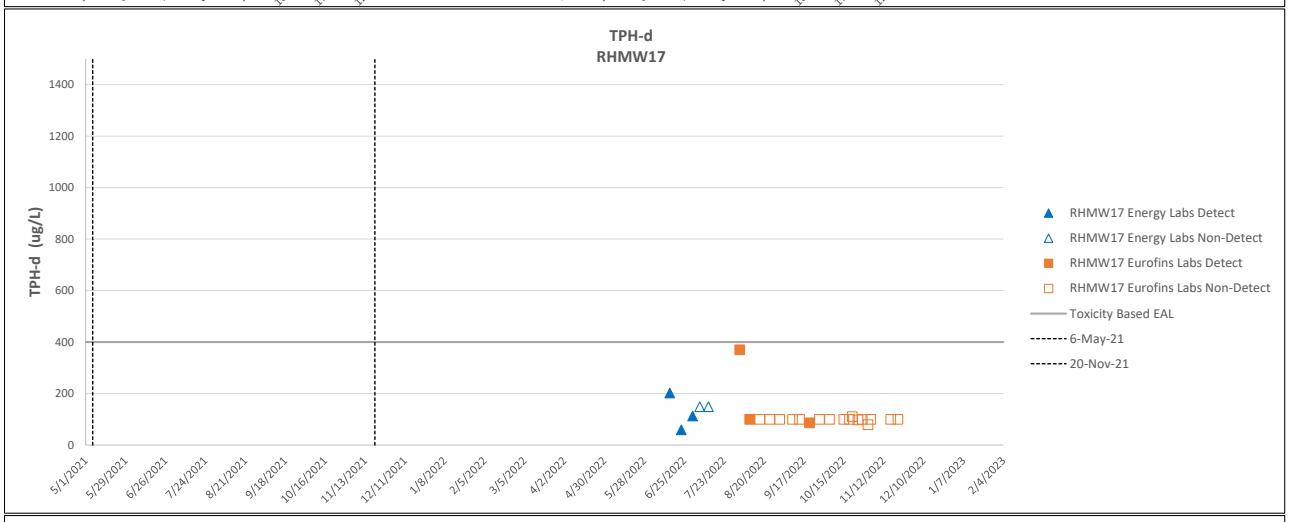
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1200
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600
400
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7/23/2022
8/20/2022
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11/12/2022
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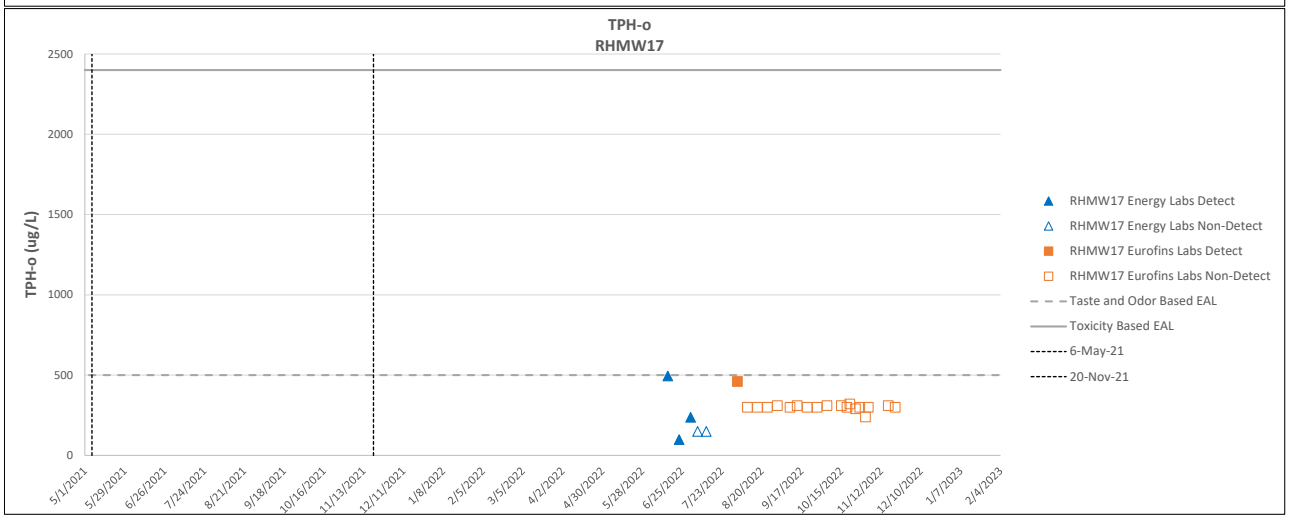
1/7/2023
2/4/2023
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21


TPH-o
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TPH-o (ug/L)
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2000
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1000
500
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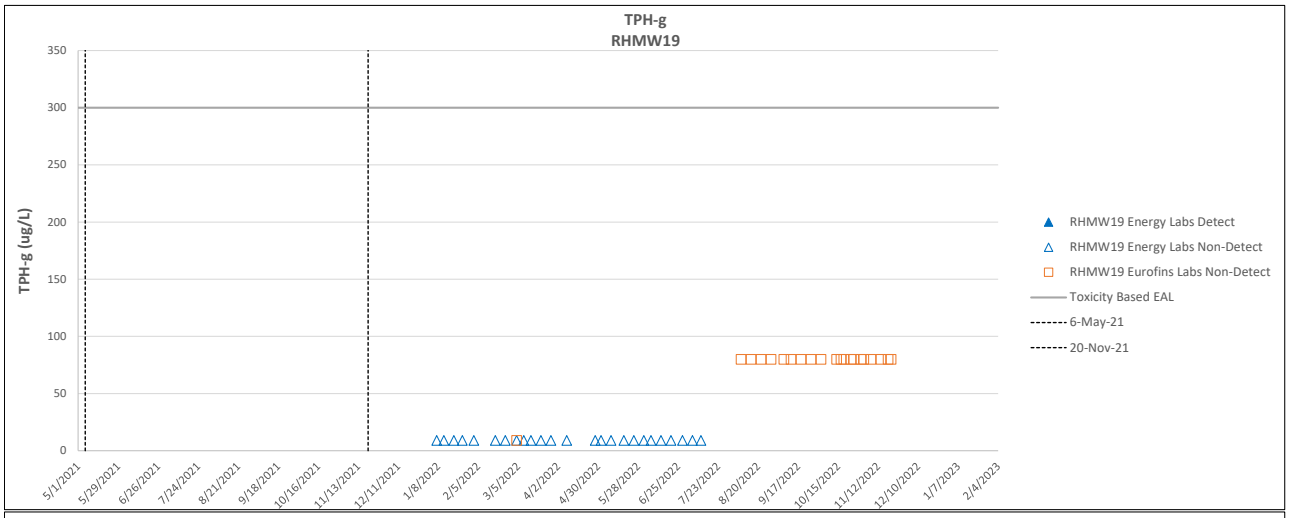
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
RHMW17 Energy Labs Detect
RHMW17 Energy Labs Non-Detect
RHMW17 Eurofins Labs Detect
RHMW17 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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300
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200
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100
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0
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5/28/2022
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7/23/2022
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10/15/2022
11/12/2022
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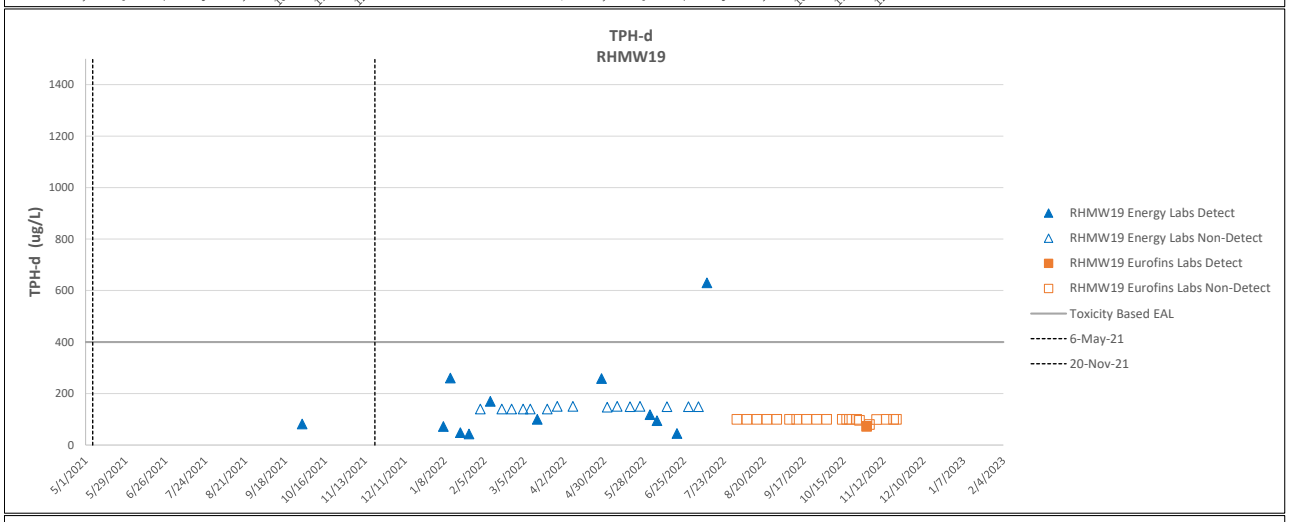
2/4/2023
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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RHMW19
TPH-d (ug/L)
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800
600
400
200
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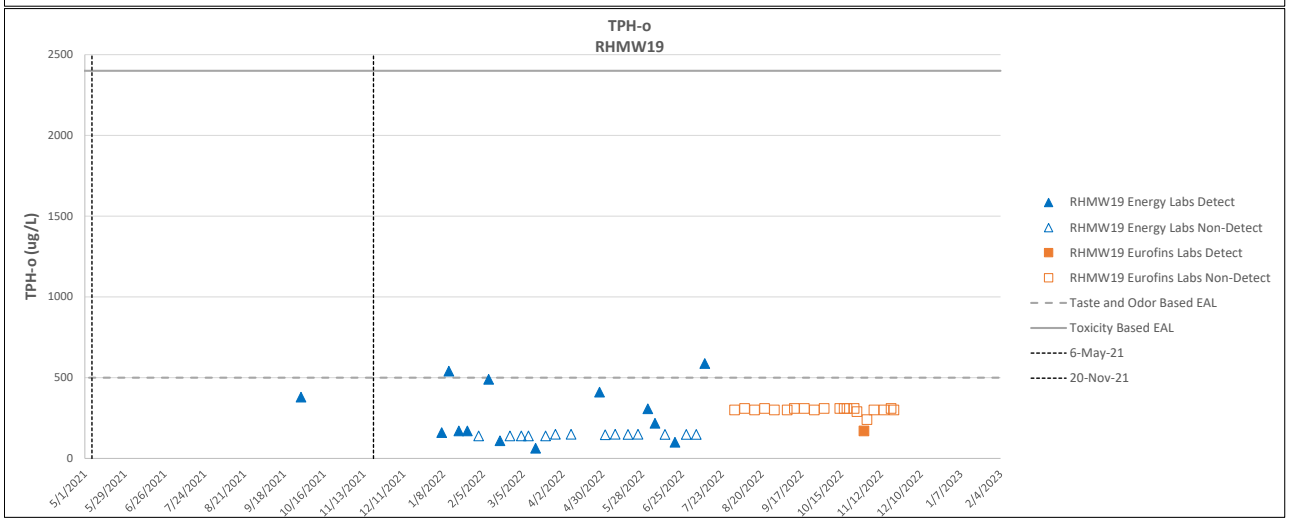
2/4/2023
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Detect
RHMW19 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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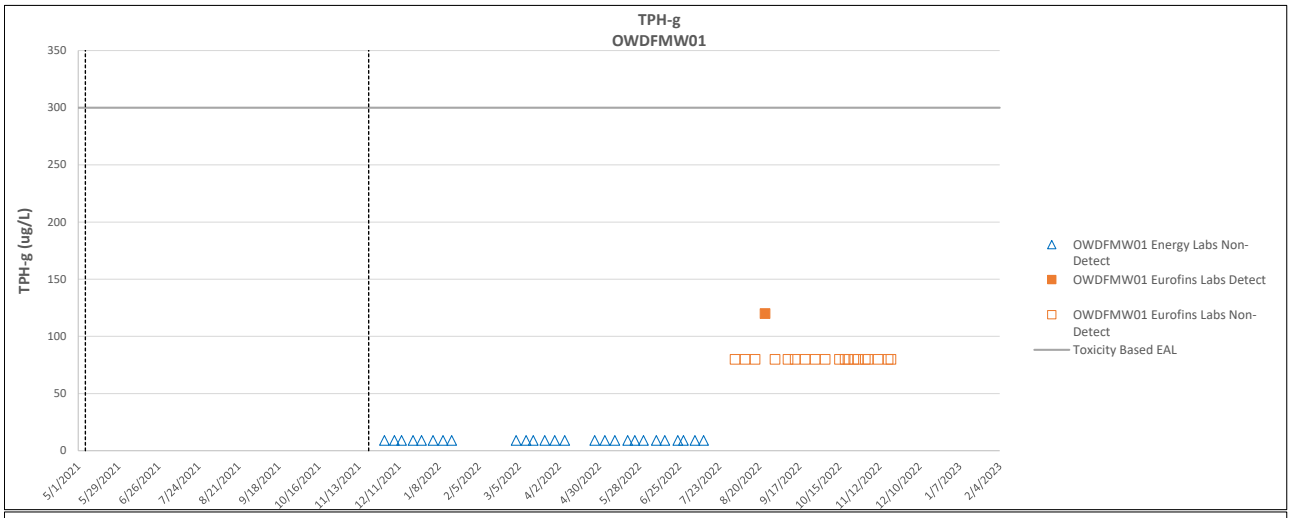
2/4/2023
RHMW19 Energy Labs Detect
RHMW19 Energy Labs Non-Detect
RHMW19 Eurofins Labs Detect
RHMW19 Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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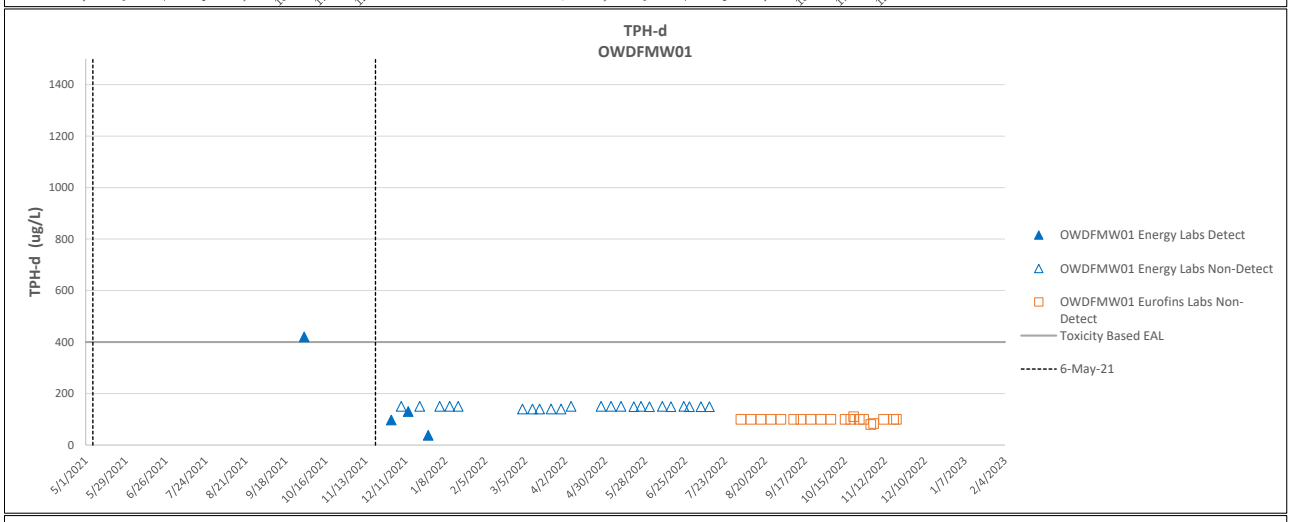
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity Based EAL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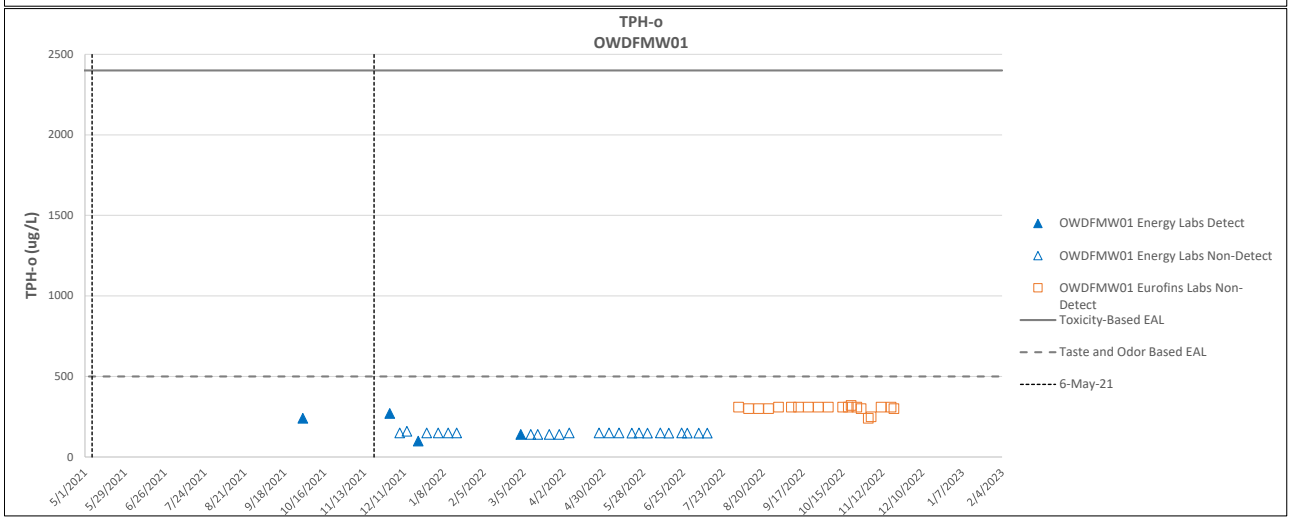
OWDFMW01 Energy Labs Detect
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-o (ug/L)
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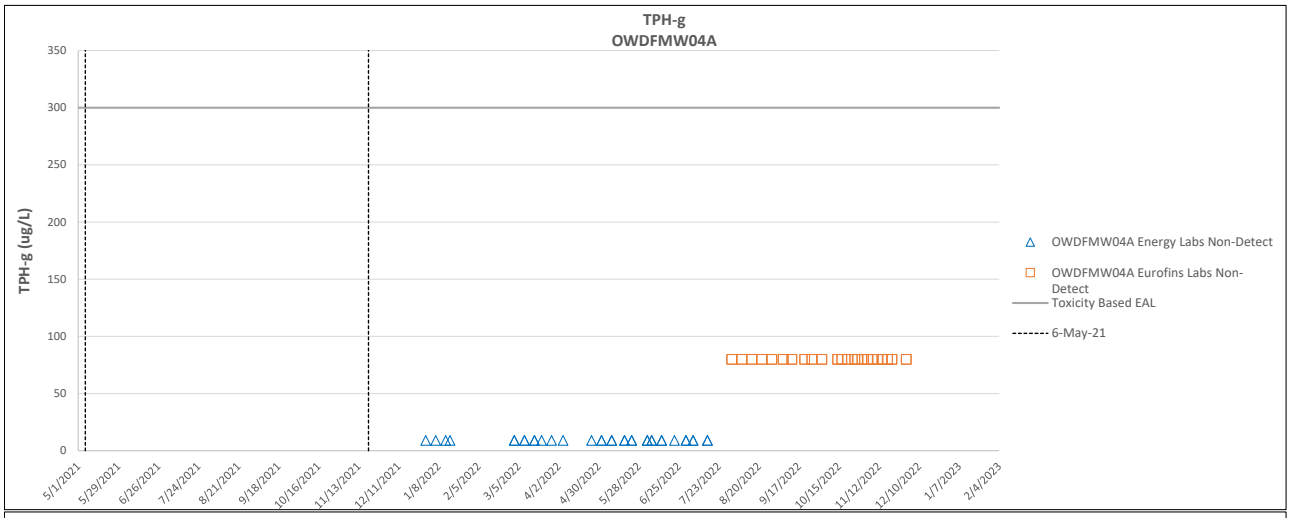
OWDFMW01 Energy Labs Detect
OWDFMW01 Energy Labs Non-Detect
OWDFMW01 Eurofins Labs Non-Detect
Toxicity-Based EAL
Taste and Odor Based EAL
6-May-21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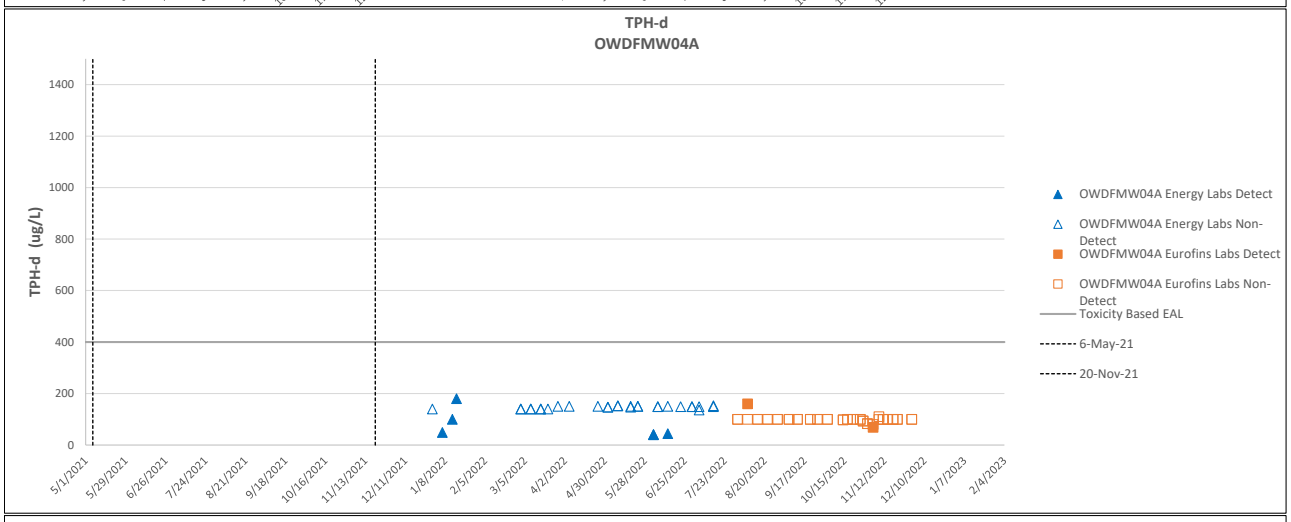
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-d (ug/L)
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800
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400
200
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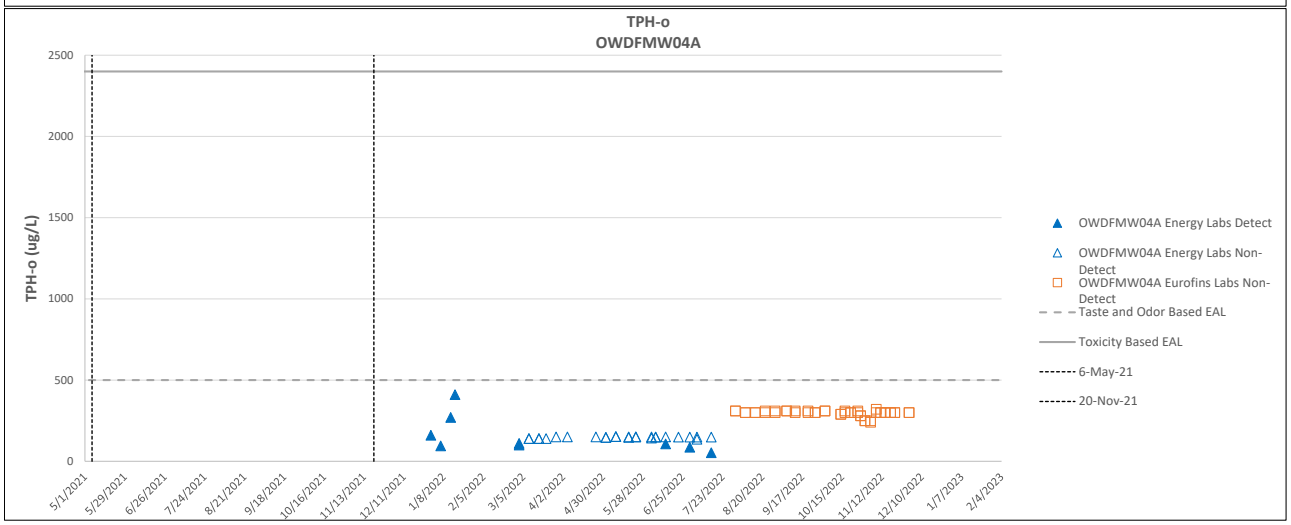
1/7/2023
2/4/2023
OWDFMW04A Energy Labs Detect
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Detect
OWDFMW04A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-o (ug/L)
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1000
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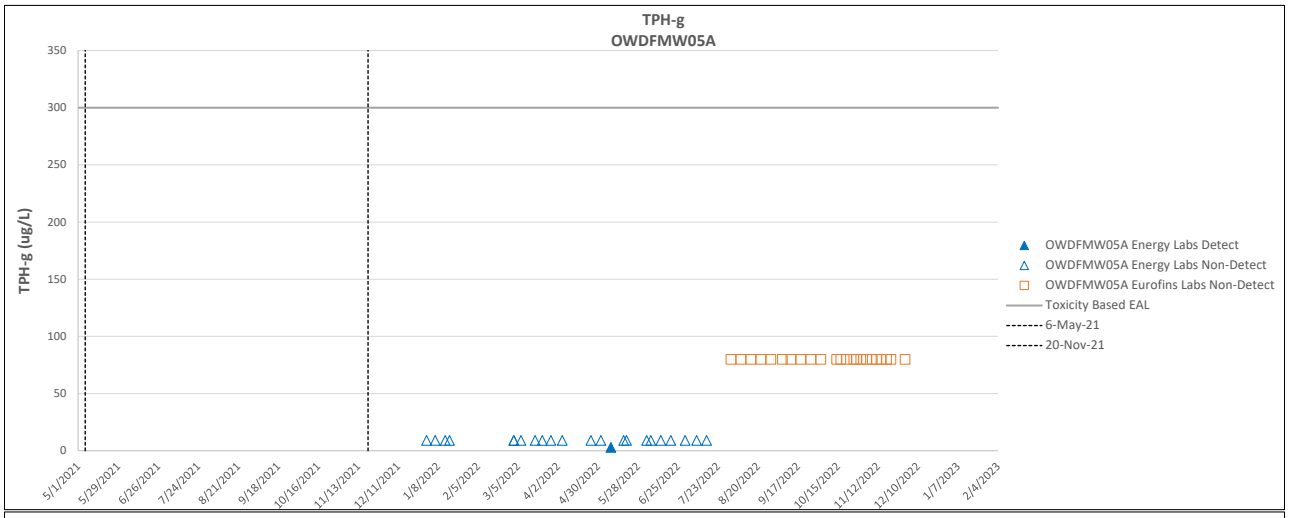
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
OWDFMW04A Energy Labs Detect
OWDFMW04A Energy Labs Non-Detect
OWDFMW04A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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0
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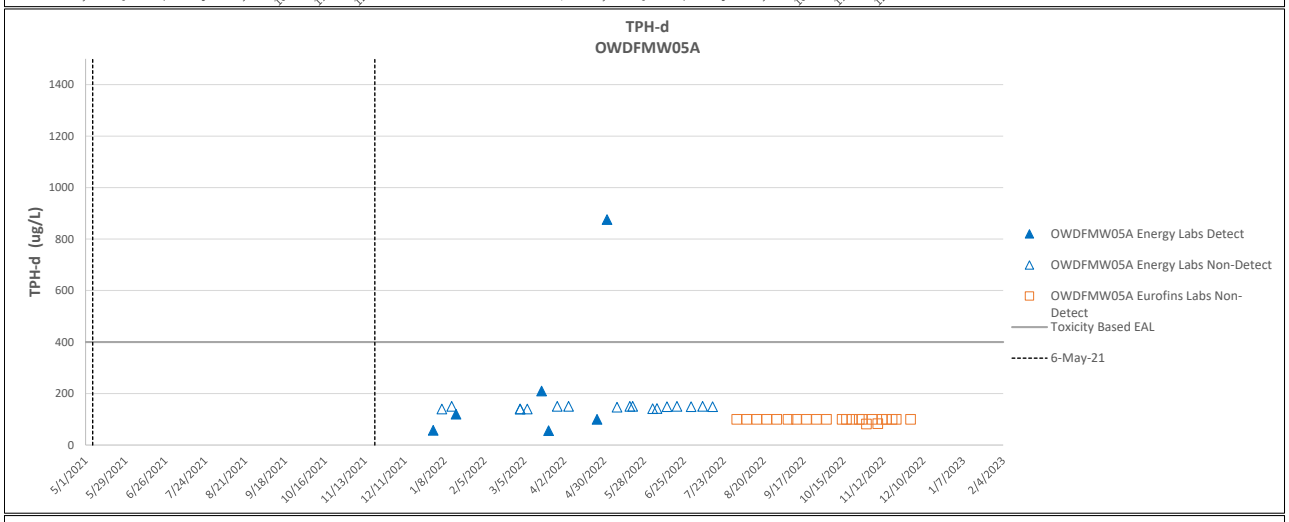
2/4/2023
OWDFMW05A Energy Labs Detect
OWDFMW05A Energy Labs Non-Detect
OWDFMW05A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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200
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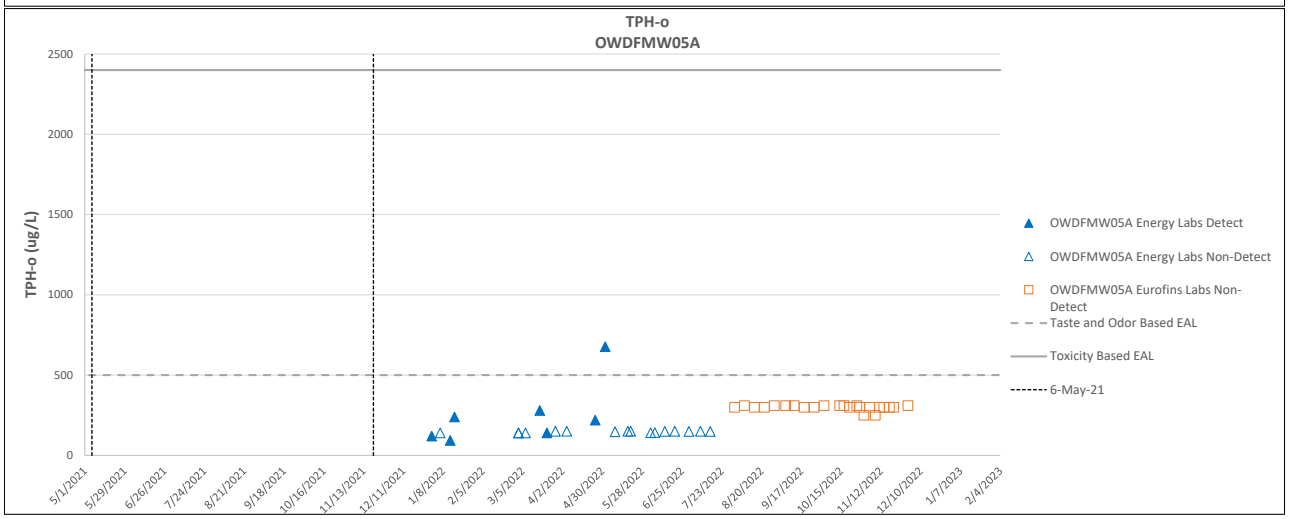
2/4/2023
OWDFMW05A Energy Labs Detect
OWDFMW05A Energy Labs Non-Detect
OWDFMW05A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21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TPH-o (ug/L)
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1000
500
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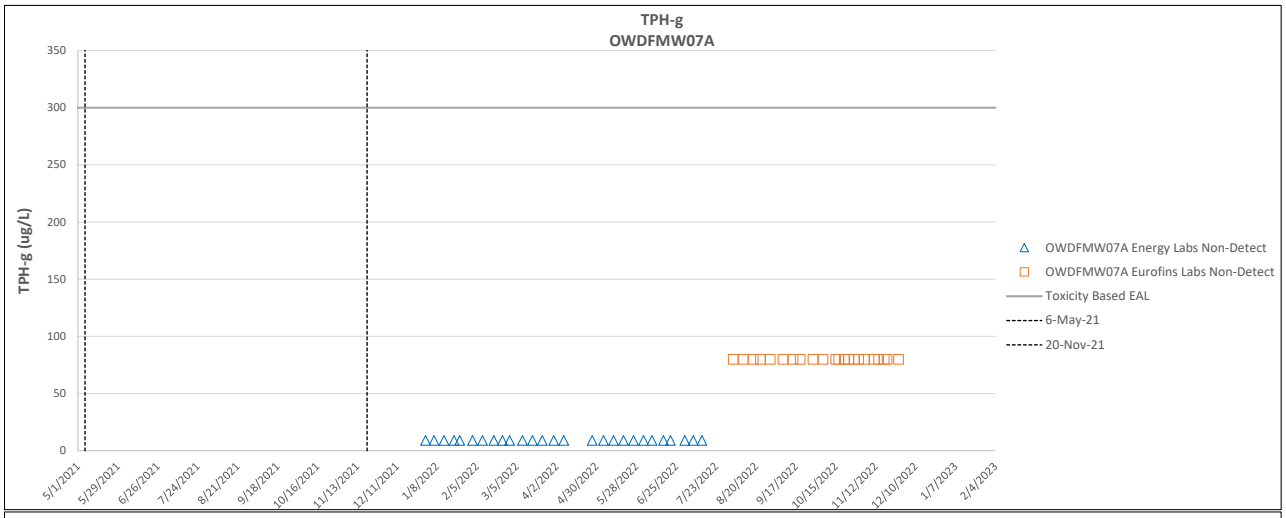
1/7/2023
2/4/2023
OWDFMW05A Energy Labs Detect
OWDFMW05A Energy Labs Non-Detect
OWDFMW05A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21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TPH-g (ug/L)
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200
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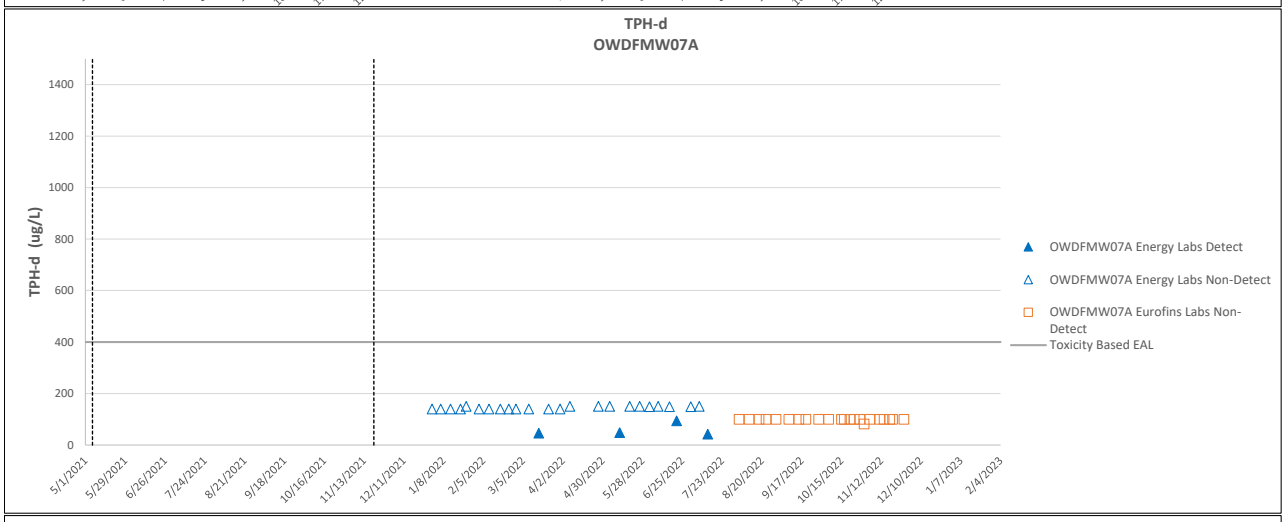
OWDFMW07A Energy Labs Non-Detect
OWDFMW07A Eurofins Labs Non-Detect
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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1200
1000
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11/12/2022
12/10/2022
1/7/2023
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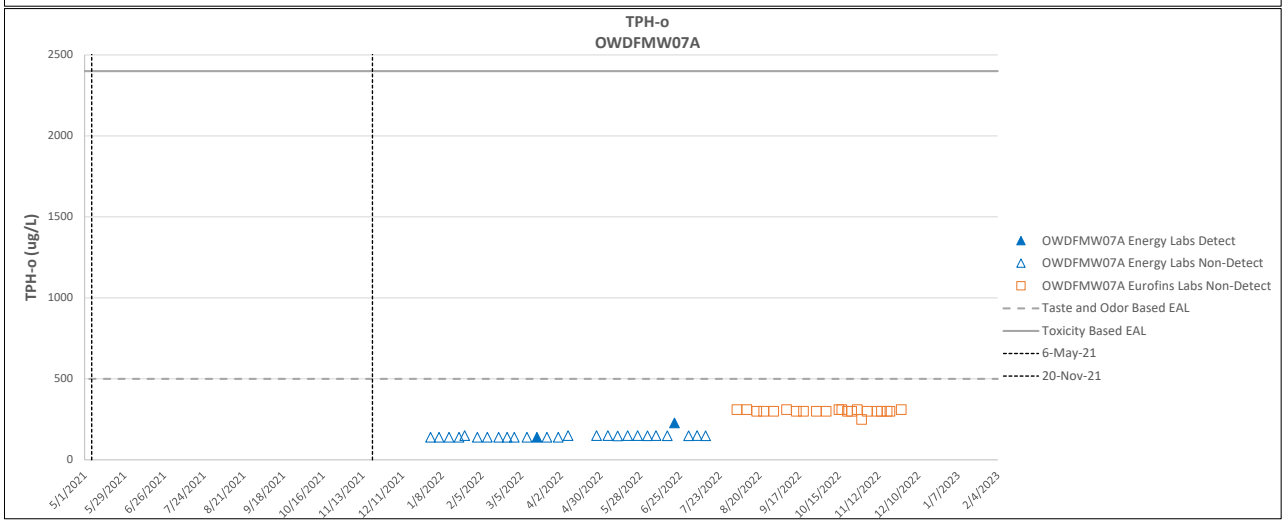
OWDFMW07A Eurofins Labs Non-Detect
Toxicity Based EAL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8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
OWDFMW07A Energy Labs Detect
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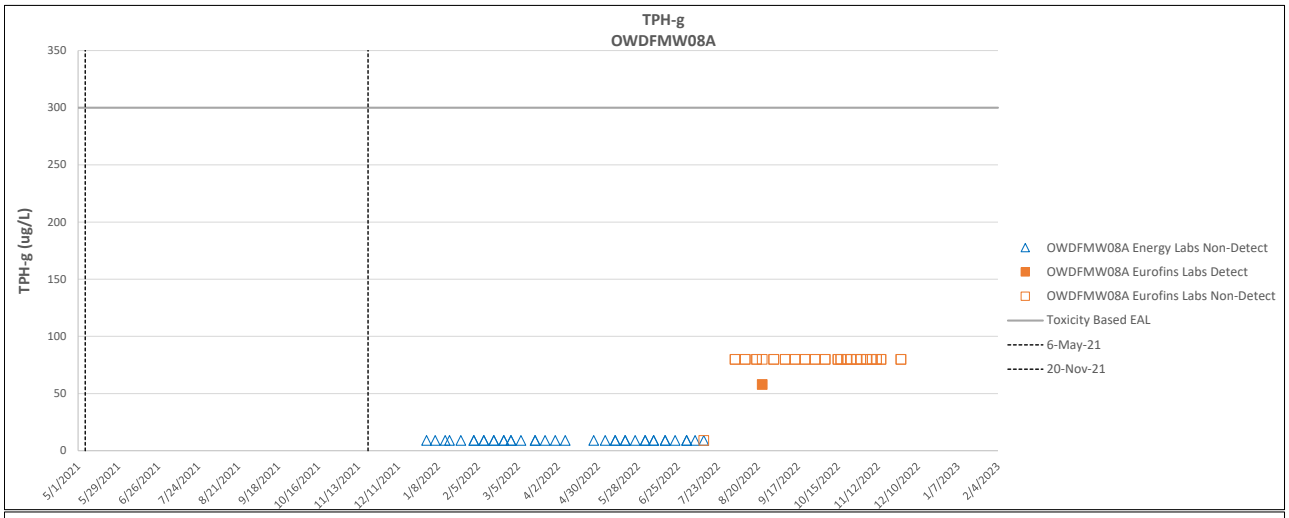
OWDFMW07A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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150
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1/7/2023
2/4/2023
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OWDFMW08A Eurofins Labs Detect
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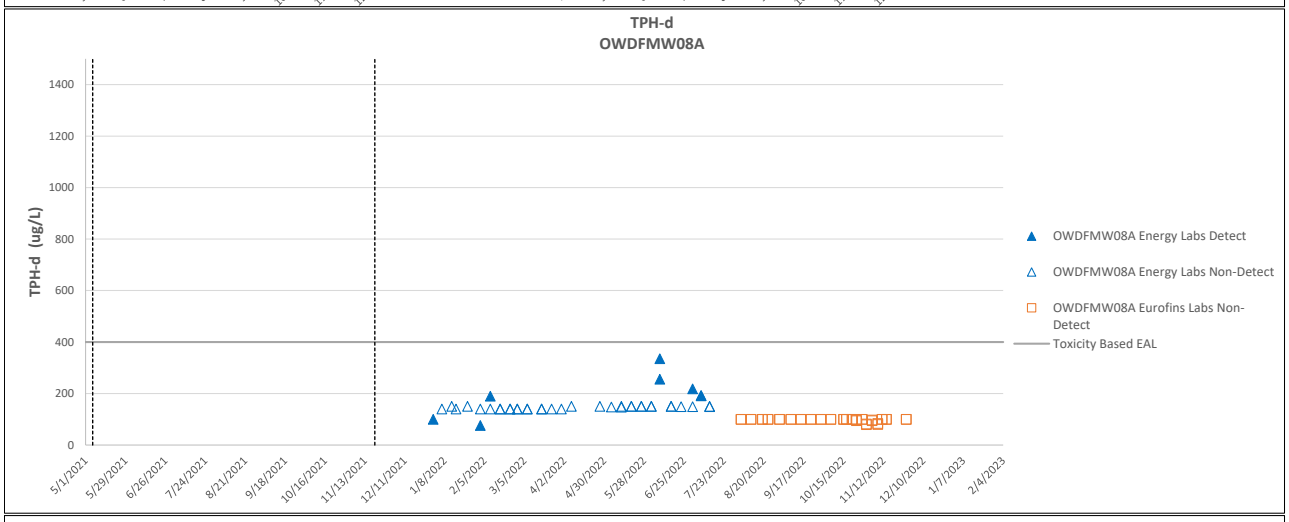
Toxicity Based EAL
6-May-21
20-Nov-21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600
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3/5/2022
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6/25/2022
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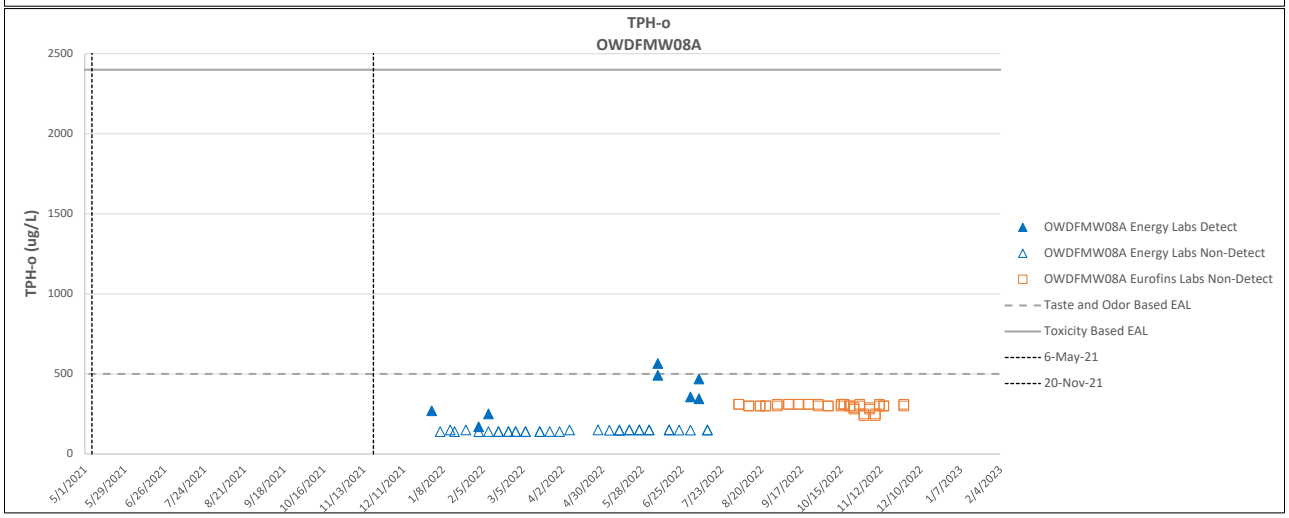
8/20/2022
9/17/2022
10/15/2022
11/12/2022
12/10/2022
1/7/2023
2/4/2023
OWDFMW08A Energy Labs Detect
OWDFMW08A Energy Labs Non-Detect
OWDFMW08A Eurofins Labs Non-Detect
Toxicity Based EAL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1/7/2023
2/4/2023
OWDFMW08A Energy Labs Detect
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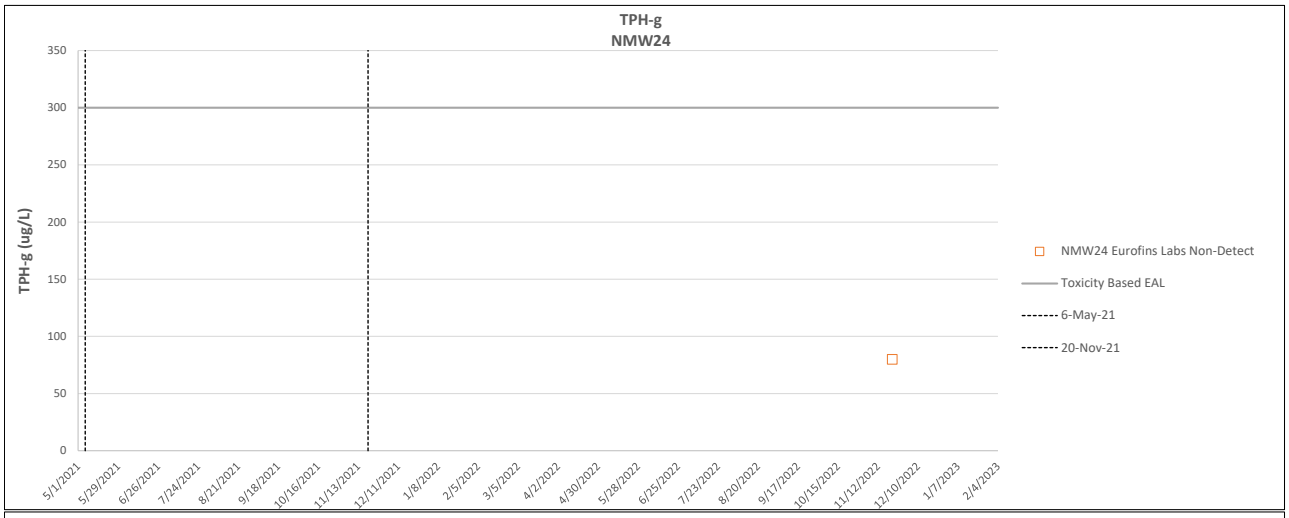
OWDFMW08A Eurofins Labs Non-Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-g (ug/L)
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1/7/2023
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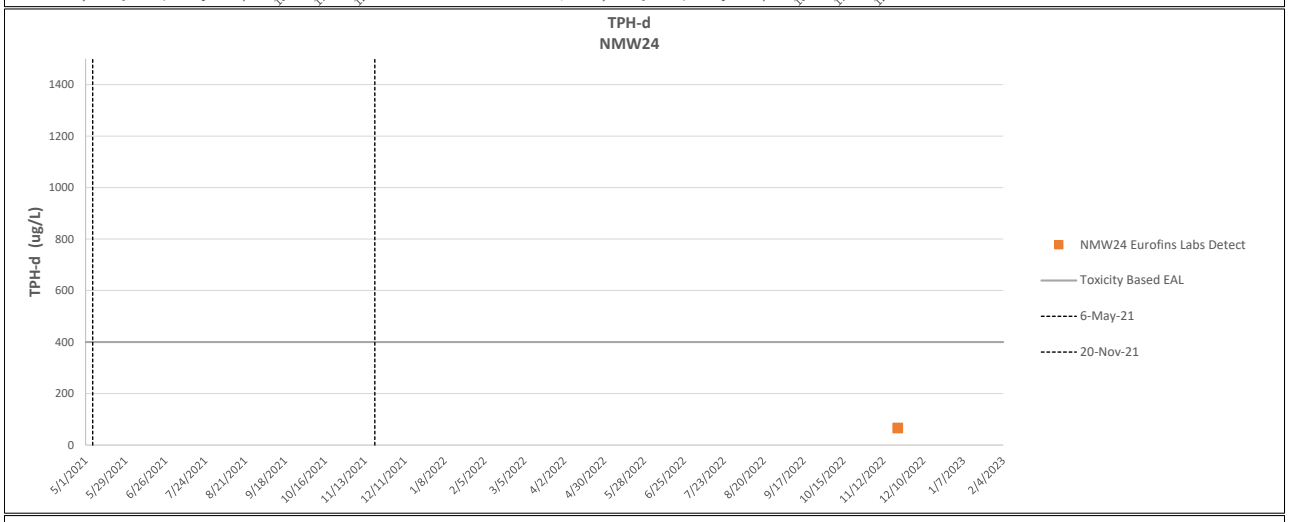
Toxicity Based EAL
6-May-21
20-Nov-21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TPH-d (ug/L)
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2/4/2023
NMW24 Eurofins Labs Detect
Toxicity Based EAL
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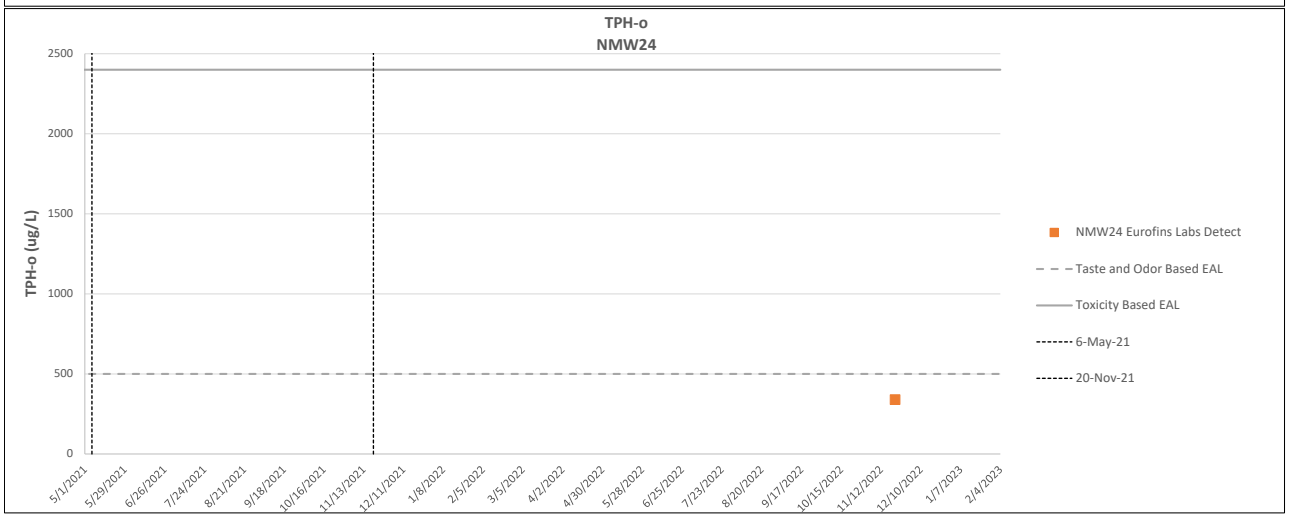
20-Nov-21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12/10/2022
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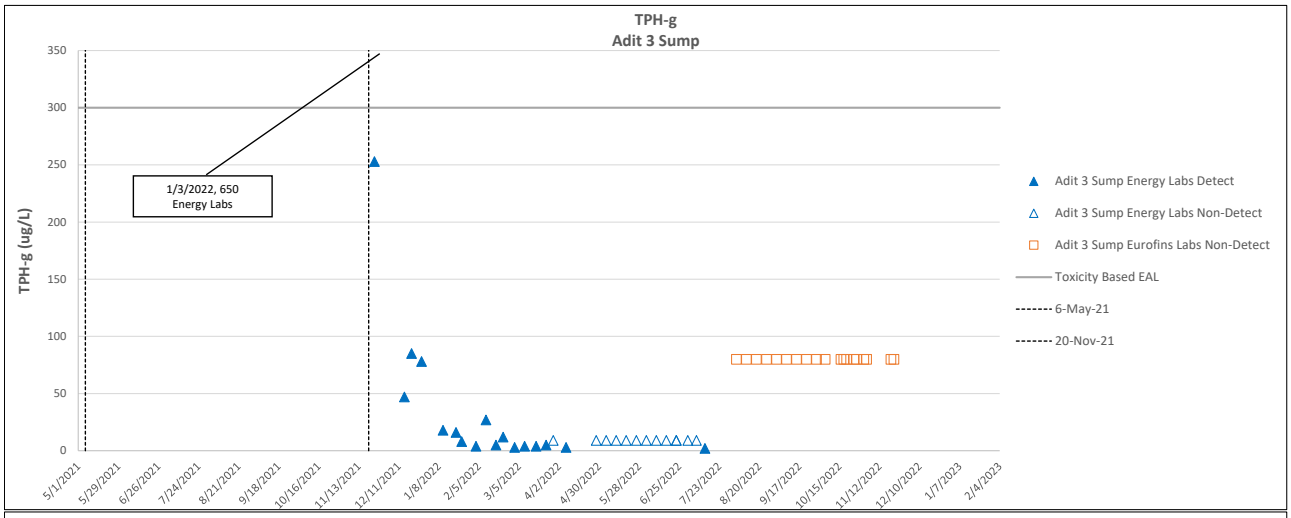
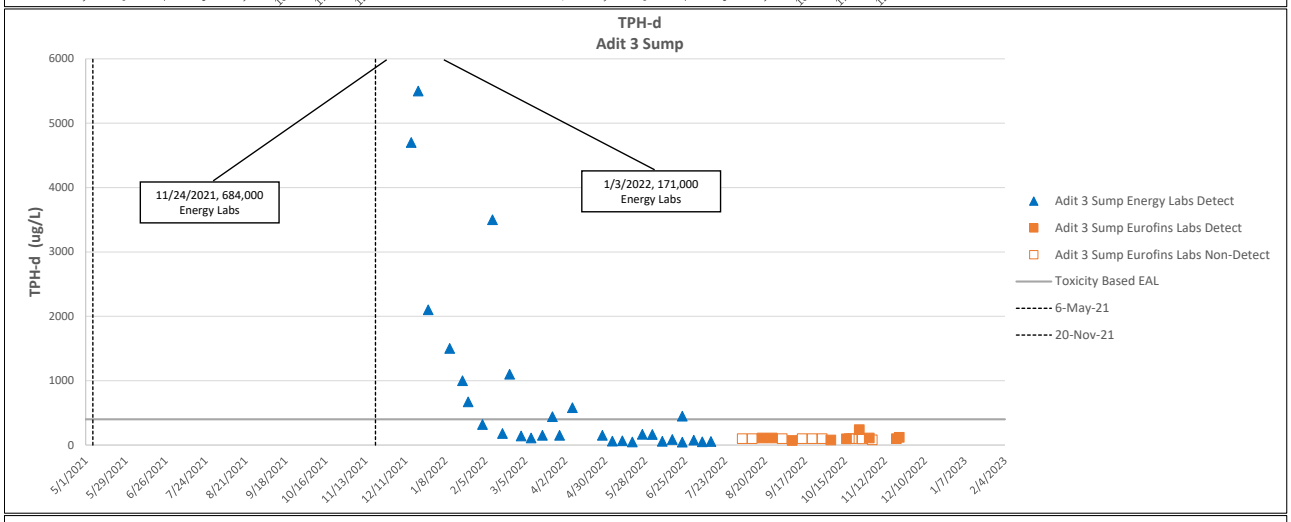
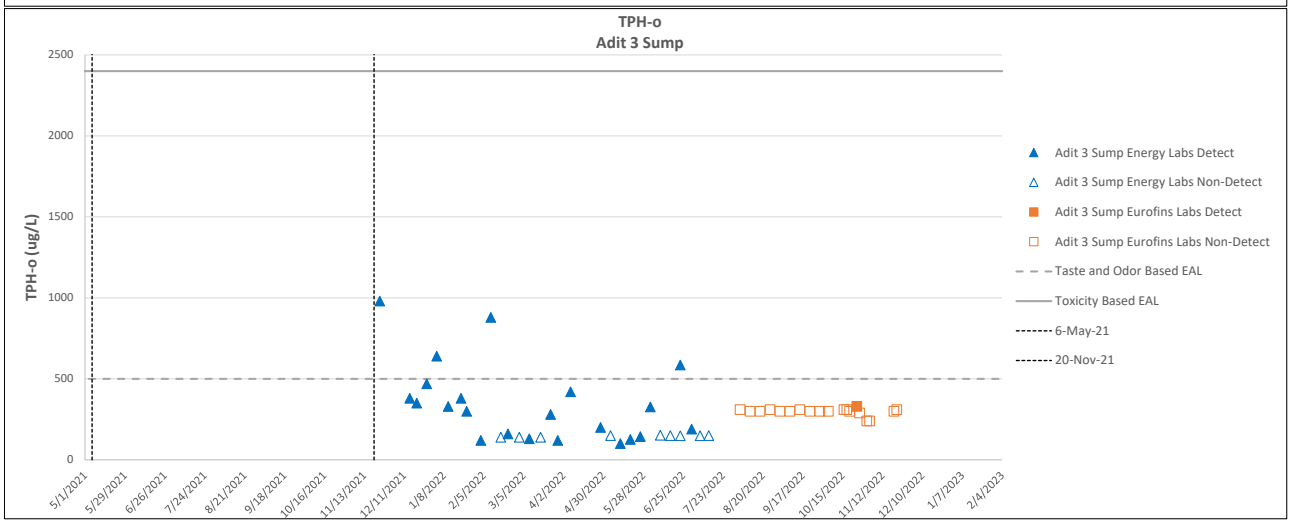
2/4/2023
NMW24 Eurofins Labs Detect
Taste and Odor Based EAL
Toxicity Based EAL
6-May-21
20-Nov-21







Notes:

[1] Sample collected on 12/20/2021 was reanalyzed due to inconsistency with historic trend and suspected container switch. Reanalysis results reported.

Appendix B.4.6 – Delineation Well Analytical Results

Appendix B.4.6
Delineation Wells
Validated Chemistry Results
JBPHH Site Characterization

						HC	TPH		TPH_SGC		VOC						SVOC			GASES	GENCHEM										TOC
					Analyte	C6-C10 Gasoline Range Organics	C10-C24 Petroleum Hydrocarbons	C24-C40 Petroleum Hydrocarbons	C10-C24 Petroleum Hydrocarbons	C24-C40 Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Xylenes, Total	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Methane	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Alkalinity, Total (as CaCO3)	Chloride	Iron, Ferrous	Nitrate (as N)	Nitrate-Nitrite (as N)	Sulfate	Total Organic Carbon
					CAS No.	--	--	--	--	--	71-43-2	100-41-4	--	95-47-6	108-88-3	1330-20-7	90-12-0	91-57-6	91-20-3	--	--	--	--	--	--	--	--	--	--	--
					Method	8260/ CALUFT DOD	8015D	8015D	8015D	8015D	8260D	8260D	8260D	8260D	8260D	8260D	8270E SIM	8270E SIM	8270E SIM	RSK175	A2320B	A2320B	A2320B	EPA 300	A3500B	EPA 300	EPA 353.2	EPA 300	SW9060A
					DOH Tier 1 EAL	300	400	500	400	500	5	30			40	20	10	10	17										
					Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
					Minimum	ND	68 J	180 J	70 J	ND	ND	ND	ND	ND	0.46 J	ND	0.037 J	0.051 J	0.17 J	ND	85,000	ND	85,000	160,000	25 J	44 J	87 J+	76,000	5300	
					Maximum	ND	370 J	250 J	70 J	ND	ND	ND	ND	ND	0.46 J	ND	0.35	0.62	5.1	ND	94,000	ND	94,000	190,000 J-	31 J	46 J	87 J+	130,000 J-	13,000 J	
Location	**Sampling Method**	**Laboratory**	**Field Sample ID**	**Sample Date**	**Sample Type**																								
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2210WK2	10/16/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2210WK3	10/18/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.052 J**	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2210WK3	10/21/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2210WK4	10/26/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2210WK4	10/28/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2210WK5	11-01-2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGFD01LF-2210WK5	11-01-2022	Field Duplicate	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2210WK5	11/03/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2211WK1	11-08-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGFD01LF-2211WK1	11-08-2022	Field Duplicate	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2211WK1	11-10-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2211WK2	11/15/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 UJ	0.0810 UJ	0.400 UJ	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGFD01LF-2211WK2	11/15/2022	Field Duplicate	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2211WK2	11-17-2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2211WK3	11-19-2022	Primary	80.0 UJ	100 U	300 U	-	-	0.500 U	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN02LF-2211WK3	11-22-2022	Primary	80.0 UJ	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP01	Low-Flow	EUT2	RHP01-WGN01LF-2212WK1	12/09/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 UJ	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2210WK2	10/16/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2210WK3	10/18/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2210WK3	10/21/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	- R	- R	- R	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2210WK4	10/26/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0830 U	0.0830 U	0.420 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2210WK4	10/28/2022	Primary	80.0 U	110 U	320 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2210WK5	11-01-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2210WK5	11/03/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0830 U	0.0830 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2211WK1	11-08-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2211WK1	11-10-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2211WK2	11/15/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2211WK2	11-17-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	**0.170 J**	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2211WK3	11-19-2022	Primary	80.0 UJ	100 U	300 U	-	-	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGFD01LF-2211WK3	11-19-2022	Field Duplicate	80.0 UJ	100 U	300 U	-	-	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN02LF-2211WK3	11-22-2022	Primary	80.0 UJ	99.0 UJ	300 UJ	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGN01LF-2212WK1	12/09/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 UJ	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP02	Low-Flow	EUT2	RHP02-WGFD01LF-2212WK1	12/09/2022	Field Duplicate	80.0 U	100 UJ	300 UJ	-	-	0.500 U	0.800 U	0.800 U	0.800 UJ	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2210WK2	10/14/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2210WK3	10/17/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.047 J**	0.0810 U	**0.31 J**	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2210WK3	10/20/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2210WK4	10/25/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2210WK4	10/27/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	**0.460 J**	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2210WK5	11-02-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2210WK5	11-04-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2211WK1	11-09-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2211WK1	11/11/2022	Primary	80.0 UJ	100 UJ	310 UJ	-	-	0.500 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.800 UJ	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2211WK2	11-16-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2211WK2	11/18/2022	Primary	80.0 U	**78 J**	300 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.350**	**0.620**	**5.10**	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2211WK3	11-20-2022	Primary	80.0 UJ	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN02LF-2211WK3	11-23-2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0830 U	0.0830 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP03	Low-Flow	EUT2	RHP03-WGN01LF-2212WK1	12/09/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2210WK2	10/14/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2210WK3	10/17/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.060 J**	**0.051 J**	**0.590 J**	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2210WK3	10/20/2022	Primary	80.0 U	**68.0 J**	310 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2210WK4	10/25/2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2210WK4	10/27/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.037 J**	**0.089 J**	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2210WK5	11-02-2022	Primary	80.0 U	100 U	310 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2210WK5	11-04-2022	Primary	80.0 U	**75.0 J**	300 U	**70.0 J**	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0800 U	0.0800 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2211WK1	11-09-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2211WK1	11-11-2022	Primary	80.0 U	**81.0 J**	300 U	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2211WK2	11/16/2022	Primary	80.0 U	100 UJ	310 UJ	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 UJ	0.800 U	0.800 UJ	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2211WK2	11/18/2022	Primary	80.0 U	**68.0 J**	310 U	100 U	310 U	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	**0.0630 J**	**0.100 J**	**1.00**	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2211WK3	11-21-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN02LF-2211WK3	11-23-2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.410 U	-	-	-	-	-	-	-	-	-	-
RHP04A	Low-Flow	EUT2	RHP04A-WGN01LF-2212WK1	12/09/2022	Primary	80.0 U	100 U	300 U	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0810 U	0.0810 U	0.400 U	-	-	-	-	-	-	-	-	-	-
RHP04B	Low-Flow	EUT2	RHP04B-WGN01LF-2211WK1	11/09/2022	Primary	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	**86000**	7000 U	**86000**	**160000**	-	**44 J**	-	**77000**	**5400**

Appendix B.4.6
Delineation Wells
Validated Chemistry Results
JBPHH Site Characterization

RHP04B	Low-Flow	EUT2	RHP04B-WGN01LF-2211WK1	11/09/2022	Primary	80.0	UJ	**140**		300	U	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0800	U	0.0800	U	0.400	U	-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUTQ	RHP04B-WGN01LF-2211WK1	11/09/2022	Primary	-		-		-		-		-		-		-		-		-		-		-		-		-		1.30	U	-		-		-		**25**	**J**	-		**87**	**J+**	-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGFD01LF-2211WK1	11/09/2022	Field Duplicate	-		-		-		-		-		-		-		-		-		-		-		-		-		-		**85000**		7000	U	**85000**		**160000**		-		**46**	**J**	-		**76000**		**5300**	
RHP04B	Low-Flow	EUT2	RHP04B-WGFD01LF-2211WK1	11/09/2022	Field Duplicate	80.0	UJ	**170**		300	U	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0810	U	0.0810	U	0.410	U	-		-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUTQ	RHP04B-WGFD01LF-2211WK1	11/09/2022	Field Duplicate	-		-		-		-		-		-		-		-		-		-		-		-		-		-		1.30	U	-		-		-		**26**	**J**	-		80.0	U	-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN02LF-2211WK1	11/11/2022	Primary	80.0	U	**370**	**J**	**240**	**J**	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0810	U	0.0810	U	0.400	U	-		**94000**		7000	U	**94000**		**190000**	**J-**	-		120	U	-		**130000**	**J-**	**13000**	**J**
RHP04B	Low-Flow	EUTQ	RHP04B-WGN02LF-2211WK1	11/11/2022	Primary	-		-		-		-		-		-		-		-		-		-		-		-		-		-		1.30	U	-		-		-		**31**	**J**	-		80.0	U	-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN01LF-2211WK2	11/16/2022	Primary	80.0	U	**290**		**250**	**J**	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	UJ	0.800	U	0.800	UJ	0.0830	U	0.0830	U	0.410	U	-		-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN02LF-2211WK2	11/18/2022	Primary	80.0	U	**350**		**250**	**J**	100	U	300	U	0.500	UJ	0.800	UJ	0.800	UJ	0.800	UJ	0.800	UJ	0.800	UJ	0.0810	U	0.0810	U	0.400	U	-		-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN01LF-2211WK3	11-21-2022	Primary	80.0	U	**270**		**180**	**J**	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0810	U	0.0810	U	0.400	U	-		-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN02LF-2211WK3	11-23-2022	Primary	80.0	U	**280**		300	U	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0810	U	0.0810	U	0.410	U	-		-		-		-		-		-		-		-	
RHP04B	Low-Flow	EUT2	RHP04B-WGN01LF-2212WK1	12/09/2022	Primary	80.0	U	**280**		**200**	**J**	100	U	300	U	0.500	U	0.800	U	0.800	U	0.800	U	0.800	U	0.800	U	0.0810	U	0.0810	U	0.400	U	-		-		-		-		-		-		-		-	

Notes:
Detects are displayed in bold font.
Analytical results exceeding the screening criteria are highlighted in blue.
Project Screening Levels from: State of Hawaii, Department of Health Environmental Action Levels (EALs) >150m

-	No data available
PAH	Polynuclear Aromatic Hydrocarbon
SGC	Silica Gel Cleanup
SVOC	Semivolatile Organic Compound
TOC	Total Organic Carbon
TPH	Total Petroleum Hydrocarbons
VOC	Volatile Organic Compound

Sample Type

N	Normal environmental sample
FD	Field Duplicate

Matrix

WG	Ground Water

Units

µg/L	Micrograms per Liter

Qualifier

Yellow highlight indicates flag change since the previous submittal.

J	Estimated value, bias undetermined
J+	Estimated value, high biased
J-	Estimated value, low biased
U	The analyte was not detected and was reported as less than the limit of detection.
UJ	The analyte was not detected and was reported as less than the limit of detection. However, the associated result is flagged as estimated based on quality control criteria concerns.
R	Data excluded/rejected. See Data Validation Report for details.

Laboratory

EUT2	Eurofins Environment Testing TestAmerica, Tacoma, WA
EUTQ	Eurofins Environment Testing TestAmerica, Arvada, CO
LLL	Eurofins Lancaster Laboratories Environmental, LLC, Lancaster, PA

Appendix B.4.7 – Sentinel Well Analytical Results

Appendix B.4.7
Sentinel Wells
Validated Chemistry Results
JBPHH Site Characterization

						Category	HC	TPH		TPH_SGC		VOC						SVOC			GASES	GENCHEM									TOC
						Analyte	C6-C10 Gasoline Range Organics	C10-C24 Petroleum Hydrocarbons	C24-C40 Petroleum Hydrocarbons	C10-C24 Petroleum Hydrocarbons	C24-C40 Petroleum Hydrocarbons	Benzene	Ethylbenzene	m,p-Xylene	o-Xylene	Toluene	Xylenes, Total	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Methane	Alkalinity, Bicarbonate (as CaCO3)	Alkalinity, Carbonate (as CaCO3)	Alkalinity, Total (as CaCO3)	Chloride	Iron, Ferrous	Nitrate (as N)	Nitrate-Nitrite (as N)	Sulfate	Total Organic Carbon
						CAS No.	--	--	--	--	--	71-43-2	100-41-4	--	95-47-6	108-88-3	1330-20-7	90-12-0	91-57-6	91-20-3	--	--	--	--	--	--	--	--	--	--	--
						Method	8260/ CALUFT DOD	8015D	8015D	8015D	8015D	8260D	8260D	8260D	8260D	8260D	8260D	8270E SIM	8270E SIM	8270E SIM	RSK175	A2320B	A2320B	A2320B	EPA 300	A3500B	EPA 300	EPA 353.2	EPA 300	SW9060A
						DOH Tier 1 EAL	300	400	500	400	500	5	30			40	20	10	10	17										
						Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
						Minimum	ND	100 J	190 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	180,000	ND	180,000	150,000	25 J	2,100	2,200	47,000	880 J
						Maximum	ND	100 J	190 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190,000	ND	190,000	170,000	100 J	2,100	2,500	52,000	2,200
Location	**Sampling Method**	**Laboratory**	**Field Sample ID**	**Sample Date**	**Sample Type**																									
NMW24	Bailer	EUT2/EUTQ	NMW24-WGN01B-2211WK4	12/01/2022	Primary	80.0 U	**100 J**	**190 J**	100 U	300 U	0.500 U	0.800 U	0.800 U	0.800 UJ	0.800 U	0.800 U	0.0820 U	0.0820 U	0.410 U	1.30 U	**180,000**	7,000 U	**180,000**	**150,000**	**100 J**	**2,100**	**2,200**	**47,000**	**2,200**
NMW24	Bailer	EUT2/EUTQ	NMW24-WGN01B-2212WK1	12/09/2022	Primary	80.0 U	100 UJ	310 UJ	-	-	0.500 U	0.800 U	0.800 U	0.800 U	0.800 U	0.800 U	0.0830 U	0.0830 U	0.410 U	1.30 U	**190,000**	7,000 U	**190,000**	**170,000**	**25.0 J**	**2,100 J-**	**2,500**	**52,000**	**880 J**

Notes:
Detects are displayed in bold font.

J- Estimated value, low biased

U The analyte was not detected and was reported as less than the limit of detection.

UJ The analyte was not detected and was reported as less than the limit of detection. However, the associated result is flagged as estimated based on quality control criteria concerns.

R Data excluded/rejected. See Data Validation Report for details.

Laboratory

EUT2 Eurofins Environment Testing TestAmerica, Tacoma, WA

EUTQ Eurofins Environment Testing TestAmerica, Arvada, CO

LLL Eurofins Lancaster Laboratories Environmental, LLC, Lancaster, PA

Appendix B.5 – Groundwater Monitoring Chromatograms through February 3, 2023

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2208WK3 Sample Date: 8/18/2022
Lab: Eurofins Seattle

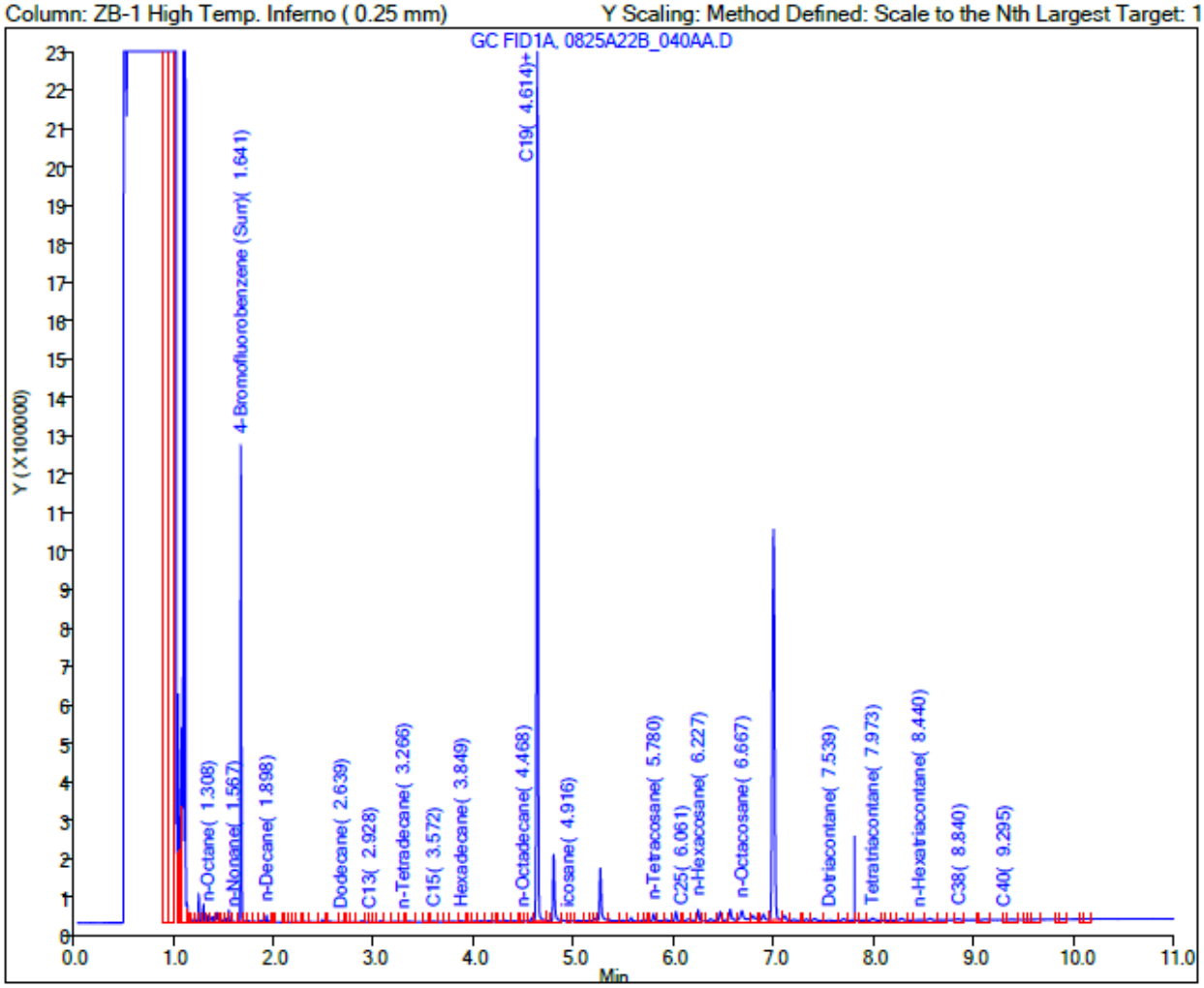
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Aug-2022 22:42:59 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_040AA.D				
Injection Date:	26-Aug-2022 13:04:30	Instrument ID:	TAC020		
Lims ID:	580-117162-C-1-C	Lab Sample ID:	580-117162-1		
Client ID:	RHMW2254-01-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	39	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2208WK4 Sample Date: 8/25/2022
Lab: Eurofins Seattle

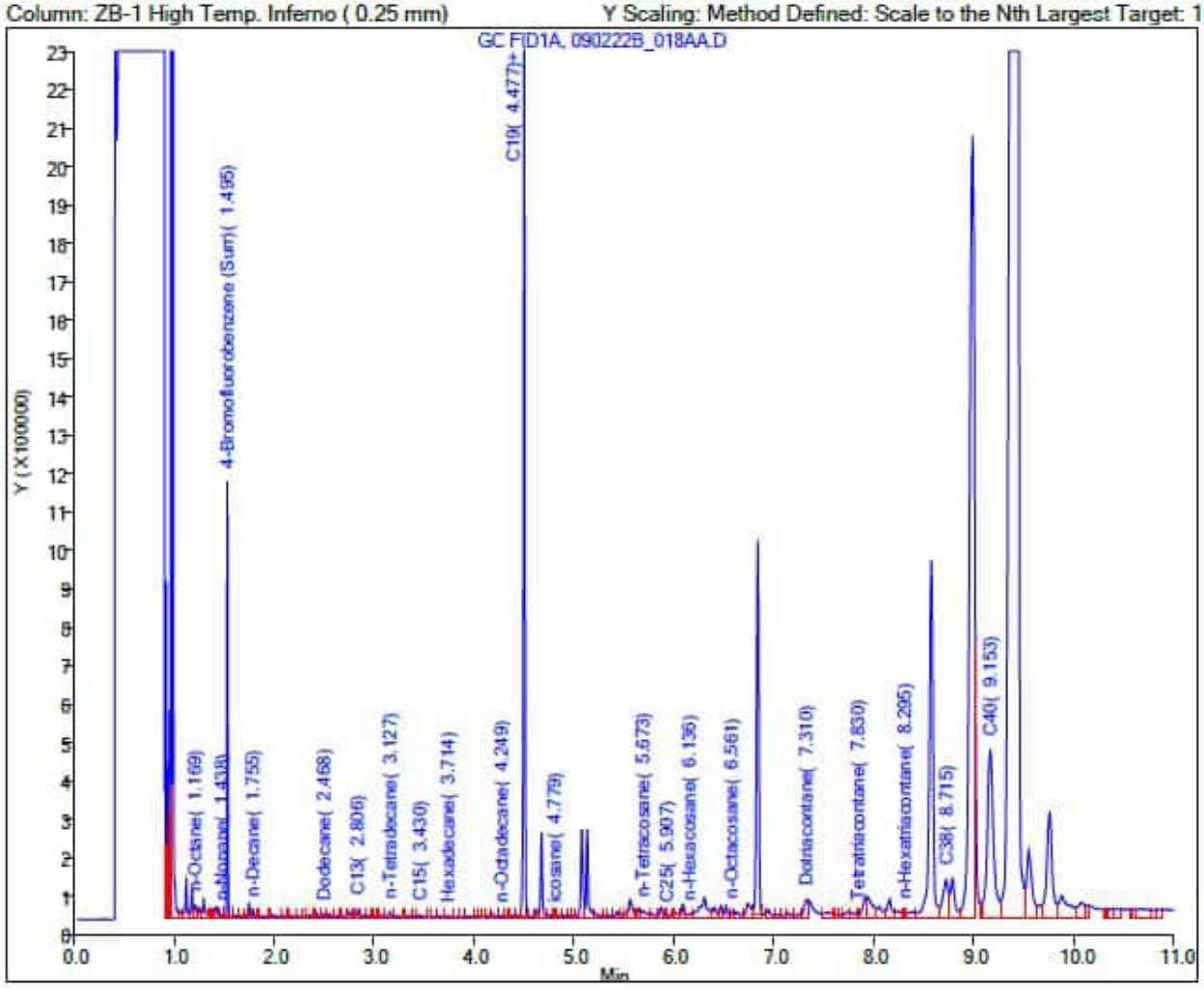
Results (ug/L): **TPH-d (C10 to C24) 90 J** **TPH-o (C24 to C40) 730 J**

Report Date: 06-Sep-2022 14:17:53 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_018AA.D				
Injection Date:	03-Sep-2022 04:01:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-1-A	Lab Sample ID:	580-117347-1		
Client ID:	RHMW2254-01-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 UJ** **TPH-o SGC (C24 to C40) 660 J**

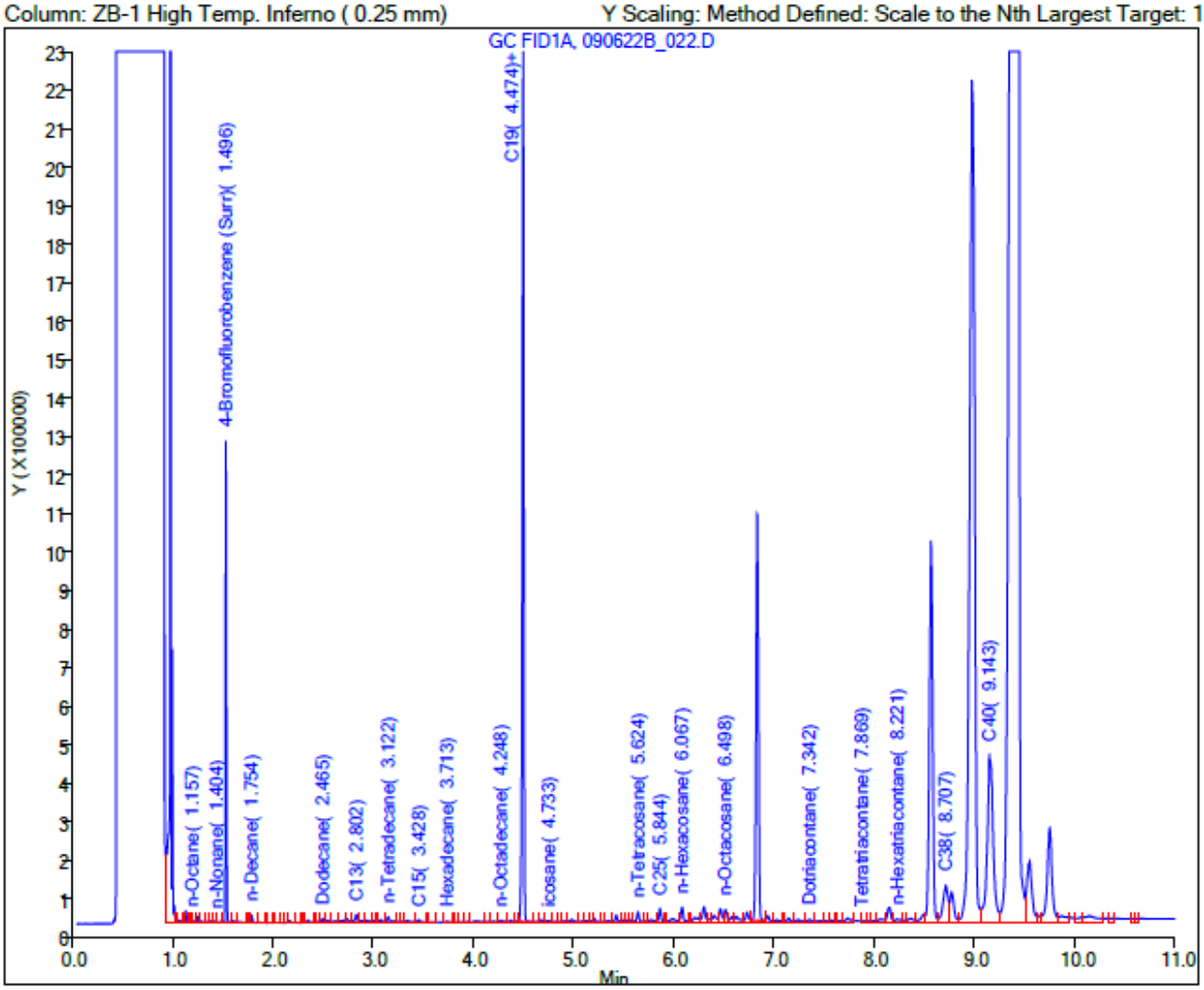
Report Date: 07-Sep-2022 13:40:17 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220906-84685.b\090622B_022.D

Injection Date:	07-Sep-2022 05:07:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-1-B	Lab Sample ID:	580-117347-1		
Client ID:	RHMW2254-01-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2208WK4 Sample Date: 8/25/2022
Lab: Eurofins Seattle

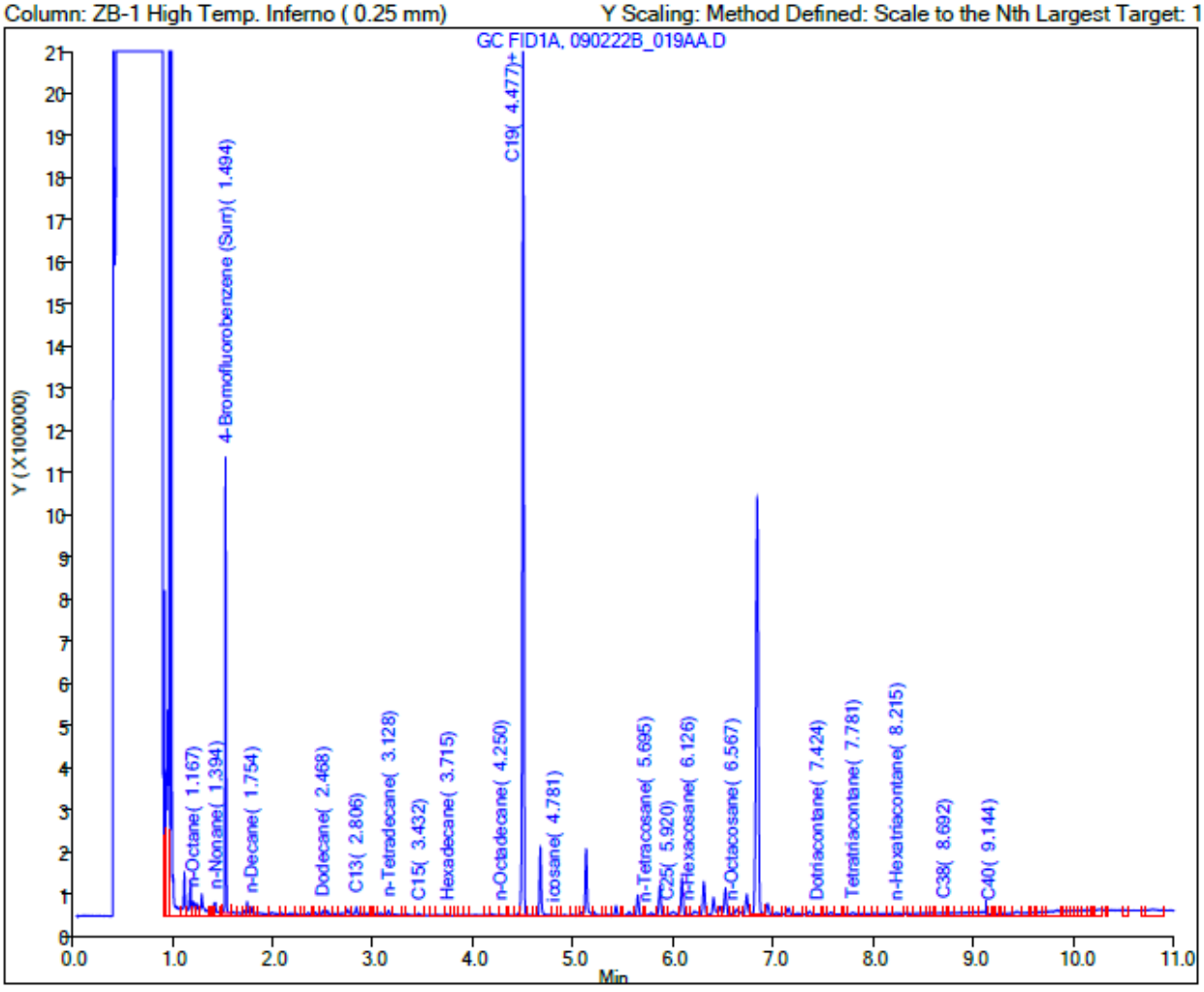
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 06-Sep-2022 14:17:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_019AA.D				
Injection Date:	03-Sep-2022 04:21:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-4-A	Lab Sample ID:	580-117347-4		
Client ID:	RHMW2254-01-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	76
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2209WK1 Sample Date: 9/8/2022
Lab: Eurofins Seattle

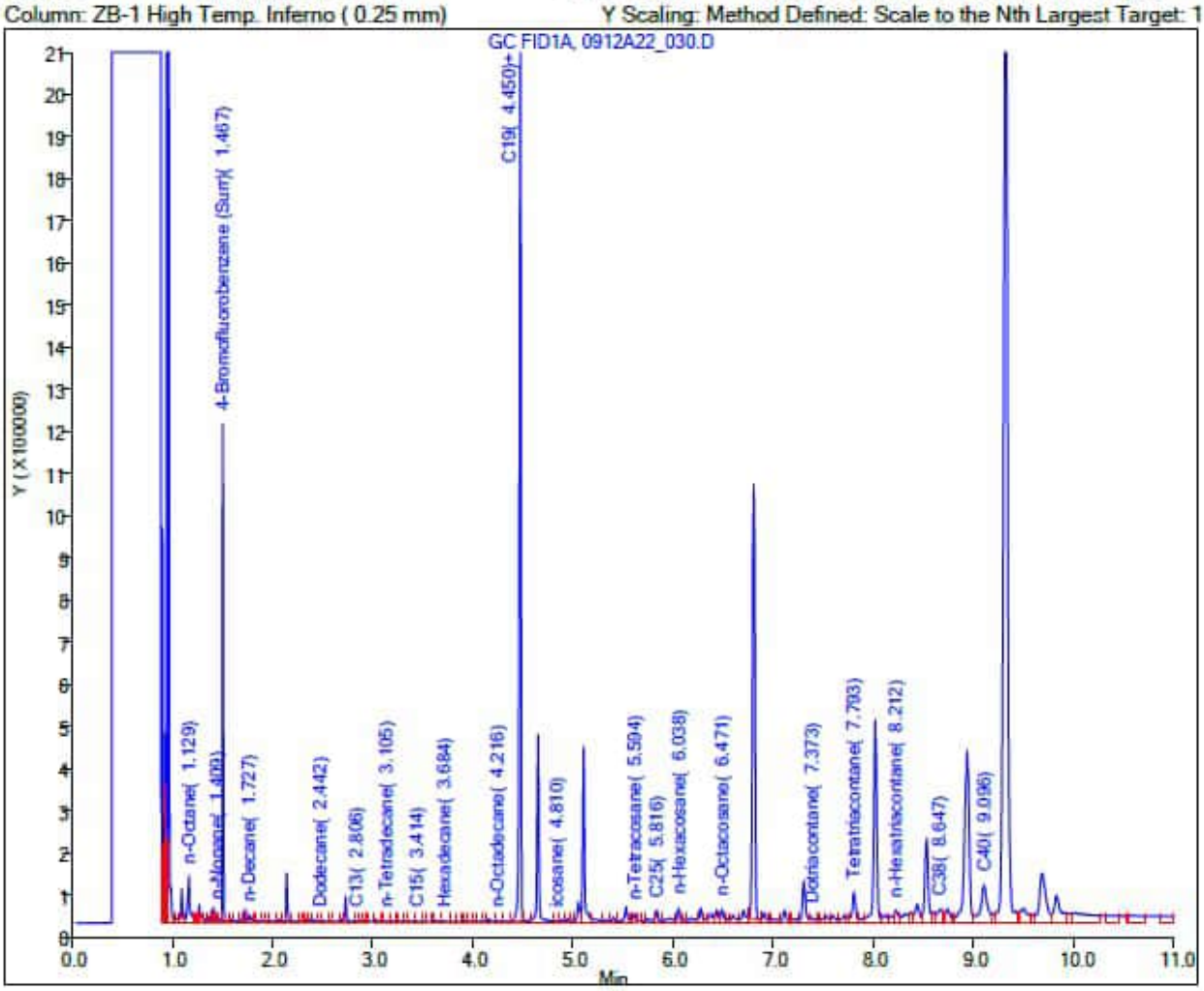
Results (ug/L): **TPH-d (C10 to C24) 68 J** **TPH-o (C24 to C40) 250 J**

Report Date: 13-Sep-2022 12:03:34 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_030.D				
Injection Date:	13-Sep-2022 03:03:30	Instrument ID:	TAC020		
Lims ID:	580-117706-F-13-A	Lab Sample ID:	580-117706-13		
Client ID:	RHMW2254-01-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



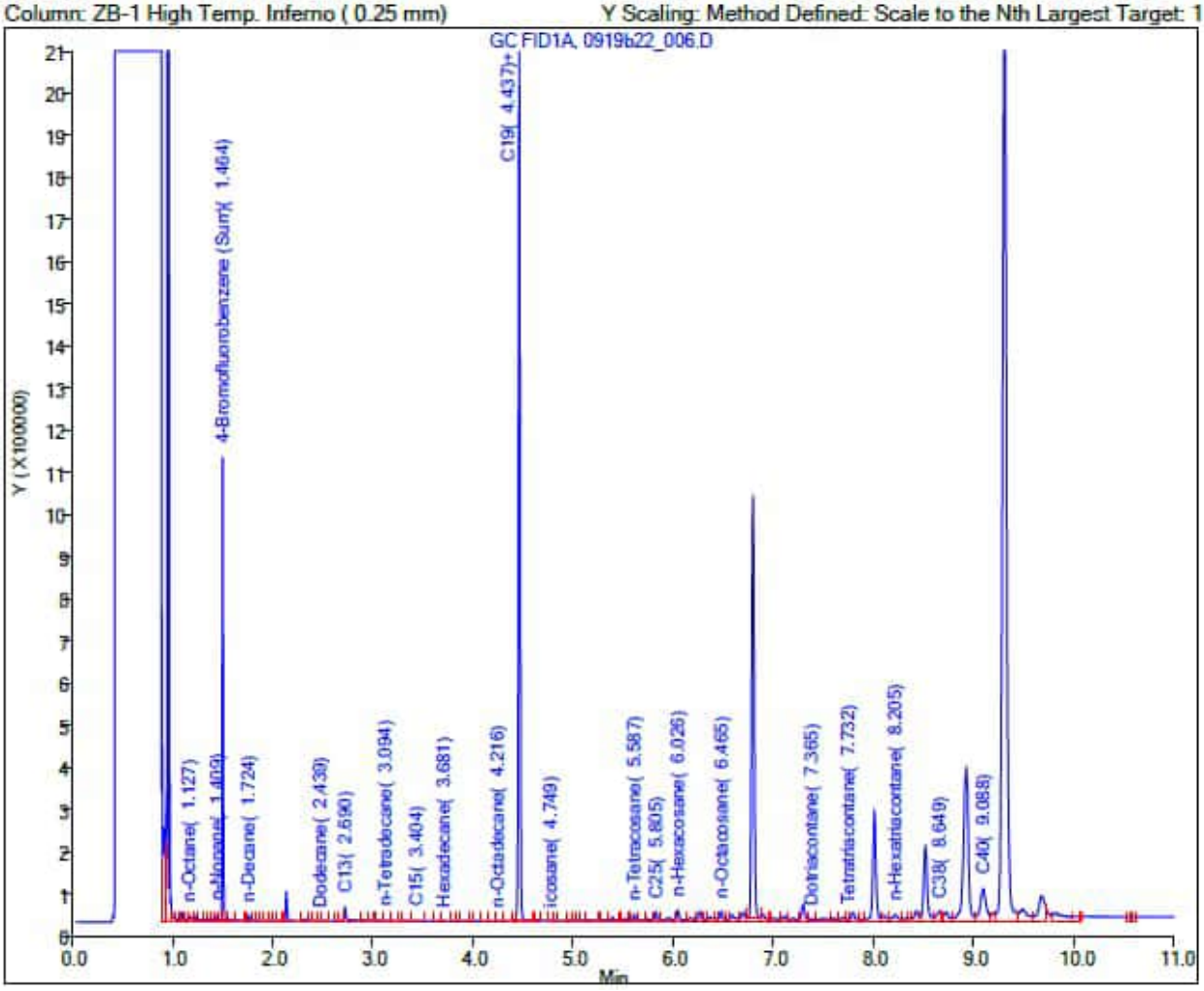
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 20-Sep-2022 11:19:59 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_006.D				
Injection Date:	19-Sep-2022 17:40:30	Instrument ID:	TAC020		
Lims ID:	580-117706-F-13-B	Lab Sample ID:	580-117706-13		
Client ID:	RHMW2254-01-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2209WK1 Sample Date: 9/8/2022
Lab: Eurofins Seattle

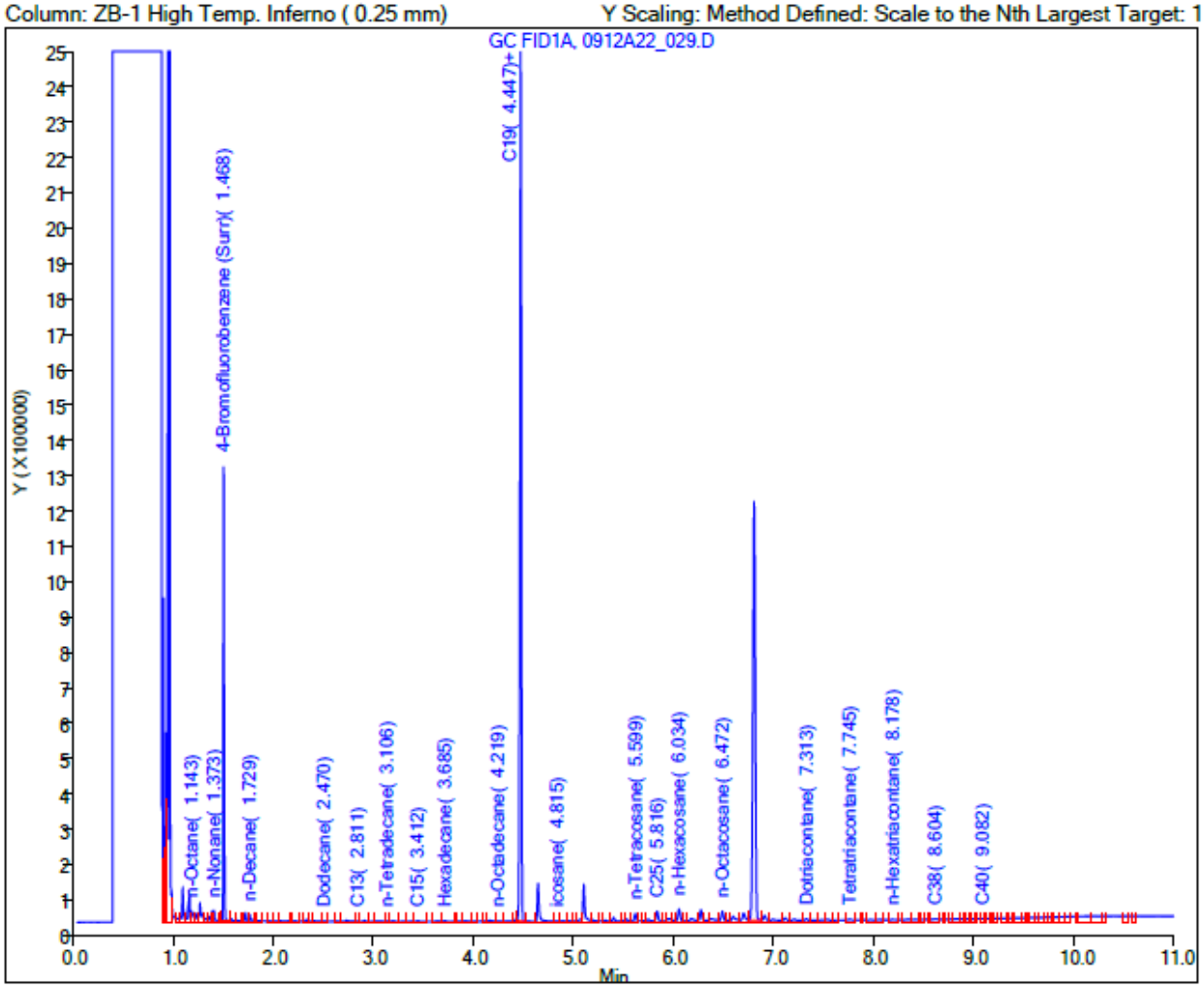
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 13-Sep-2022 12:03:27 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_029.D				
Injection Date:	13-Sep-2022 02:43:30	Instrument ID:	TAC020		
Lims ID:	580-117706-E-11-A	Lab Sample ID:	580-117706-11		
Client ID:	RHMW2254-01-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2209WK4 Sample Date: 9/29/2022
Lab: Eurofins Seattle

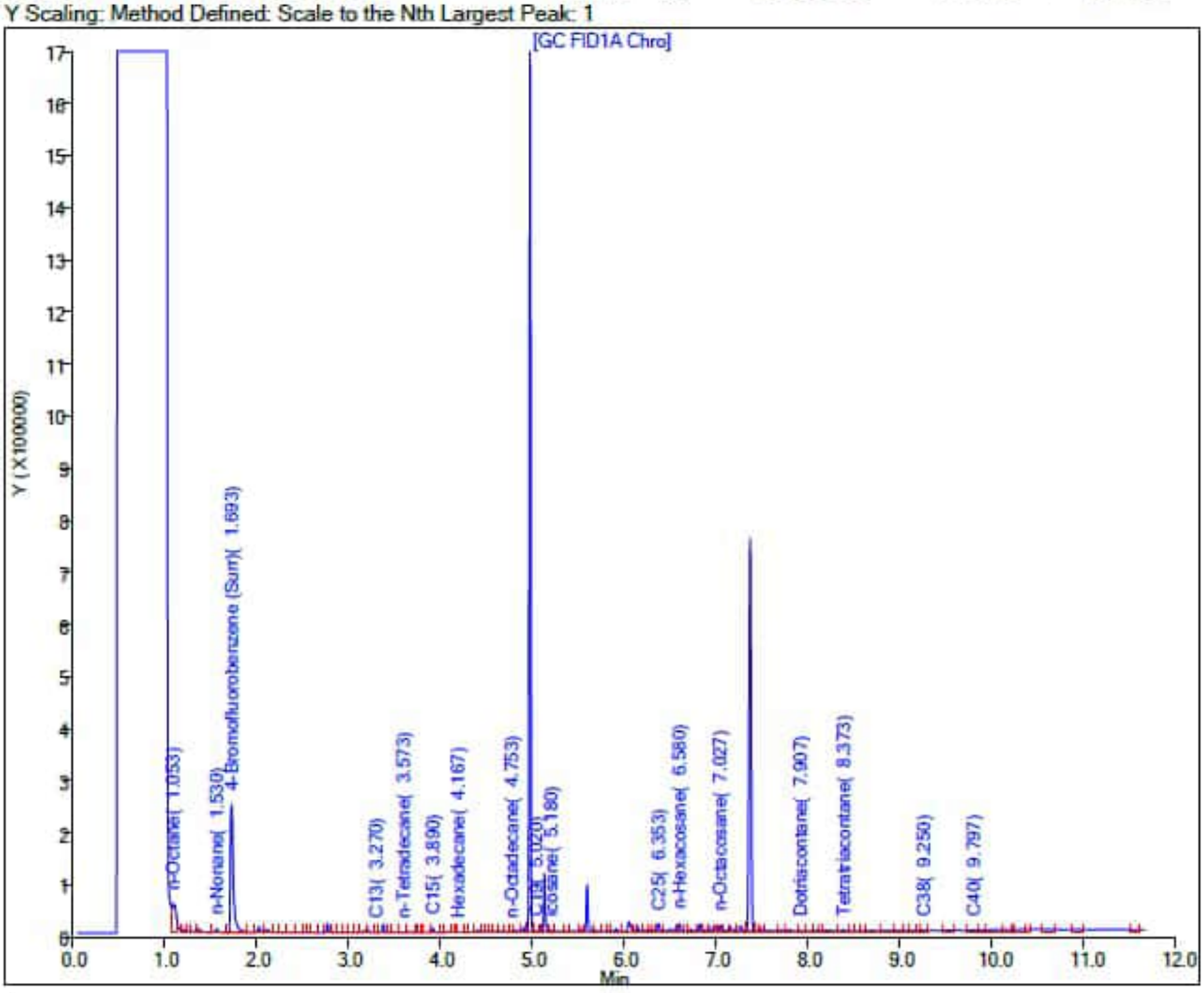
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 05-Oct-2022 12:40:25 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A050.D				
Injection Date:	05-Oct-2022 01:46:46	Instrument ID:	TAC129		
Lims ID:	580-118383-D-7-A	Lab Sample ID:	580-118383-7		
Client ID:	RHMW2254-01-WGN01B-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2209WK4 Sample Date: 9/29/2022
Lab: Eurofins Seattle

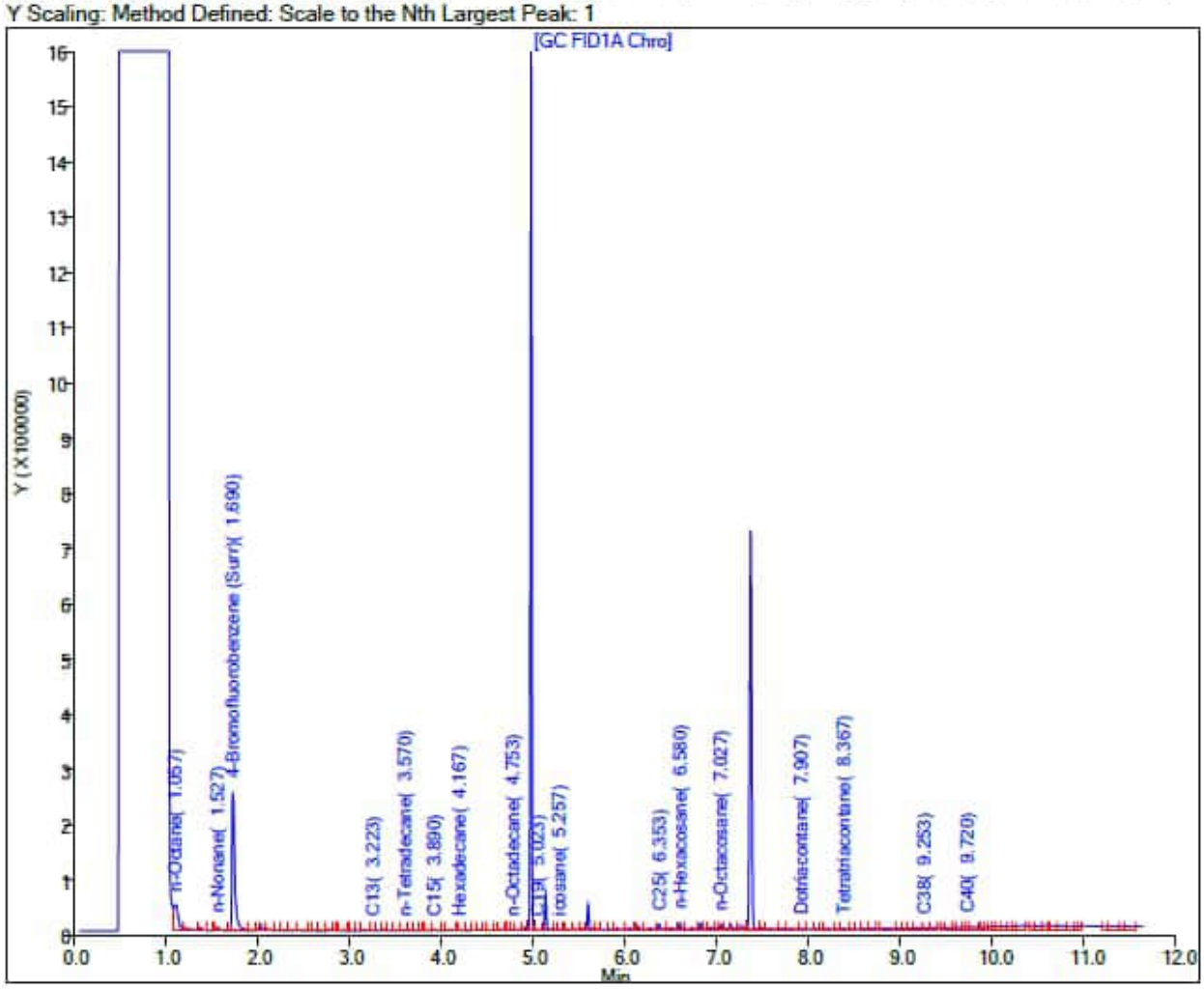
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 05-Oct-2022 12:40:18 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A046.D				
Injection Date:	05-Oct-2022 01:09:06	Instrument ID:	TAC129		
Lims ID:	580-118383-D-1-A	Lab Sample ID:	580-118383-1		
Client ID:	RHMW2254-01-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

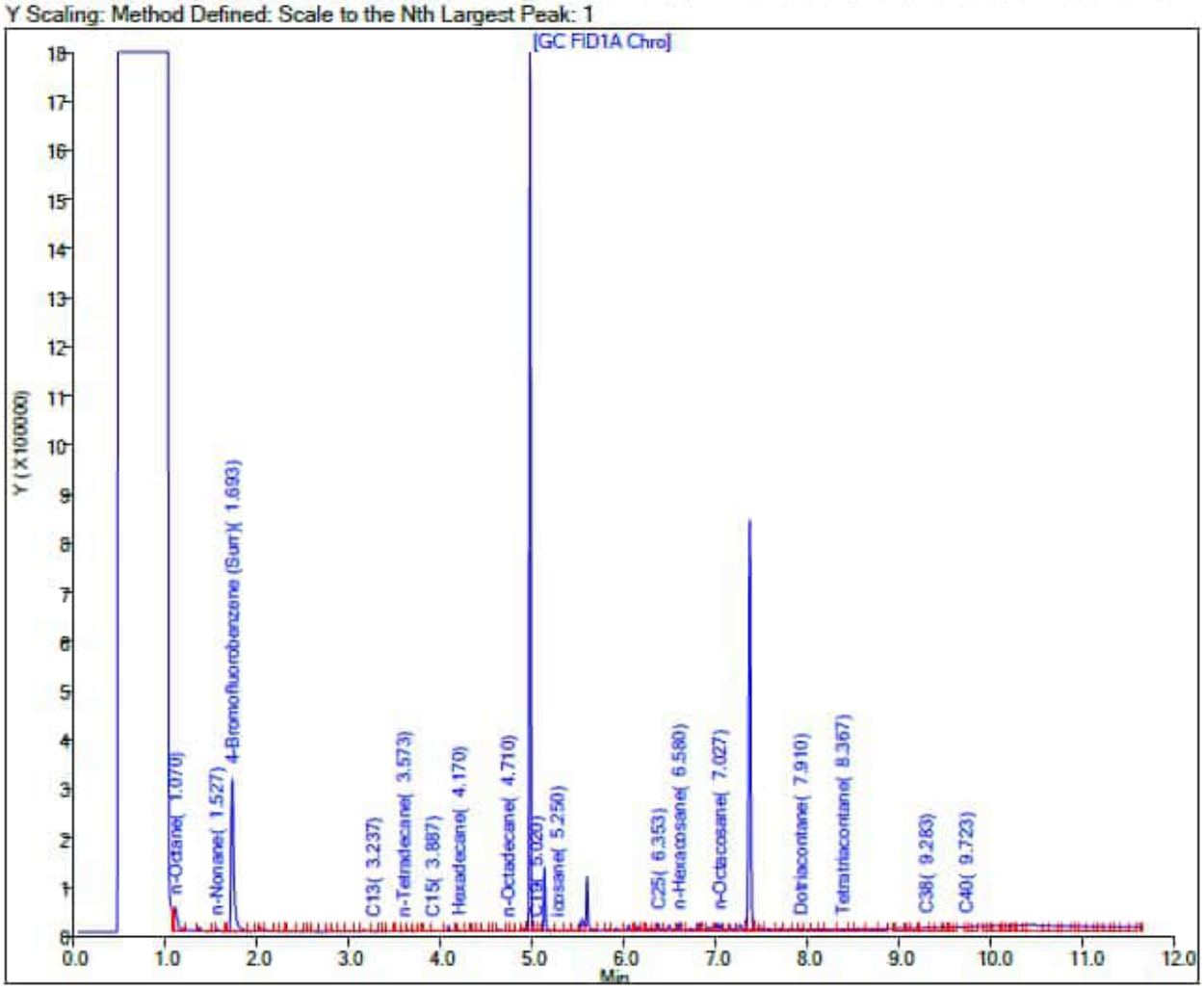
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:57:34 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A044.D				
Injection Date:	11-Oct-2022 23:44:29	Instrument ID:	TAC129		
Lims ID:	580-118644-E-14-A	Lab Sample ID:	580-118644-14		
Client ID:	RHMW2254-01-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

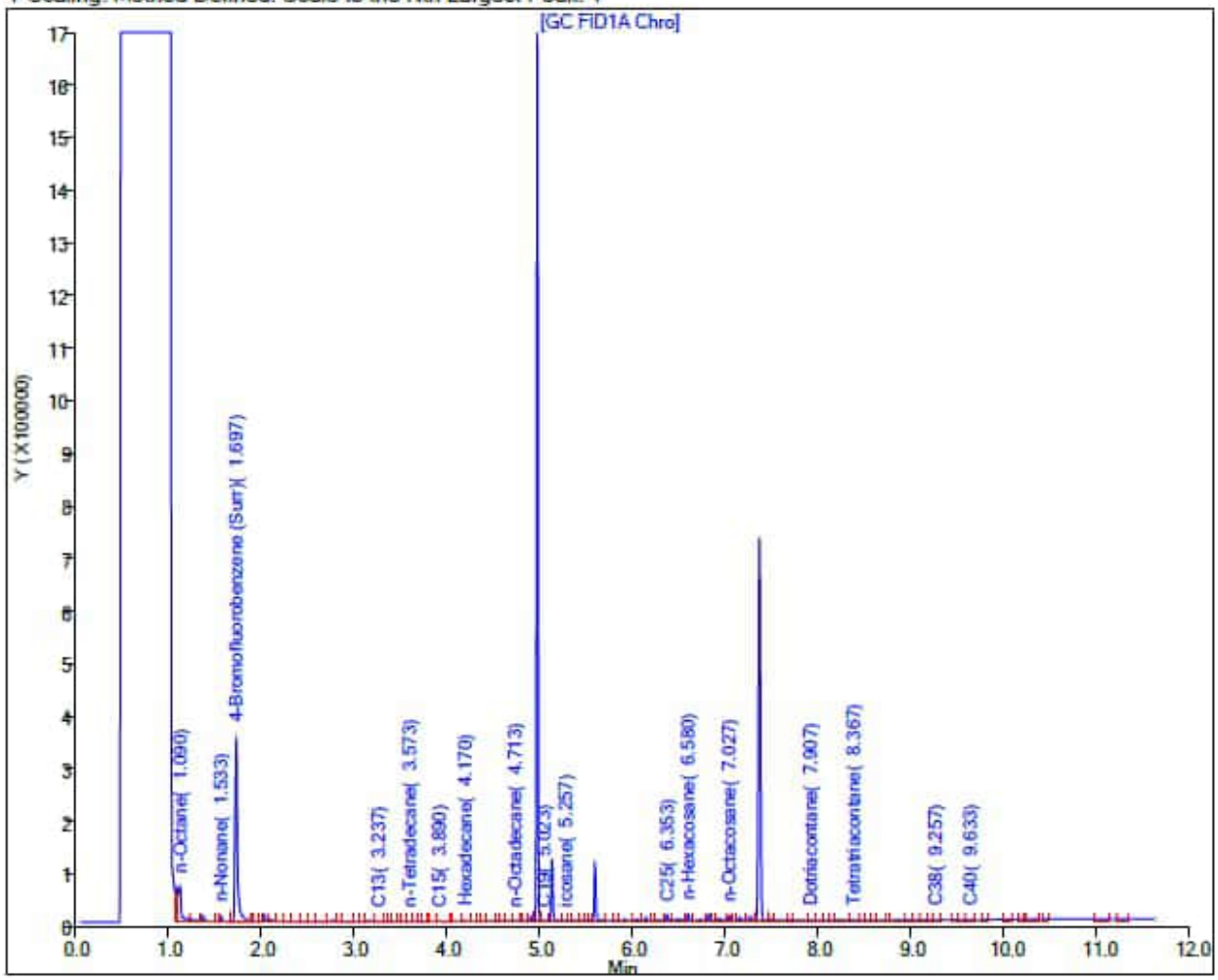
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:57:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A038.D				
Injection Date:	11-Oct-2022 22:48:19	Instrument ID:	TAC129		
Lims ID:	580-118644-E-9-A	Lab Sample ID:	580-118644-9		
Client ID:	RHMW2254-01-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2210WK2 Sample Date: 10/16/2022
Lab: Eurofins Seattle

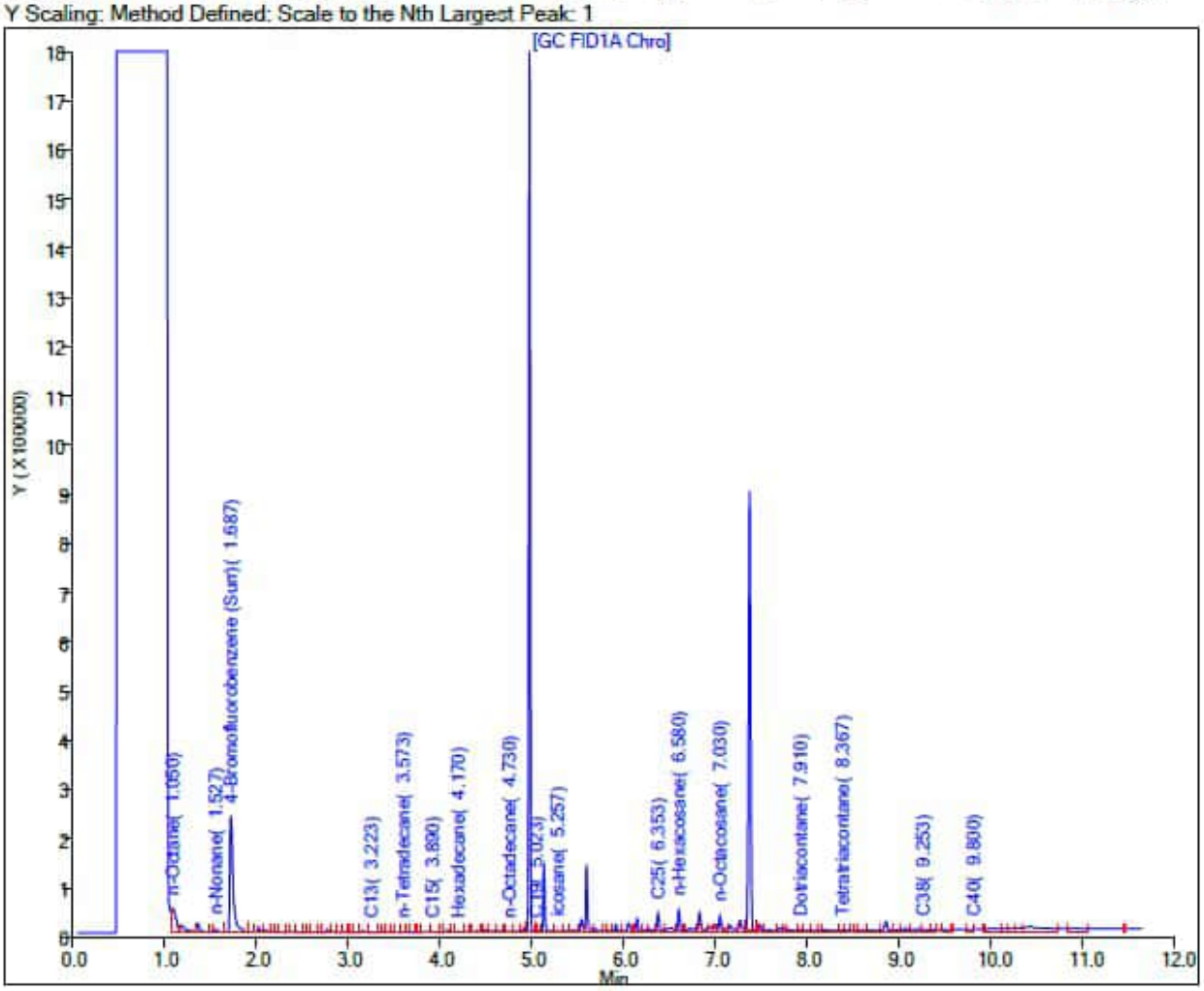
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:38:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A046.D				
Injection Date:	22-Oct-2022 00:30:30	Instrument ID:	TAC129		
Lims ID:	580-118941-N-1-A	Lab Sample ID:	580-118941-1		
Client ID:	RHMW2254-01-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2210WK2 Sample Date: 10/16/2022
Lab: Eurofins Seattle

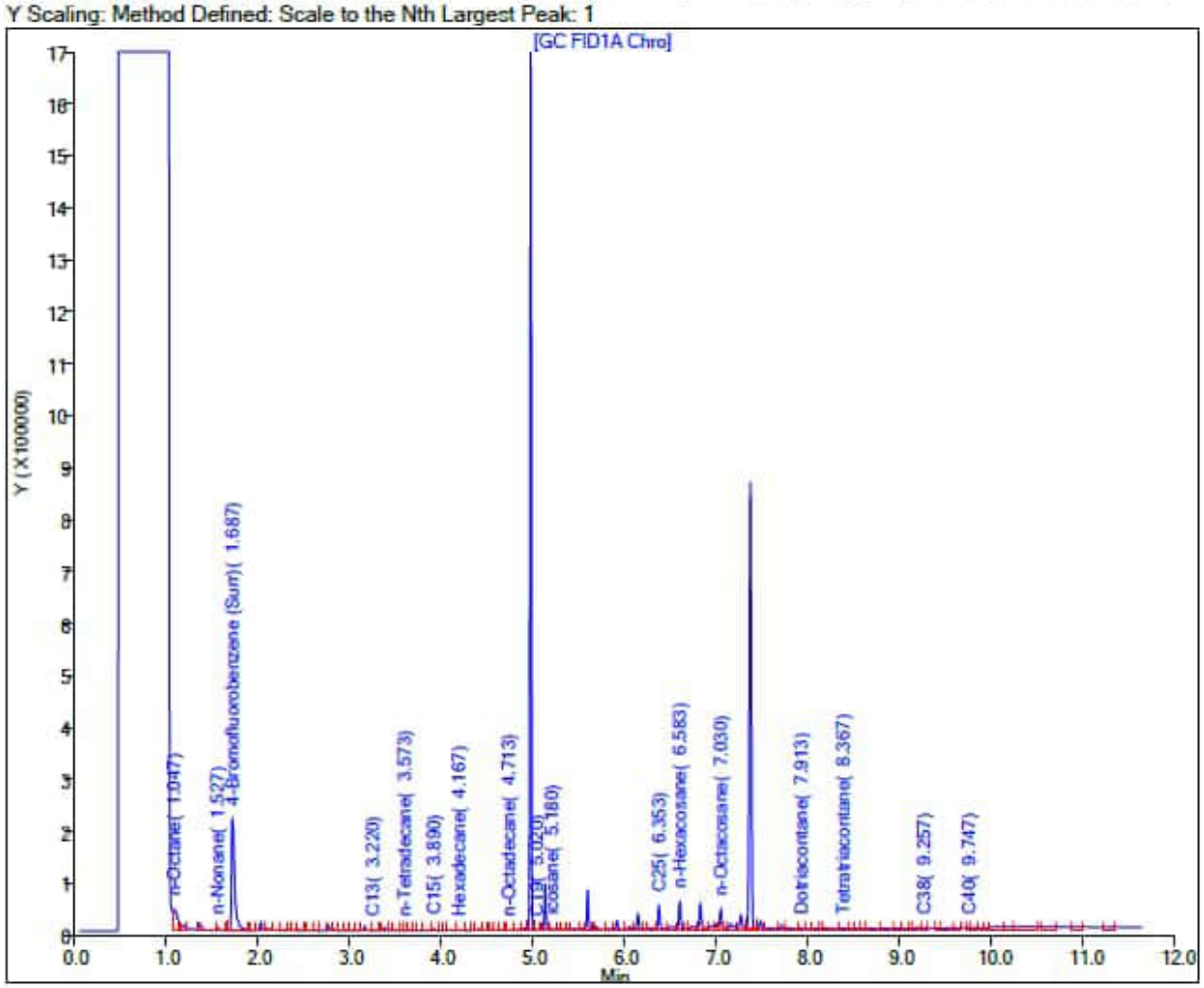
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 24-Oct-2022 13:38:19 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432 b\102122A048.D				
Injection Date:	22-Oct-2022 00:49:06	Instrument ID:	TAC129		
Lims ID:	580-118941-N-7-A	Lab Sample ID:	580-118941-7		
Client ID:	RHMW2254-01-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

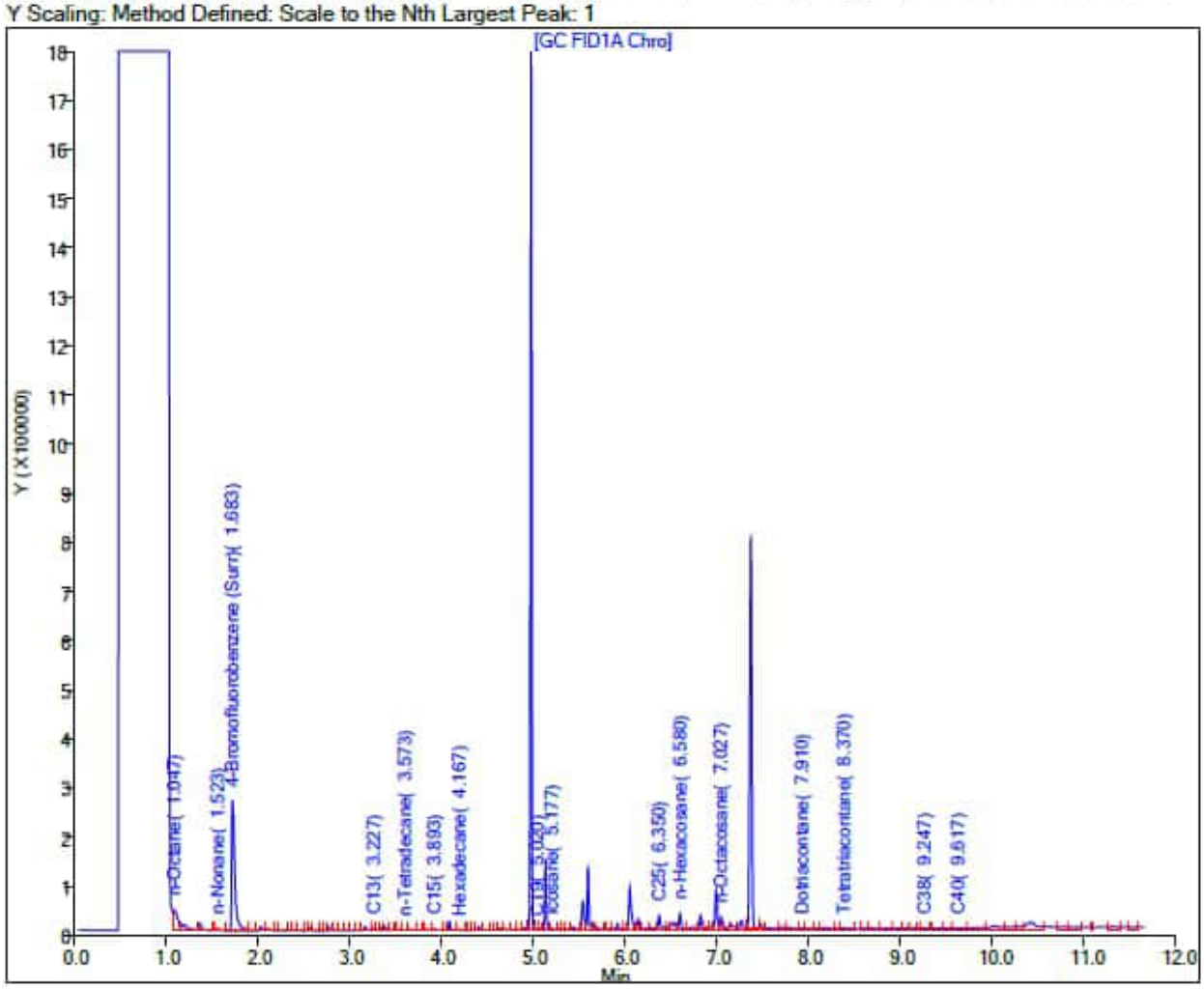
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Oct-2022 12:12:28 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A036.D				
Injection Date:	24-Oct-2022 22:56:47	Instrument ID:	TAC129		
Lims ID:	580-118961-N-5-A	Lab Sample ID:	580-118961-5		
Client ID:	RHMW2254-01-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

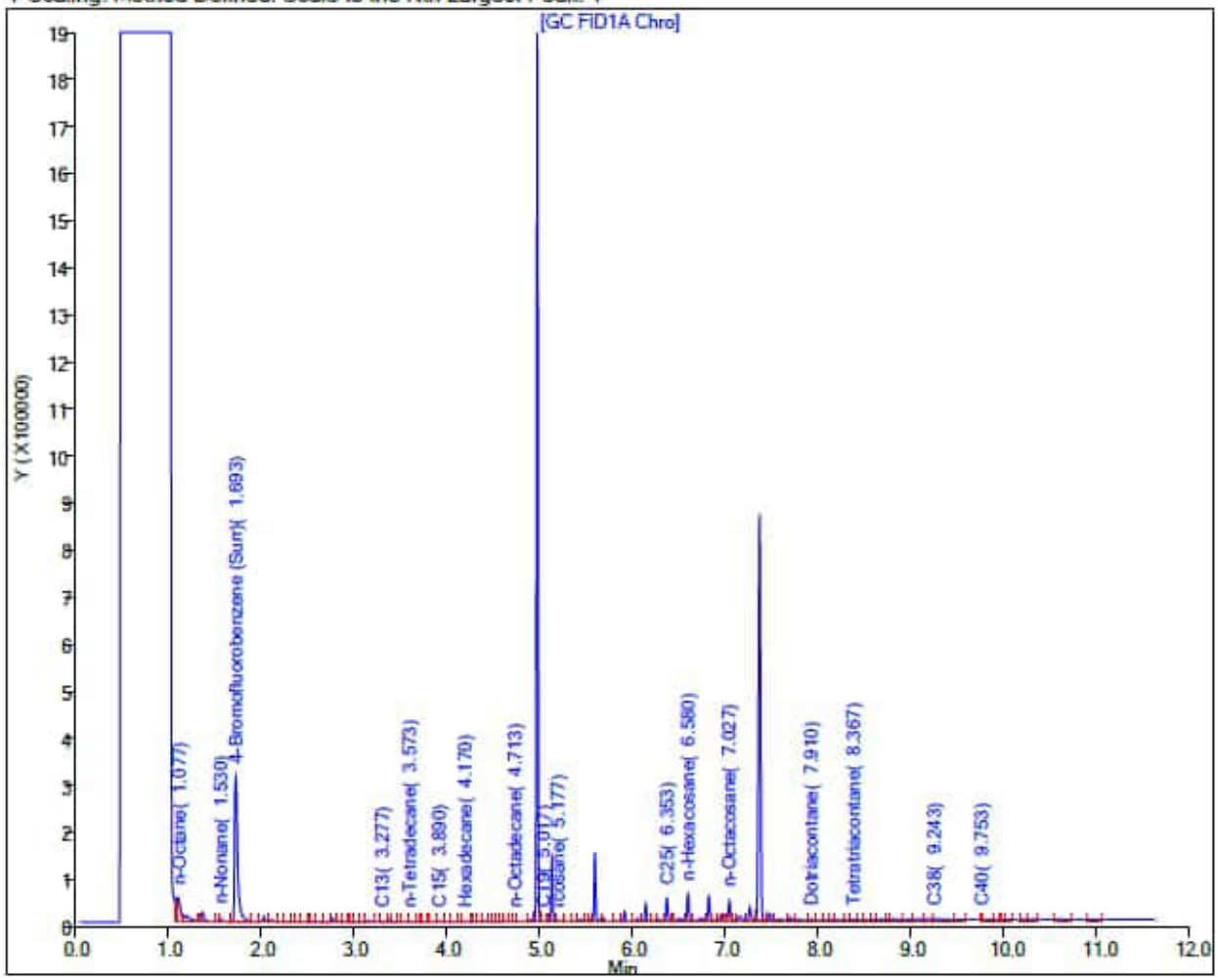
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Oct-2022 12:12:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A042.D				
Injection Date:	24-Oct-2022 23:52:33	Instrument ID:	TAC129		
Lims ID:	580-118961-O-14-A	Lab Sample ID:	580-118961-14		
Client ID:	RHMW2254-01-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

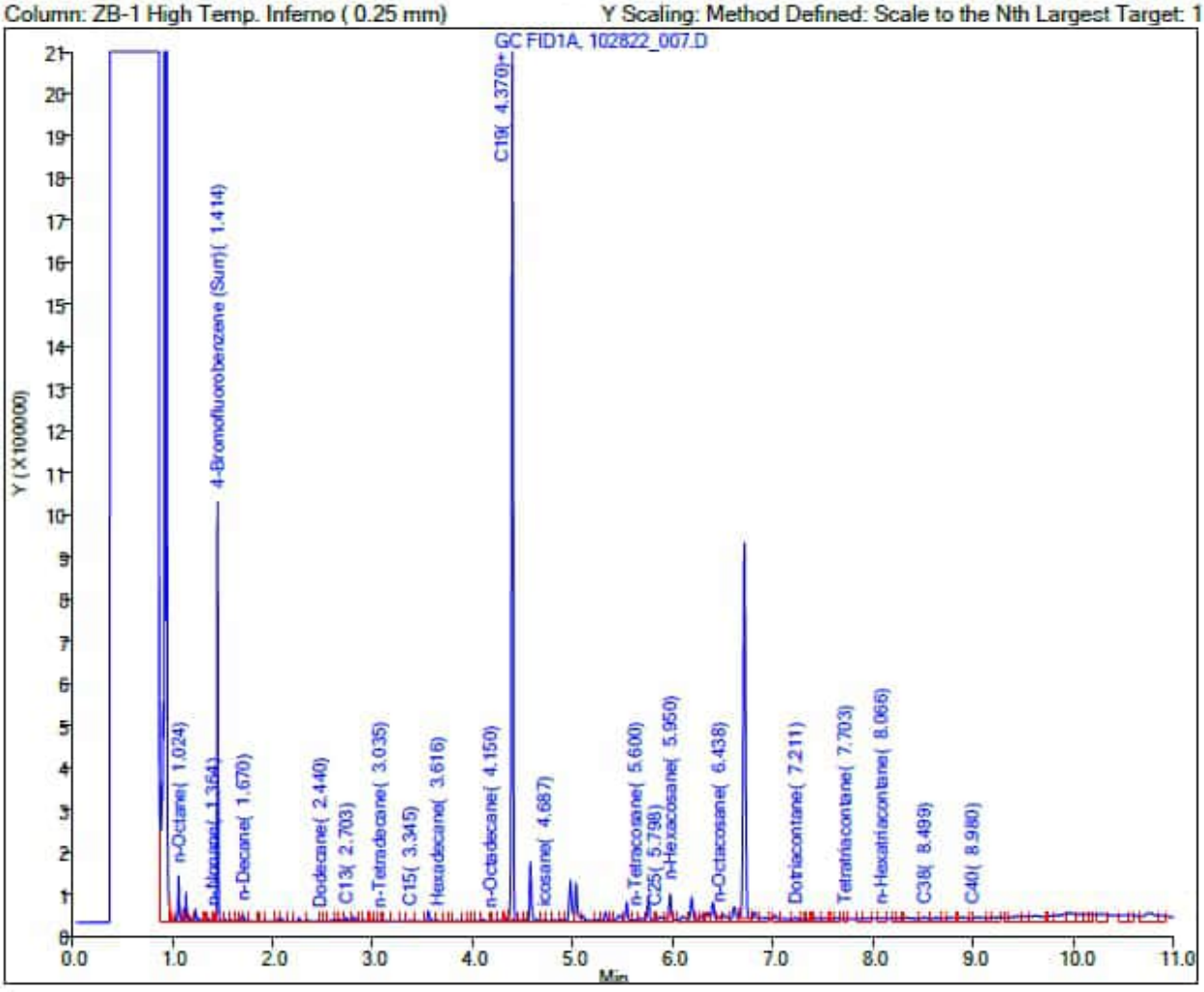
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:31:47 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221028-85528.b\102822_007.D				
Injection Date:	28-Oct-2022 17:02:30	Instrument ID:	TAC020		
Lims ID:	580-119078-F-21-A	Lab Sample ID:	580-119078-21		
Client ID:	RHMW2254-01-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02LF-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

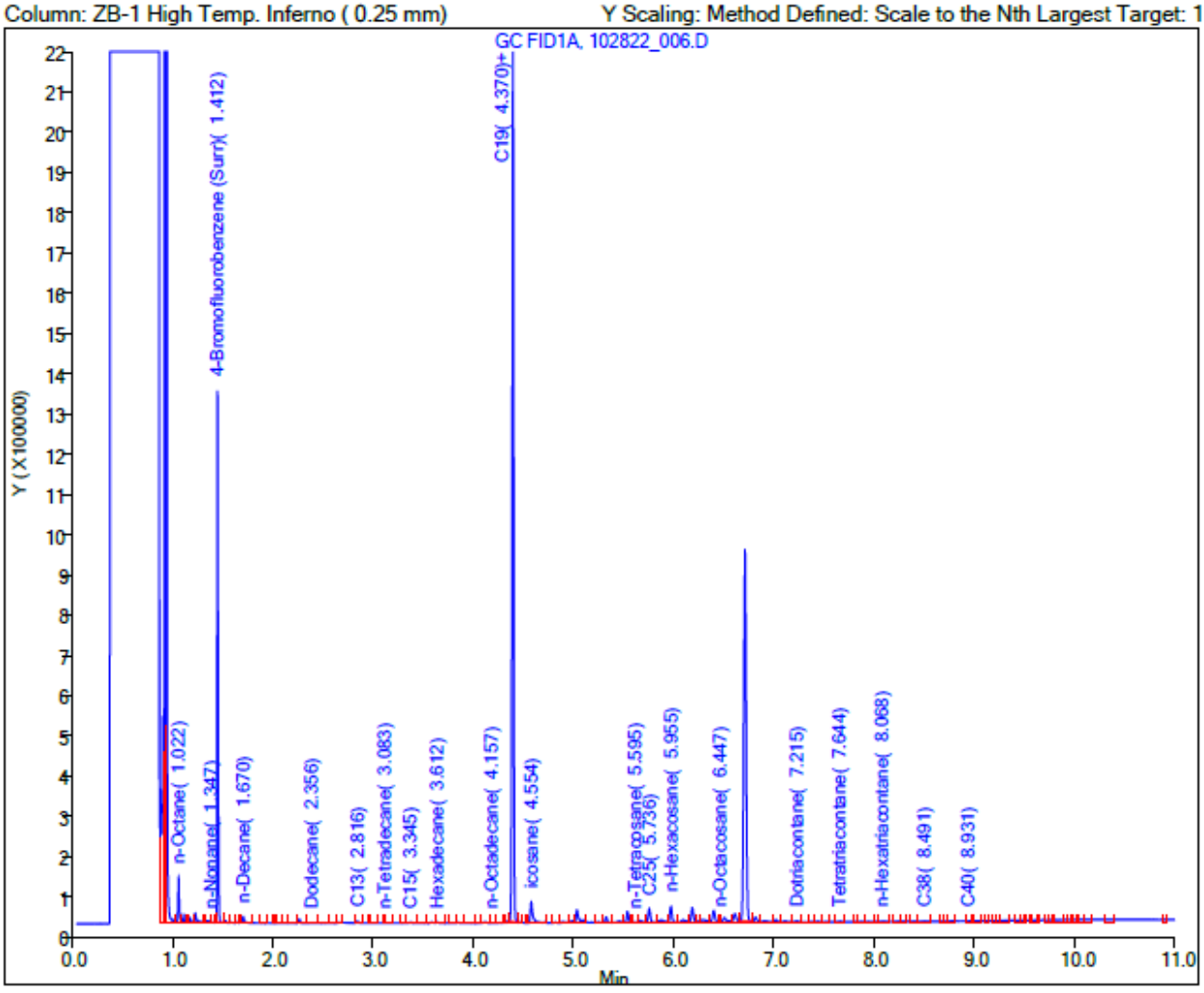
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:31:43 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221028-85528.b\102822_006.D				
Injection Date:	28-Oct-2022 16:42:30	Instrument ID:	TAC020		
Lims ID:	580-119078-E-7-A	Lab Sample ID:	580-119078-7		
Client ID:	RHMW2254-01-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

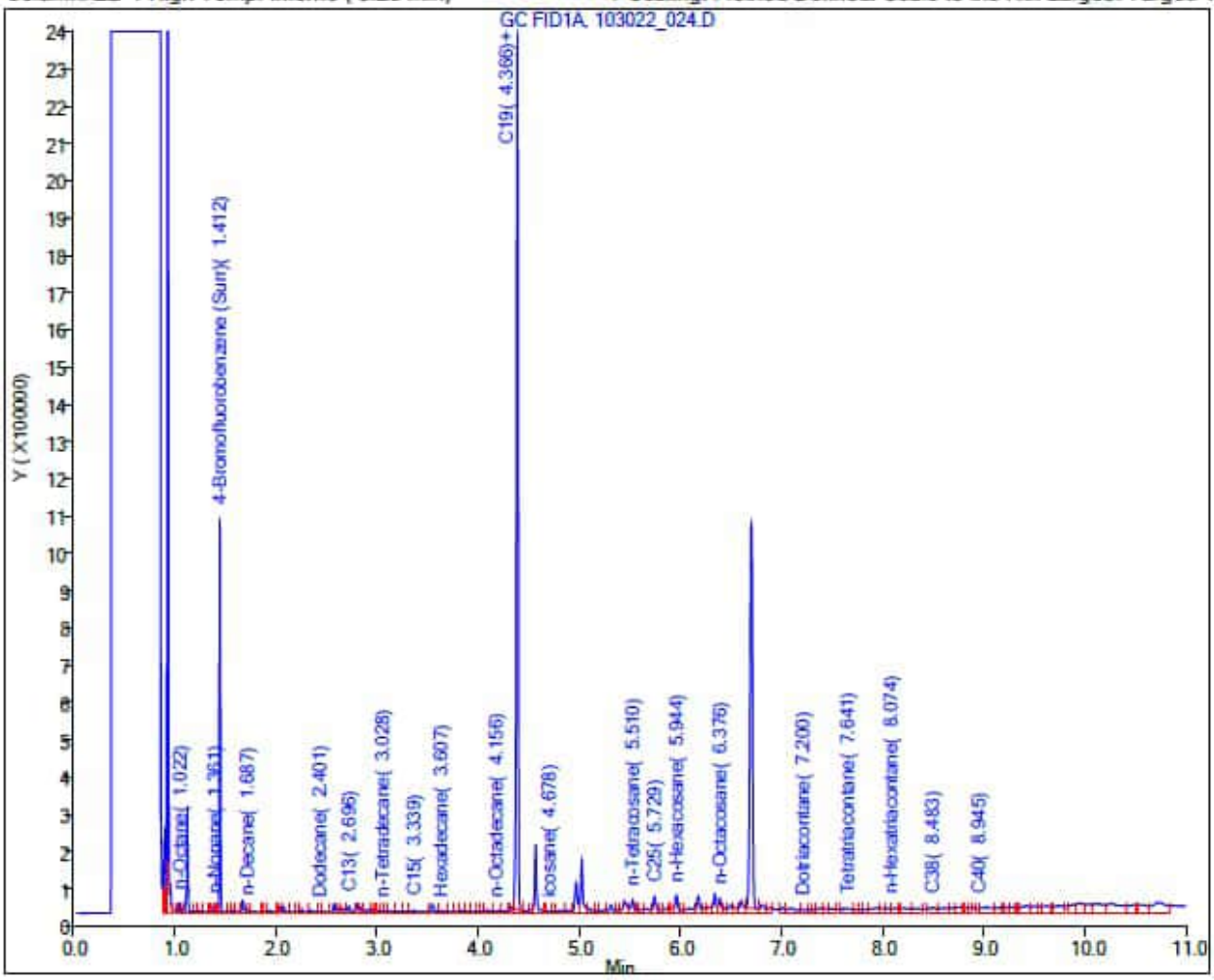
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Nov-2022 13:47:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_024.D				
Injection Date:	01-Nov-2022 00:51:30	Instrument ID:	TAC020		
Lims ID:	580-119316-N-13-A	Lab Sample ID:	580-119316-13		
Client ID:	RHMW2254-01-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	23	Worklist Smp#:	73
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

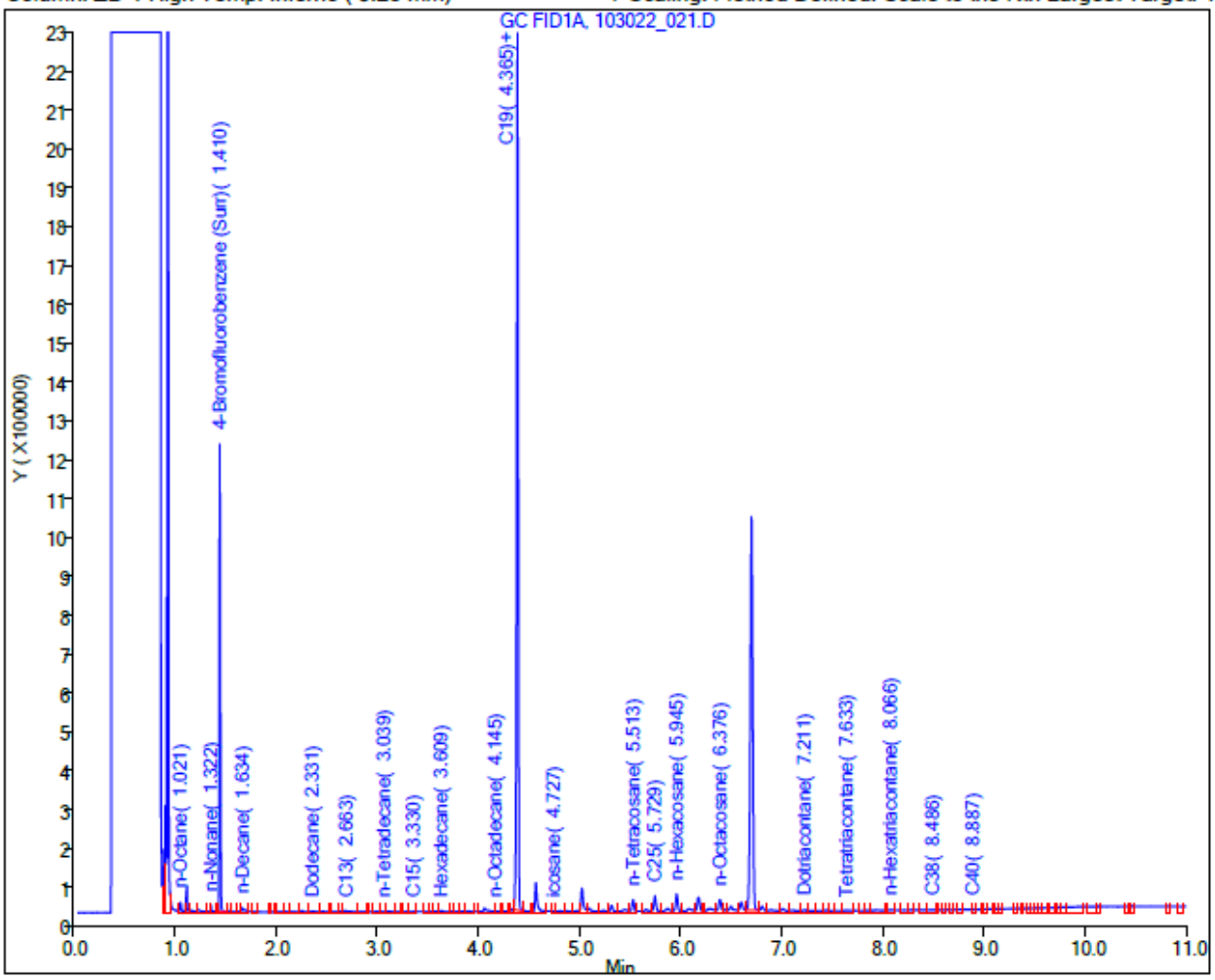
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Nov-2022 13:46:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_021.D				
Injection Date:	31-Oct-2022 23:50:30	Instrument ID:	TAC020		
Lims ID:	580-119316-O-9-A	Lab Sample ID:	580-119316-9		
Client ID:	RHMW2254-01-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02B-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

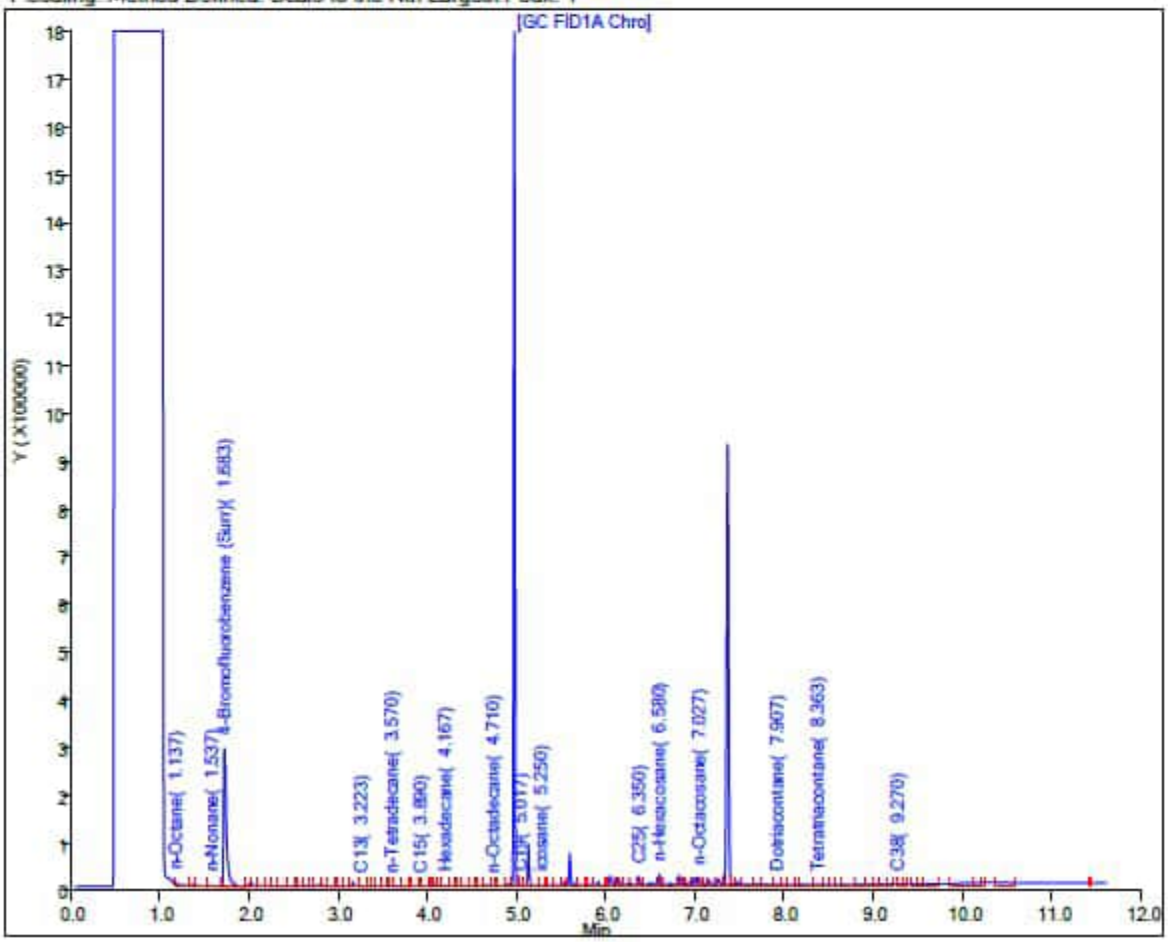
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:12:06 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A044.D		
Injection Date:	02-Nov-2022 23:44:52	Instrument ID:	TAC129
Lims ID:	580-119363-C-7-A	Lab Sample ID:	580-119363-7
Client ID:	RHMW2254-01-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02LF-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

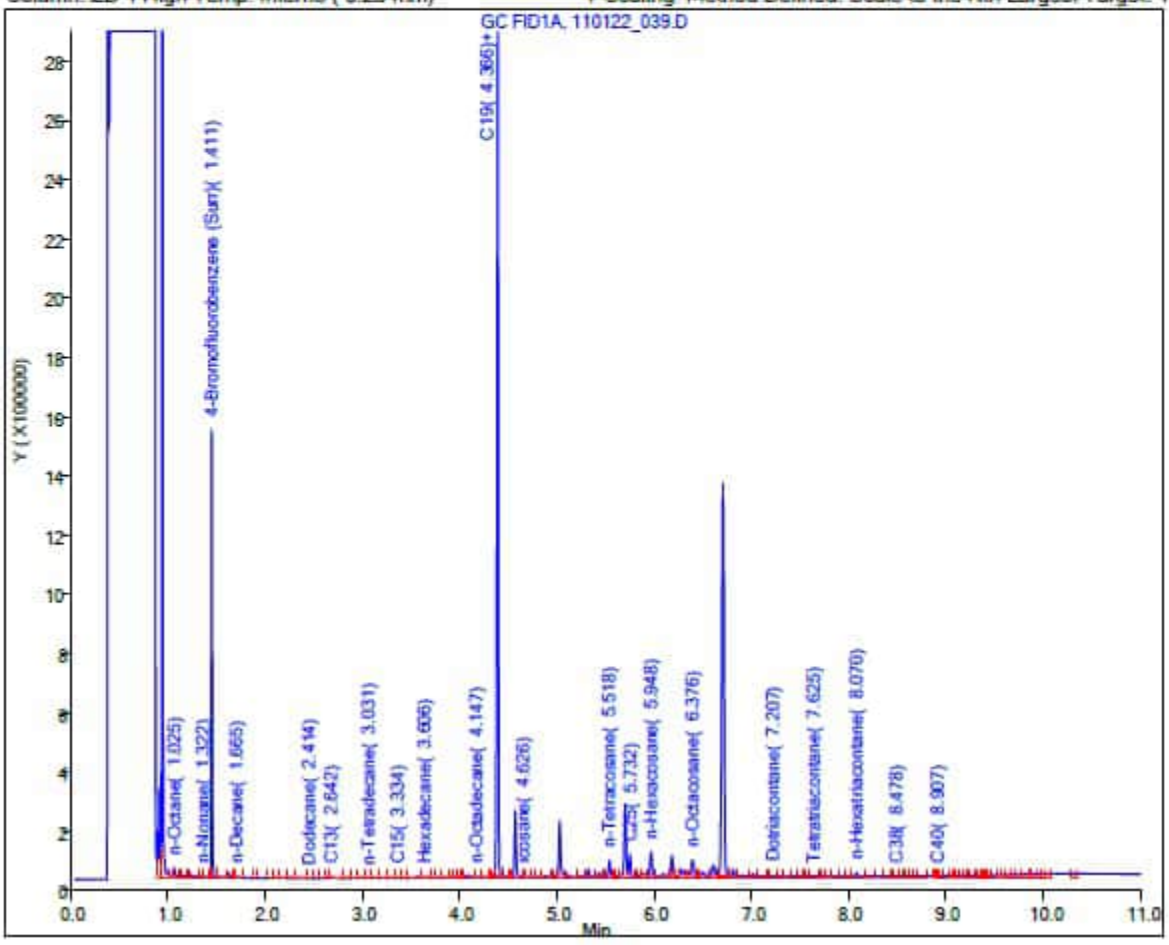
Results (ug/L): **TPH-d (C10 to C24) <97 U** **TPH-o (C24 to C40) <290 U**

Report Date: 02-Nov-2022 14:00:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_039.D		
Injection Date:	02-Nov-2022 04:24:30	Instrument ID:	TAC020
Lims ID:	580-119363-D-1-A	Lab Sample ID:	580-119363-1
Client ID:	RHMW2254-01-WGN02LF-2210WK4		
Operator ID:	DH	ALS Bottle#:	38 Worklist Smp#: 76
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

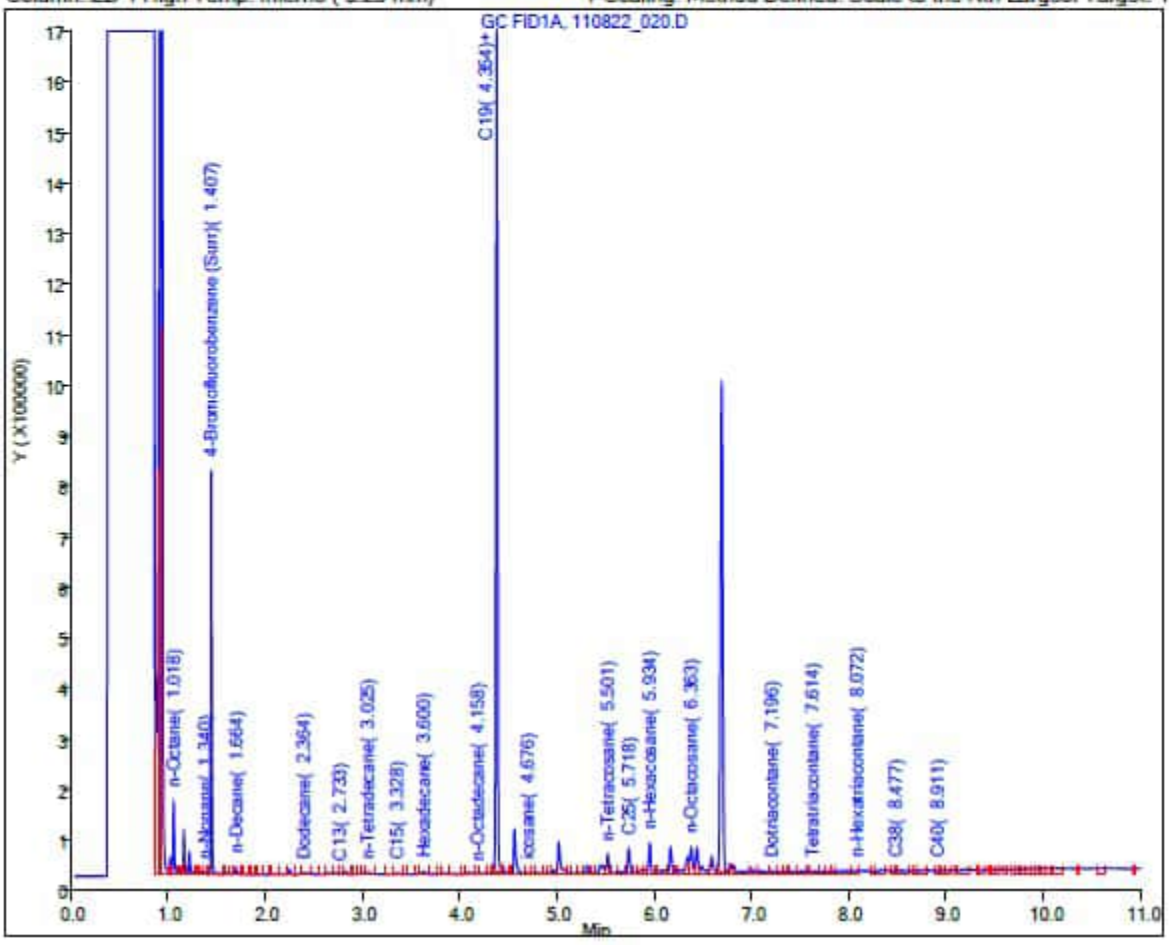
Results (ug/L): **TPH-d (C10 to C24) <78 U** **TPH-o (C24 to C40) <230 U**

Report Date: 09-Nov-2022 13:54:48 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_020.D				
Injection Date:	08-Nov-2022 23:53:30	Instrument ID:	TAC020		
Lims ID:	580-119528-O-7-A	Lab Sample ID:	580-119528-7		
Client ID:	RHMW2254-01-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

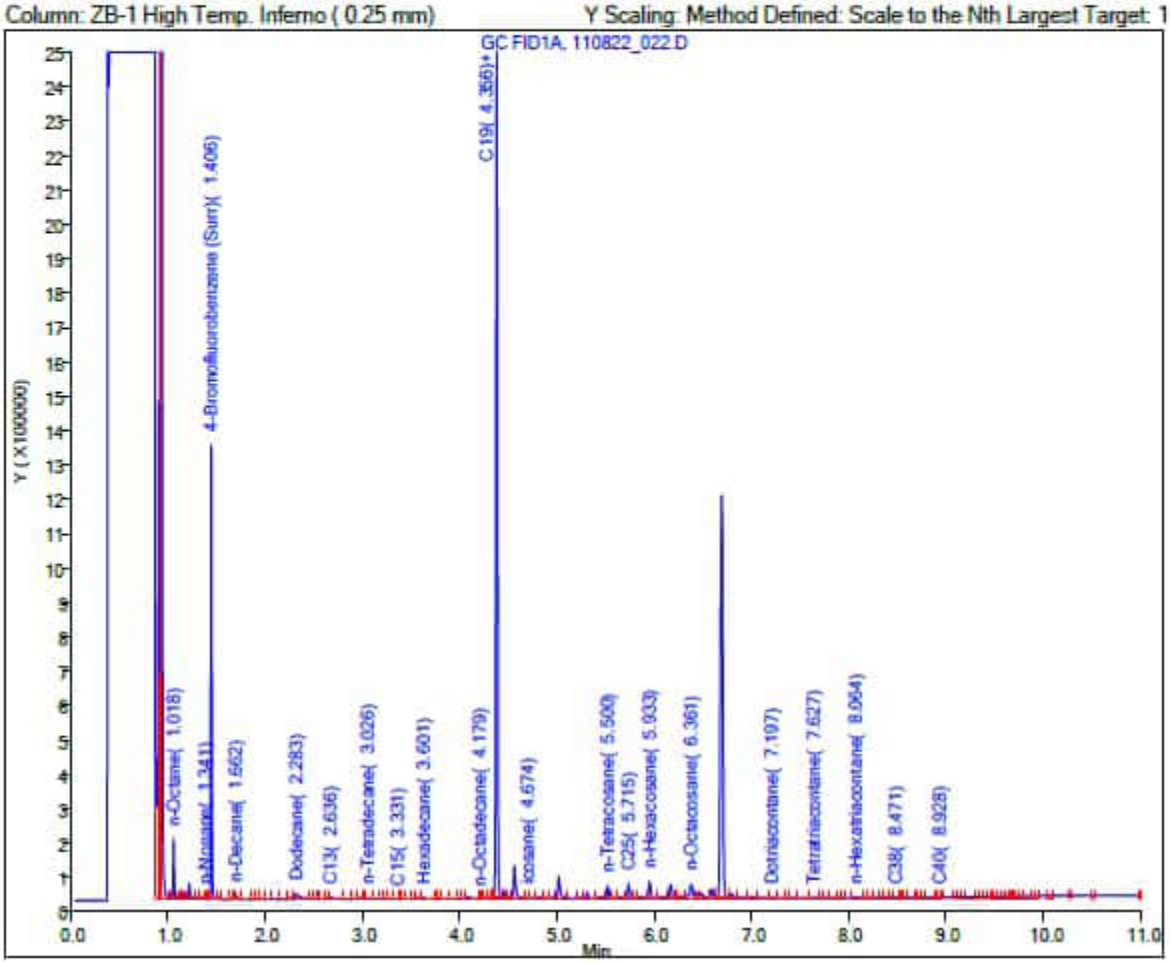
Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01LF-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:55:21 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_022.D				
Injection Date:	09-Nov-2022 00:33:30	Instrument ID:	TAC020		
Lims ID:	580-119528-N-14-A	Lab Sample ID:	580-119528-14		
Client ID:	RHMW2254-01-WGN01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		
Column: ZB-1 High Temp. Inferno (0.25 mm)		Y Scaling: Method Defined: Scale to the Nth Largest Target: 1			



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02B-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

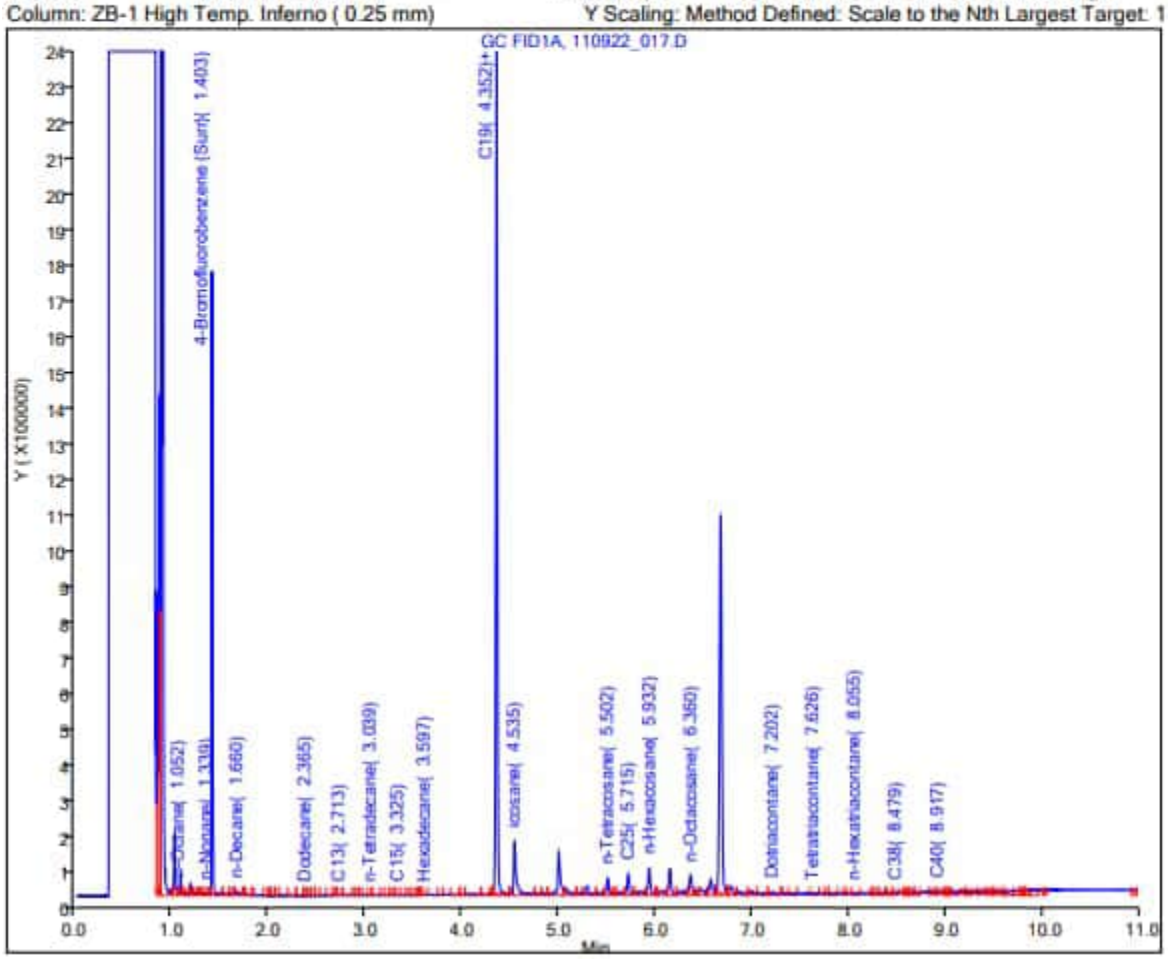
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 10-Nov-2022 14:19:22 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_017.D				
Injection Date:	10-Nov-2022 03:09:30	Instrument ID:	TAC020		
Lims ID:	580-119659-E-9-A	Lab Sample ID:	580-119659-9		
Client ID:	RHMW2254-01-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02LF-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

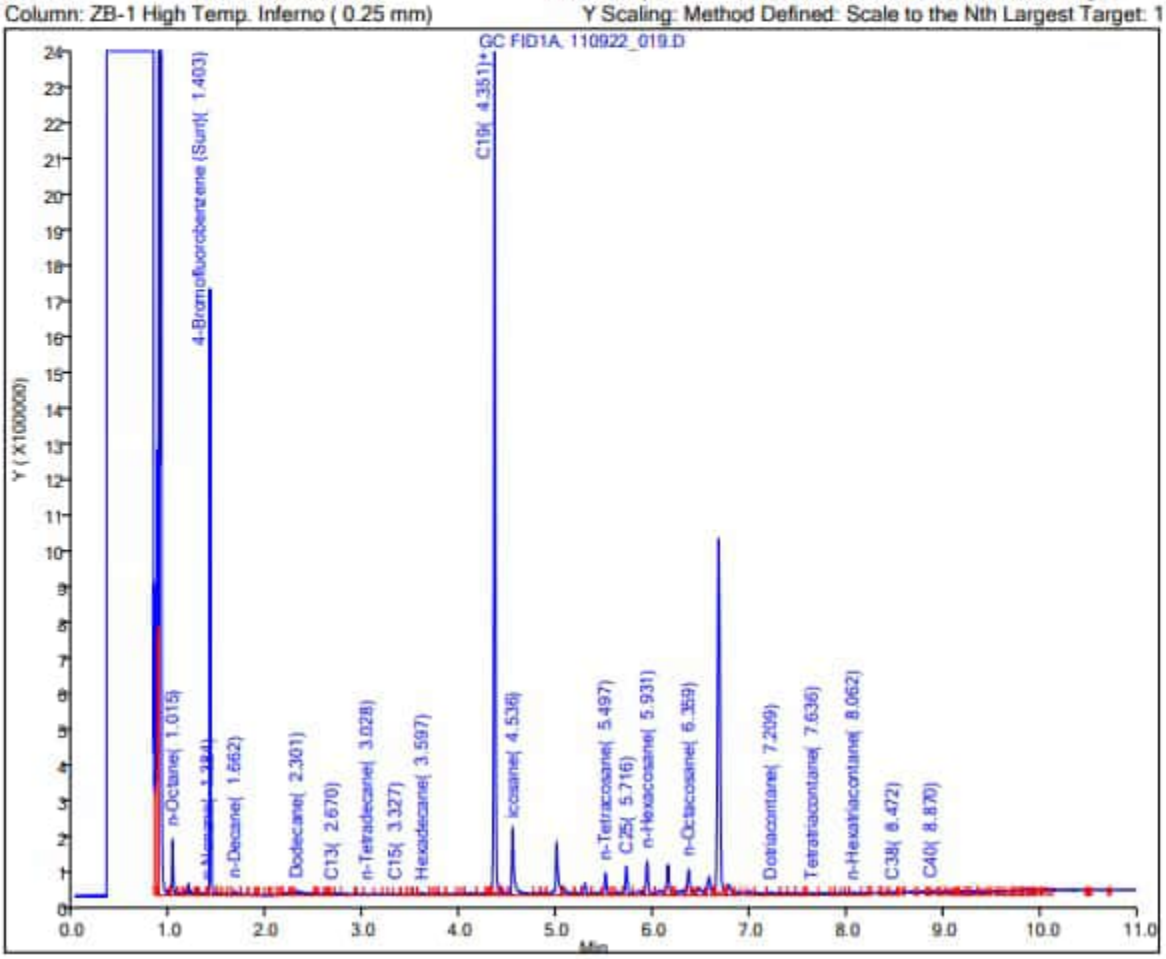
Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 10-Nov-2022 14:19:31 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_019.D				
Injection Date:	10-Nov-2022 03:49:30	Instrument ID:	TAC020		
Lims ID:	580-119659-F-3-A	Lab Sample ID:	580-119659-3		
Client ID:	RHMW2254-01-WGN02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

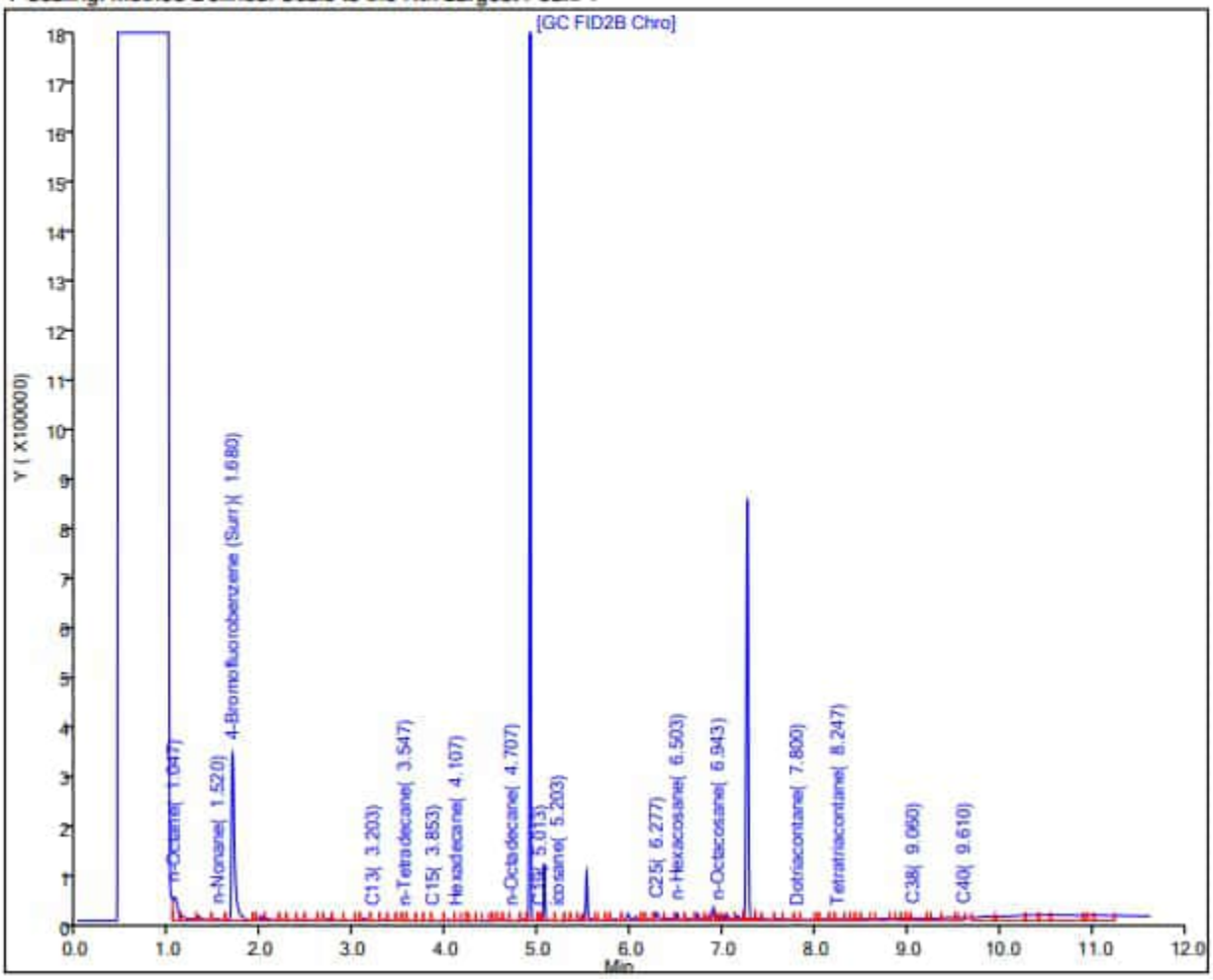
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:32:41 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A031.D				
Injection Date:	29-Nov-2022 22:45:05	Instrument ID:	TAC129_R		
Lims ID:	580-120405-E-7-A	Lab Sample ID:	580-120405-7		
Client ID:	RHMW2254-01-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN02LF-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

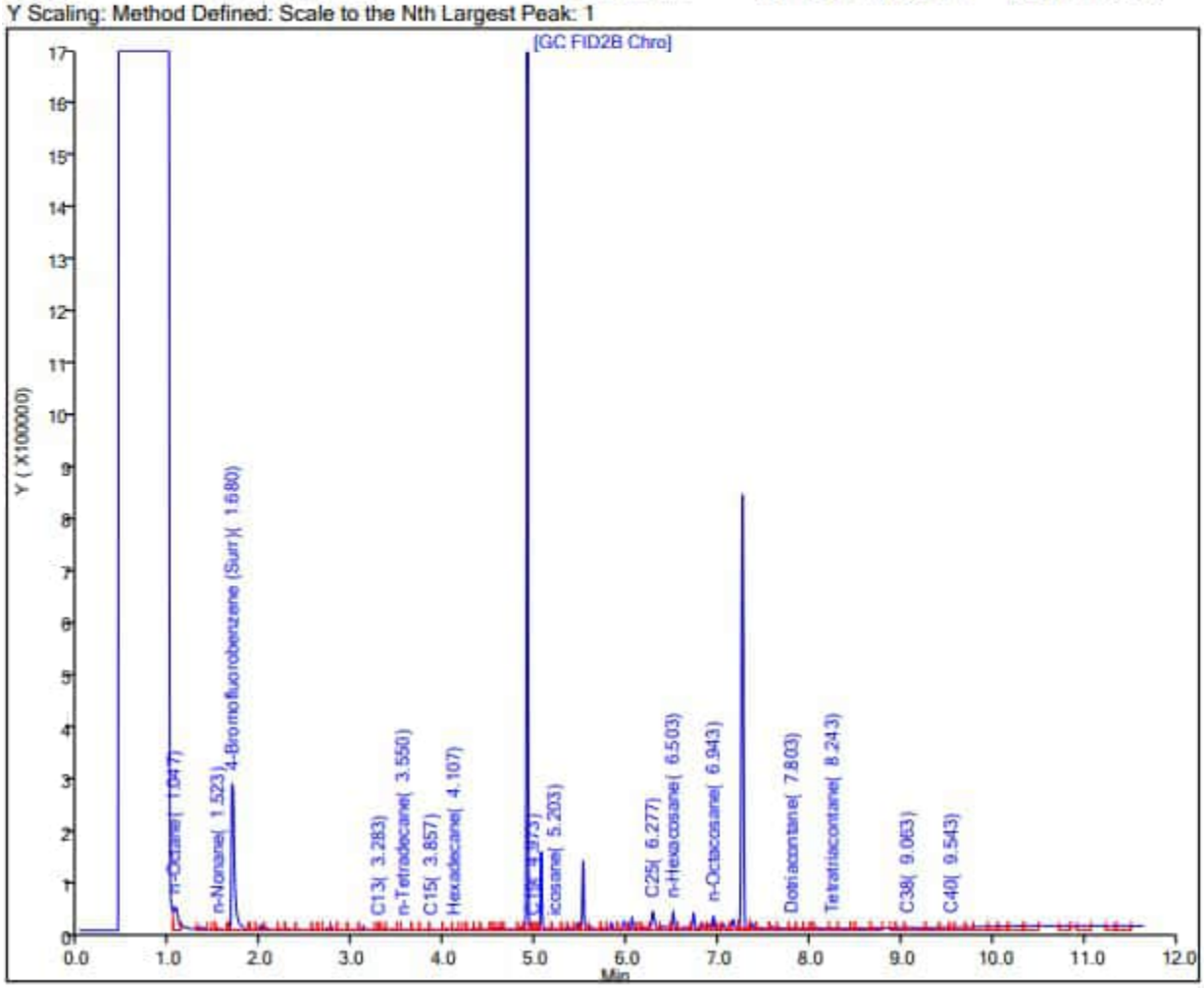
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:32:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A035.D				
Injection Date:	29-Nov-2022 23:22:13	Instrument ID:	TAC129_R		
Lims ID:	580-120405-E-11-A	Lab Sample ID:	580-120405-11		
Client ID:	RHMW2254-01-WGN02LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **NMW24** Sample ID: NMW24-WGN01B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

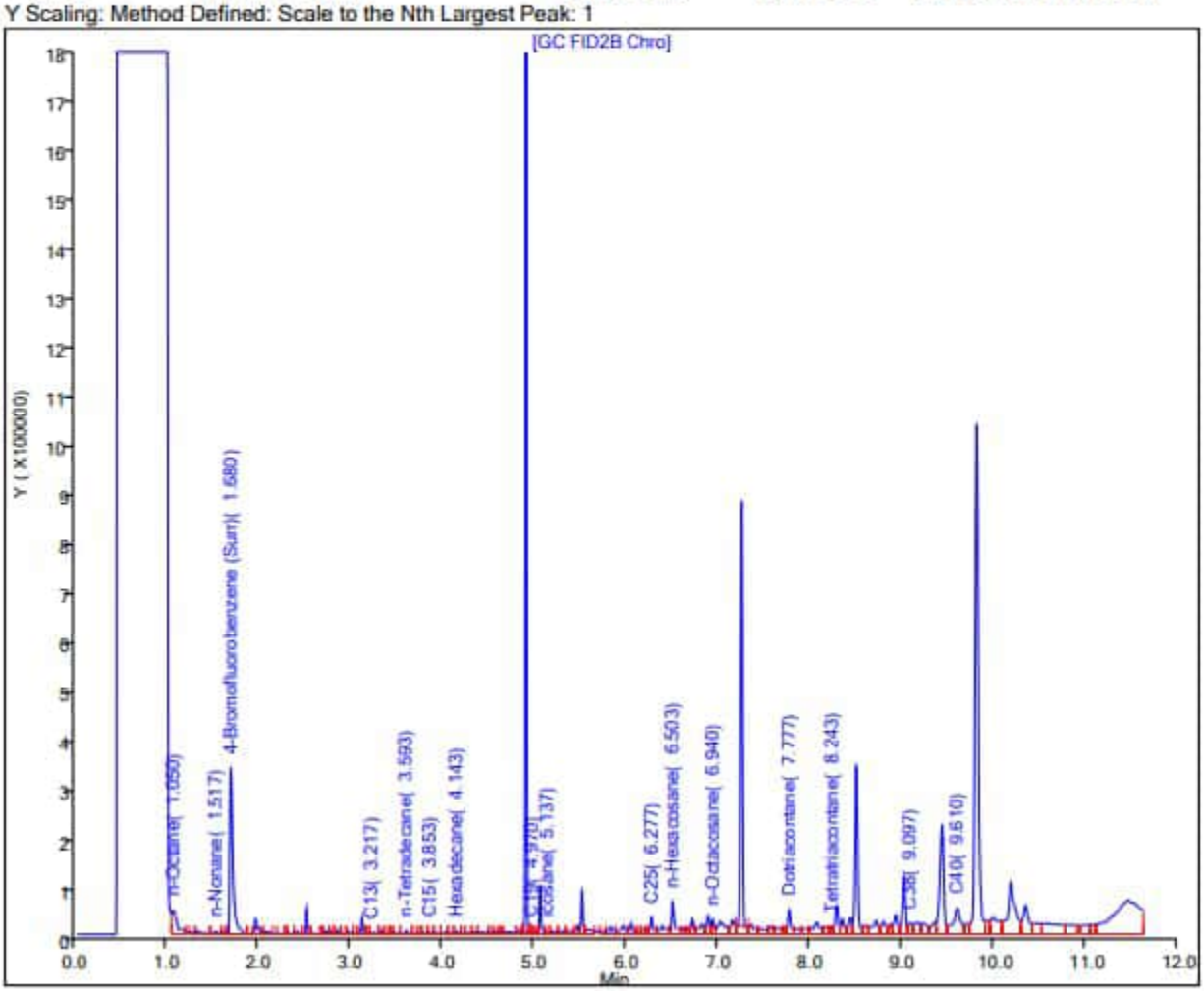
Results (ug/L): **TPH-d (C10 to C24) 66 J** **TPH-o (C24 to C40) 340 J**

Report Date: 30-Nov-2022 12:32:36 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A029.D				
Injection Date:	29-Nov-2022 22:26:32	Instrument ID:	TAC129_R		
Lims ID:	580-120405-E-5-A	Lab Sample ID:	580-120405-5		
Client ID:	NMW24-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 180 J**

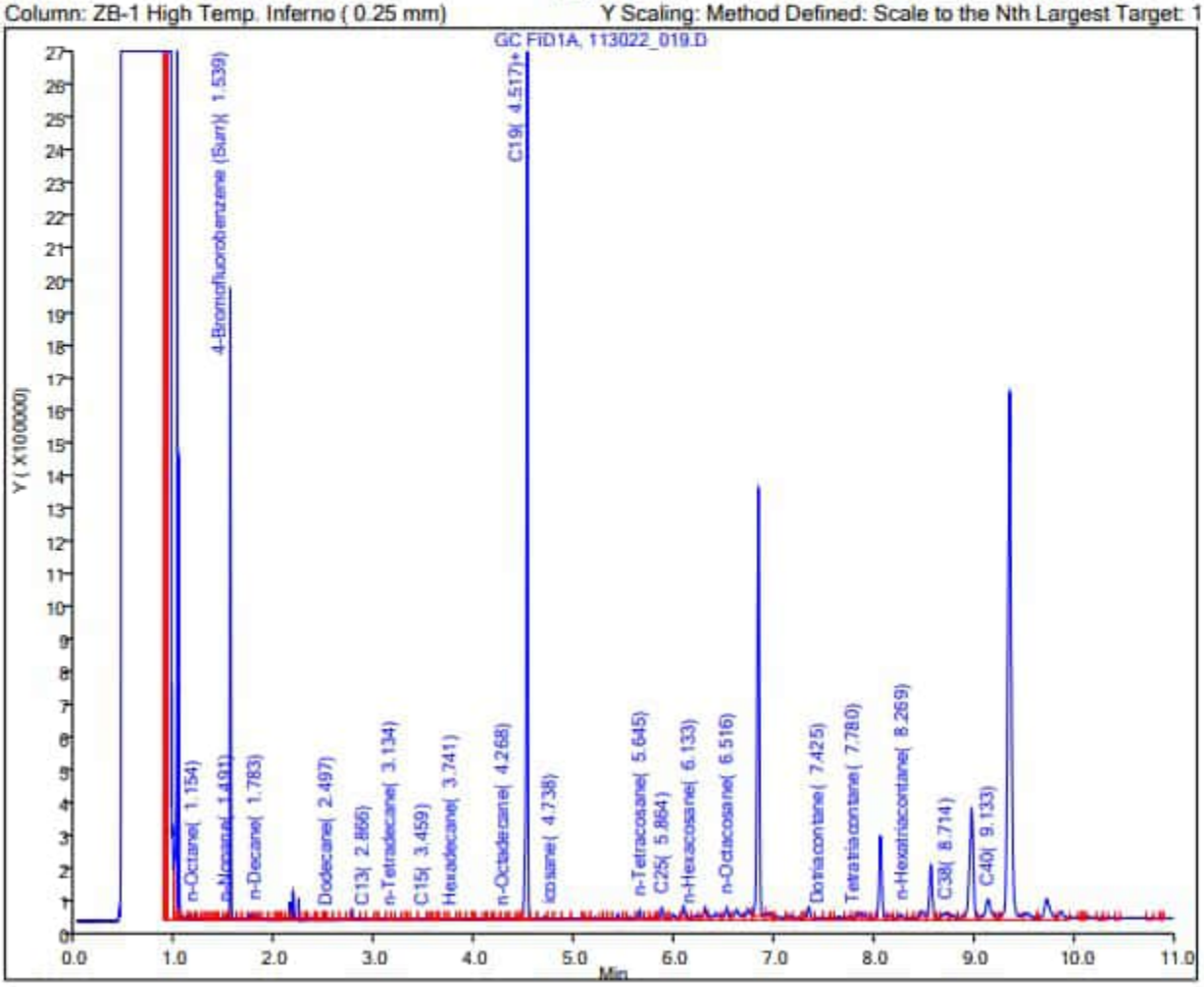
Report Date: 30-Nov-2022 22:32:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_019.D

Injection Date:	30-Nov-2022 18:51:30	Instrument ID:	TAC020		
Lims ID:	580-120405-E-5-B	Lab Sample ID:	580-120405-5		
Client ID:	NMW24-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2208WK2 Sample Date: 8/9/2022

Lab: Eurofins Seattle

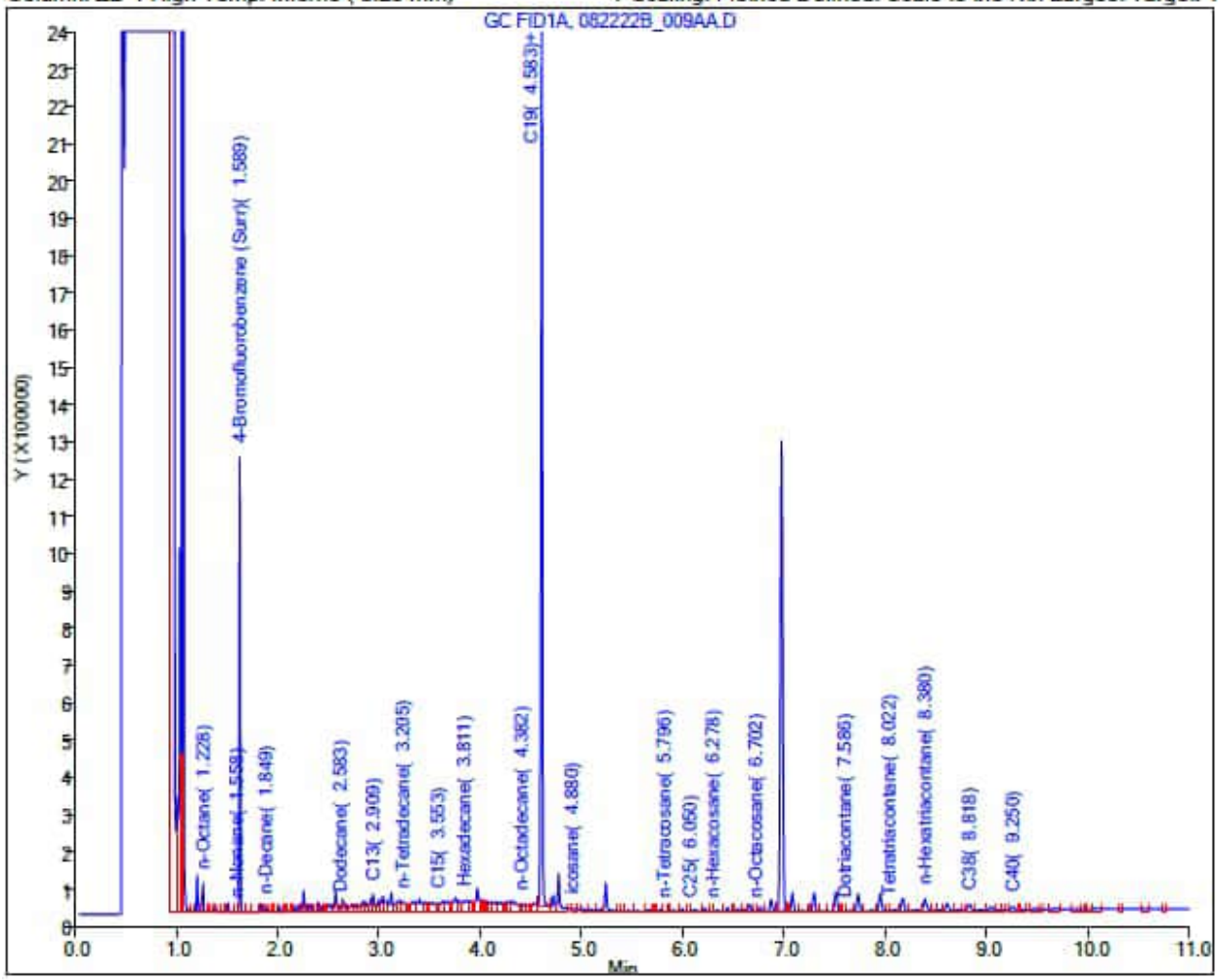
Results (ug/L): **TPH-d (C10 to C24) 150 J** **TPH-o (C24 to C40) <310 UJ**

Report Date: 22-Aug-2022 20:41:00 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_009AA.D		
Injection Date:	22-Aug-2022 18:46:30	Instrument ID:	TAC020
Lims ID:	580-116835-G-1-C	Lab Sample ID:	580-116835-1
Client ID:	RHMW01R-WGN01B-2208WK2		
Operator ID:	DH	ALS Bottle#:	9 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



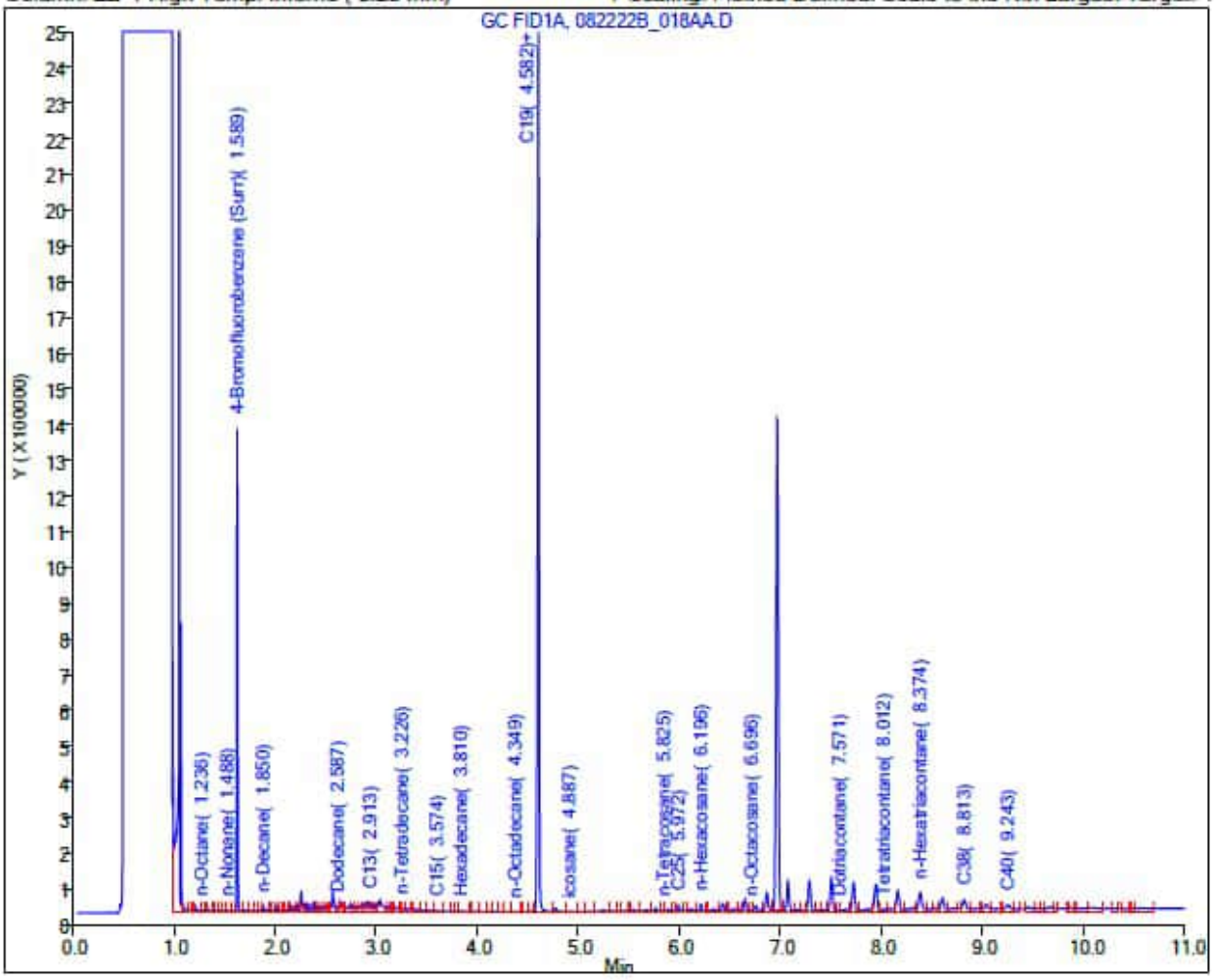
Results (ug/L): **TPH-d SGC (C10 to C24) <100 UJ** **TPH-o SGC (C24 to C40) <310 UJ**

Report Date: 22-Aug-2022 23:09:44 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_018AA.D				
Injection Date:	22-Aug-2022 21:48:30	Instrument ID:	TAC020		
Lims ID:	580-116835-G-1-E	Lab Sample ID:	580-116835-1		
Client ID:	RHMW01R-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2208WK3 Sample Date: 8/16/2022

Lab: Eurofins Seattle

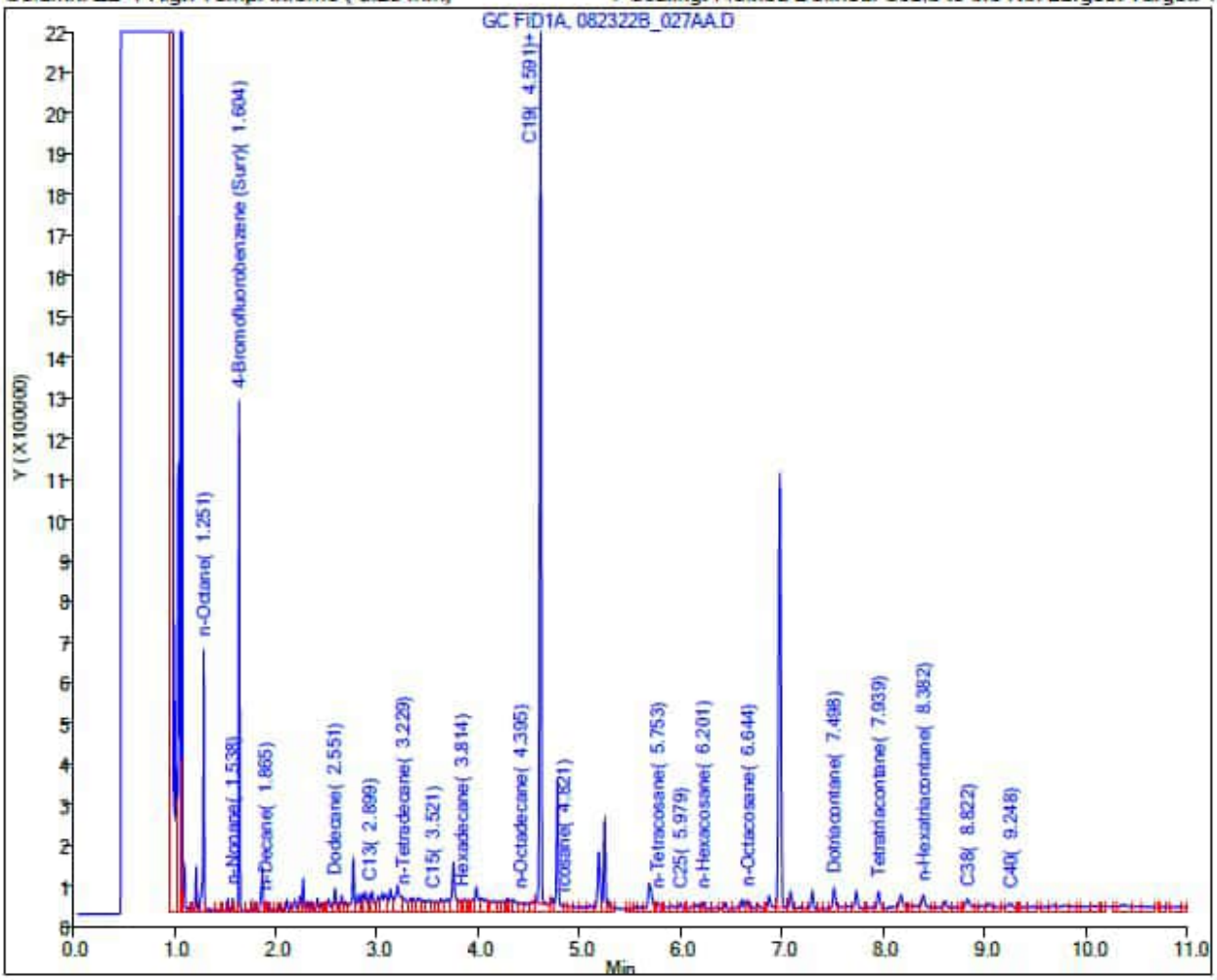
Results (ug/L): **TPH-d (C10 to C24) 210** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Aug-2022 09:25:41 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_027AA.D				
Injection Date:	24-Aug-2022 02:47:30	Instrument ID:	TAC020		
Lims ID:	580-117058-F-3-A	Lab Sample ID:	580-117058-3		
Client ID:	RHMW01R-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



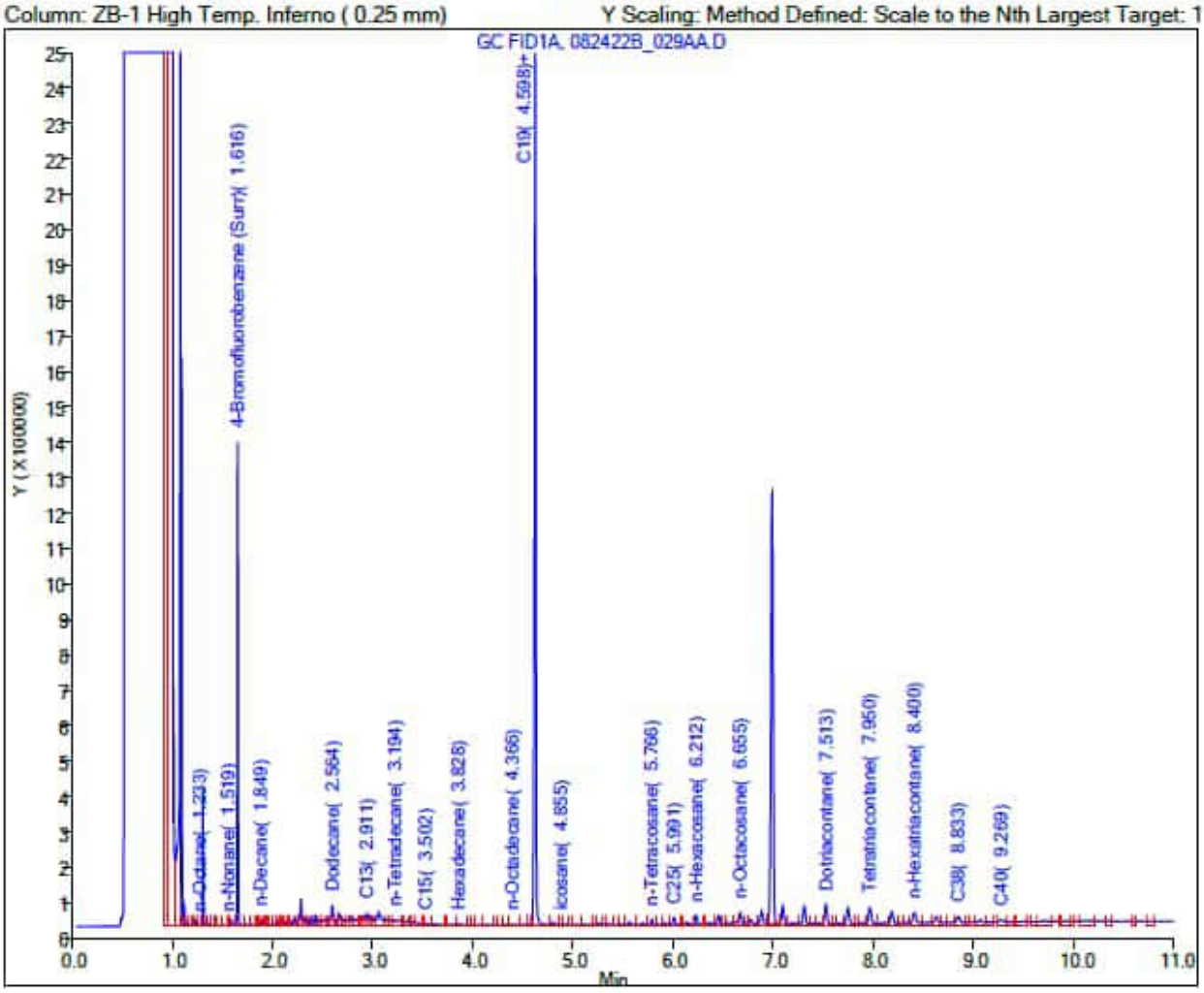
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 25-Aug-2022 10:41:20 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_029AA.D				
Injection Date:	25-Aug-2022 06:06:30	Instrument ID:	TAC020		
Lims ID:	580-117058-F-3-B	Lab Sample ID:	580-117058-3		
Client ID:	RHMW01R-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2209WK1 Sample Date: 9/6/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) 230** **TPH-o (C24 to C40) 1200**

Report Date: 13-Sep-2022 12:01:06 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_018.D

Injection Date: 12-Sep-2022 23:01:30 Instrument ID: TAC020

Lims ID: 580-117667-F-5-A Lab Sample ID: 580-117667-5

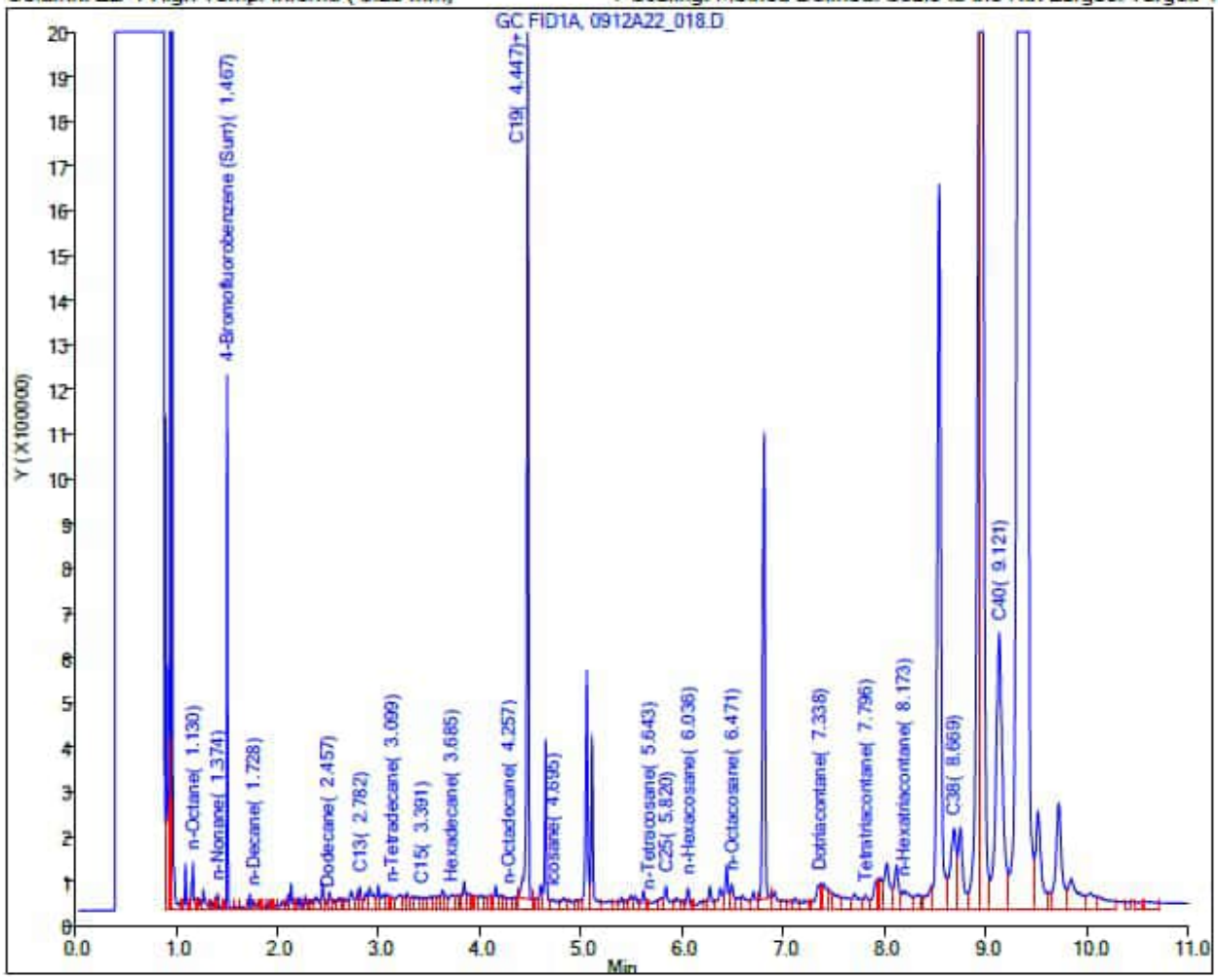
Client ID: RHMW01R-WGN01B-2209WK1

Operator ID: DH ALS Bottle#: 18 Worklist Smp#: 20

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



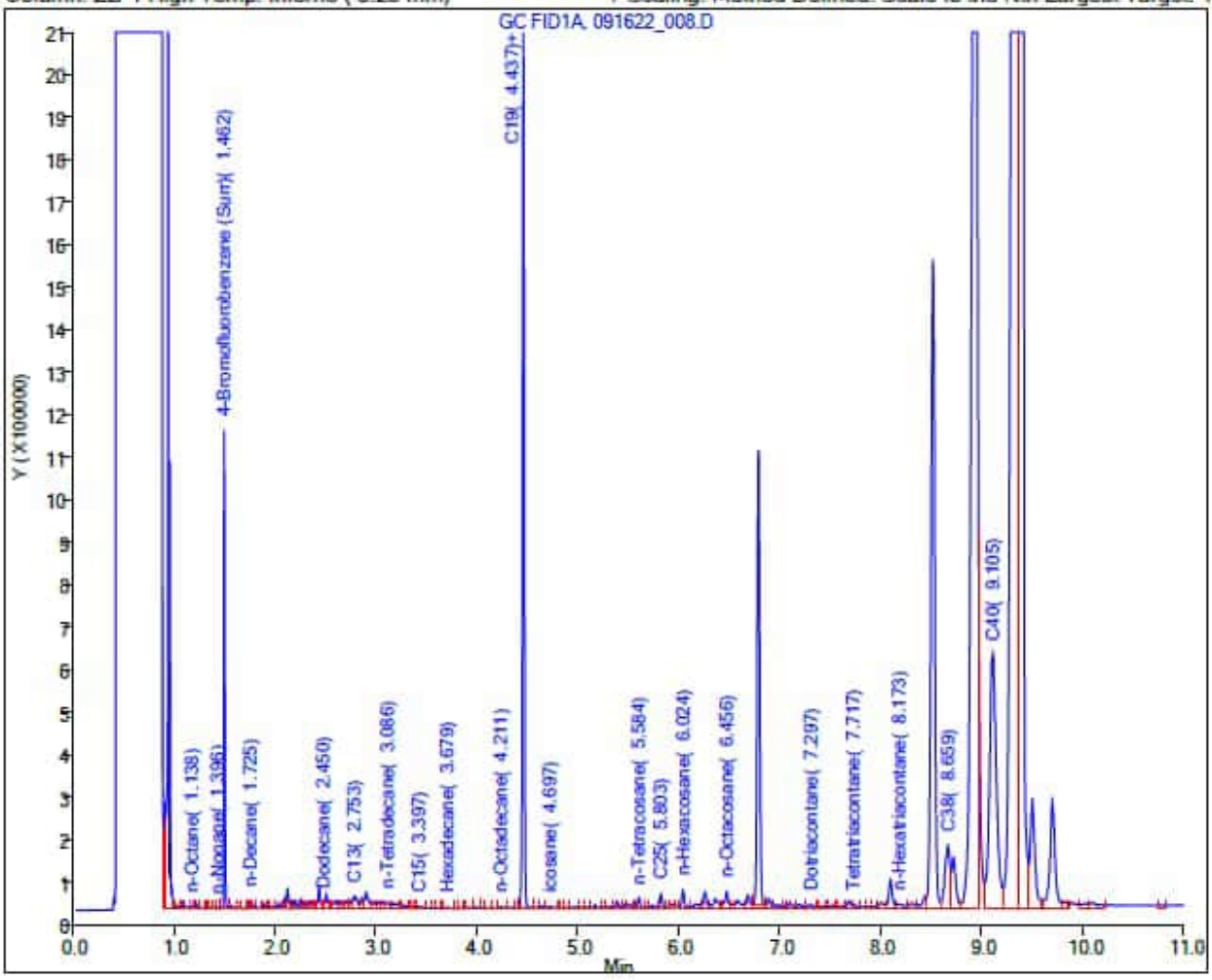
Results (ug/L): **TPH-d SGC (C10 to C24) 320** **TPH-o SGC (C24 to C40) 1400 J**

Report Date: 18-Sep-2022 14:50:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_008.D				
Injection Date:	16-Sep-2022 20:33:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-5-B	Lab Sample ID:	580-117667-5		
Client ID:	RHMW01R-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2209WK2 Sample Date: 9/13/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) 150** **TPH-o (C24 to C40) <310 U**

Report Date: 21-Sep-2022 13:08:32 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_013.D				
Injection Date:	20-Sep-2022 21:59:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-9-A	Lab Sample ID:	580-117907-9		
Client ID:	RHMW01R-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

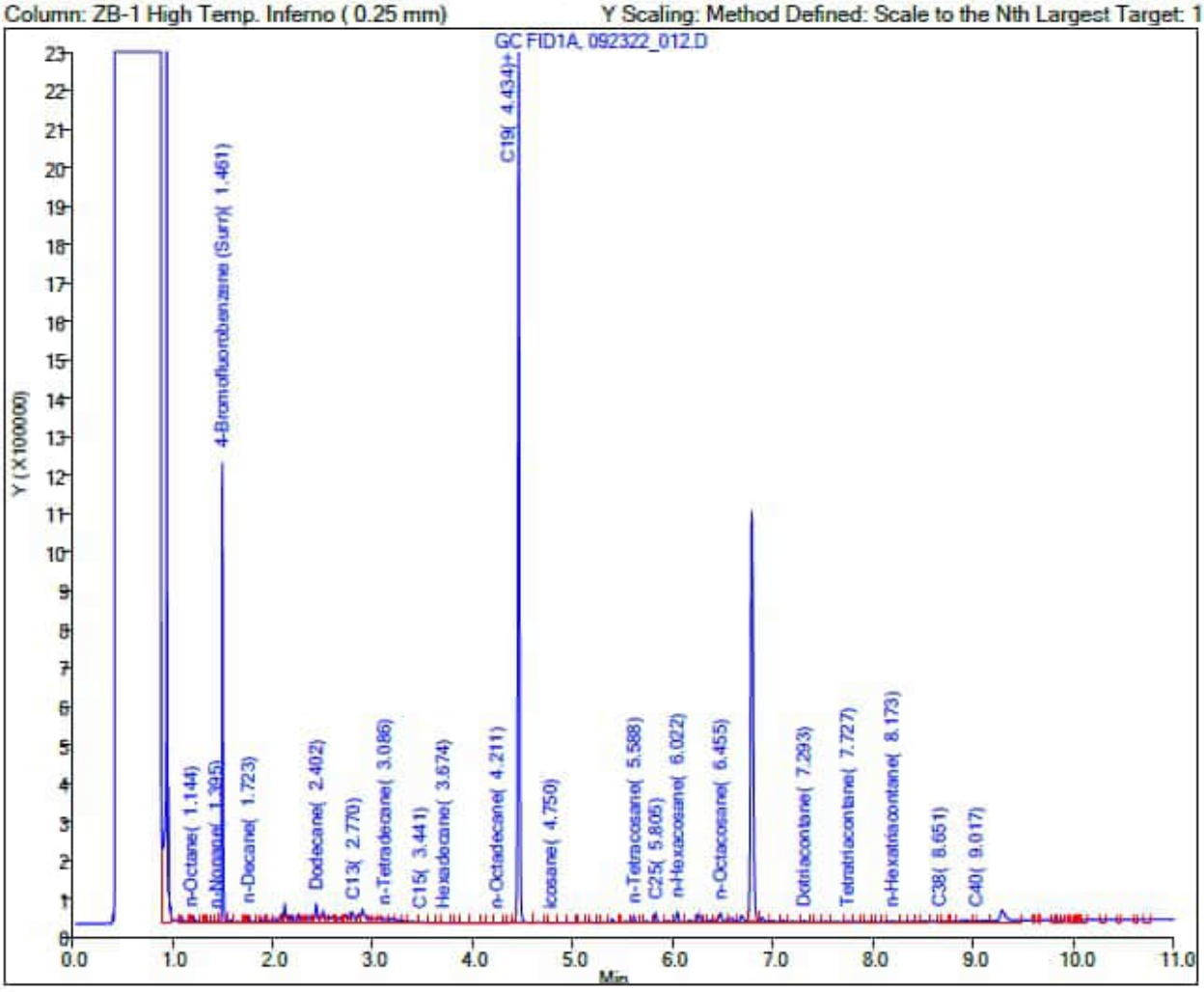
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 23-Sep-2022 18:50:11 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220923-84994.b\092322_012.D				
Injection Date:	23-Sep-2022 17:52:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-9-C	Lab Sample ID:	580-117907-9		
Client ID:	RHMW01R-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2209WK3 Sample Date: 9/20/2022

Lab: Eurofins Seattle

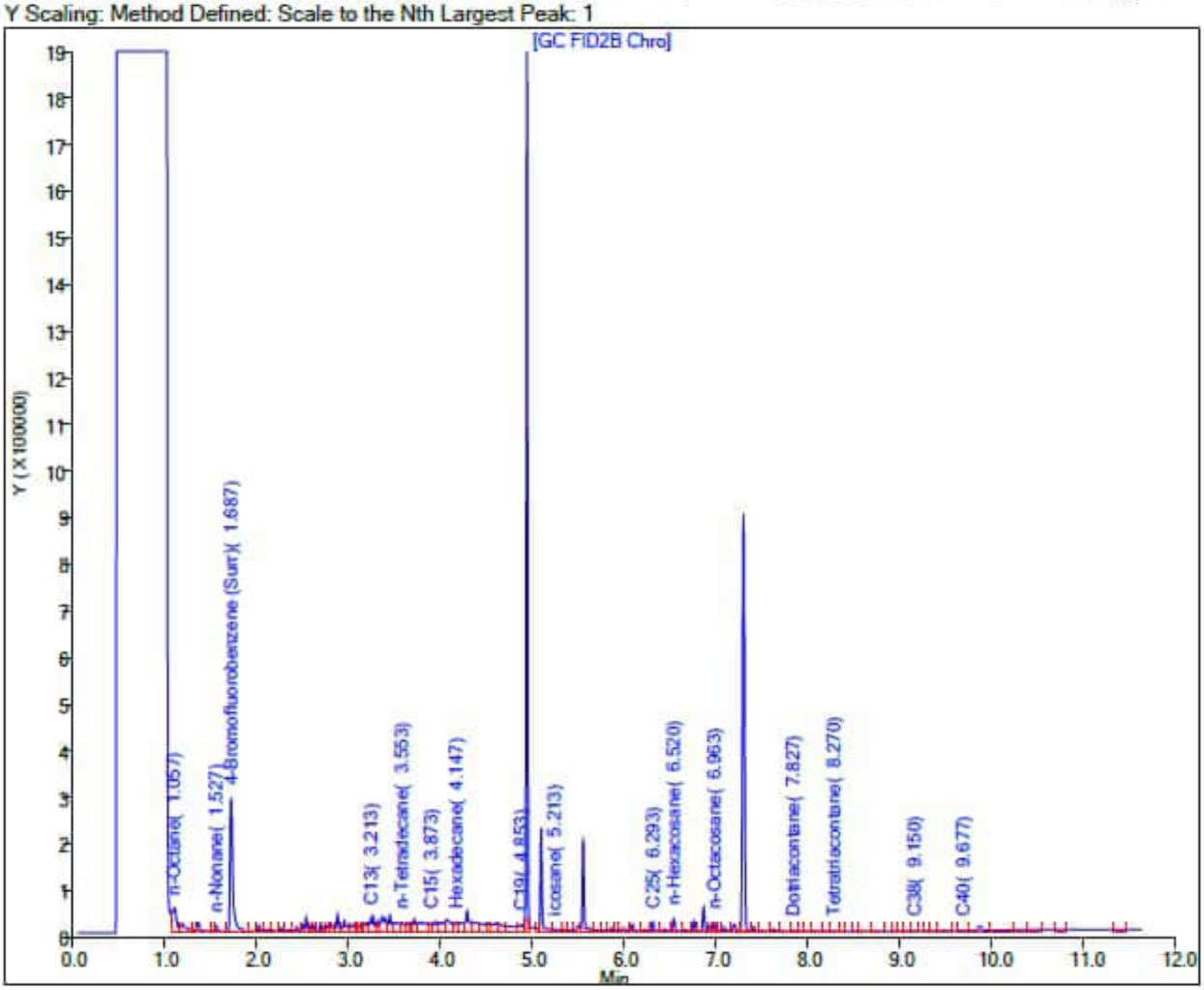
Results (ug/L): **TPH-d (C10 to C24) 180** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Sep-2022 14:38:46 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A025.D		
Injection Date:	27-Sep-2022 19:35:03	Instrument ID:	TAC129_R
Lims ID:	580-118158-S-7-A	Lab Sample ID:	580-118158-7
Client ID:	RHMW01R-WGN01B-2209WK3		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



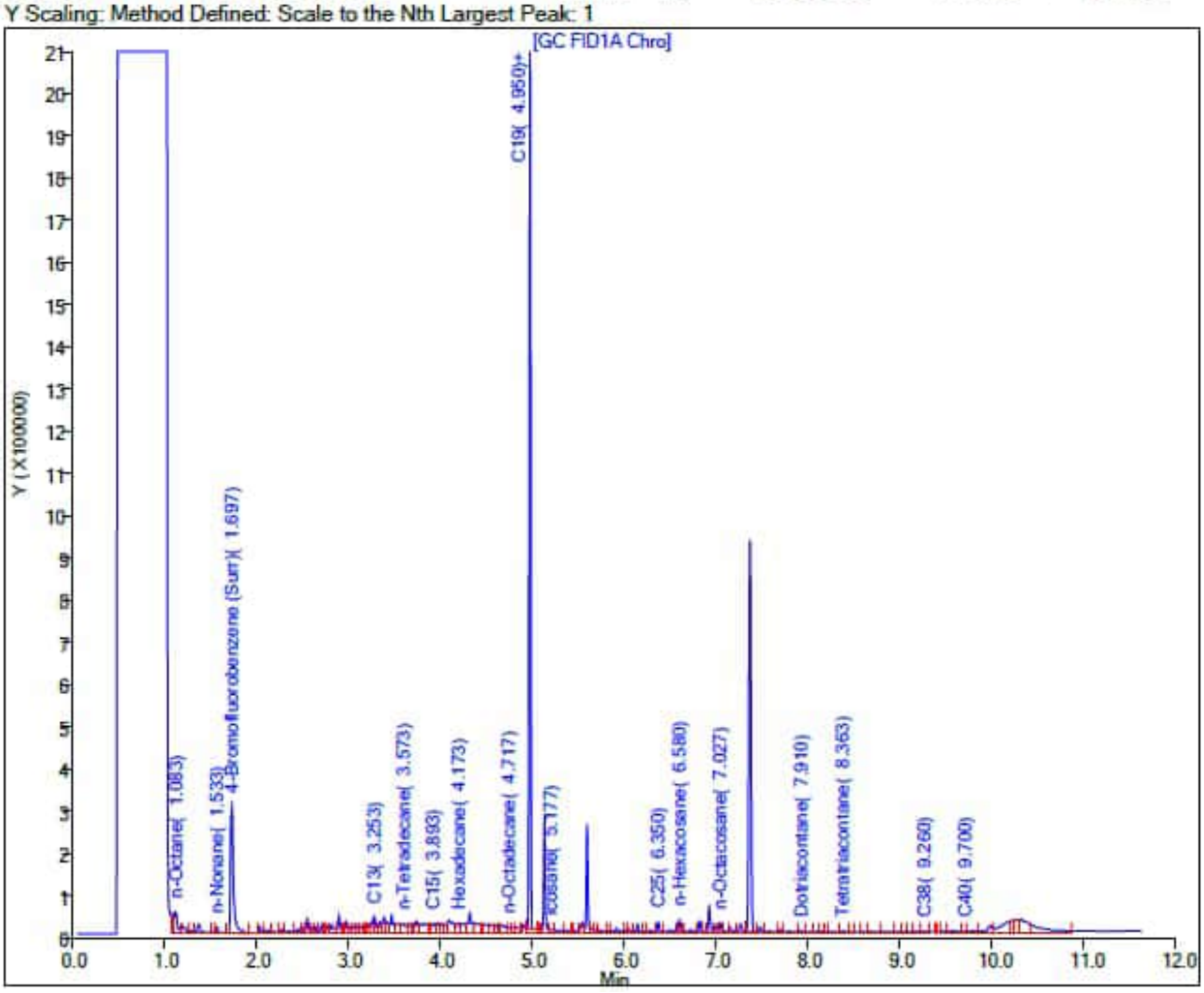
Results (ug/L): **TPH-d SGC (C10 to C24) 170** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 29-Sep-2022 14:44:06 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A020.D				
Injection Date:	28-Sep-2022 20:26:32	Instrument ID:	TAC129		
Lims ID:	580-118158-S-7-B	Lab Sample ID:	580-118158-7		
Client ID:	RHMW01R-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2210WK1 Sample Date: 10/4/2022

Lab: Eurofins Seattle

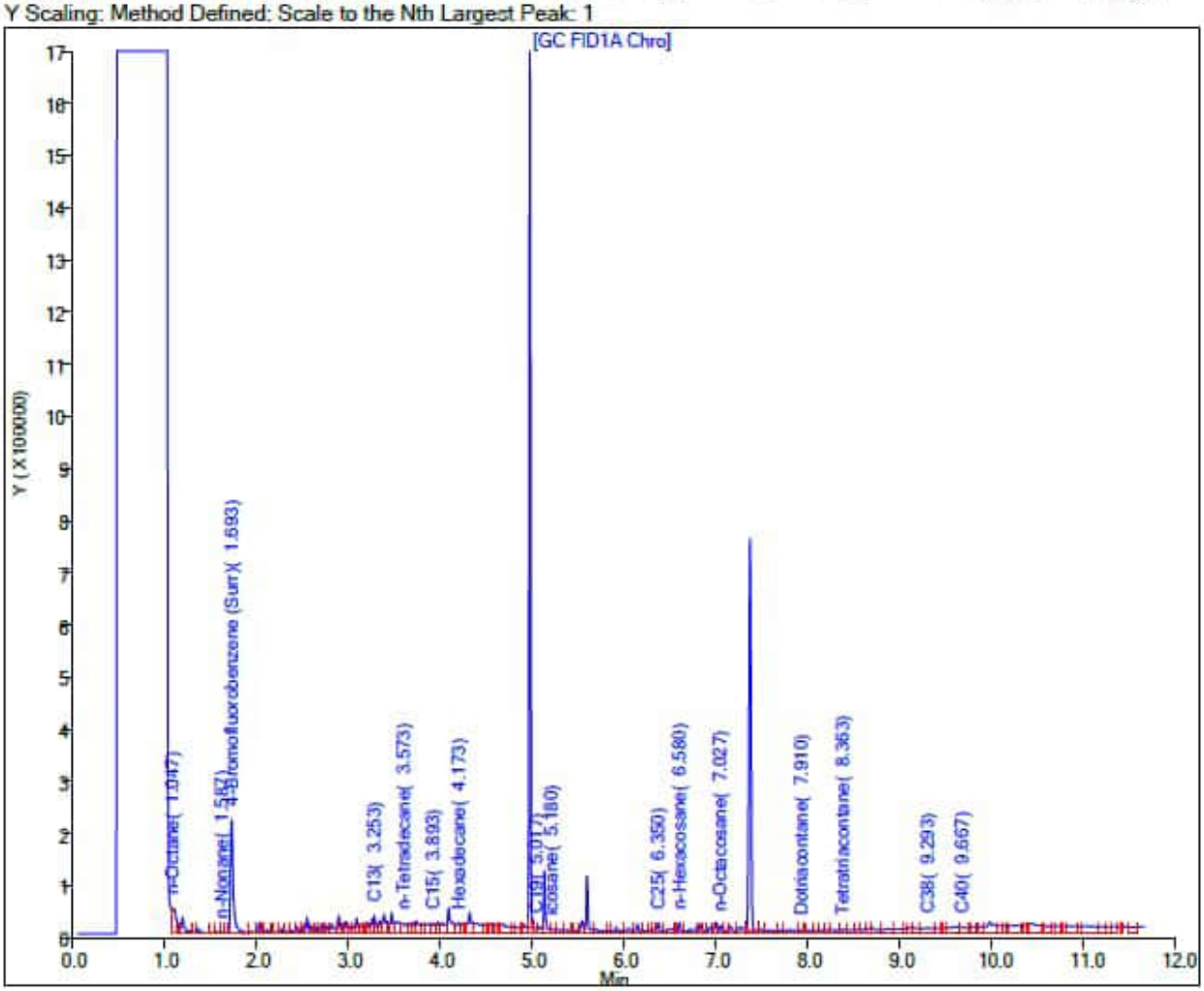
Results (ug/L): **TPH-d (C10 to C24) 140** **TPH-o (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:56:37 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A028.D				
Injection Date:	11-Oct-2022 21:14:12	Instrument ID:	TAC129		
Lims ID:	580-118611-E-1-A	Lab Sample ID:	580-118611-1		
Client ID:	RHMW01R-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



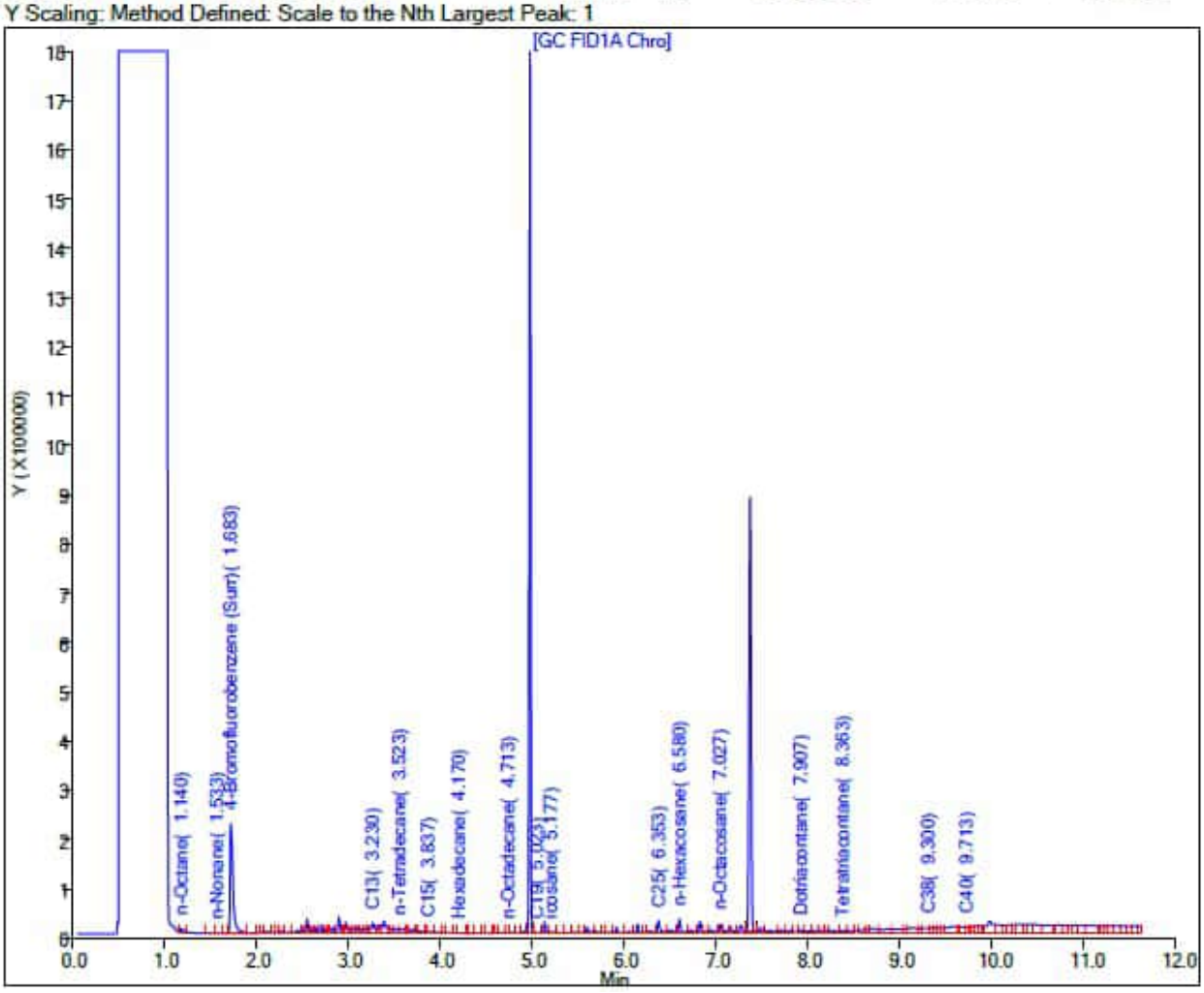
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 14-Oct-2022 14:23:22 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221012-85308.b\101222A016.D				
Injection Date:	12-Oct-2022 21:28:44	Instrument ID:	TAC129		
Lims ID:	580-118611-E-1-B	Lab Sample ID:	580-118611-1		
Client ID:	RHMW01R-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2210WK2 Sample Date: 10/14/2022

Lab: Eurofins Seattle

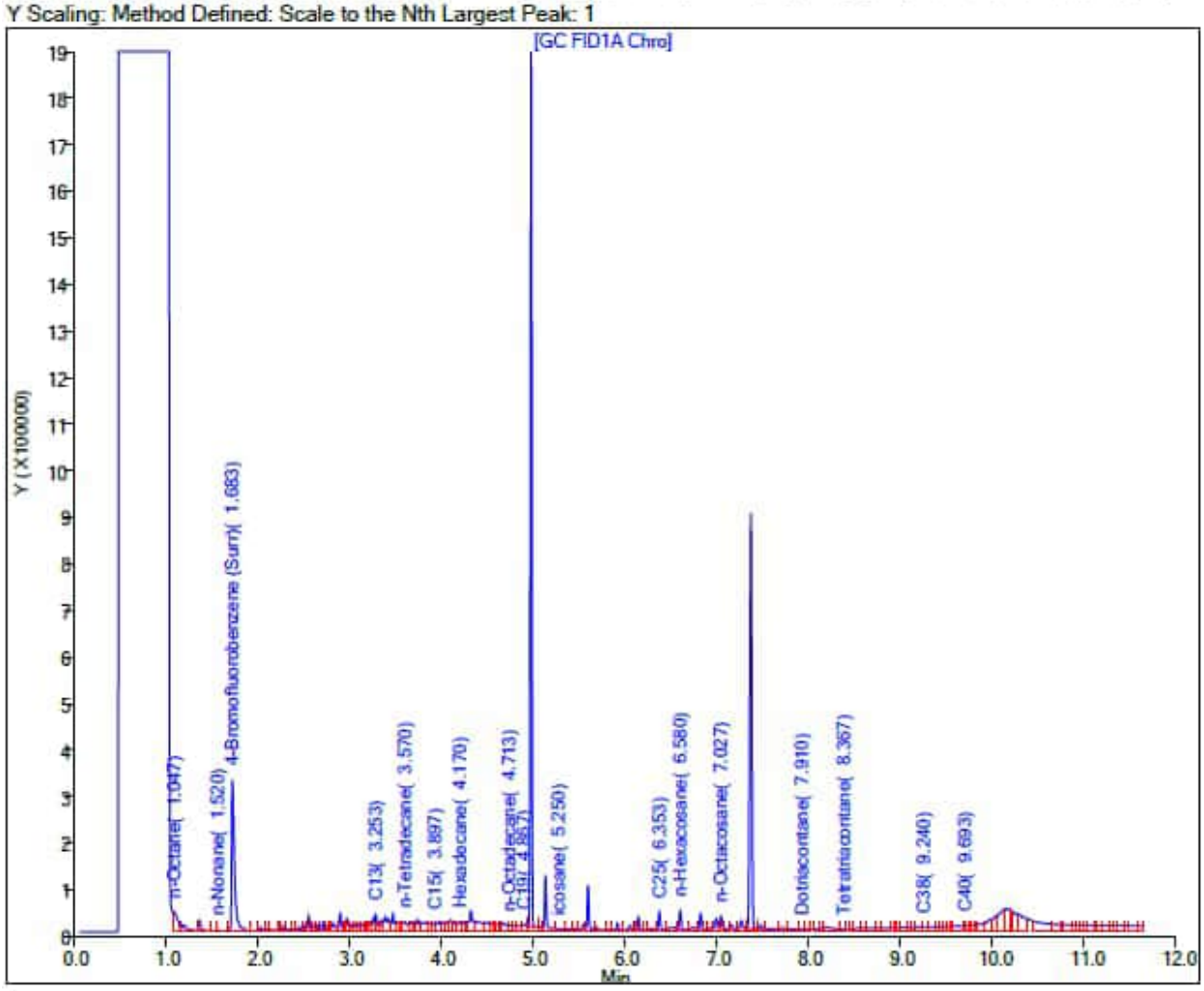
Results (ug/L): **TPH-d (C10 to C24) 130** **TPH-o (C24 to C40) <300 U**

Report Date: 21-Oct-2022 16:26:47 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221020-85417.b\102022A018.D				
Injection Date:	20-Oct-2022 21:05:24	Instrument ID:	TAC129		
Lims ID:	580-118920-O-1-A	Lab Sample ID:	580-118920-1		
Client ID:	RHMW01R-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



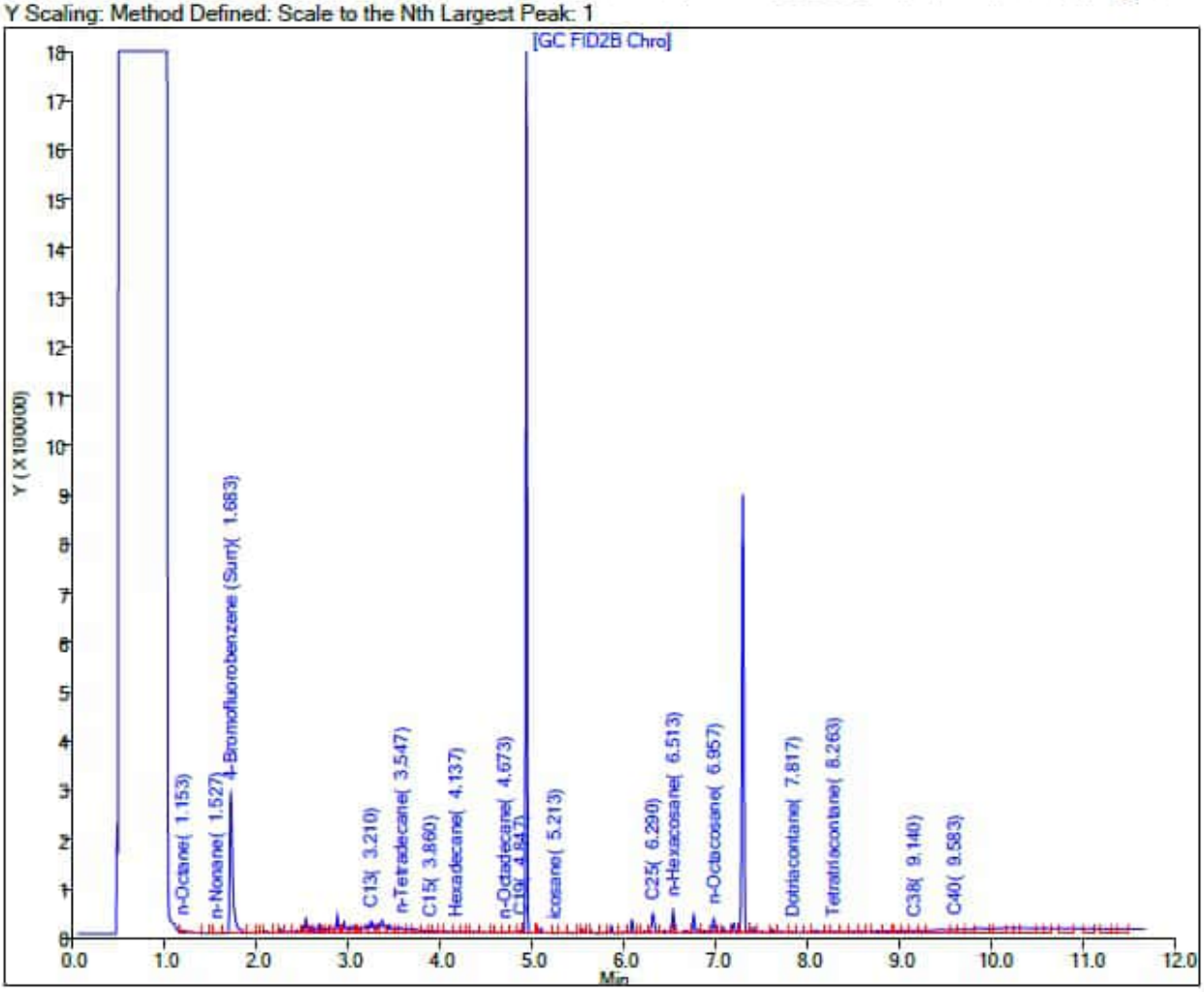
Results (ug/L): **TPH-d SGC (C10 to C24) <99 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 26-Oct-2022 21:56:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221020-85418.b\102022A013.D		
Injection Date:	20-Oct-2022 20:27:43	Instrument ID:	TAC129_R
Lims ID:	580-118920-O-1-B	Lab Sample ID:	580-118920-1
Client ID:	RHMW01R-WGN01B-2210WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2210WK3 Sample Date: 10/18/2022

Lab: Eurofins Seattle

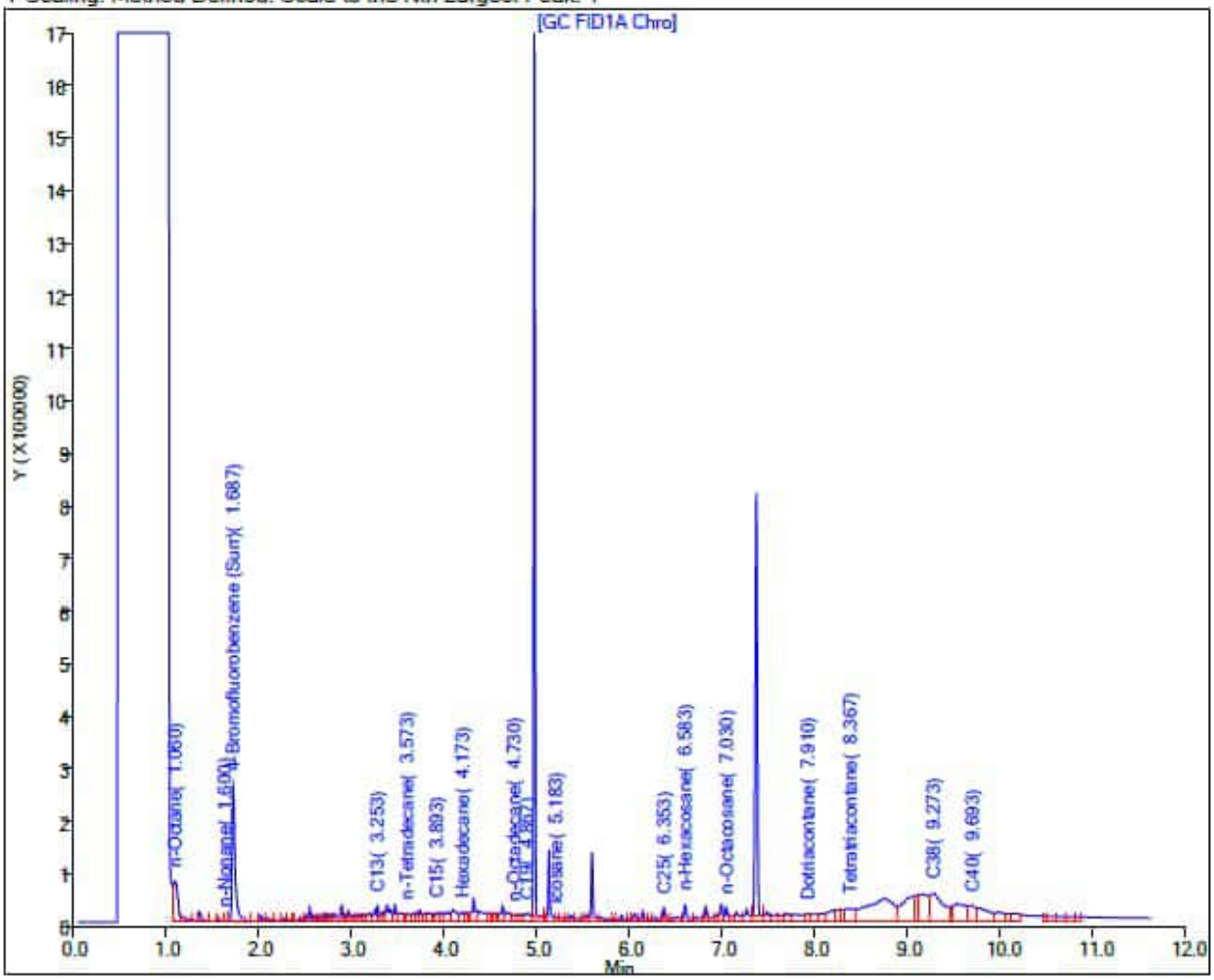
Results (ug/L): **TPH-d (C10 to C24) 130** **TPH-o (C24 to C40) 270 J**

Report Date: 26-Oct-2022 13:36:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A022.D				
Injection Date:	25-Oct-2022 23:05:08	Instrument ID:	TAC129		
Lims ID:	580-119027-O-11-A	Lab Sample ID:	580-119027-11		
Client ID:	RHMW01R-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



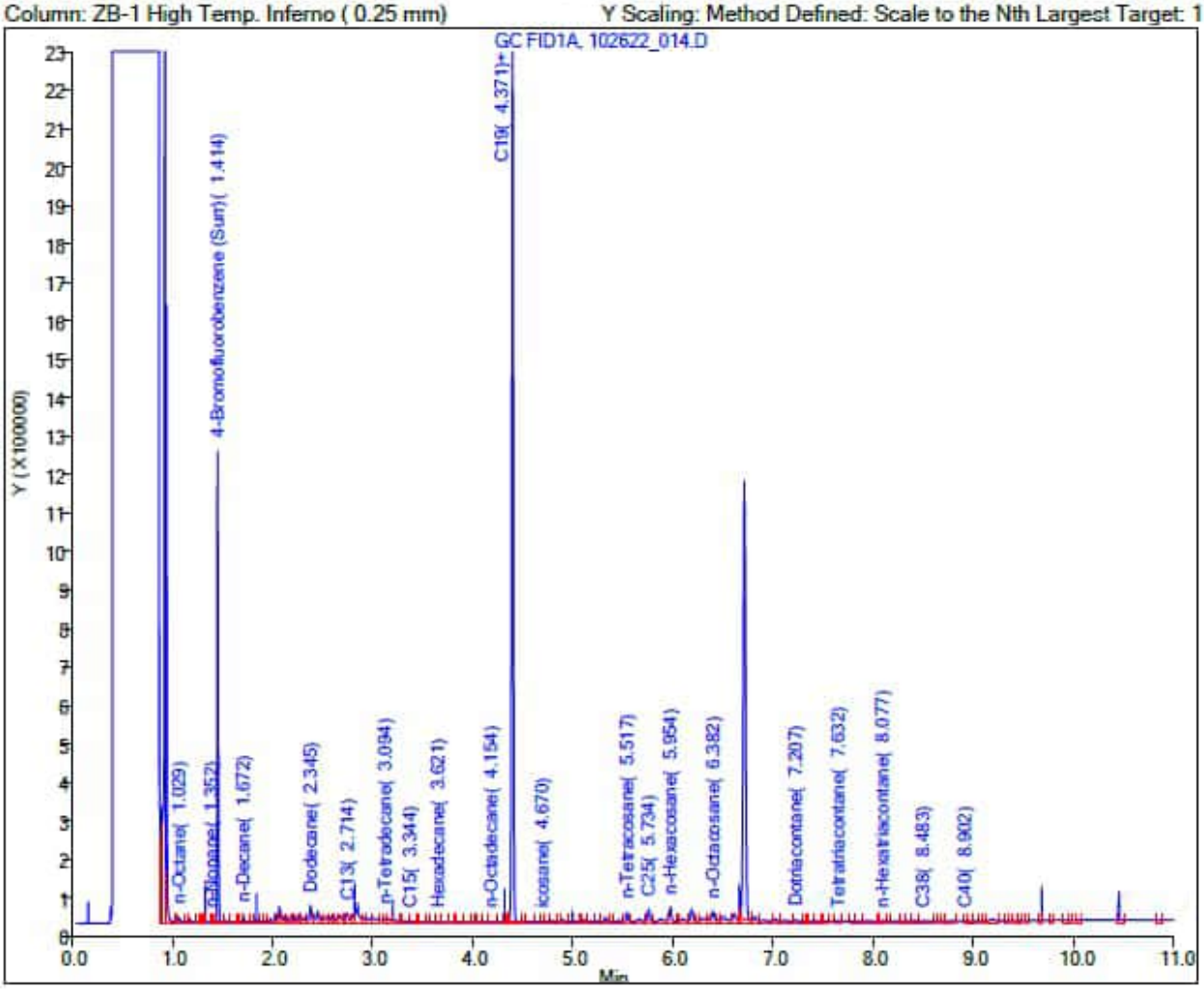
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 27-Oct-2022 13:34:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_014.D				
Injection Date:	26-Oct-2022 18:38:30	Instrument ID:	TAC020		
Lims ID:	580-119027-O-11-B	Lab Sample ID:	580-119027-11		
Client ID:	RHMW01R-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN02B-2210WK3 Sample Date: 10/20/2022

Lab: Eurofins Seattle

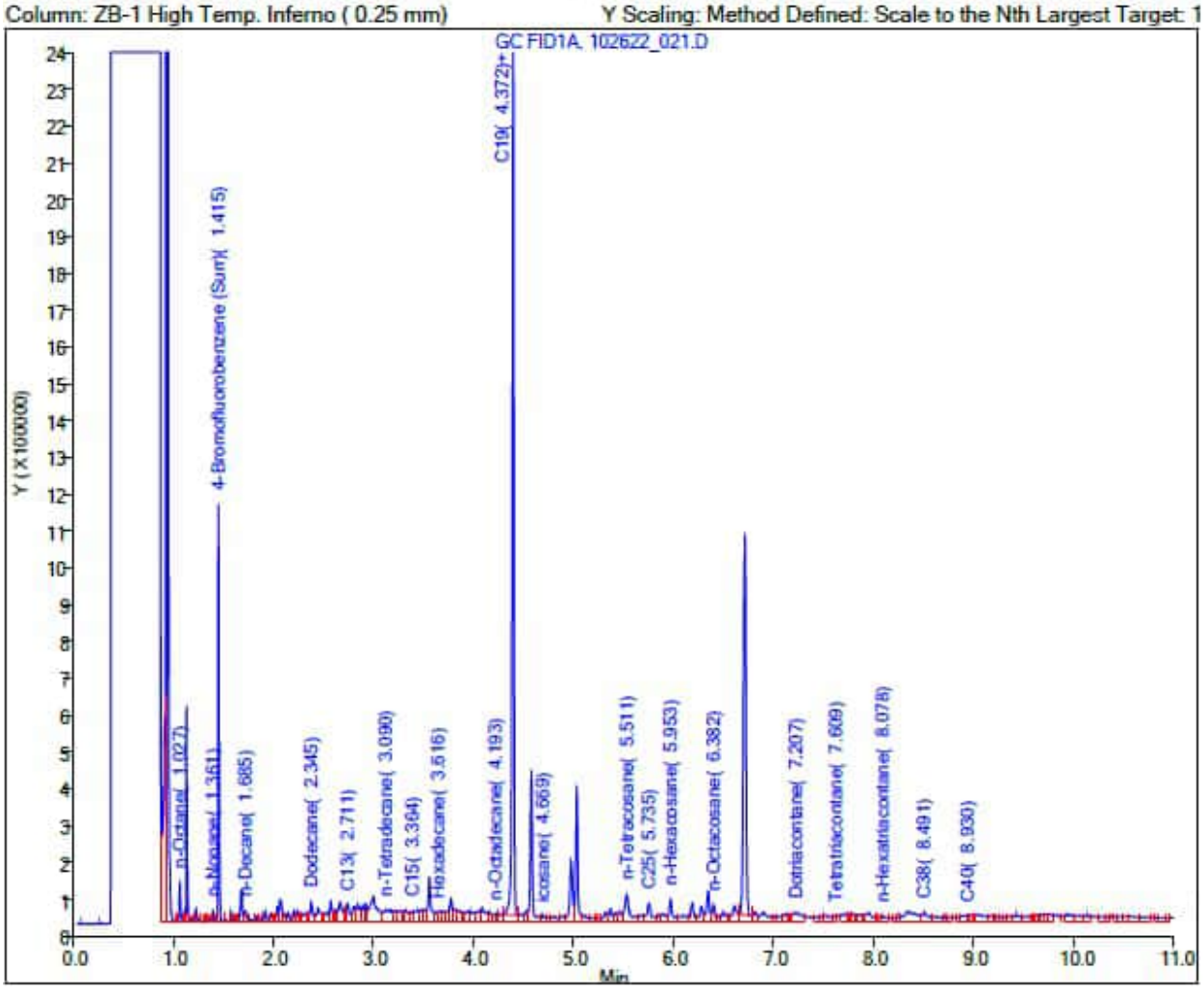
Results (ug/L): **TPH-d (C10 to C24) 240** **TPH-o (C24 to C40) 180 J**

Report Date: 27-Oct-2022 13:37:46 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_021.D		
Injection Date:	26-Oct-2022 20:59:30	Instrument ID:	TAC020
Lims ID:	580-119152-N-7-A	Lab Sample ID:	580-119152-7
Client ID:	RHMW01R-WGN02B-2210WK3		
Operator ID:	DH	ALS Bottle#:	20 Worklist Smp#: 30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



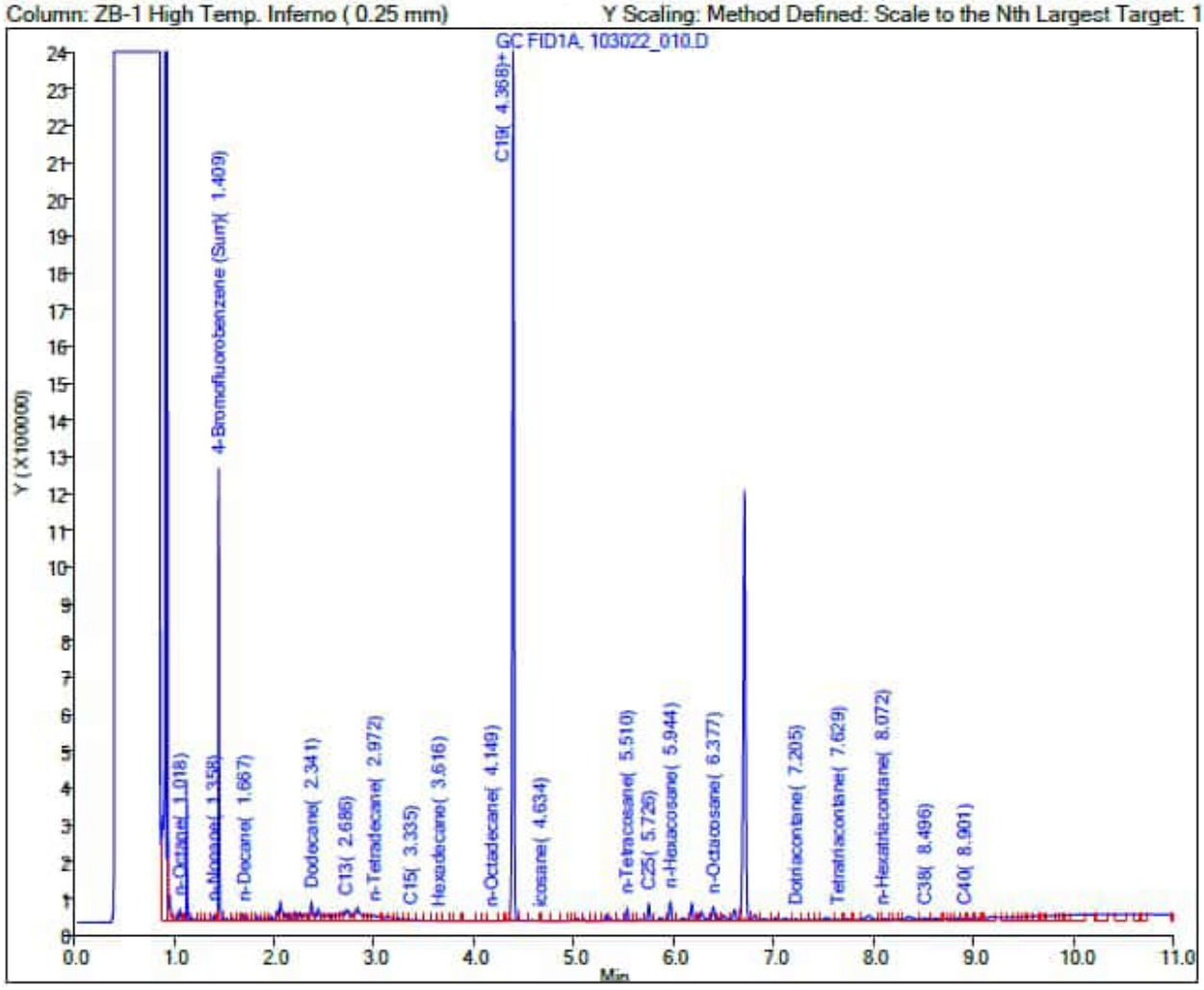
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 01-Nov-2022 13:45:01 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_010.D				
Injection Date:	31-Oct-2022 20:08:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-7-B	Lab Sample ID:	580-119152-7		
Client ID:	RHMW01R-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2210WK4 Sample Date: 10/25/2022

Lab: Eurofins Seattle

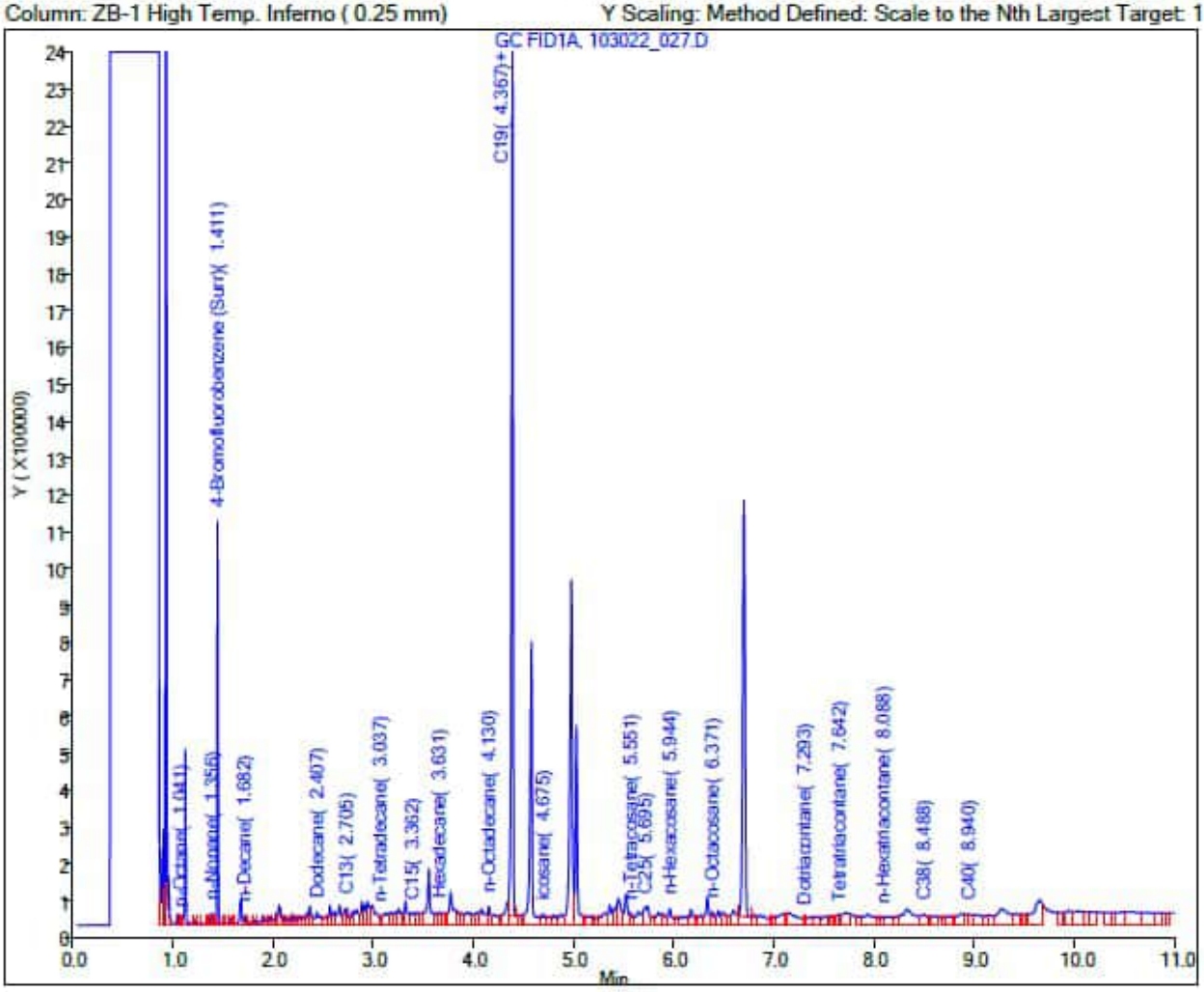
Results (ug/L): **TPH-d (C10 to C24) 330** **TPH-o (C24 to C40) 220 J**

Report Date: 01-Nov-2022 13:47:23 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_027.D				
Injection Date:	01-Nov-2022 01:51:30	Instrument ID:	TAC020		
Lims ID:	580-119339-O-7-A	Lab Sample ID:	580-119339-7		
Client ID:	RHMW01R-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	26	Worklist Smp#:	76
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



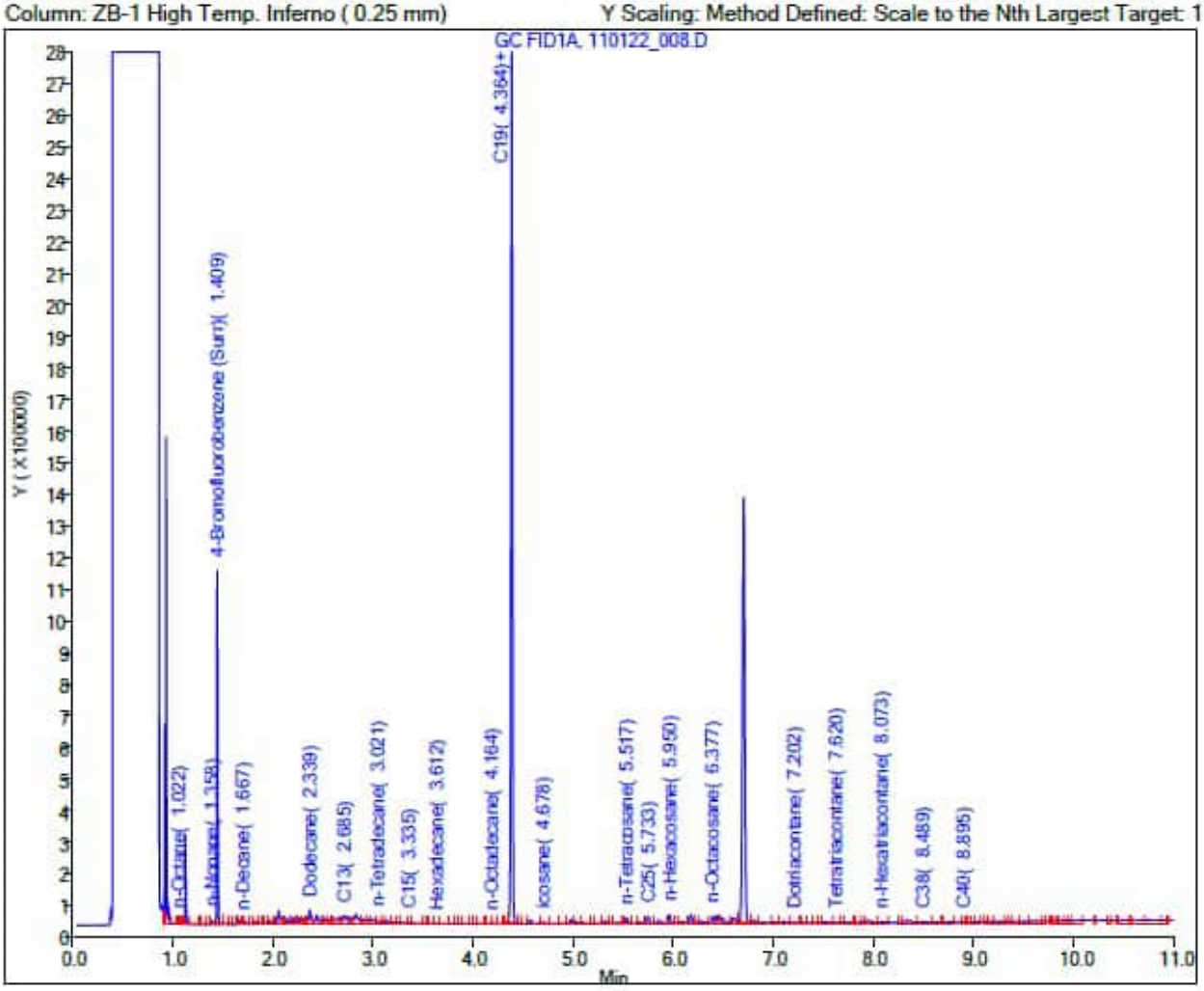
Results (ug/L): **TPH-d SGC (C10 to C24) <110 U** **TPH-o SGC (C24 to C40) <320 U**

Report Date: 02-Nov-2022 13:51:44 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_008.D				
Injection Date:	01-Nov-2022 18:00:30	Instrument ID:	TAC020		
Lims ID:	580-119339-O-7-B	Lab Sample ID:	580-119339-7		
Client ID:	RHMW01R-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN02B-2210WK4 Sample Date: 10/27/2022

Lab: Eurofins Seattle

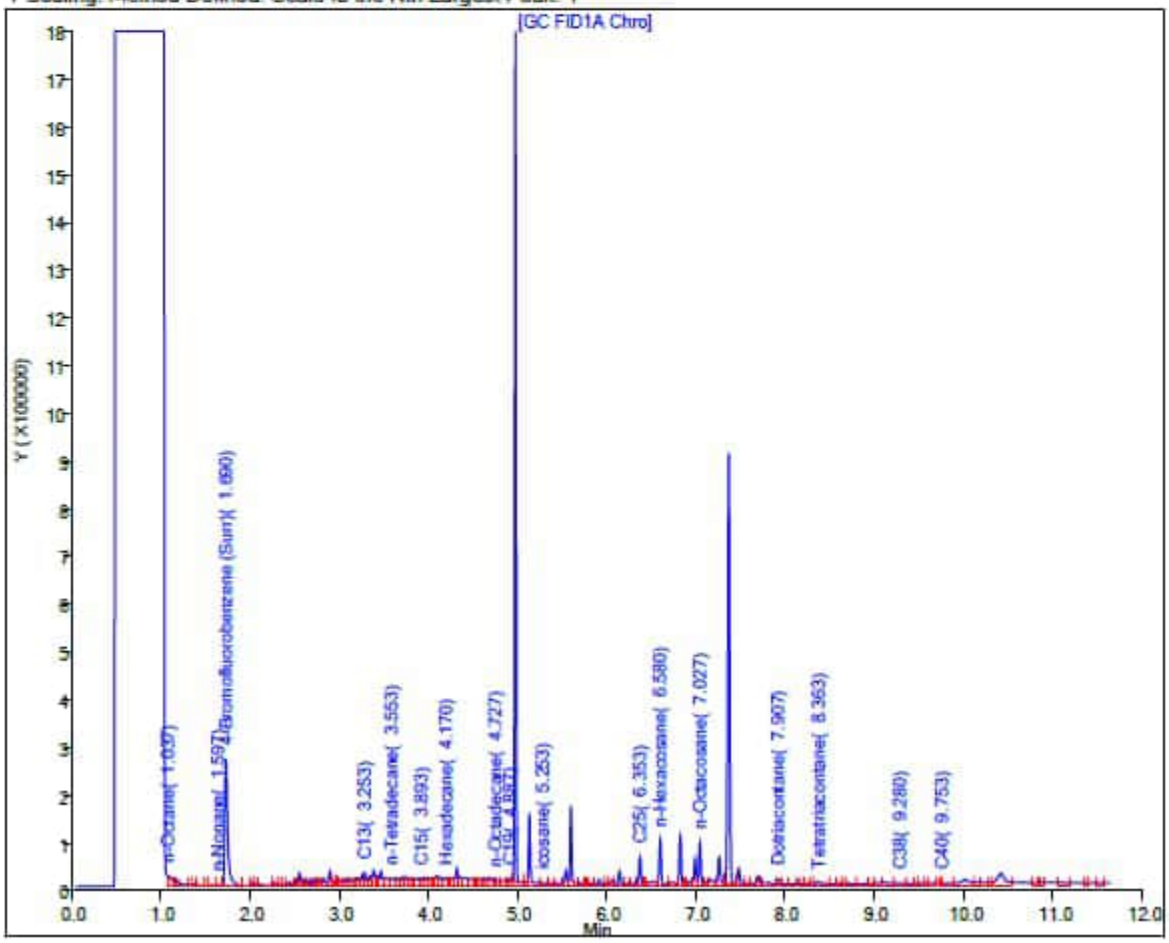
Results (ug/L): **TPH-d (C10 to C24) 120 J** **TPH-o (C24 to C40) 310 U**

Report Date: 03-Nov-2022 14:12:15 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A050.D		
Injection Date:	03-Nov-2022 00:40:21	Instrument ID:	TAC129
Lims ID:	580-119430-D-1-A	Lab Sample ID:	580-119430-1
Client ID:	RHMW01R-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

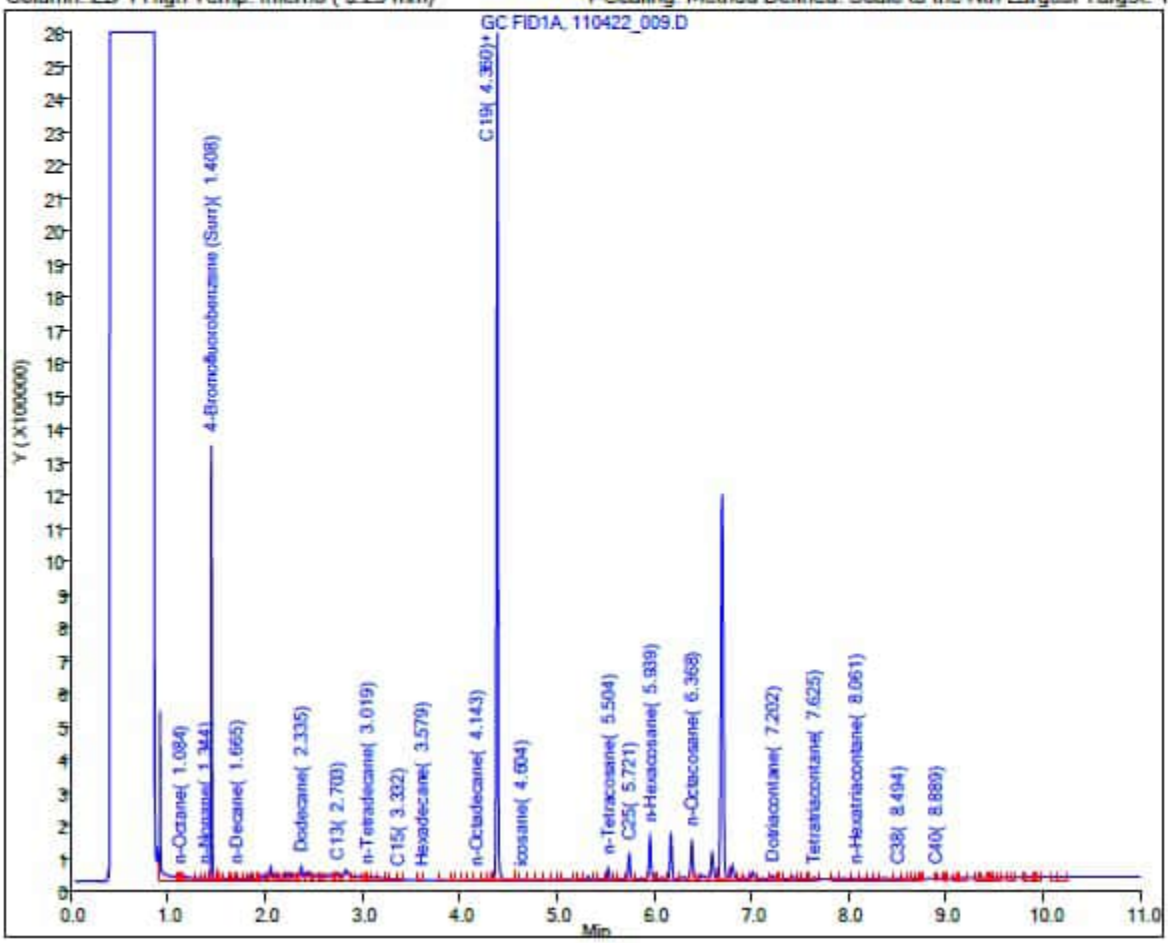


Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 04-Nov-2022 19:56:31 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221104-85629.b\110422_009.D
Injection Date: 04-Nov-2022 18:37:30 Instrument ID: TAC020
Lims ID: 580-119430-D-1-B Lab Sample ID: 580-119430-1
Client ID: RHMW01R-WGN02B-2210WK4
Operator ID: DH ALS Bottle#: 8 Worklist Smp#: 76
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2210WK5 Sample Date: 11/1/2022

Lab: Eurofins Seattle

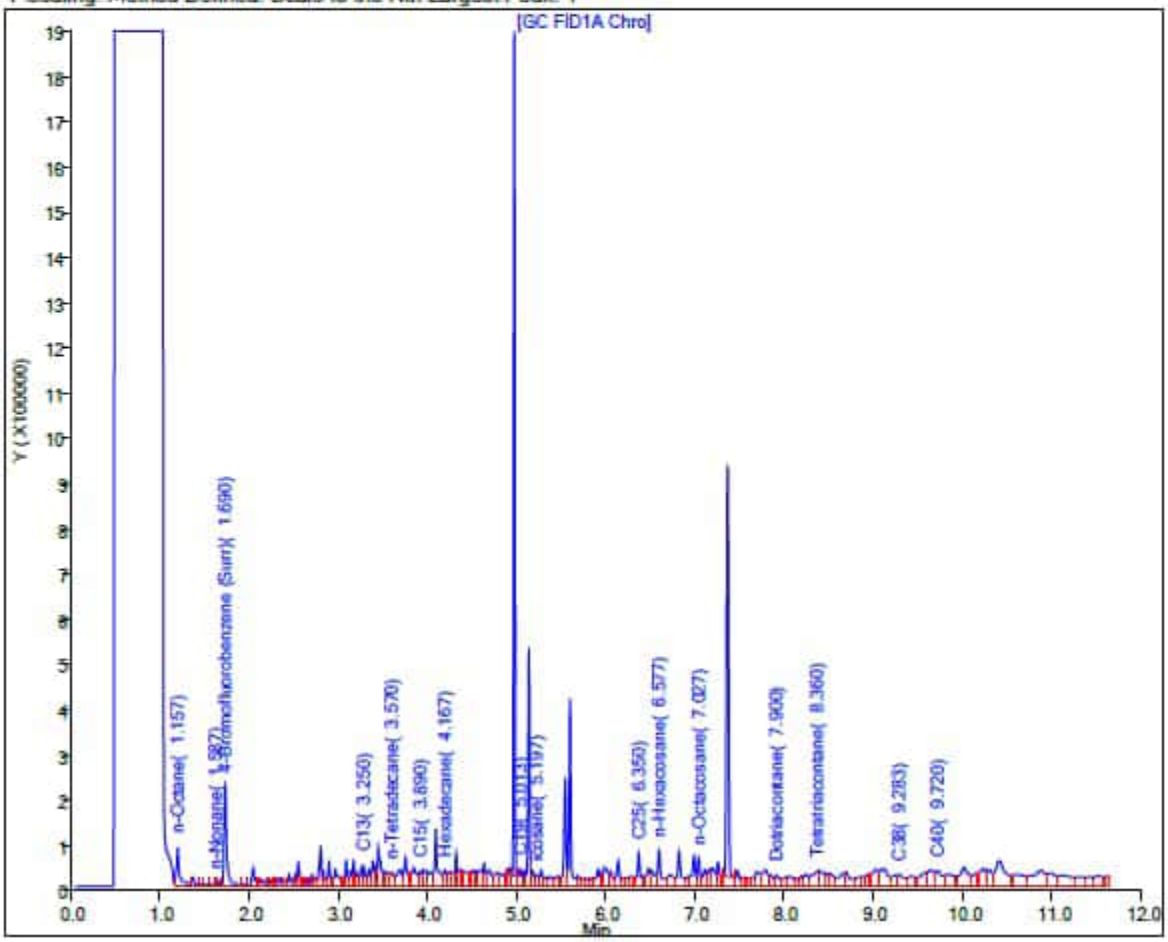
Results (ug/L): **TPH-d (C10 to C24) 240 J** **TPH-o (C24 to C40) 230 J**

Report Date: 08-Nov-2022 15:36:52 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221107-85649.b\110722A052.D		
Injection Date:	08-Nov-2022 04:23:54	Instrument ID:	TAC129
Lims ID:	580-119618-N-5-A	Lab Sample ID:	580-119618-5
Client ID:	RHMW01R-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



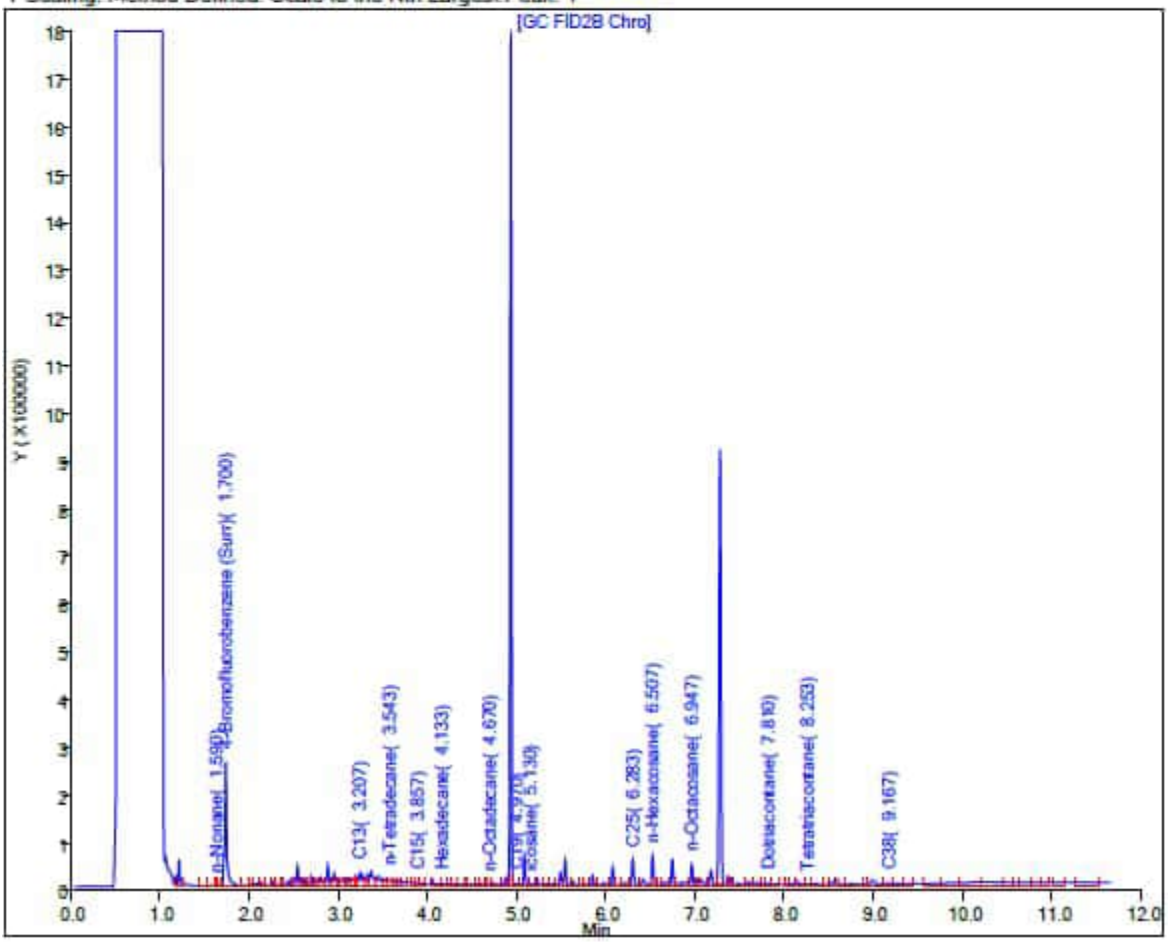
Results (ug/L): **TPH-d SGC (C10 to C24) 75 J** **TPH-o SGC (C24 to C40) <230 U**

Report Date: 14-Nov-2022 16:15:37 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A021.D		
Injection Date:	11-Nov-2022 19:28:39	Instrument ID:	TAC129_R
Lims ID:	580-119618-N-5-B	Lab Sample ID:	580-119618-5
Client ID:	RHMW01R-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN02B-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

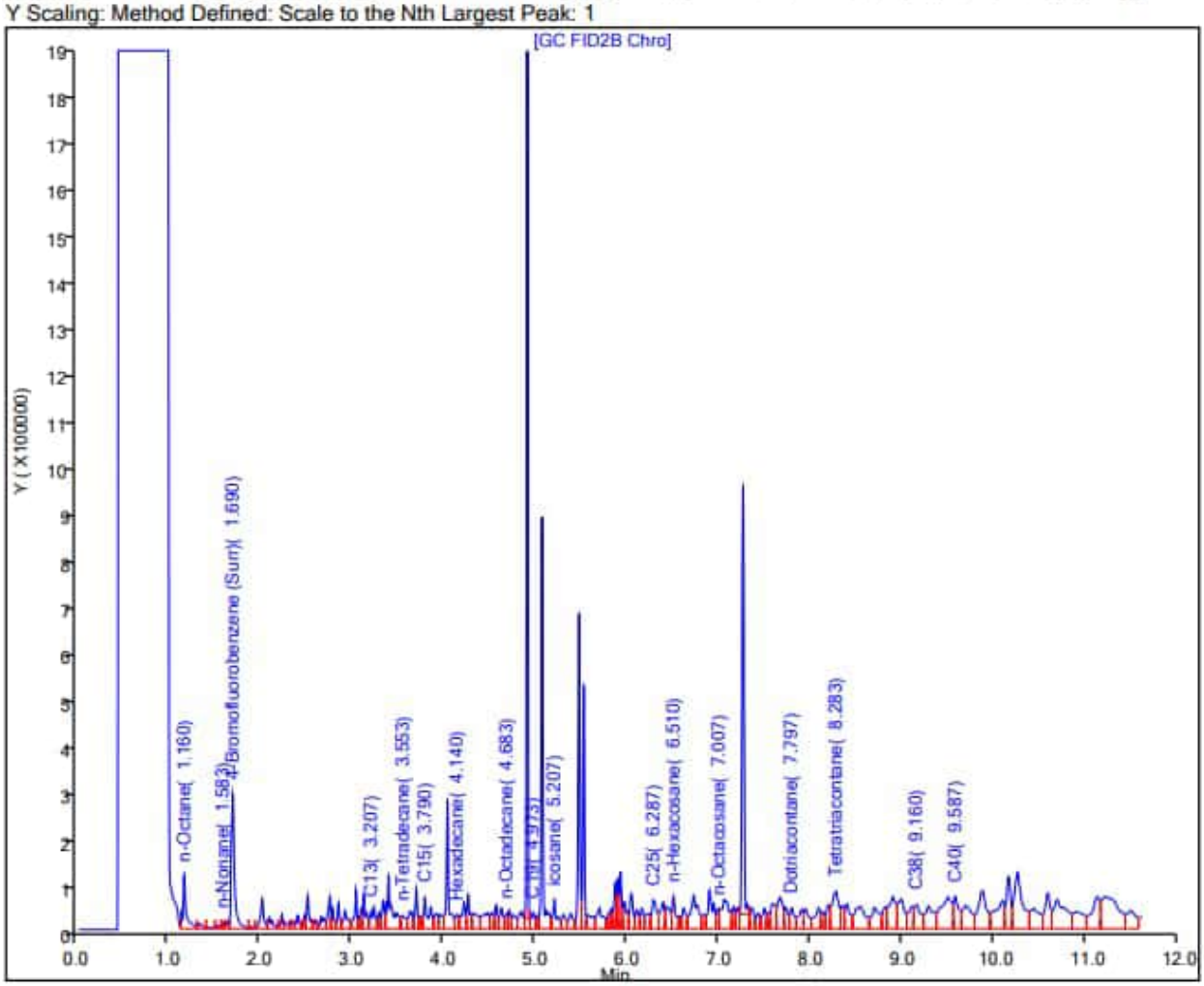
Results (ug/L): **TPH-d (C10 to C24) 400** **TPH-o (C24 to C40) 500 J**

Report Date: 11-Nov-2022 16:00:52 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A015.D				
Injection Date:	10-Nov-2022 20:44:14	Instrument ID:	TAC129_R		
Lims ID:	580-119733-N-3-A	Lab Sample ID:	580-119733-3		
Client ID:	RHMW01R-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



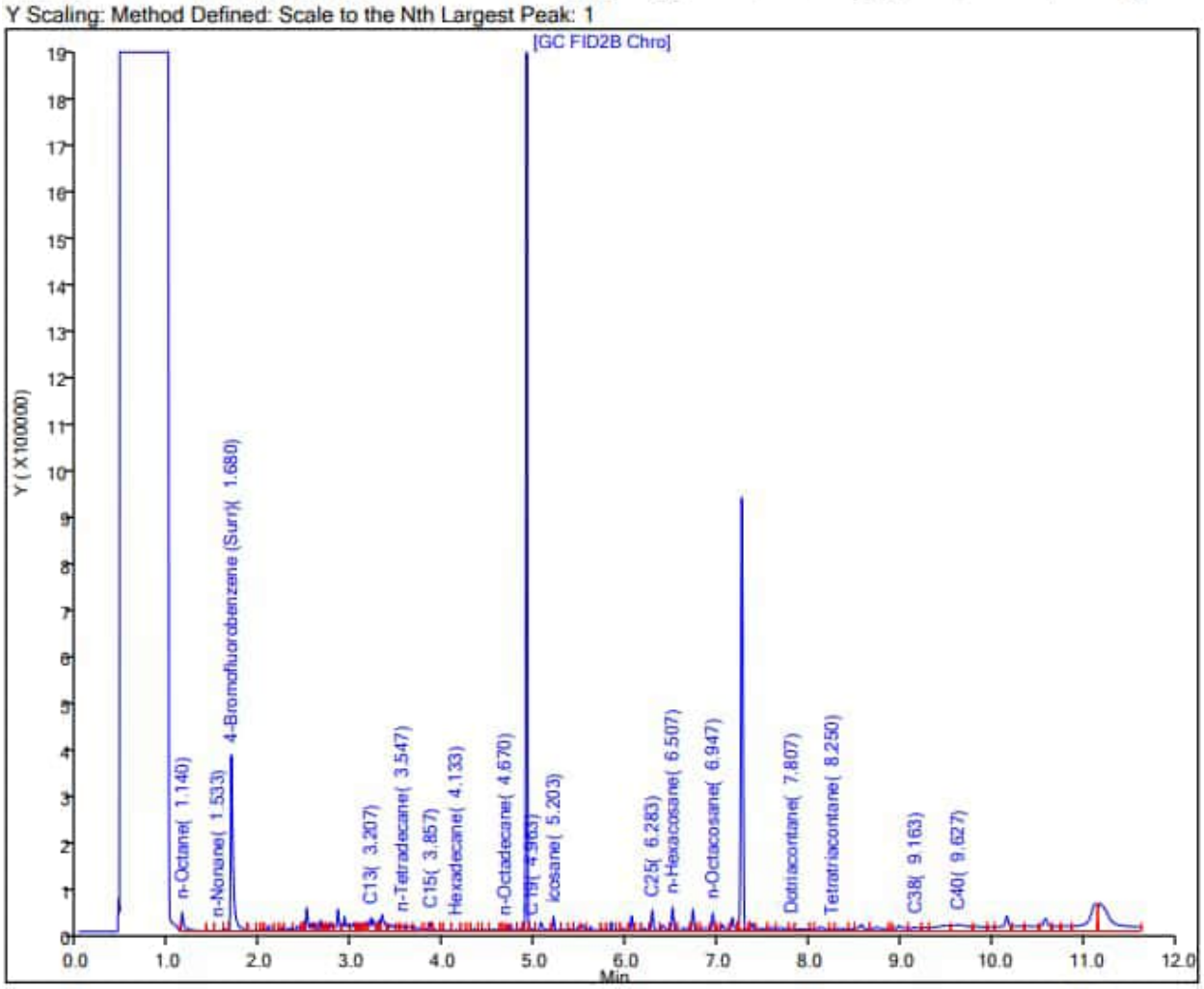
Results (ug/L): **TPH-d SGC (C10 to C24) 70 J** **TPH-o SGC (C24 to C40) <240 U**

Report Date: 15-Nov-2022 22:31:55 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A019.D				
Injection Date:	15-Nov-2022 19:52:38	Instrument ID:	TAC129_R		
Lims ID:	580-119733-N-3-B	Lab Sample ID:	580-119733-3		
Client ID:	RHMW01R-WGN02B-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN02B-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

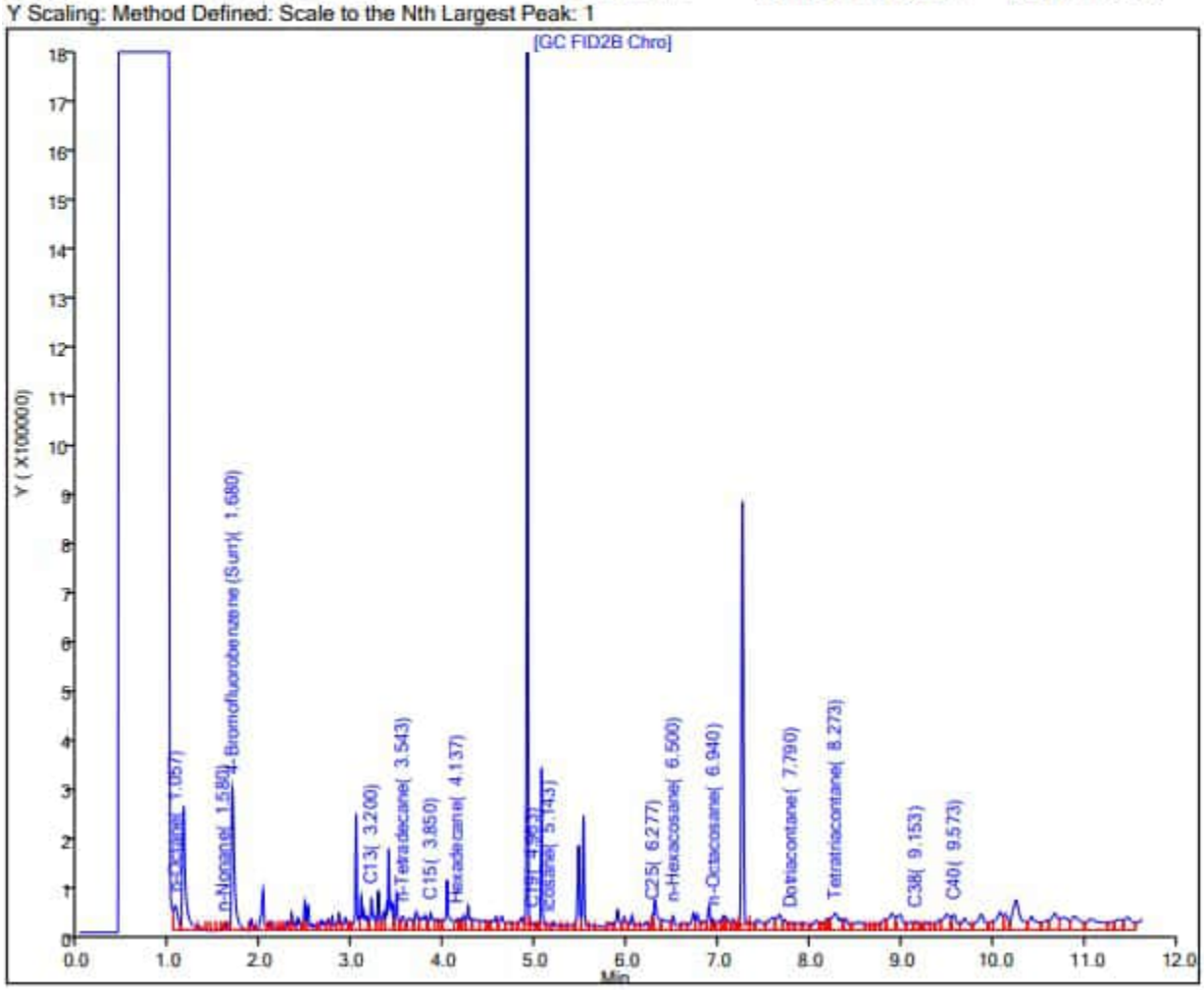
Results (ug/L): **TPH-d (C10 to C24) 340** **TPH-o (C24 to C40) 340 J**

Report Date: 30-Nov-2022 12:33:07 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A045.D				
Injection Date:	30-Nov-2022 00:54:55	Instrument ID:	TAC129_R		
Lims ID:	580-120410-E-7-A	Lab Sample ID:	580-120410-7		
Client ID:	RHMW01R-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



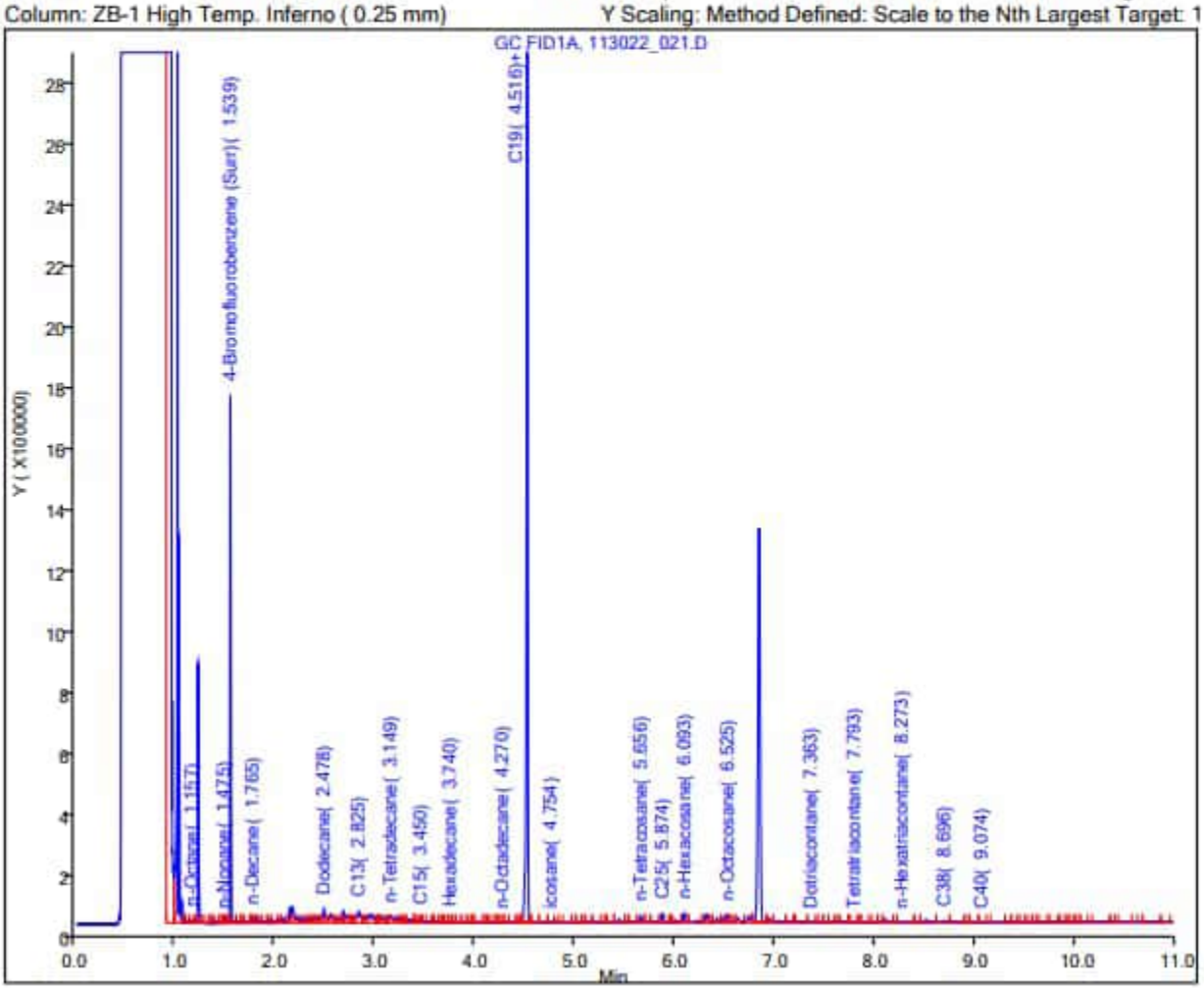
Results (ug/L): **TPH-d SGC (C10 to C24) 83 J** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 30-Nov-2022 22:33.04 Chrom Revision: 2.3 22-Nov-2022 16.59.54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_021.D				
Injection Date:	30-Nov-2022 19:31:30	Instrument ID:	TAC020		
Lims ID:	580-120410-E-7-B	Lab Sample ID:	580-120410-7		
Client ID:	RHMW01R-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

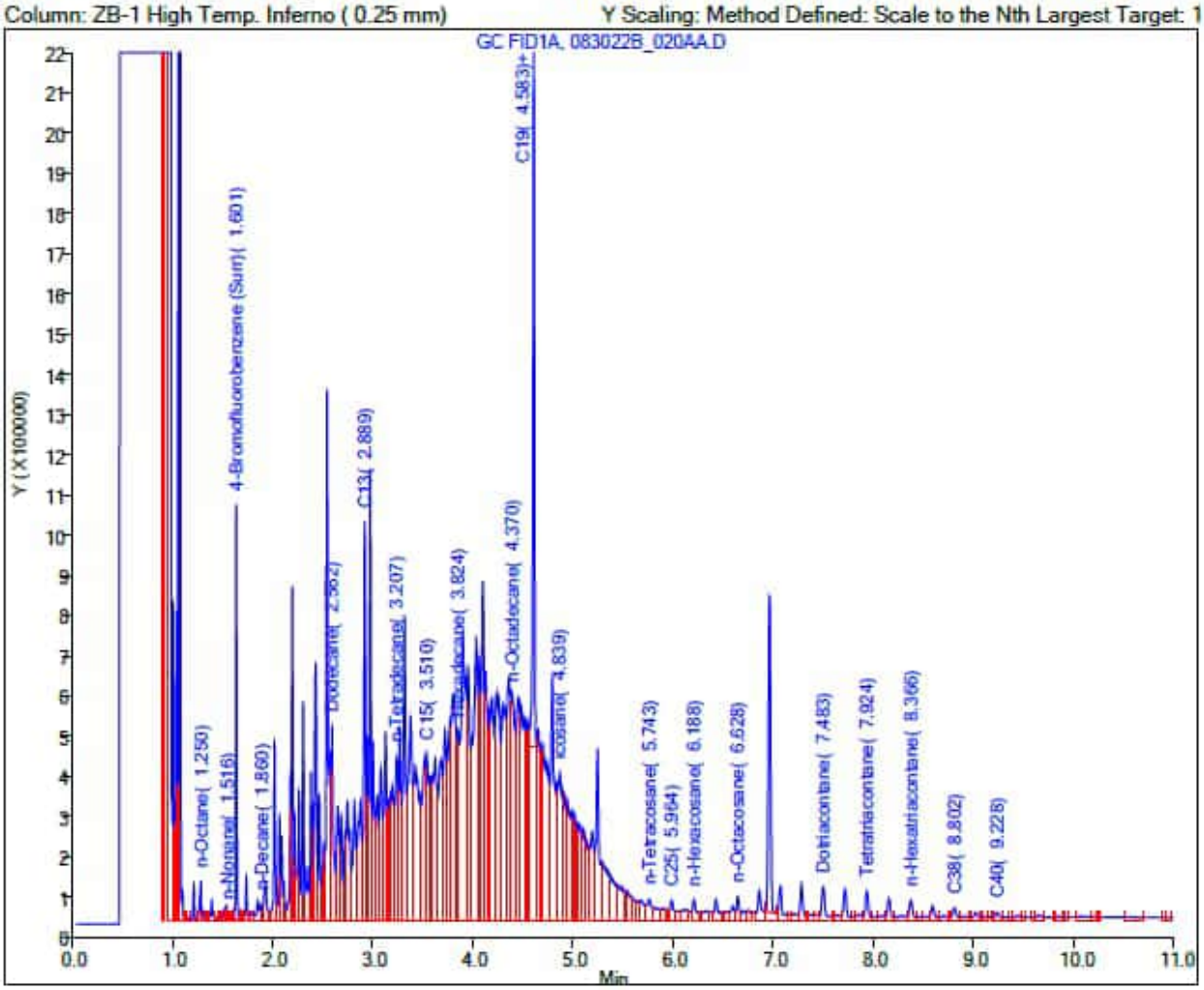
Results (ug/L): **TPH-d (C10 to C24) 2300 J** **TPH-o (C24 to C40) 190 J**

Report Date: 31-Aug-2022 13:05:56 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220830-84577.b\083022B_020AA.D				
Injection Date:	31-Aug-2022 02:17:30	Instrument ID:	TAC020		
Lims ID:	580-117283-O-5-A	Lab Sample ID:	580-117283-5		
Client ID:	RHMW02-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



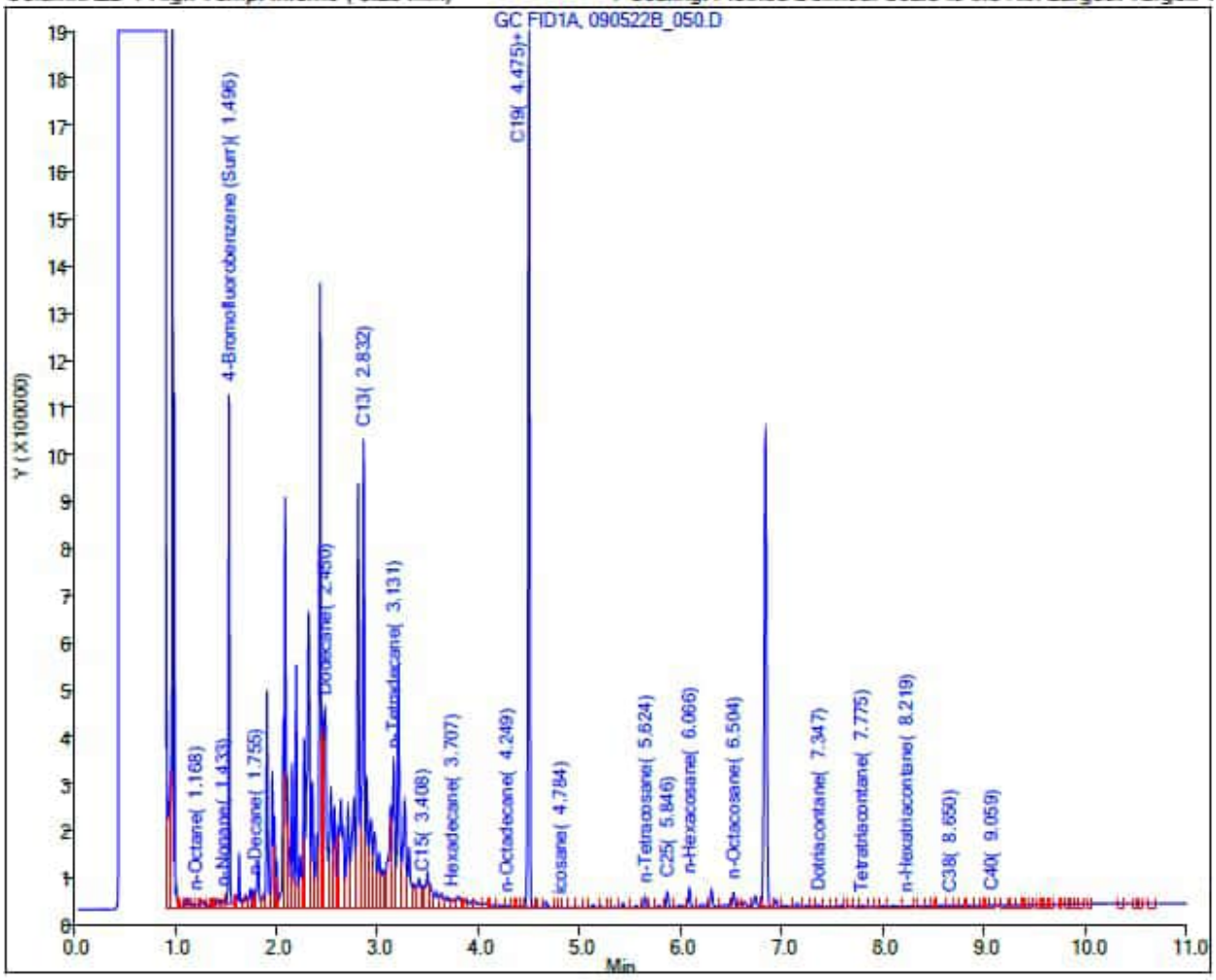
Results (ug/L): **TPH-d SGC (C10 to C24) 610** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 06-Sep-2022 16:23:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_050.D				
Injection Date:	06-Sep-2022 15:03:30	Instrument ID:	TAC020		
Lims ID:	580-117283-O-5-C	Lab Sample ID:	580-117283-5		
Client ID:	RHMW02-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	49	Worklist Smp#:	115
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

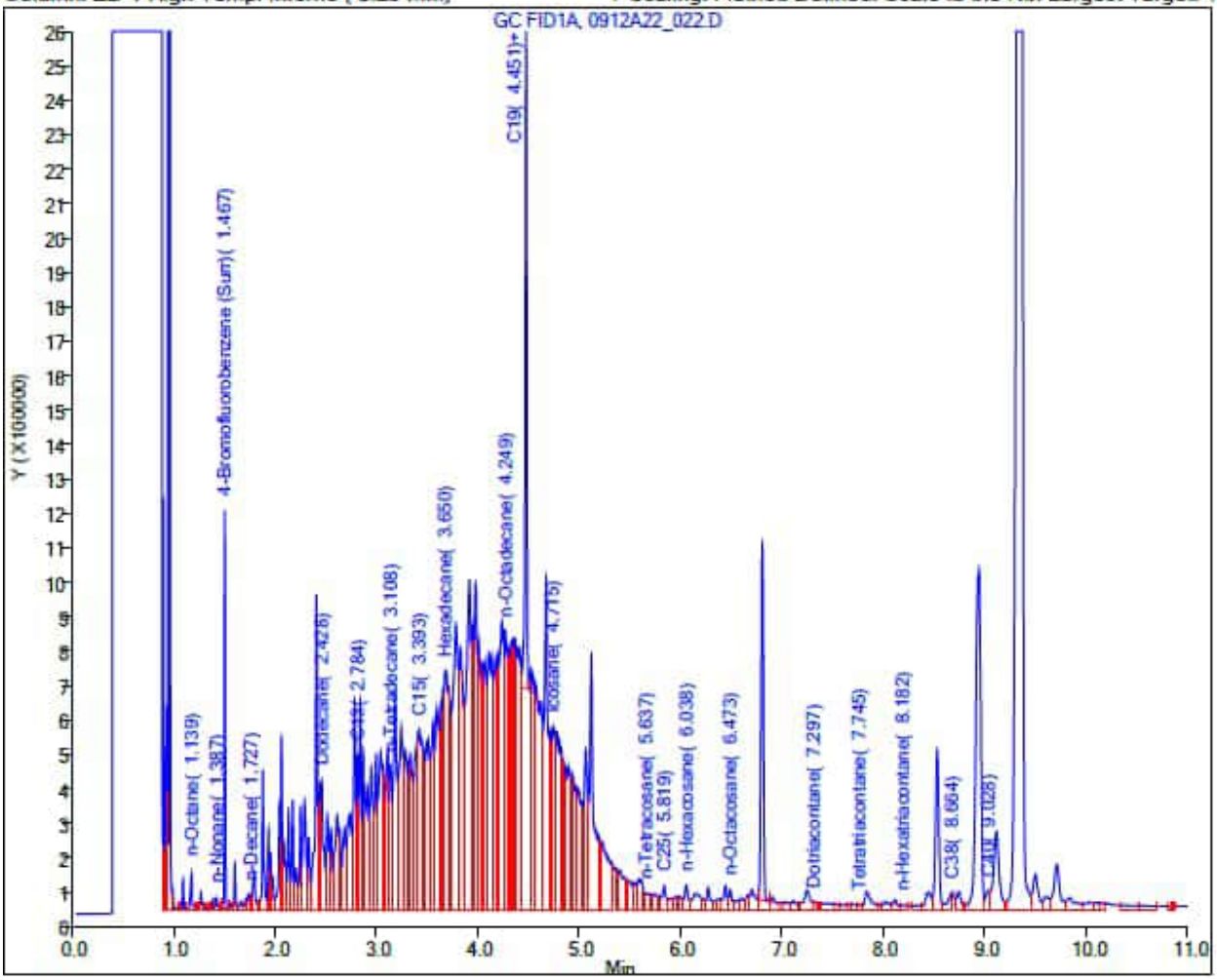
Results (ug/L): **TPH-d (C10 to C24) 2900** **TPH-o (C24 to C40) 580**

Report Date: 13-Sep-2022 12:01:56 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_022.D				
Injection Date:	13-Sep-2022 00:22:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-3-A	Lab Sample ID:	580-117667-3		
Client ID:	RHMW02-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



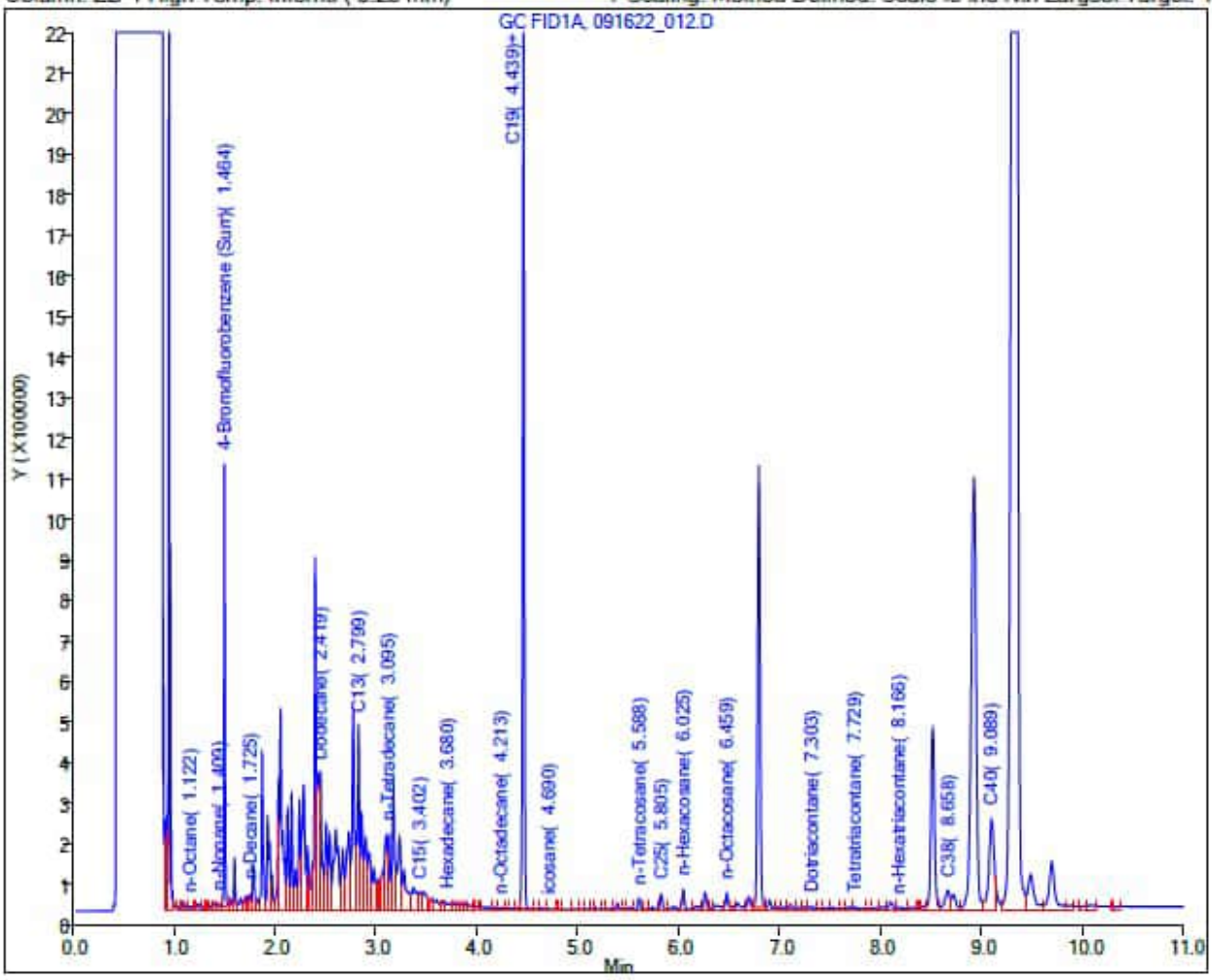
Results (ug/L): **TPH-d SGC (C10 to C24) 470** **TPH-o SGC (C24 to C40) 340 J**

Report Date: 18-Sep-2022 14:51:22 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_012.D				
Injection Date:	16-Sep-2022 21:54:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-3-B	Lab Sample ID:	580-117667-3		
Client ID:	RHMW02-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2209WK2 Sample Date: 9/13/2022
Lab: Eurofins Seattle

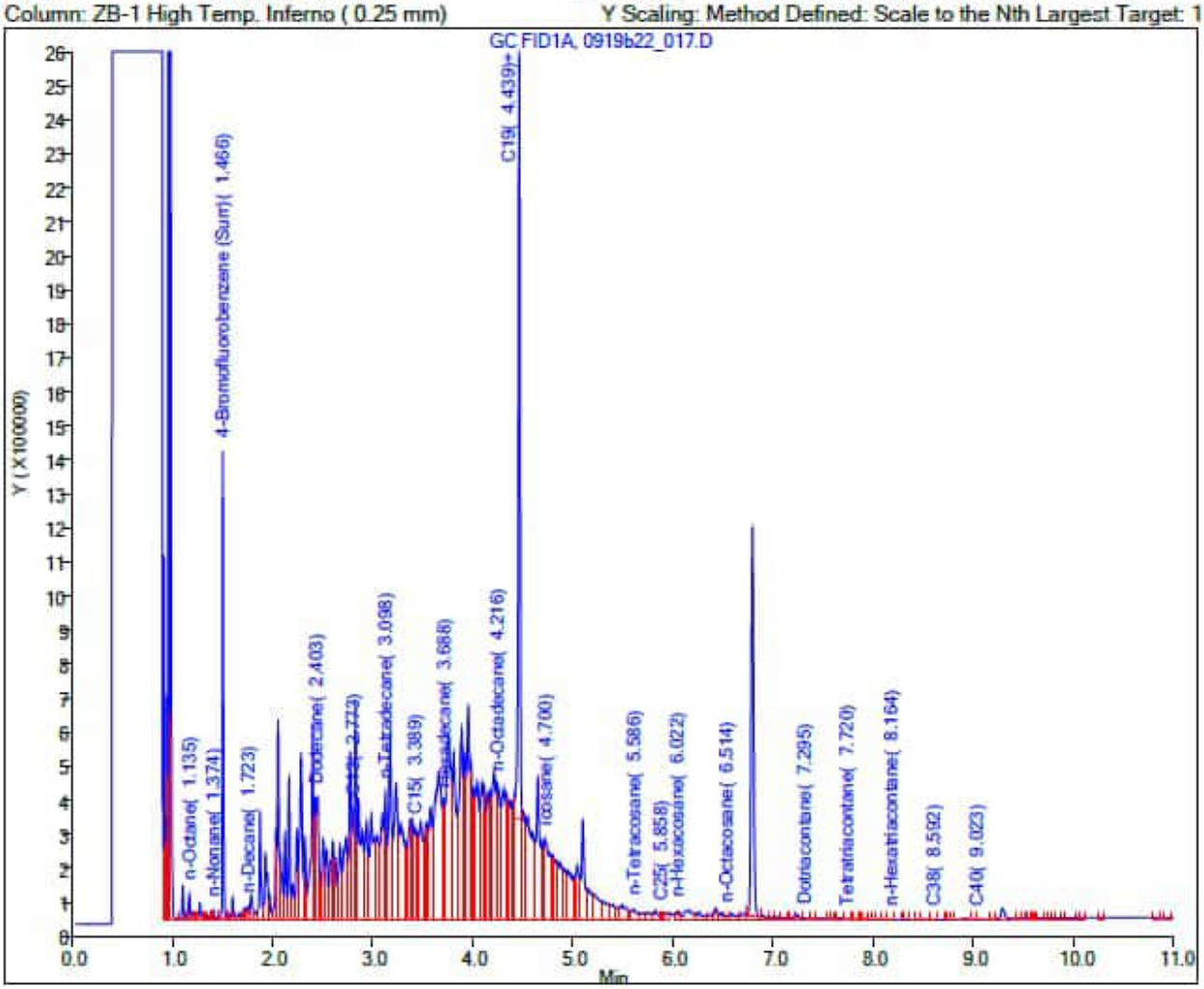
Results (ug/L): **TPH-d (C10 to C24) 1700** **TPH-o (C24 to C40) <300 U**

Report Date: 20-Sep-2022 11:51:03 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_017.D				
Injection Date:	19-Sep-2022 21:48:30	Instrument ID:	TAC020		
Lims ID:	580-117880-E-5-A	Lab Sample ID:	580-117880-5		
Client ID:	RHMW02-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



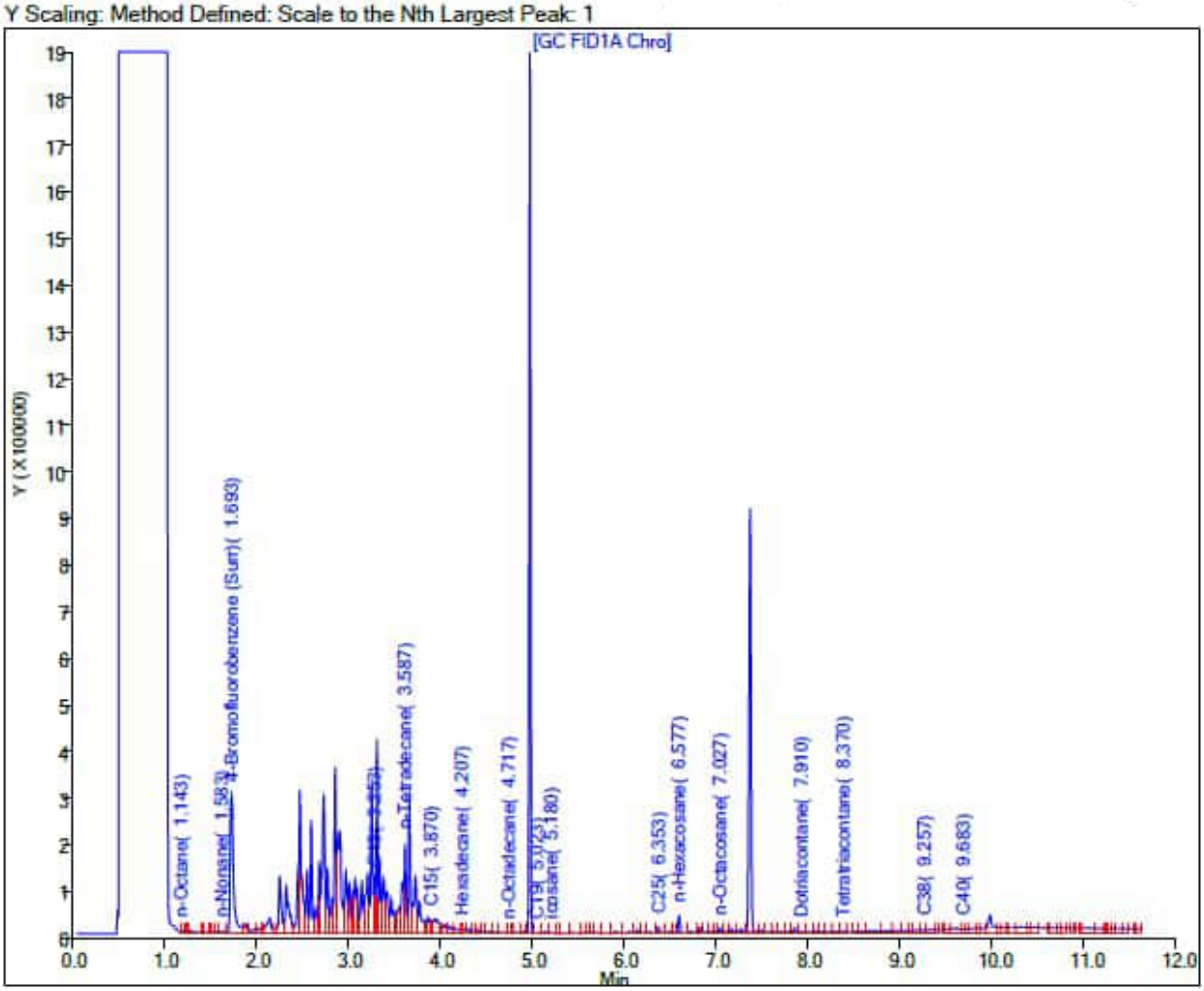
Results (ug/L): **TPH-d SGC (C10 to C24) 410** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 21-Sep-2022 19:22:51 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A014.D				
Injection Date:	21-Sep-2022 16:11:48	Instrument ID:	TAC129		
Lims ID:	580-117880-E-5-B	Lab Sample ID:	580-117880-5		
Client ID:	RHMW02-WGN01B-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK1 Sample Date: 10/4/2022
Lab: Eurofins Seattle

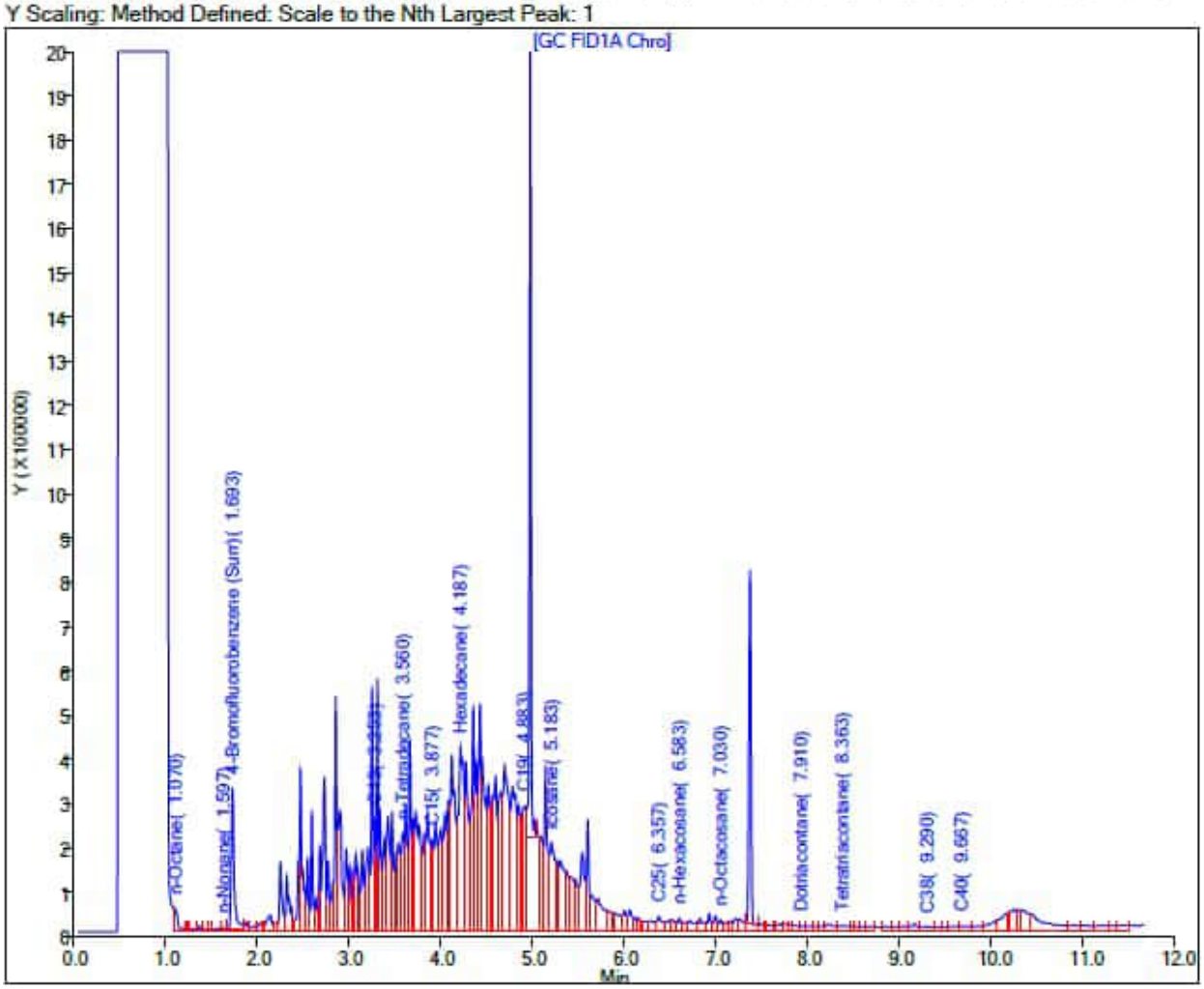
Results (ug/L): **TPH-d (C10 to C24) 1900** **TPH-o (C24 to C40) 180 J**

Report Date: 11-Oct-2022 13:55:42 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A038.D				
Injection Date:	10-Oct-2022 22:47:58	Instrument ID:	TAC129		
Lims ID:	580-118612-F-3-A	Lab Sample ID:	580-118612-3		
Client ID:	RHMW02-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



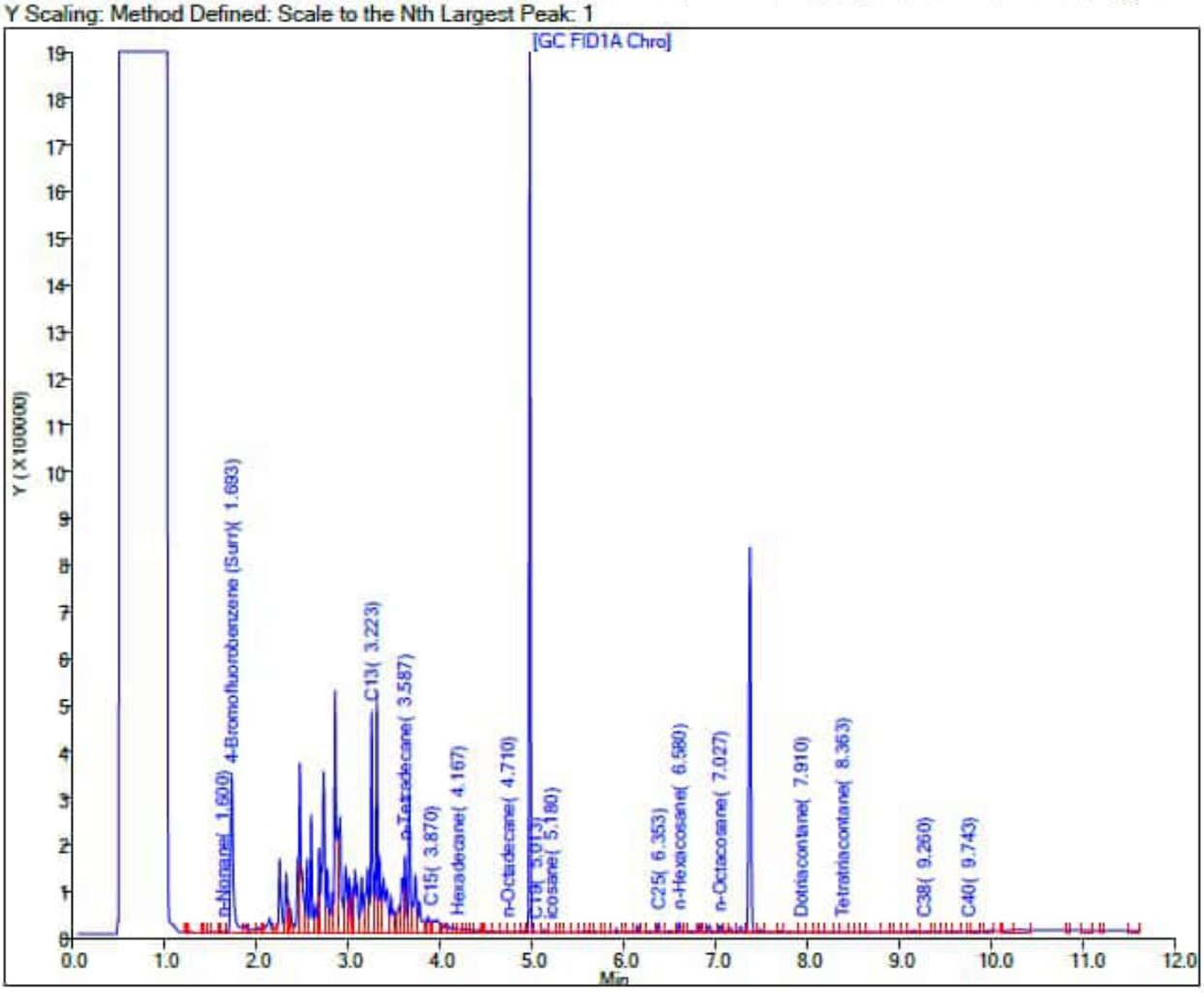
Results (ug/L): **TPH-d SGC (C10 to C24) 450** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:55:47 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A018.D				
Injection Date:	11-Oct-2022 19:39:40	Instrument ID:	TAC129		
Lims ID:	580-118612-F-3-B	Lab Sample ID:	580-118612-3		
Client ID:	RHMW02-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

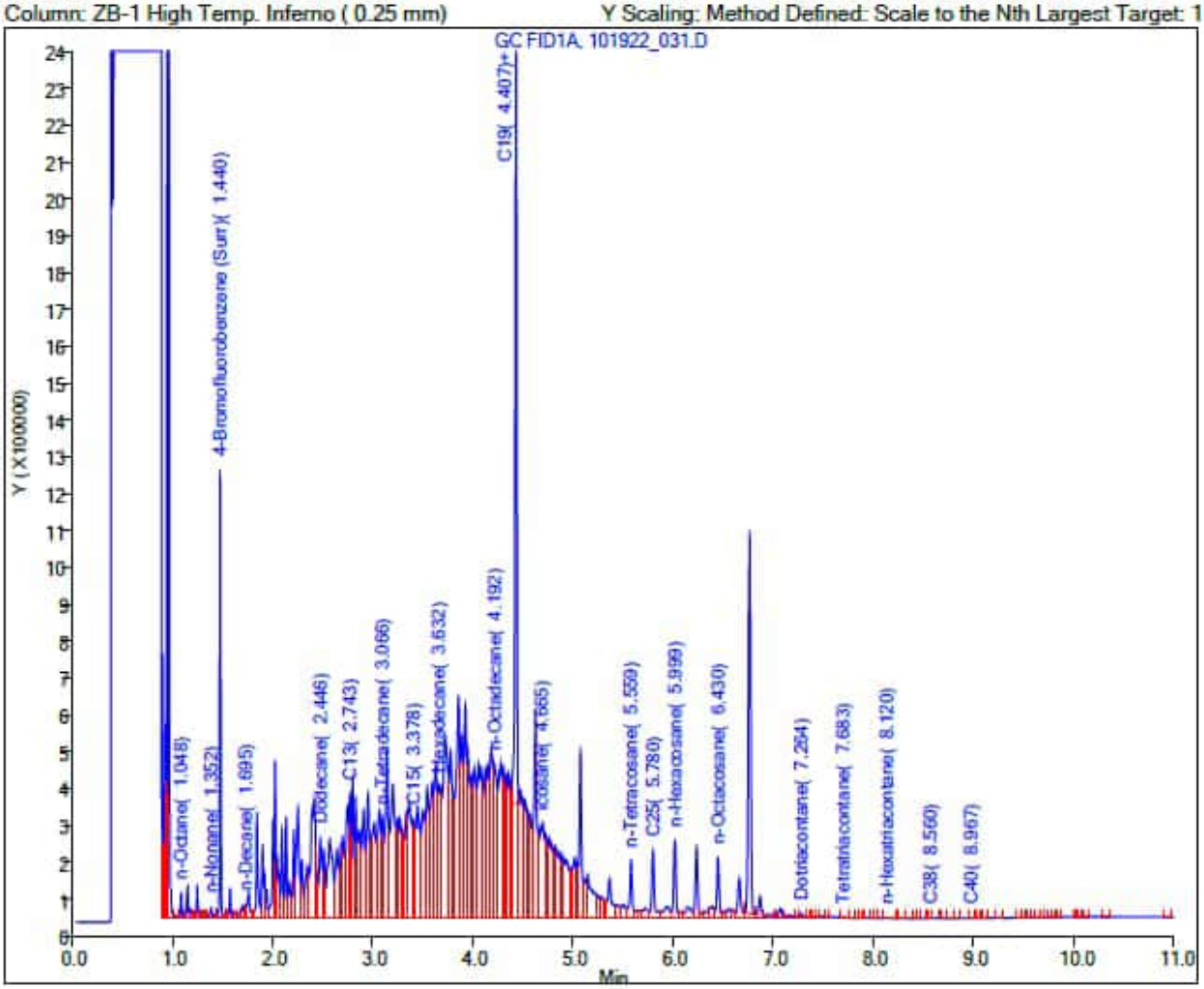
Results (ug/L): **TPH-d (C10 to C24) 1700** **TPH-o (C24 to C40) 190 J**

Report Date: 20-Oct-2022 13:42:20 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_031.D				
Injection Date:	20-Oct-2022 02:14:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-15-A	Lab Sample ID:	580-118920-15		
Client ID:	RHMW02-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



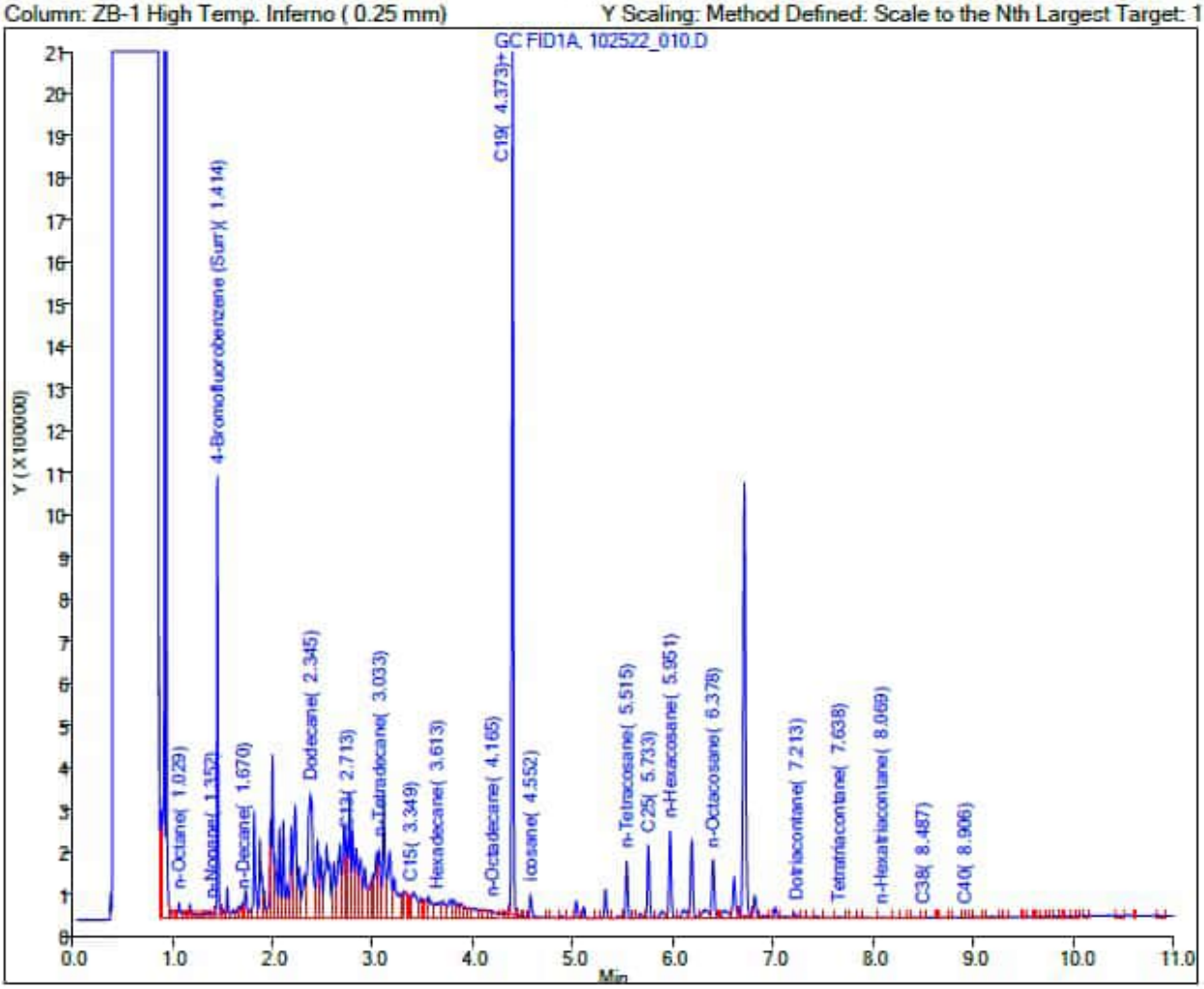
Results (ug/L): **TPH-d SGC (C10 to C24) 440** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 26-Oct-2022 13:51:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221025-85465.b\102522_010.D				
Injection Date:	25-Oct-2022 20:49:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-15-B	Lab Sample ID:	580-118920-15		
Client ID:	RHMW02-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

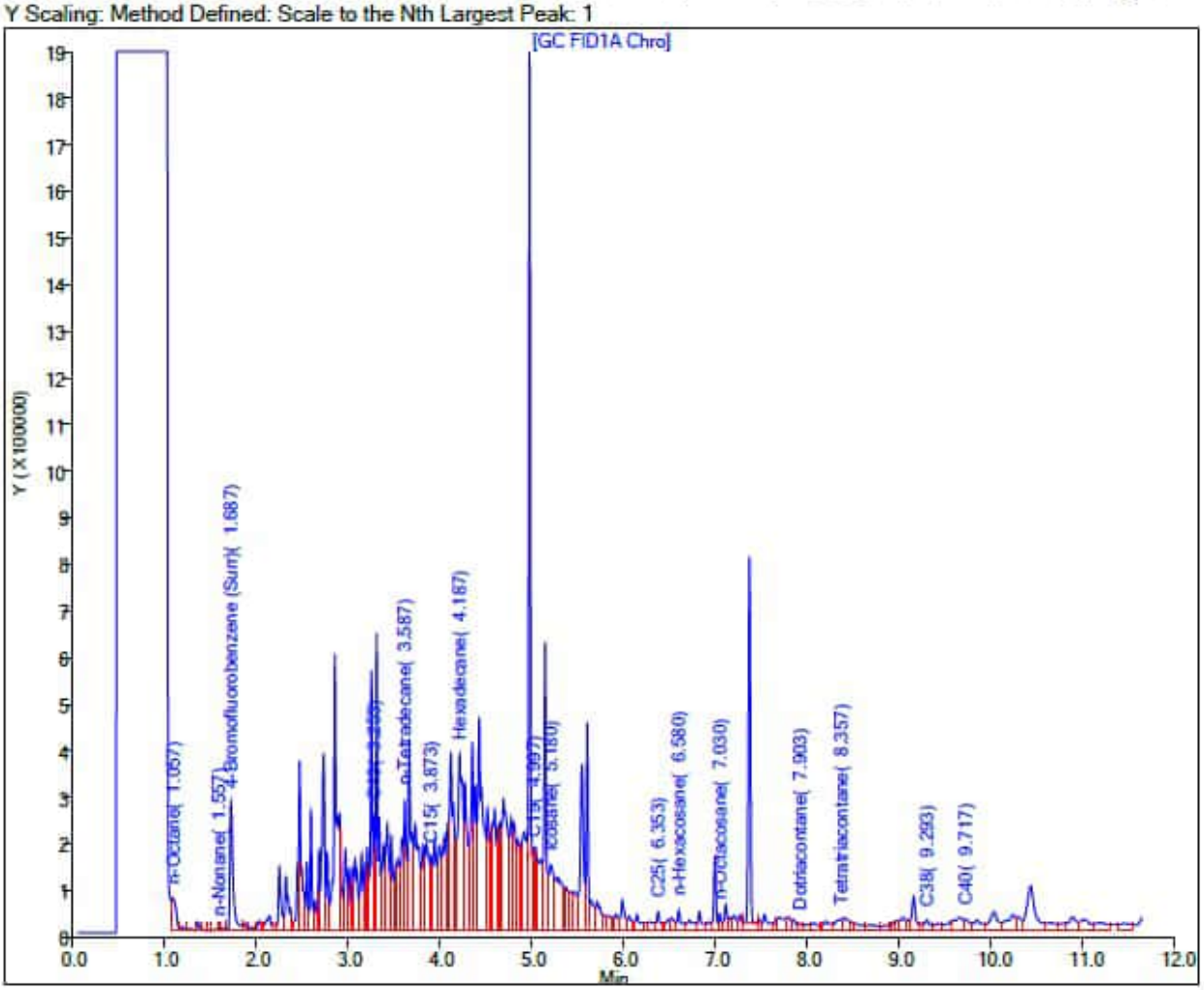
Results (ug/L): **TPH-d (C10 to C24) 1600** **TPH-o (C24 to C40) 290 J**

Report Date: 26-Oct-2022 13:36:06 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A016.D				
Injection Date:	25-Oct-2022 22:09:22	Instrument ID:	TAC129		
Lims ID:	580-119027-O-5-A	Lab Sample ID:	580-119027-5		
Client ID:	RHMW02-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



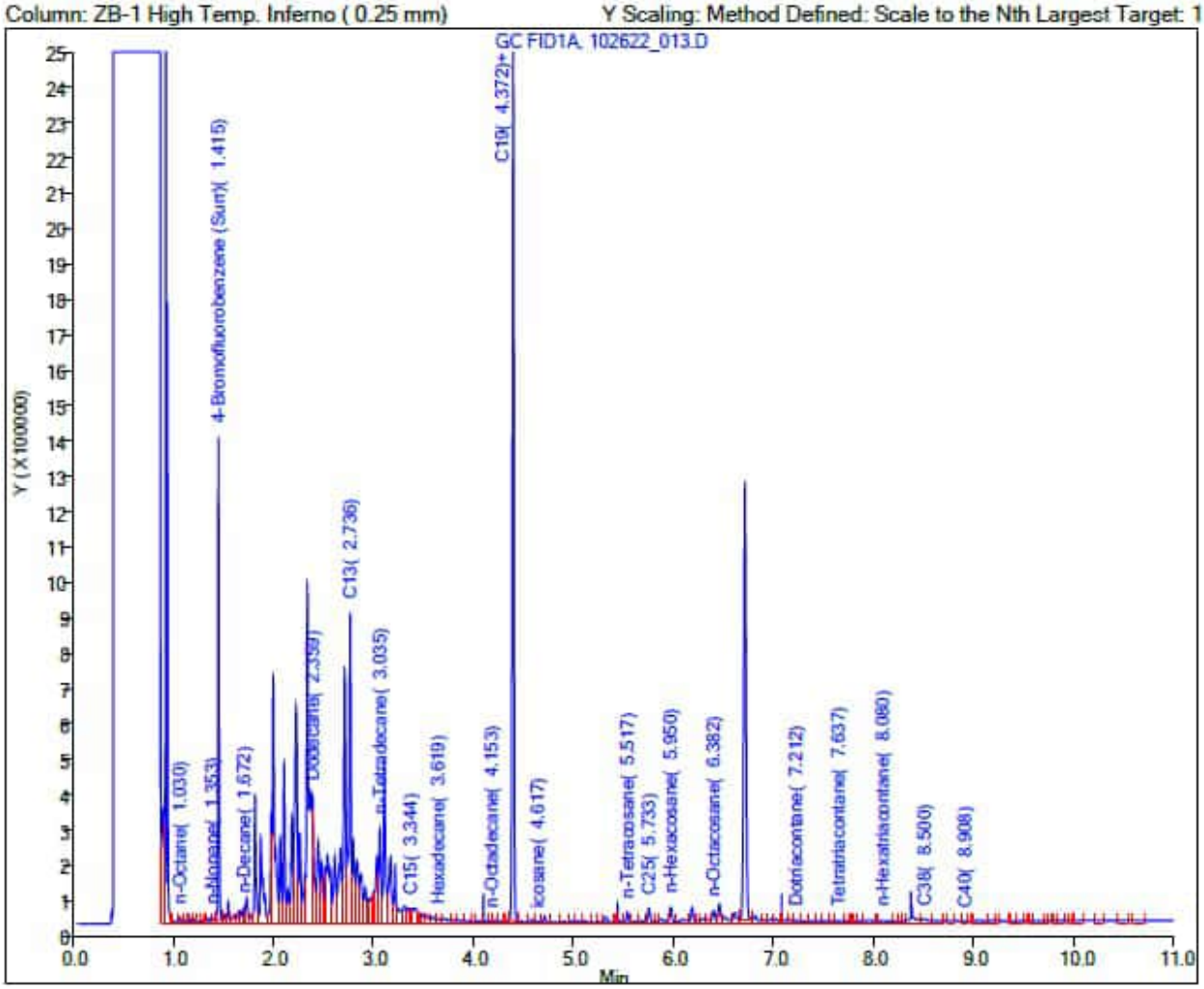
Results (ug/L): **TPH-d SGC (C10 to C24) 530** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 27-Oct-2022 13:34:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_013.D				
Injection Date:	26-Oct-2022 18:17:30	Instrument ID:	TAC020		
Lims ID:	580-119027-O-5-B	Lab Sample ID:	580-119027-5		
Client ID:	RHMW02-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

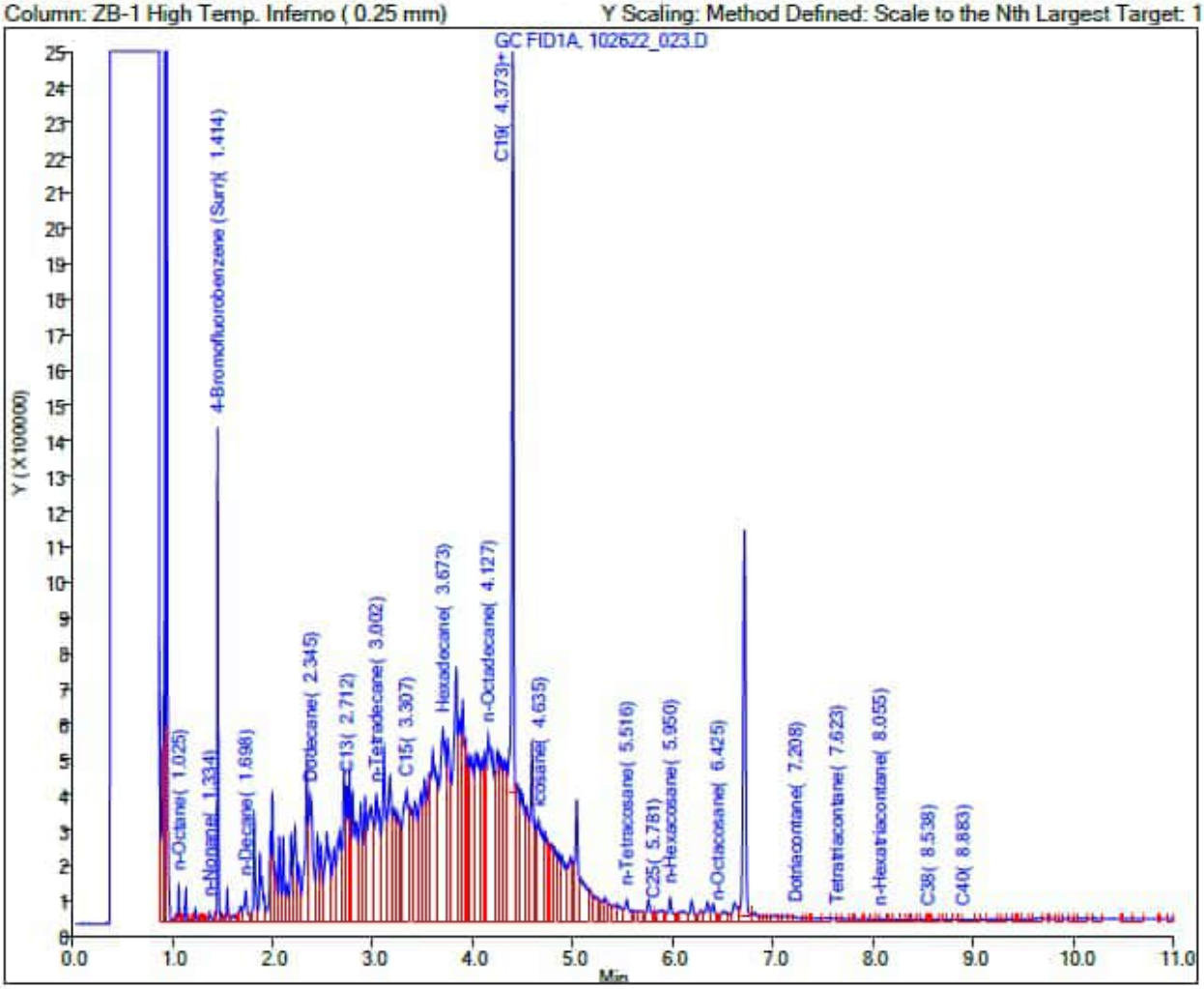
Results (ug/L): **TPH-d (C10 to C24) 2000** **TPH-o (C24 to C40) 180 J**

Report Date: 27-Oct-2022 13:37:59 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_023.D				
Injection Date:	26-Oct-2022 21:39:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-13-A	Lab Sample ID:	580-119152-13		
Client ID:	RHMW02-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



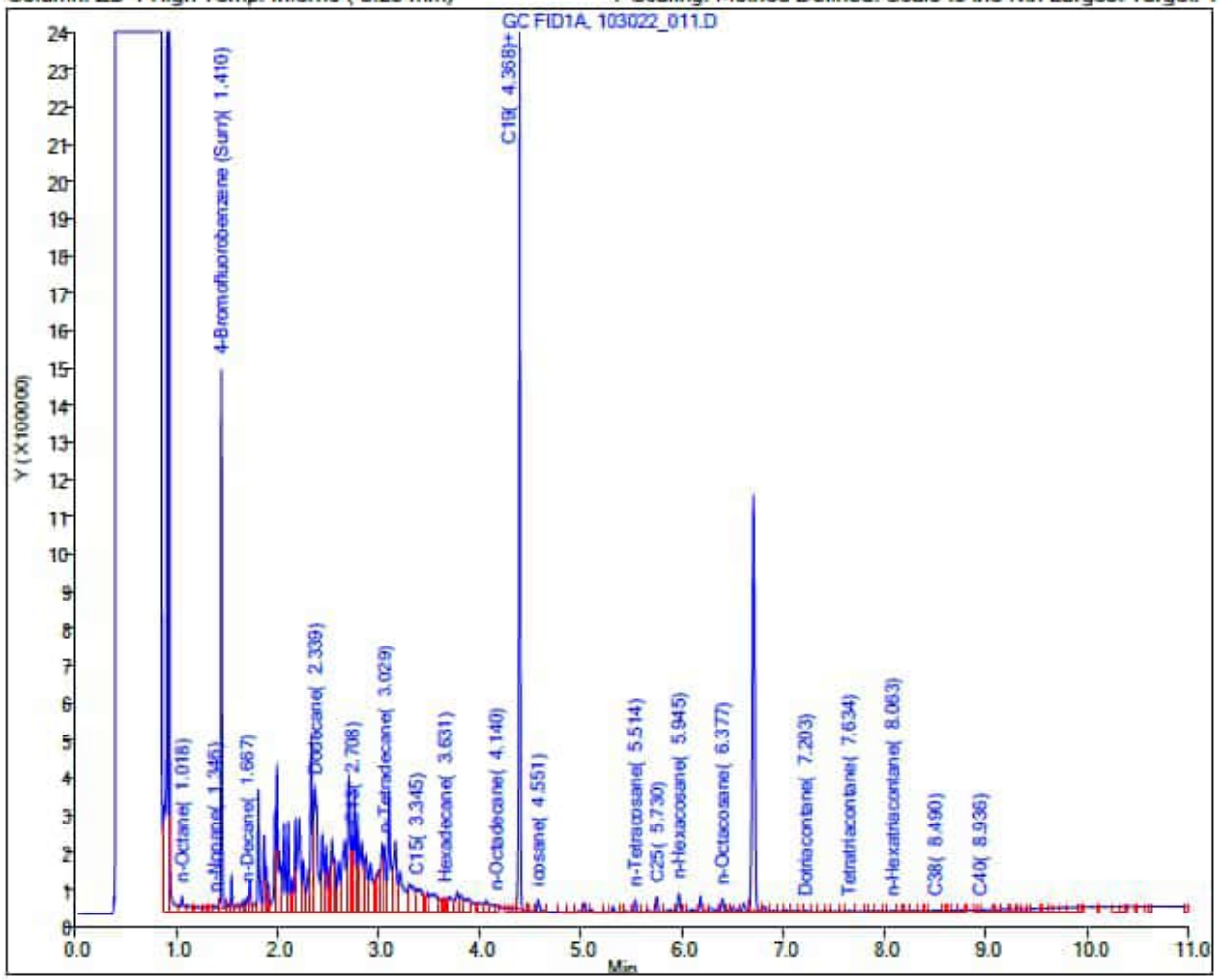
Results (ug/L): **TPH-d SGC (C10 to C24) 490** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 01-Nov-2022 13:45:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_011.D				
Injection Date:	31-Oct-2022 20:29:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-13-B	Lab Sample ID:	580-119152-13		
Client ID:	RHMW02-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

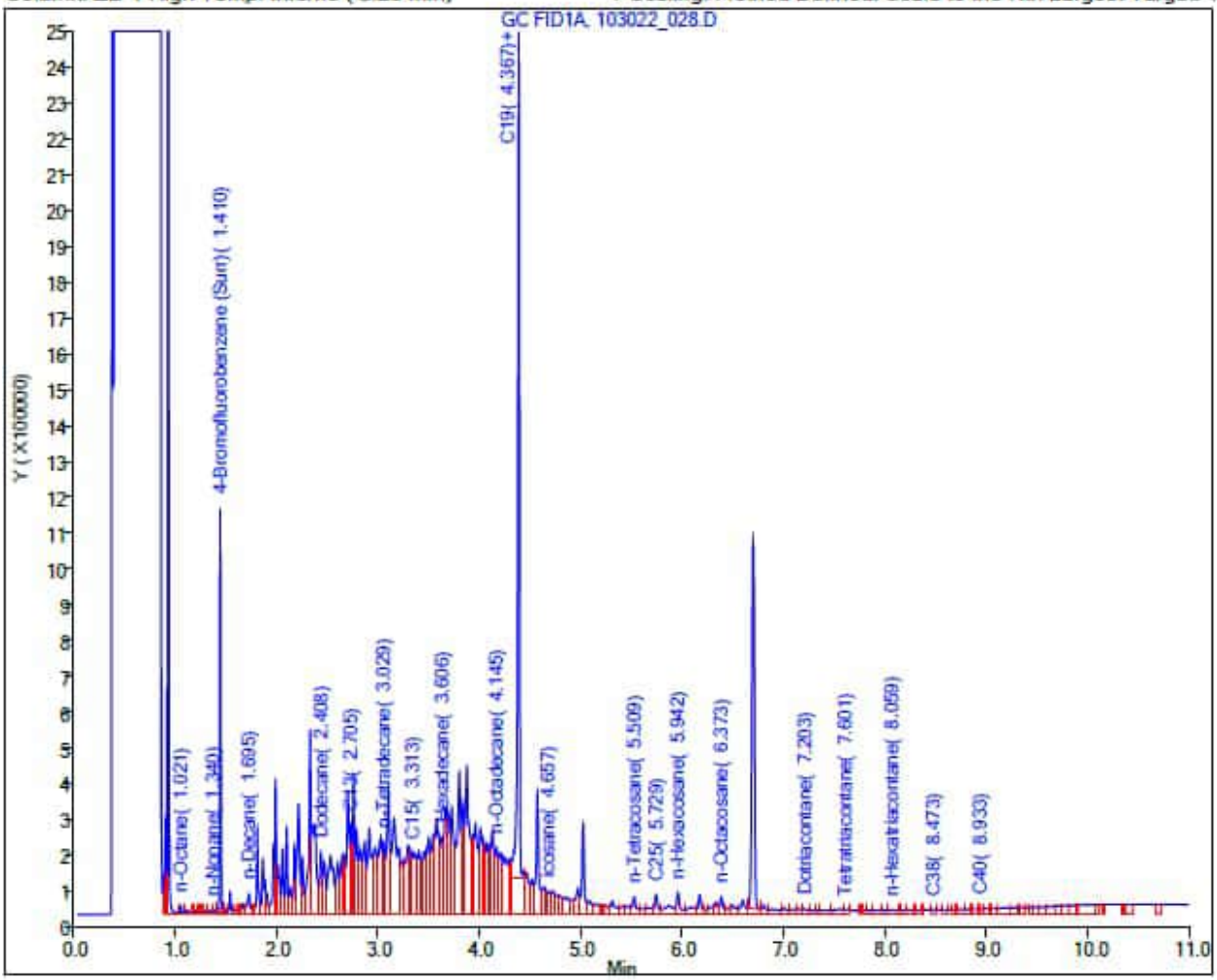
Results (ug/L): **TPH-d (C10 to C24) 1000** **TPH-o (C24 to C40) <320 U**

Report Date: 01-Nov-2022 13:47:30 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_028.D				
Injection Date:	01-Nov-2022 02:11:30	Instrument ID:	TAC020		
Lims ID:	580-119339-O-11-A	Lab Sample ID:	580-119339-11		
Client ID:	RHMW02-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



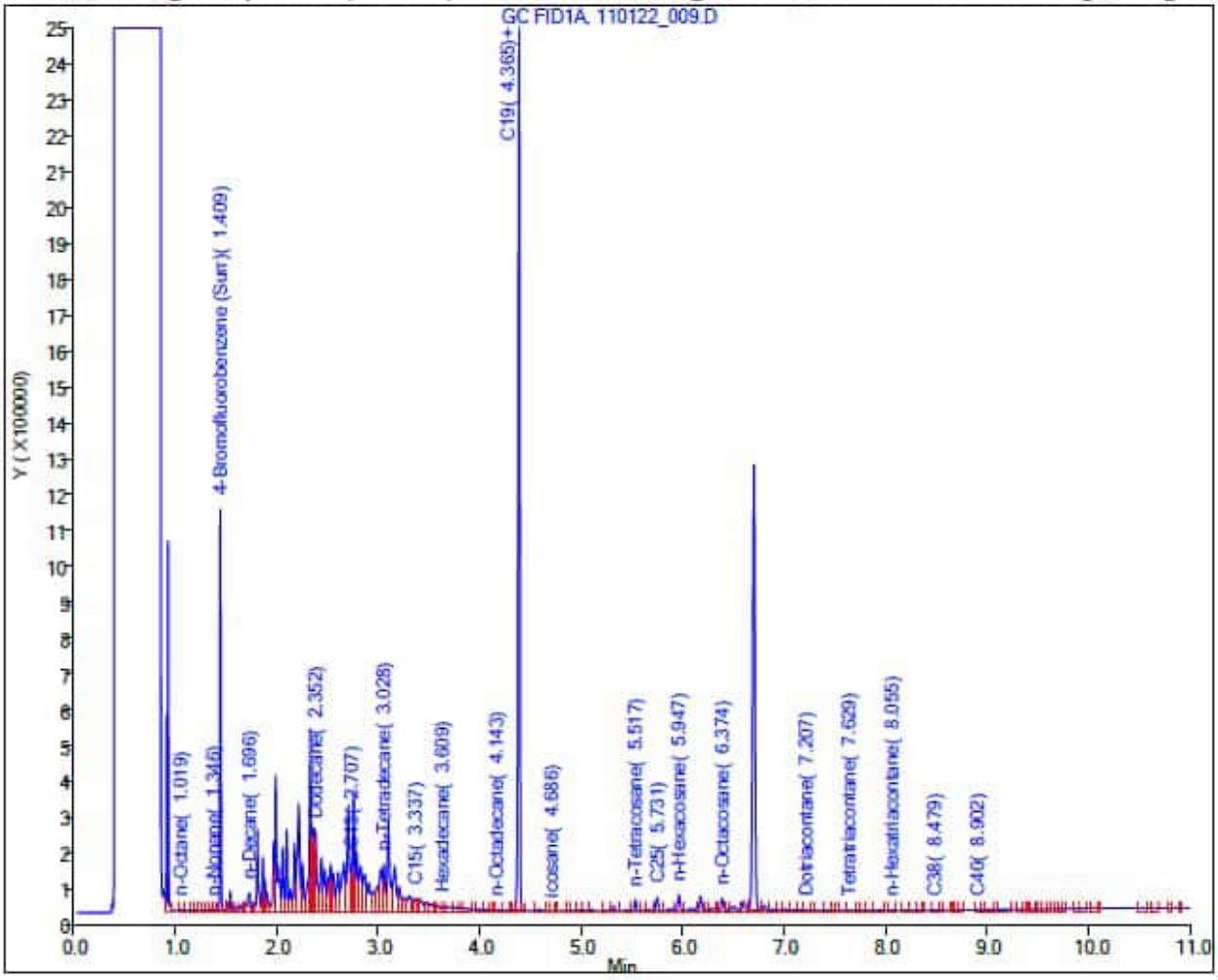
Results (ug/L): **TPH-d SGC (C10 to C24) 350** **TPH-o SGC (C24 to C40) <320 U**

Report Date: 02-Nov-2022 13:51:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_009.D				
Injection Date:	01-Nov-2022 18:20:30	Instrument ID:	TAC020		
Lims ID:	580-119339-O-11-B	Lab Sample ID:	580-119339-11		
Client ID:	RHMW02-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

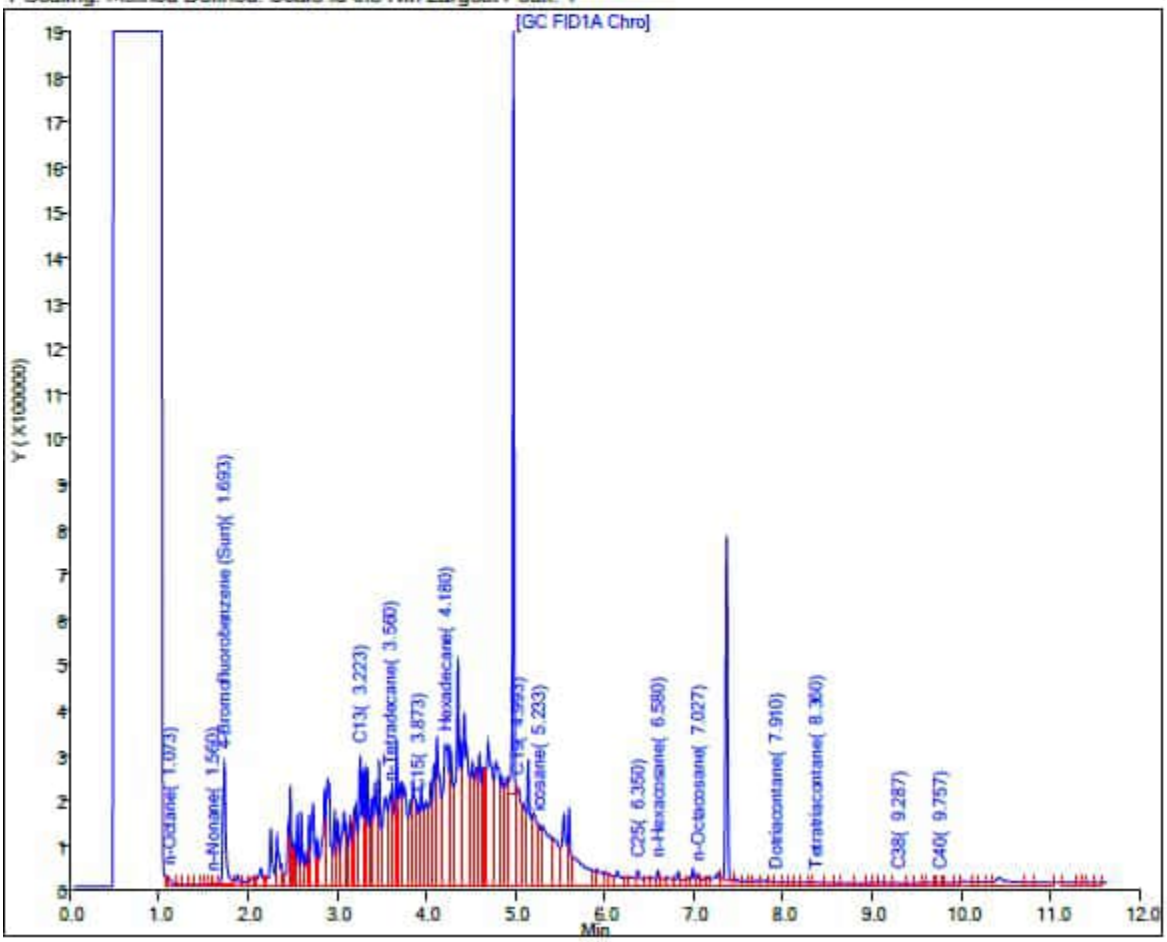
Results (ug/L): **TPH-d (C10 to C24) 1500 J** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:12:03 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A042.D		
Injection Date:	02-Nov-2022 23:26:28	Instrument ID:	TAC129
Lims ID:	580-119481-N-3-A	Lab Sample ID:	580-119481-3
Client ID:	RHMW02-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

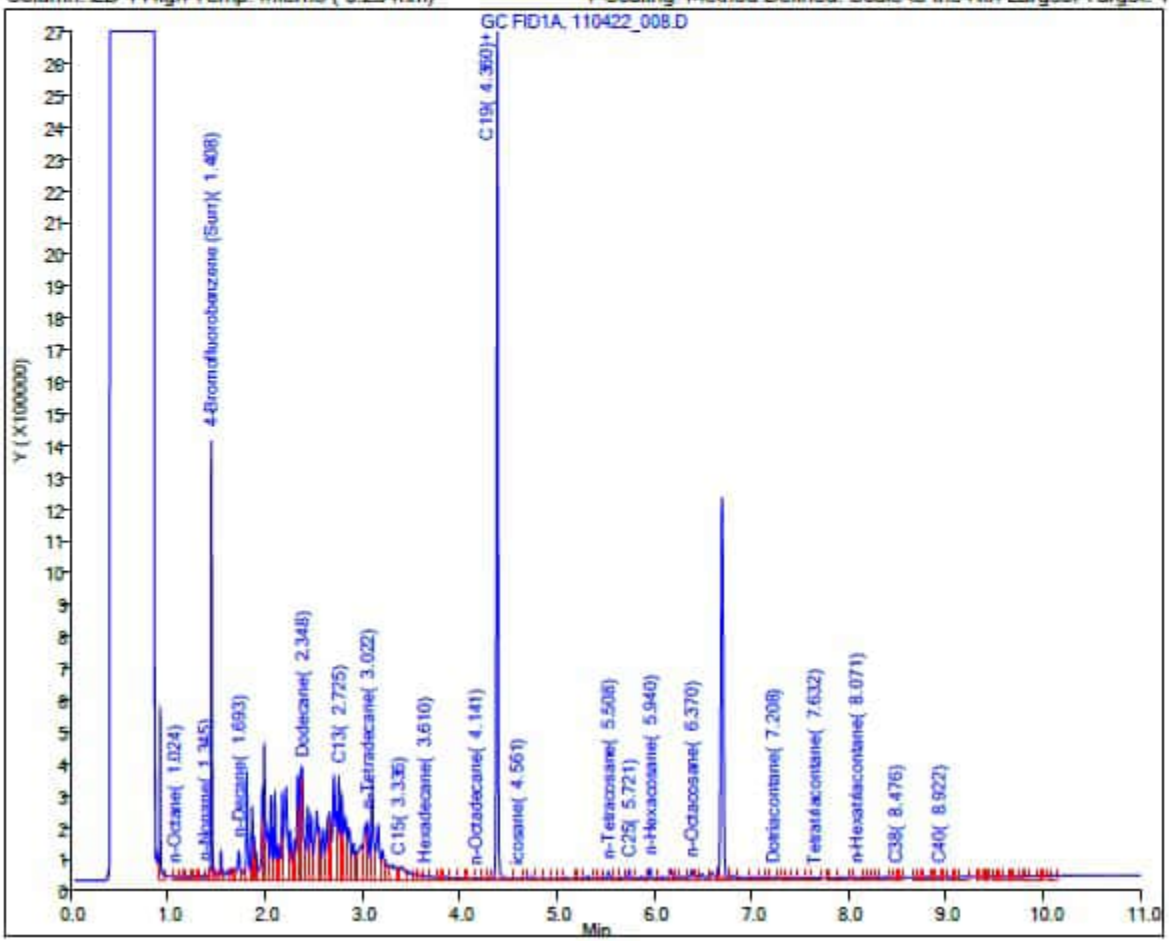


Results (ug/L): **TPH-d SGC (C10 to C24) 420 J** **TPH-o SGC (C24 to C40) <290 U**

Report Date: 04-Nov-2022 19:56:26 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221104-85629.b\110422_008.D
Injection Date: 04-Nov-2022 18:17:30 Instrument ID: TAC020
Lims ID: 580-119481-N-3-B Lab Sample ID: 580-119481-3
Client ID: RHMW02-WGN02B-2210WK4
Operator ID: DH ALS Bottle#: 7 Worklist Smp#: 75
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



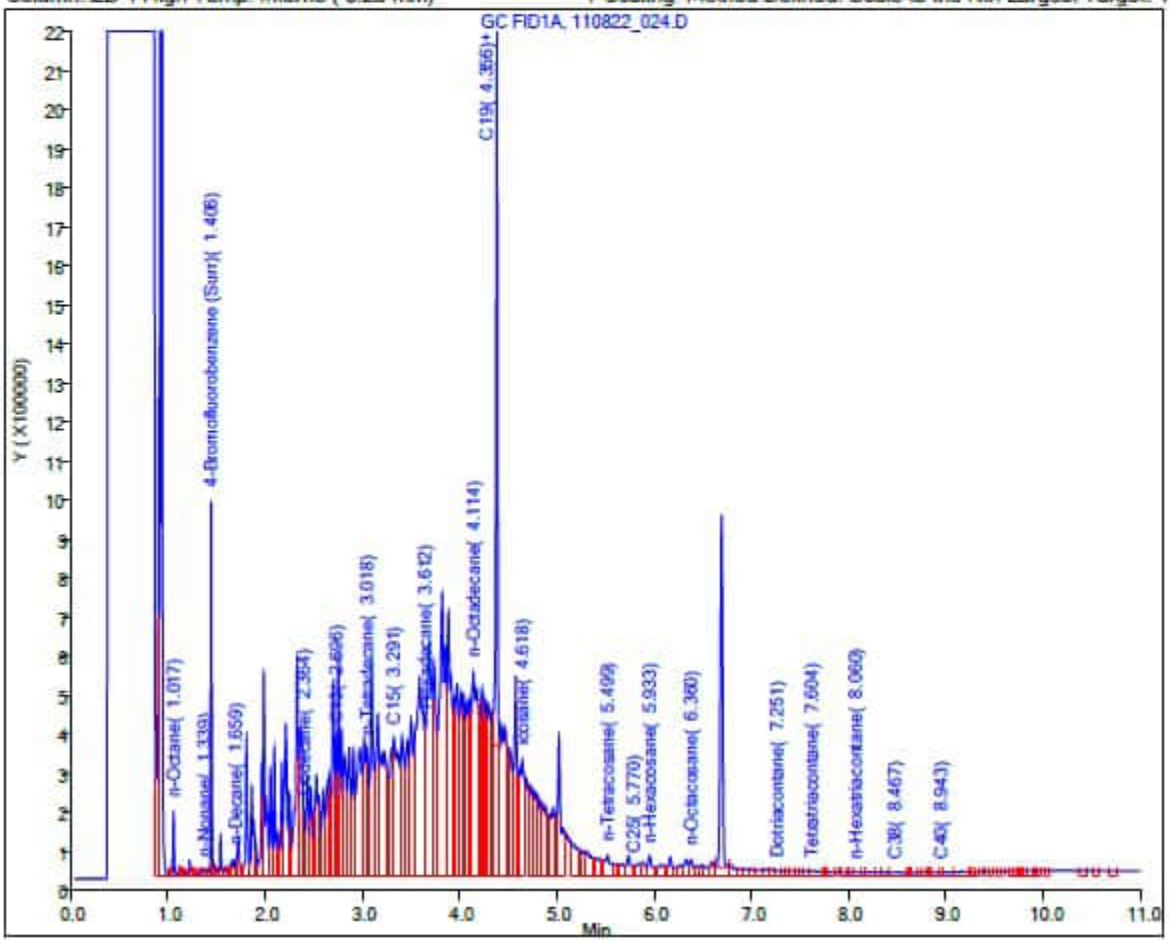
Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) 1500 J** **TPH-o (C24 to C40) 140 J**

Report Date: 09-Nov-2022 13:55:36 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_024.D				
Injection Date:	09-Nov-2022 01:14:30	Instrument ID:	TAC020		
Lims ID:	580-119618-O-1-A	Lab Sample ID:	580-119618-1		
Client ID:	RHMW02-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	23	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		
Column: ZB-1 High Temp. Inferno (0.25 mm)		Y Scaling: Method Defined: Scale to the Nth Largest Target: 1			



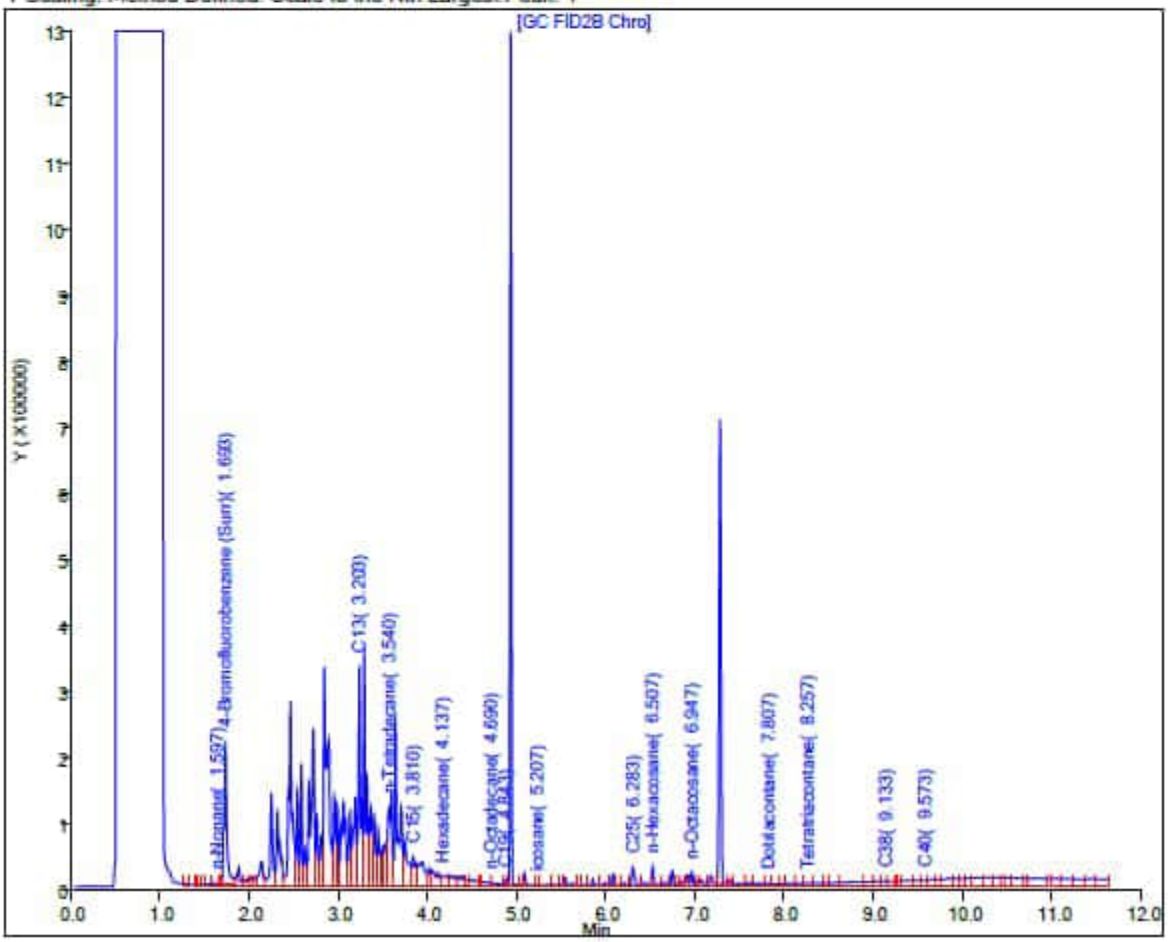
Results (ug/L): **TPH-d SGC (C10 to C24) 350 J** **TPH-o SGC (C24 to C40) 230 UJ**

Report Date: 14-Nov-2022 16:15:34 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A019.D		
Injection Date:	11-Nov-2022 19:10:02	Instrument ID:	TAC129_R
Lims ID:	580-119618-O-1-B	Lab Sample ID:	580-119618-1
Client ID:	RHMW02-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

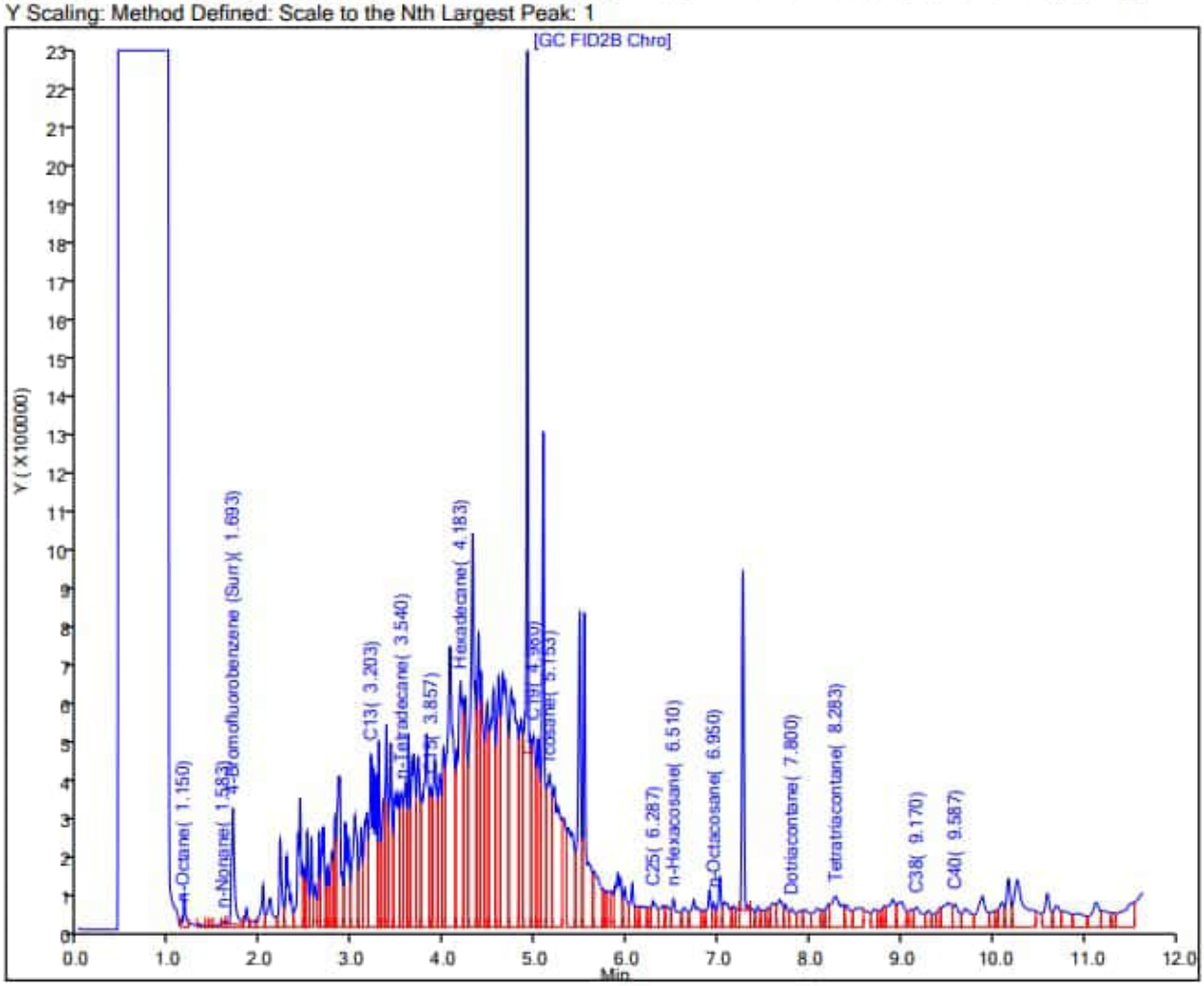
Results (ug/L): **TPH-d (C10 to C24) 2900** **TPH-o (C24 to C40) 630**

Report Date: 11-Nov-2022 16:00:55 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A017.D				
Injection Date:	10-Nov-2022 21:02:52	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-5-A	Lab Sample ID:	580-119733-5		
Client ID:	RHMW02-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



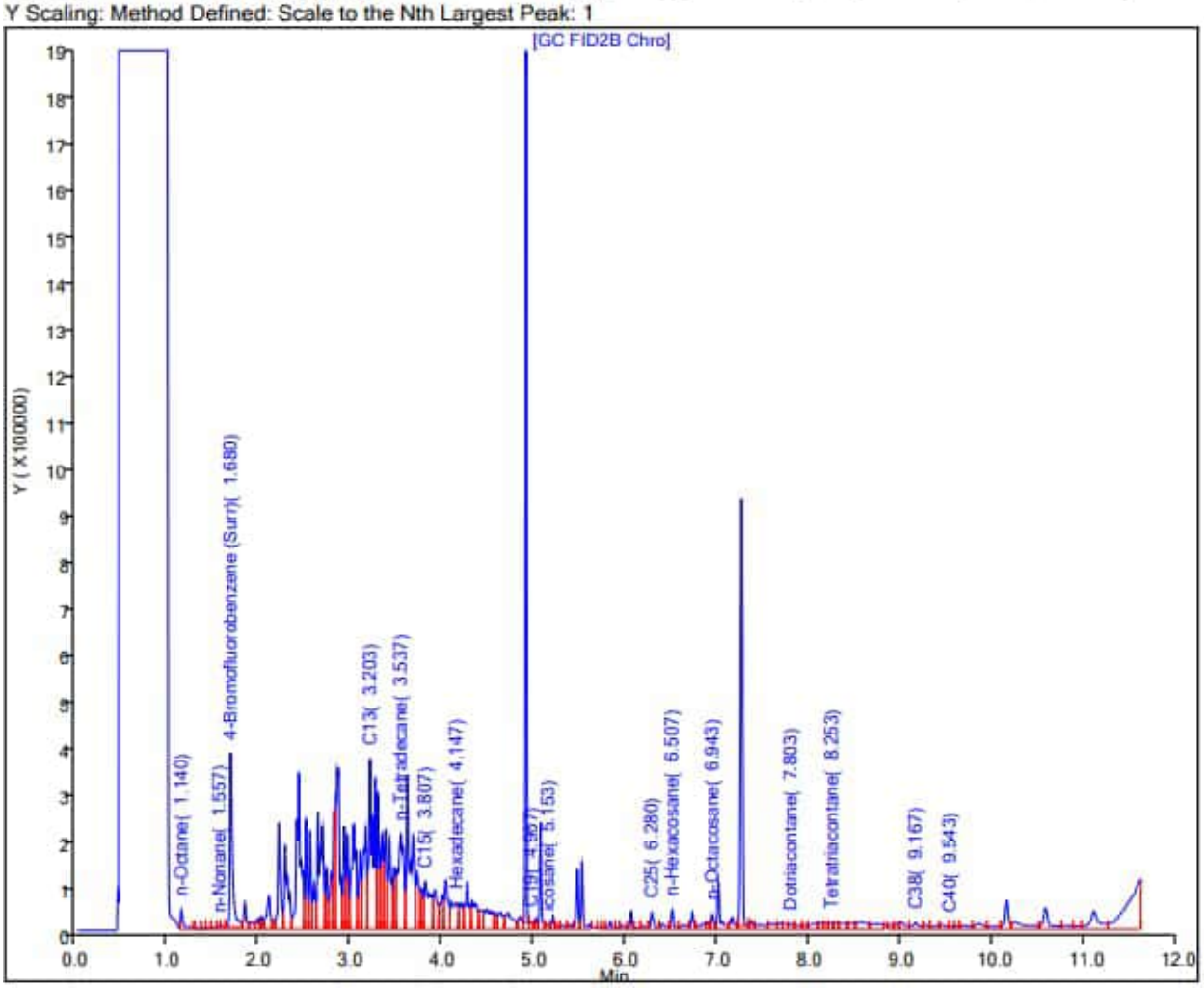
Results (ug/L): **TPH-d SGC (C10 to C24) 700** **TPH-o SGC (C24 to C40) 140 J**

Report Date: 15-Nov-2022 22:31:58 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A021.D				
Injection Date:	15-Nov-2022 20:11:17	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-5-B	Lab Sample ID:	580-119733-5		
Client ID:	RHMW02-WGN02B-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

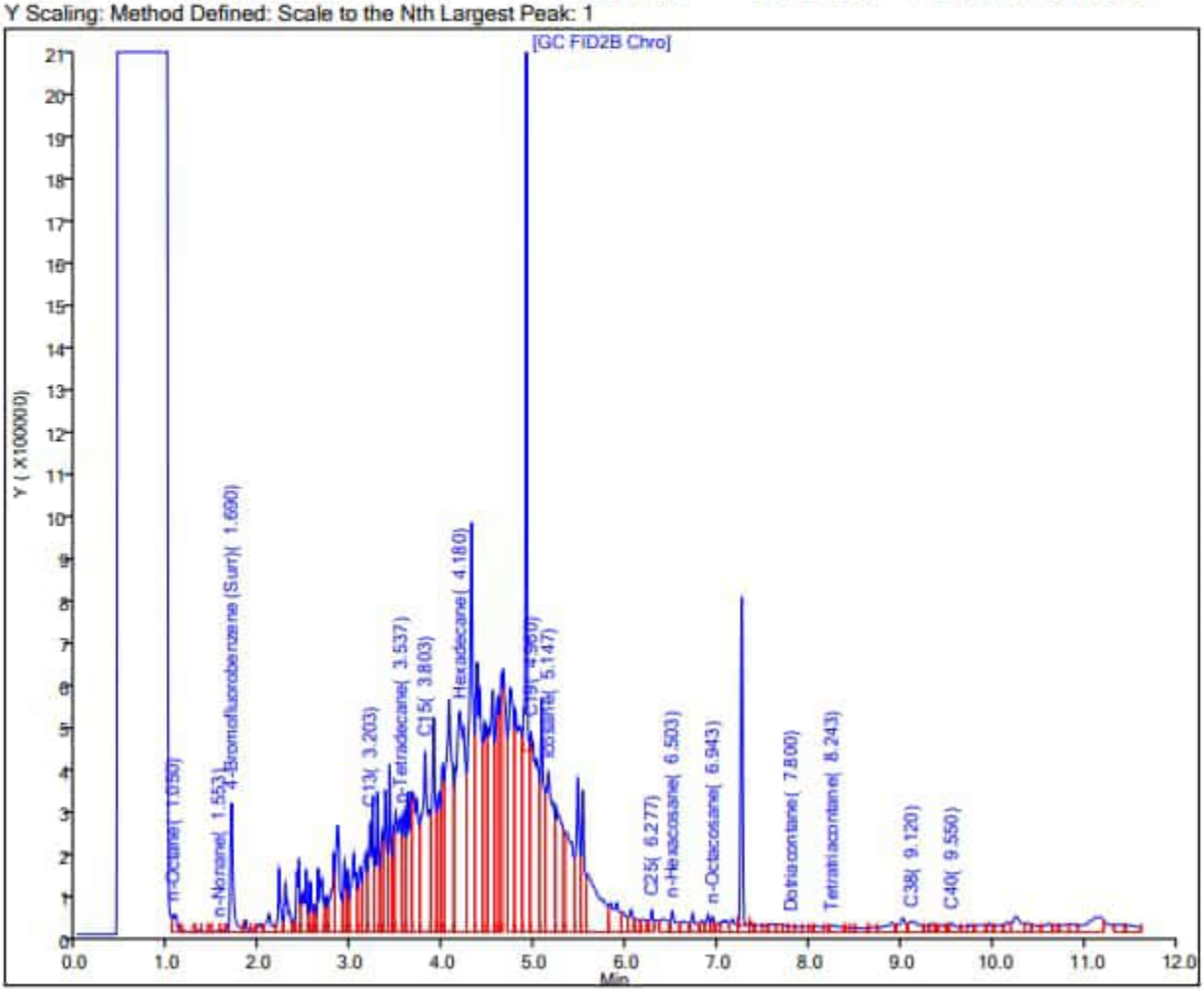
Results (ug/L): **TPH-d (C10 to C24) 3000** **TPH-o (C24 to C40) 340 J**

Report Date: 30-Nov-2022 12:33:10 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A047.D				
Injection Date:	30-Nov-2022 01:13:26	Instrument ID:	TAC129_R		
Lims ID:	580-120410-E-9-A	Lab Sample ID:	580-120410-9		
Client ID:	RHMW02-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



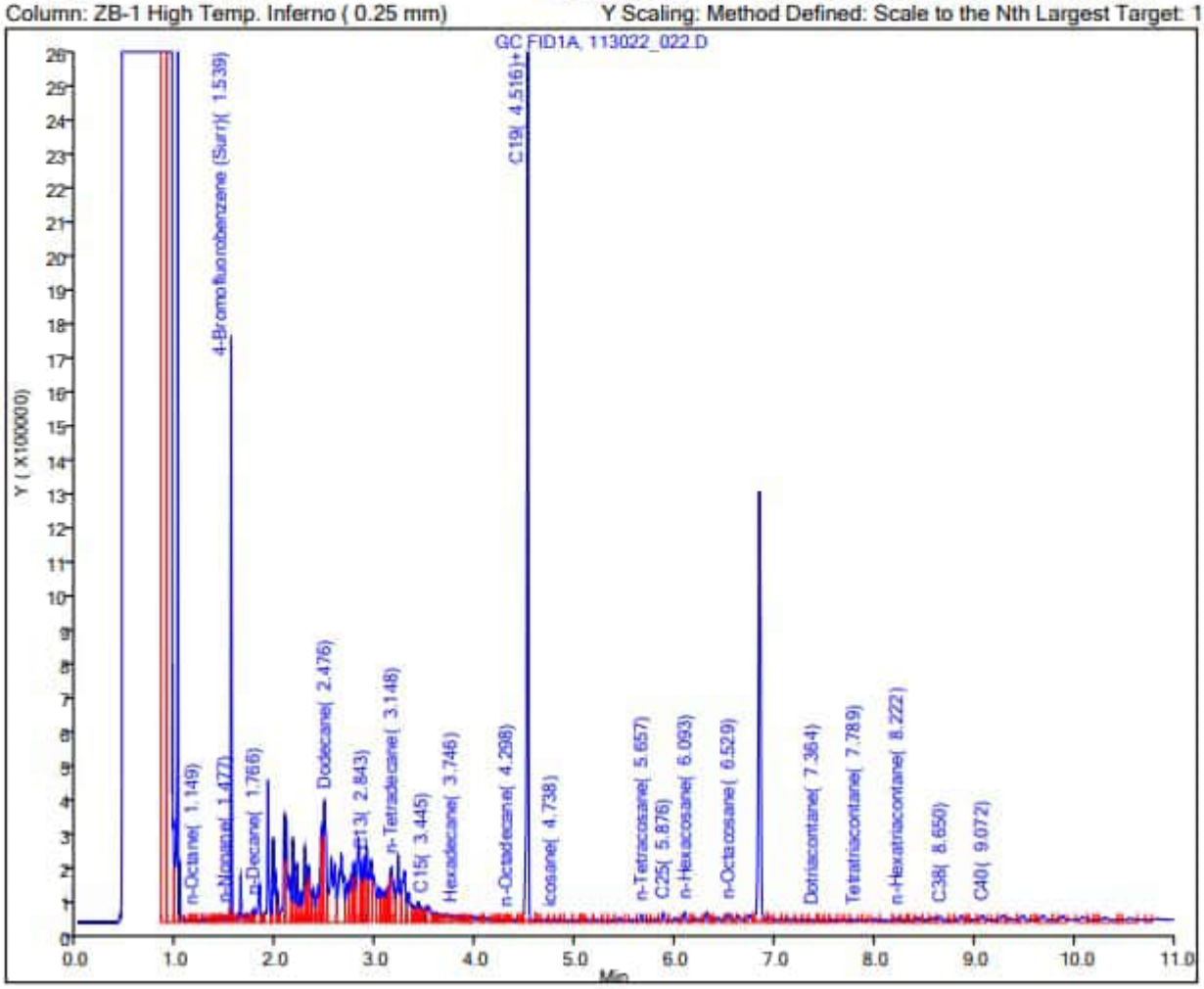
Results (ug/L): **TPH-d SGC (C10 to C24) 400** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 30-Nov-2022 22:33:08 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_022.D				
Injection Date:	30-Nov-2022 19:51:30	Instrument ID:	TAC020		
Lims ID:	580-120410-E-9-B	Lab Sample ID:	580-120410-9		
Client ID:	RHMW02-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

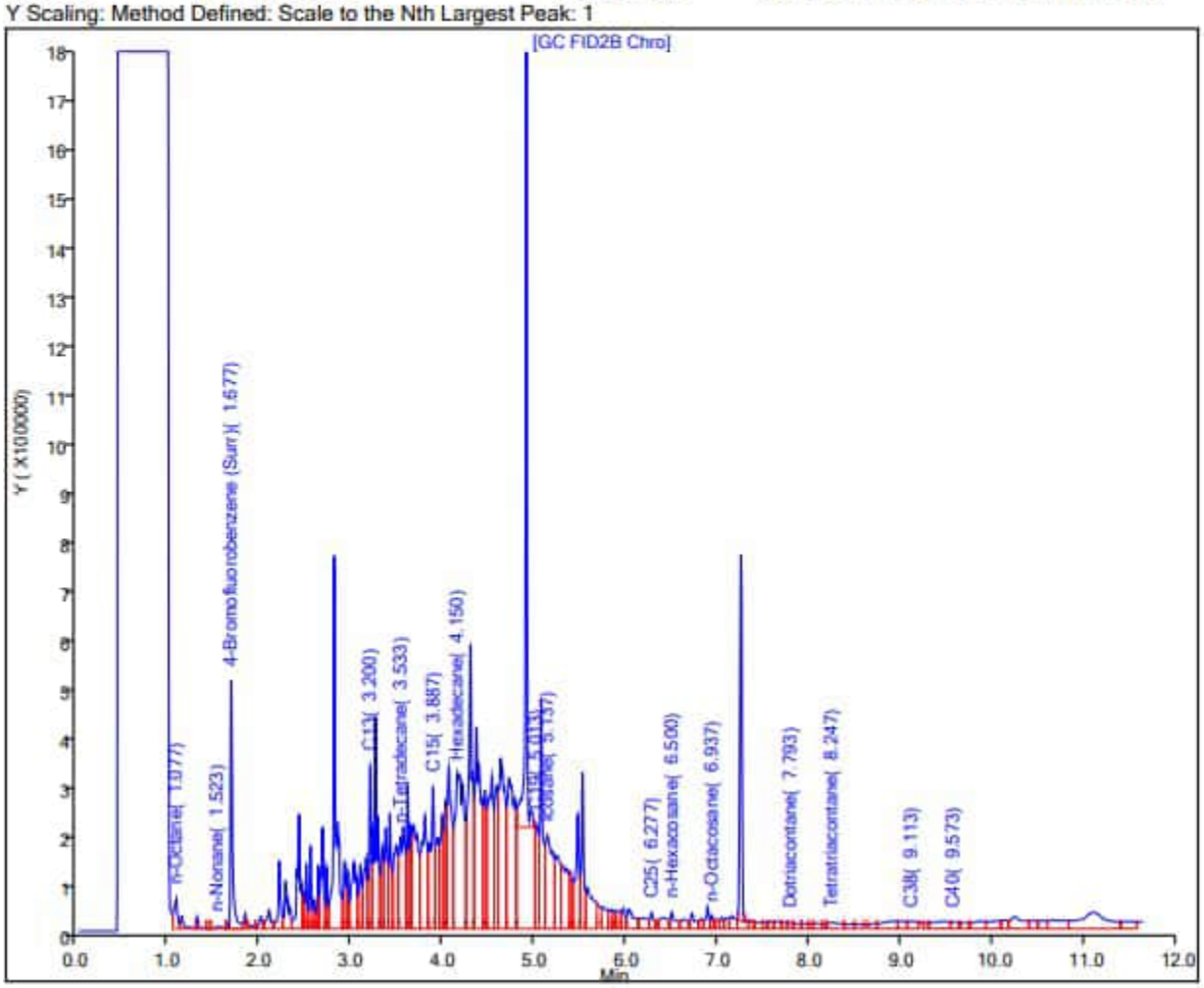
Results (ug/L): **TPH-d (C10 to C24) 1900** **TPH-o (C24 to C40) 280 J**

Report Date: 06-Dec-2022 13:59:40 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A025.D				
Injection Date:	05-Dec-2022 22:58:05	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-11-A	Lab Sample ID:	580-120678-11		
Client ID:	RHMW02-WGN02B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



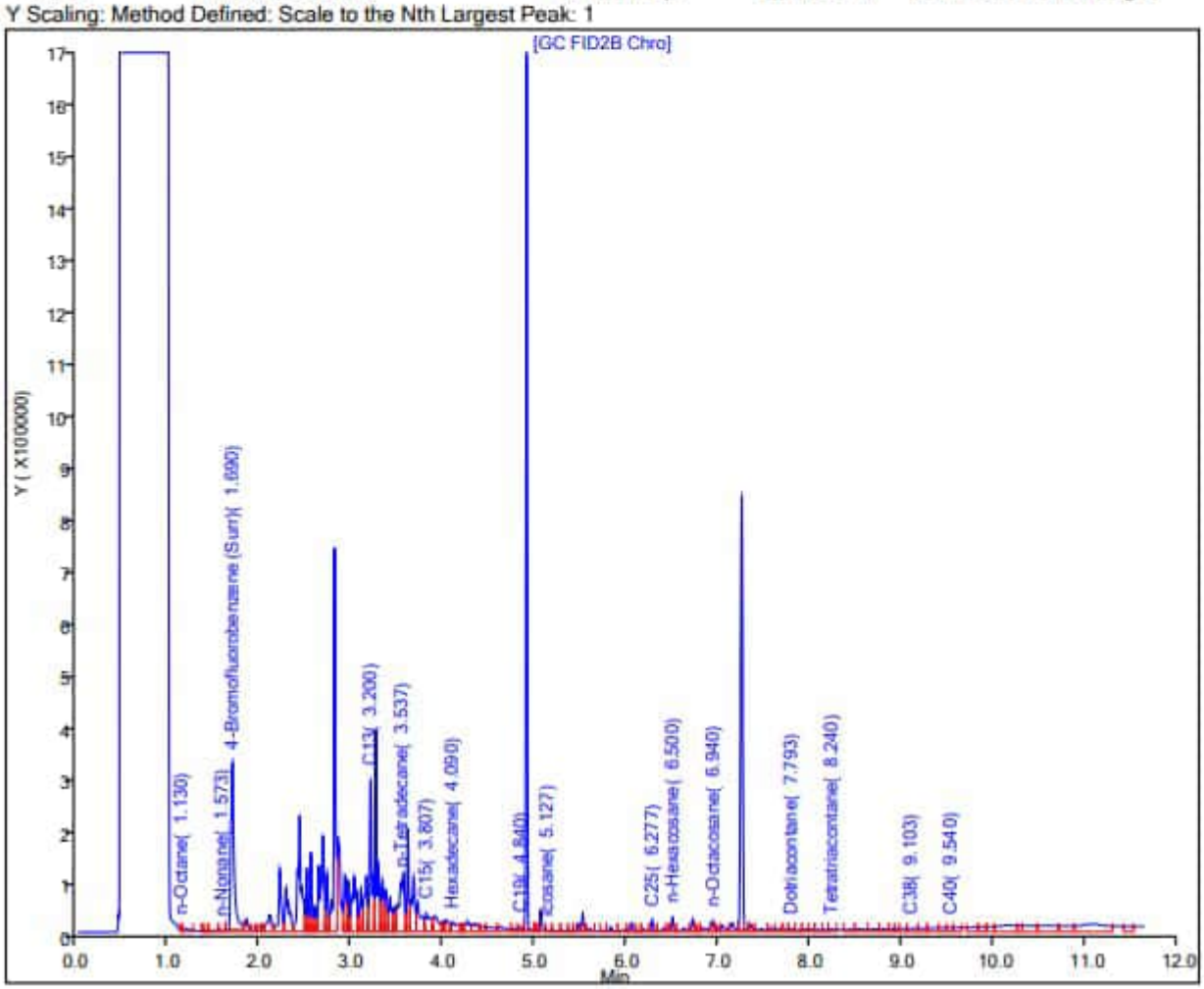
Results (ug/L): **TPH-d SGC (C10 to C24) 430** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 09-Dec-2022 15:19:30 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A023.D				
Injection Date:	06-Dec-2022 23:56:03	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-11-B	Lab Sample ID:	580-120678-11		
Client ID:	RHMW02-WGN02B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2208WK2 Sample Date: 8/9/2022
Lab: Eurofins Seattle

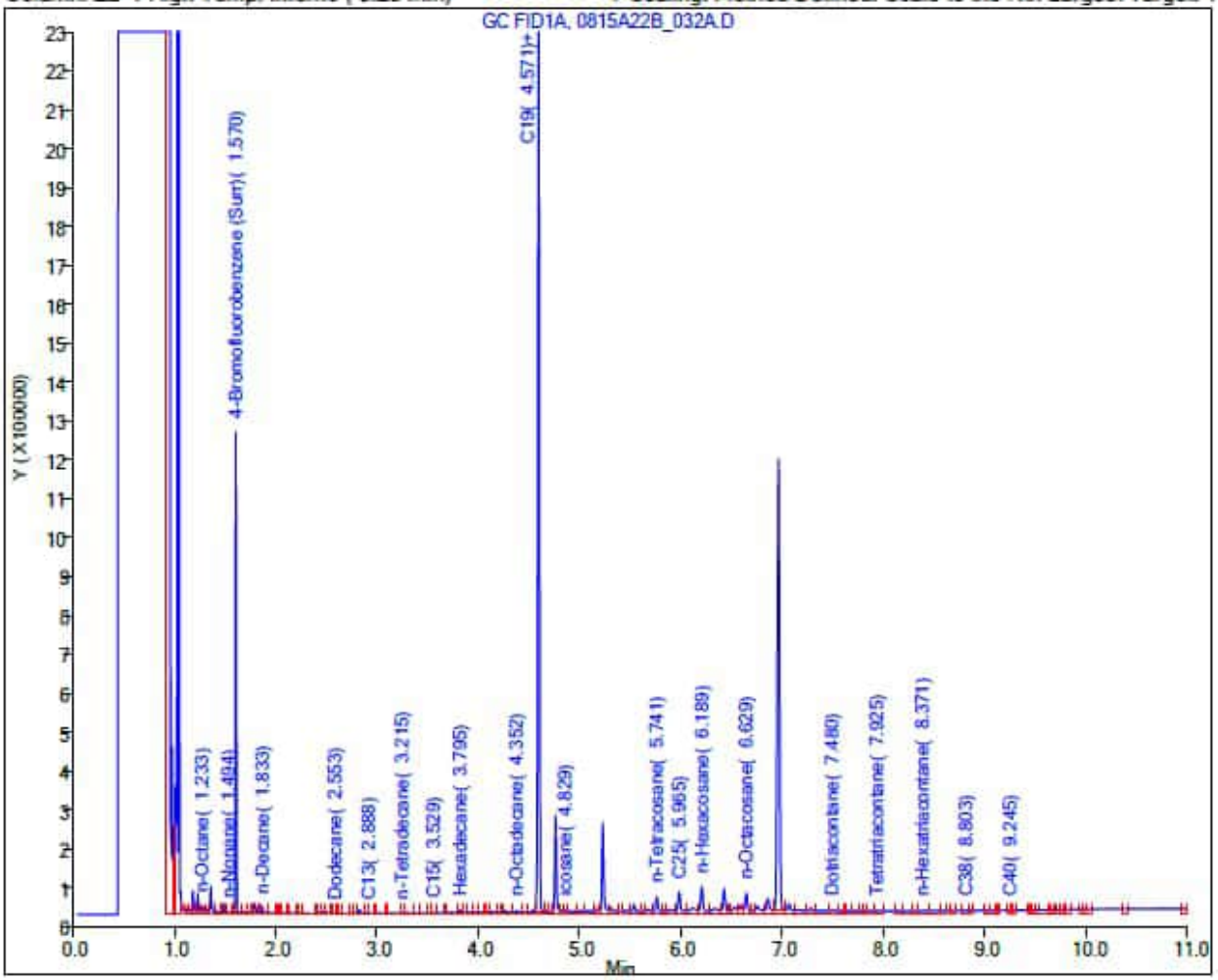
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Aug-2022 07:57:16 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_032A.D				
Injection Date:	16-Aug-2022 05:18:30	Instrument ID:	TAC020		
Lims ID:	580-116835-H-5-A	Lab Sample ID:	580-116835-5		
Client ID:	RHMW03-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	32	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW03** Sample ID: RHMW03-WGN01B-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

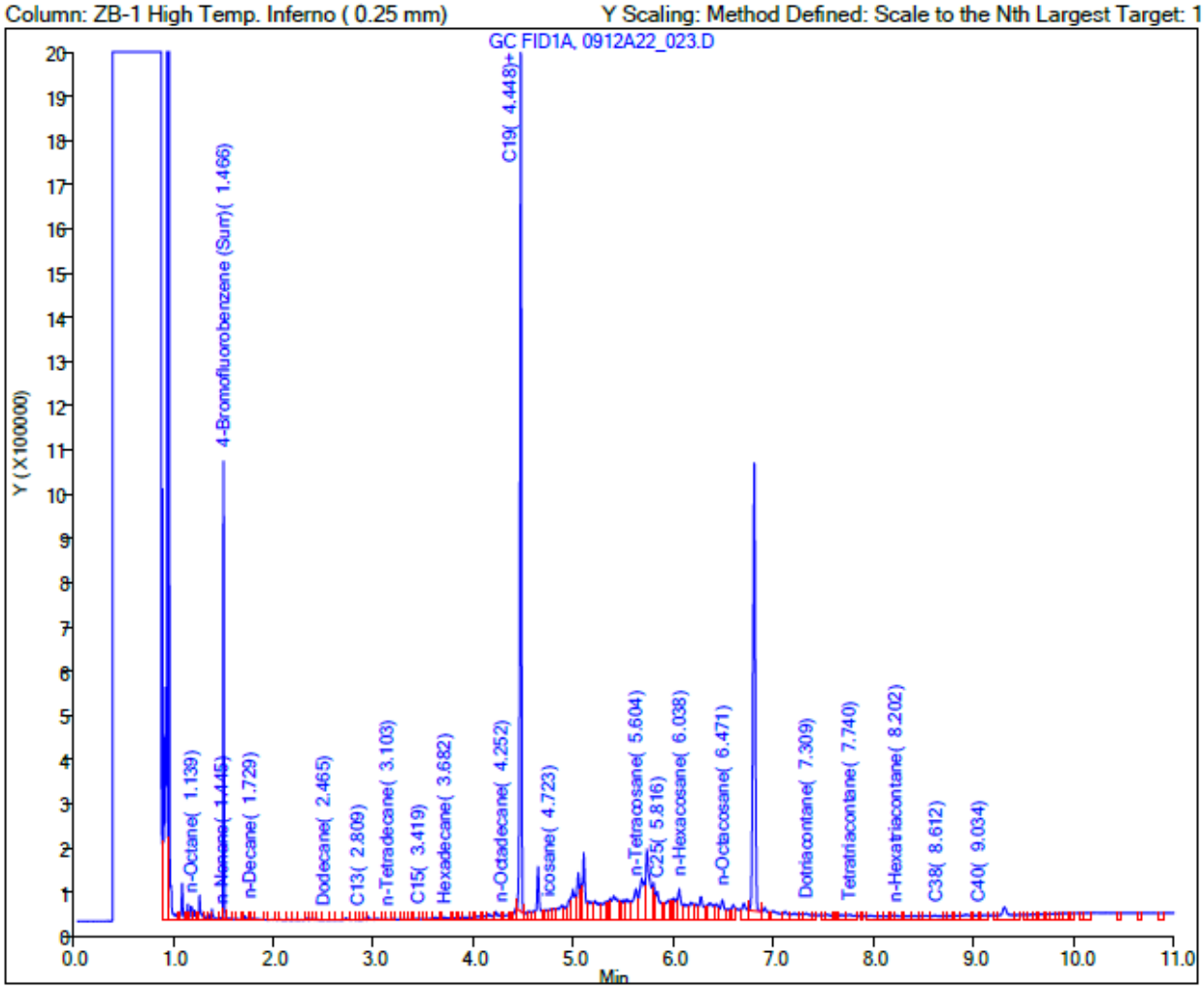
Results (ug/L): **TPH-d (C10 to C24) 130** **TPH-o (C24 to C40) <310 U**

Report Date: 13-Sep-2022 12:02:01 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_023.D				
Injection Date:	13-Sep-2022 00:42:30	Instrument ID:	TAC020		
Lims ID:	580-117667-E-9-A	Lab Sample ID:	580-117667-9		
Client ID:	RHMW03-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	23	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



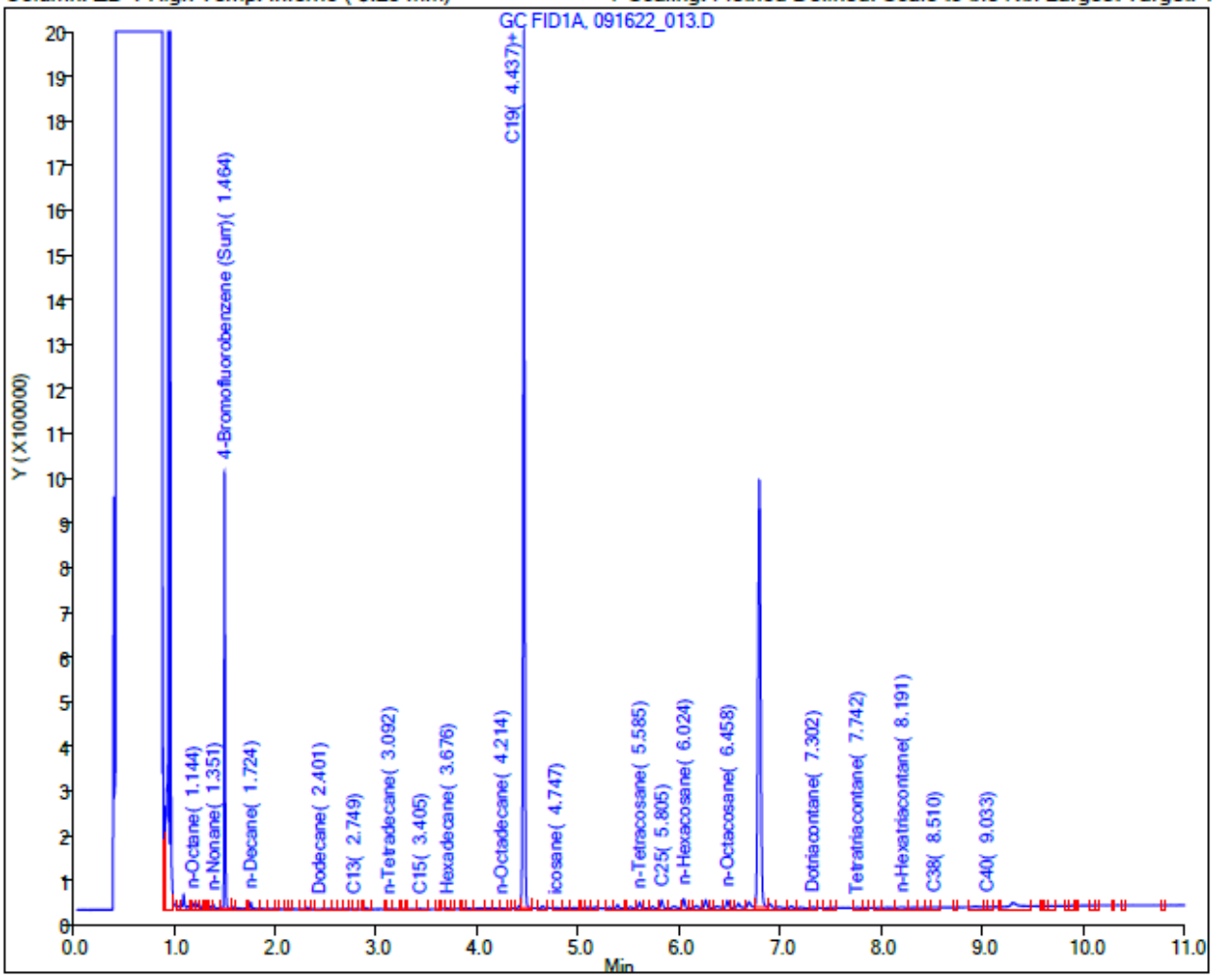
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 18-Sep-2022 14:51:27 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_013.D				
Injection Date:	16-Sep-2022 22:14:30	Instrument ID:	TAC020		
Lims ID:	580-117667-E-9-B	Lab Sample ID:	580-117667-9		
Client ID:	RHMW03-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2209WK2 Sample Date: 9/13/2022
Lab: Eurofins Seattle

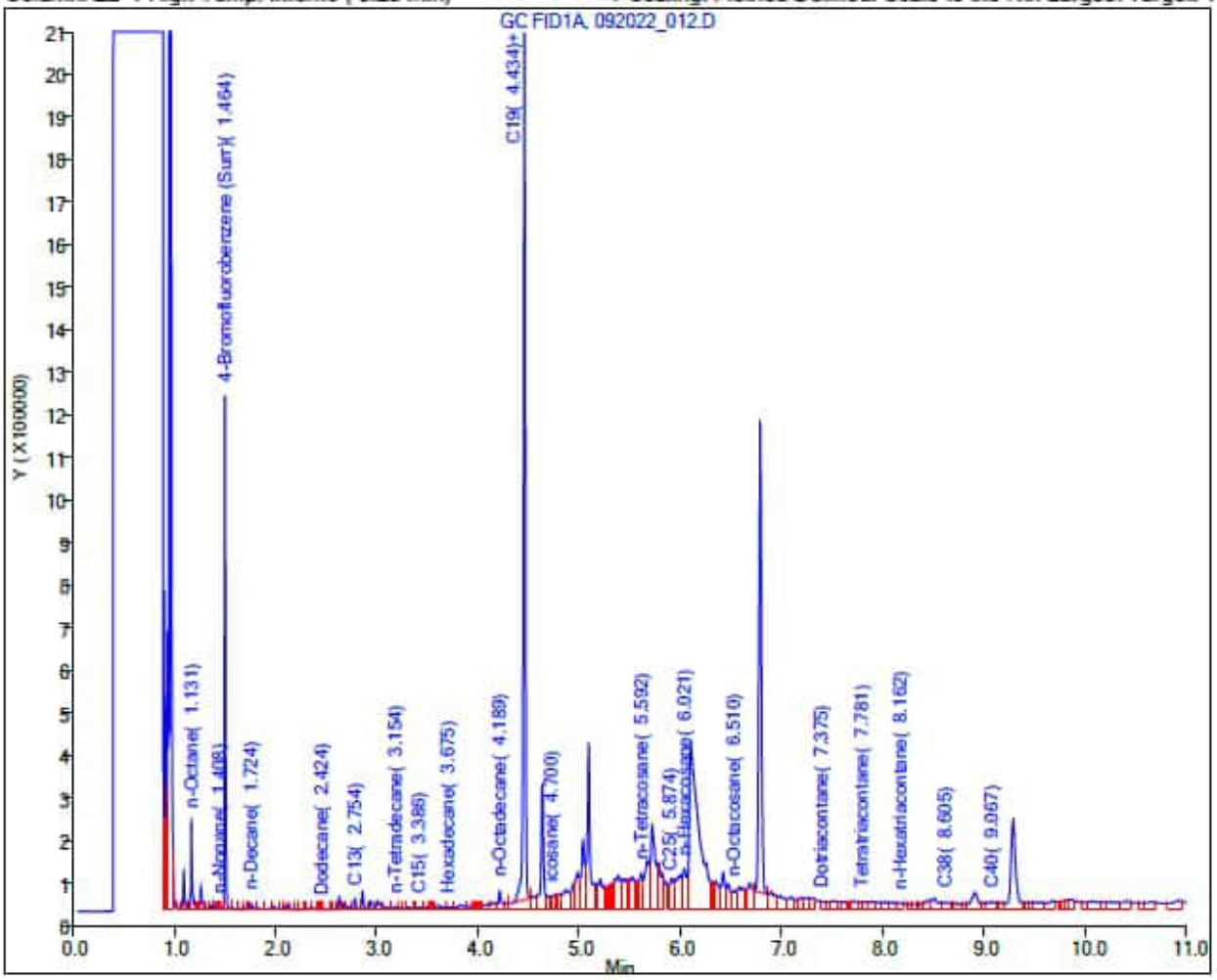
Results (ug/L): **TPH-d (C10 to C24) 220** **TPH-o (C24 to C40) 420**

Report Date: 21-Sep-2022 13:08:26 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_012.D				
Injection Date:	20-Sep-2022 21:39:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-3-A	Lab Sample ID:	580-117907-3		
Client ID:	RHMW03-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



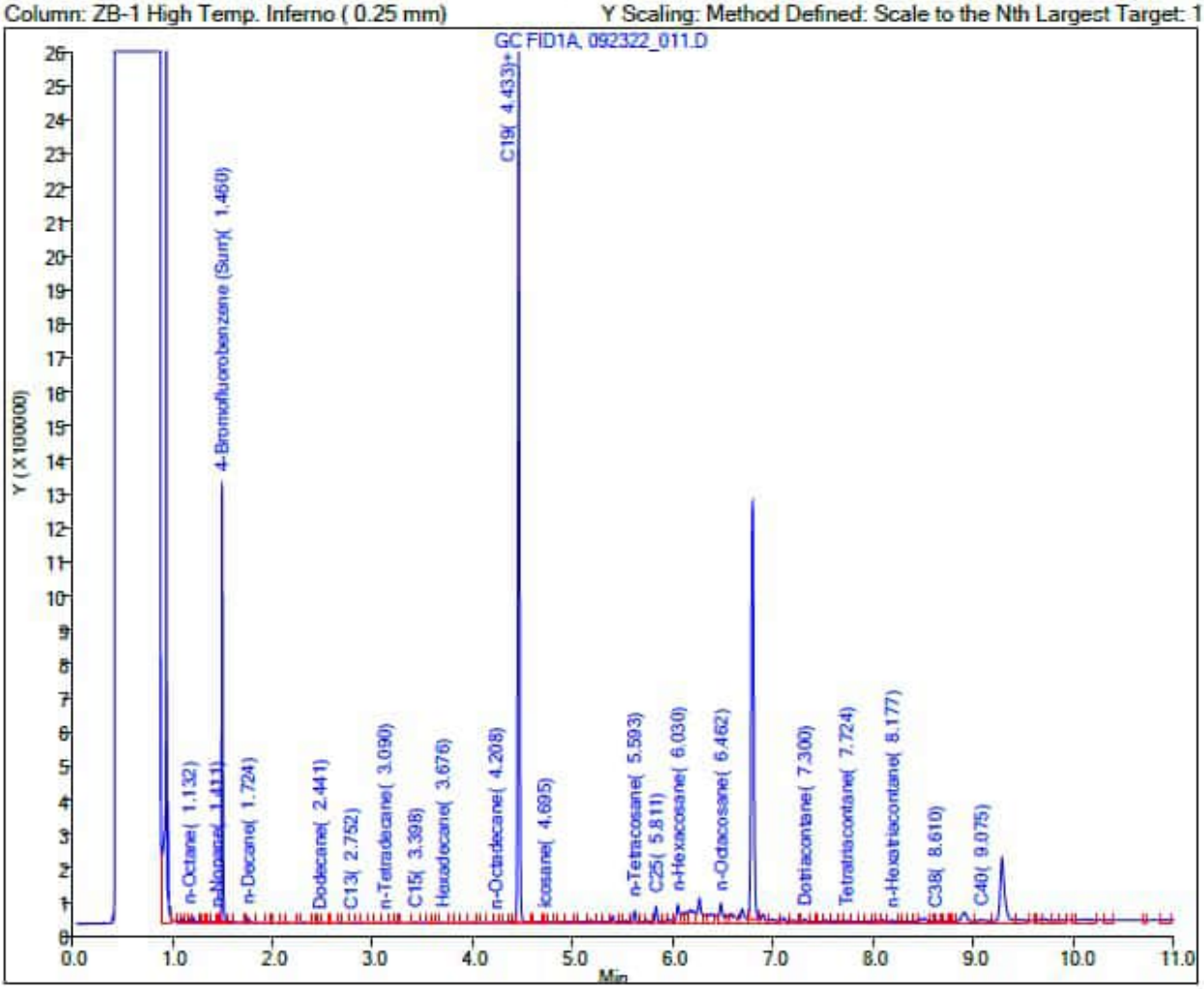
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 23-Sep-2022 18:50:01 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220923-84994.b\092322_011.D				
Injection Date:	23-Sep-2022 17:32:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-3-C	Lab Sample ID:	580-117907-3		
Client ID:	RHMW03-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2210WK1 Sample Date: 10/4/2022
Lab: Eurofins Seattle

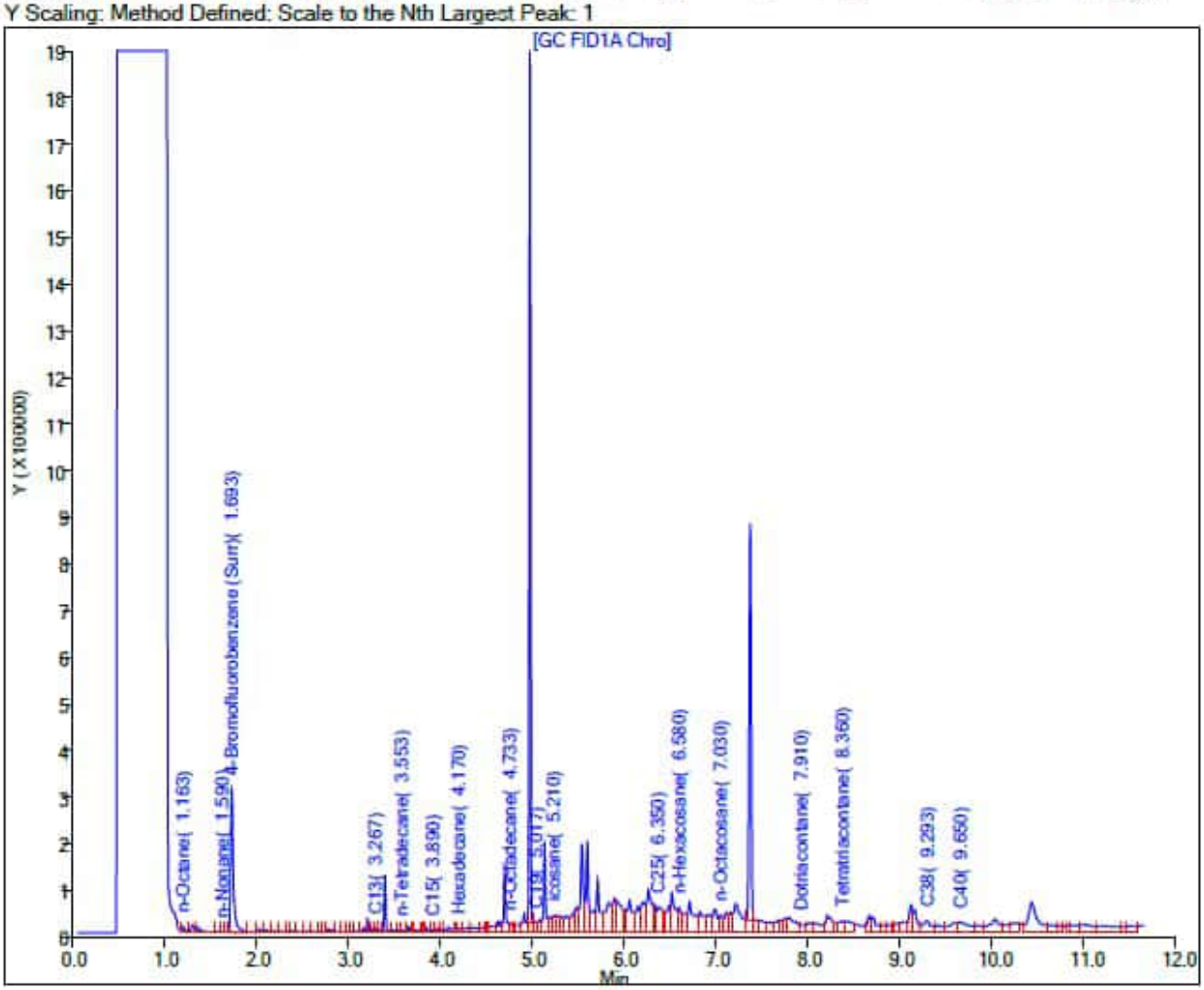
Results (ug/L): **TPH-d (C10 to C24) 220** **TPH-o (C24 to C40) 350 J**

Report Date: 11-Oct-2022 13:55:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A034.D				
Injection Date:	10-Oct-2022 22:10:05	Instrument ID:	TAC129		
Lims ID:	580-118611-E-6-A	Lab Sample ID:	580-118611-6		
Client ID:	RHMW03-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



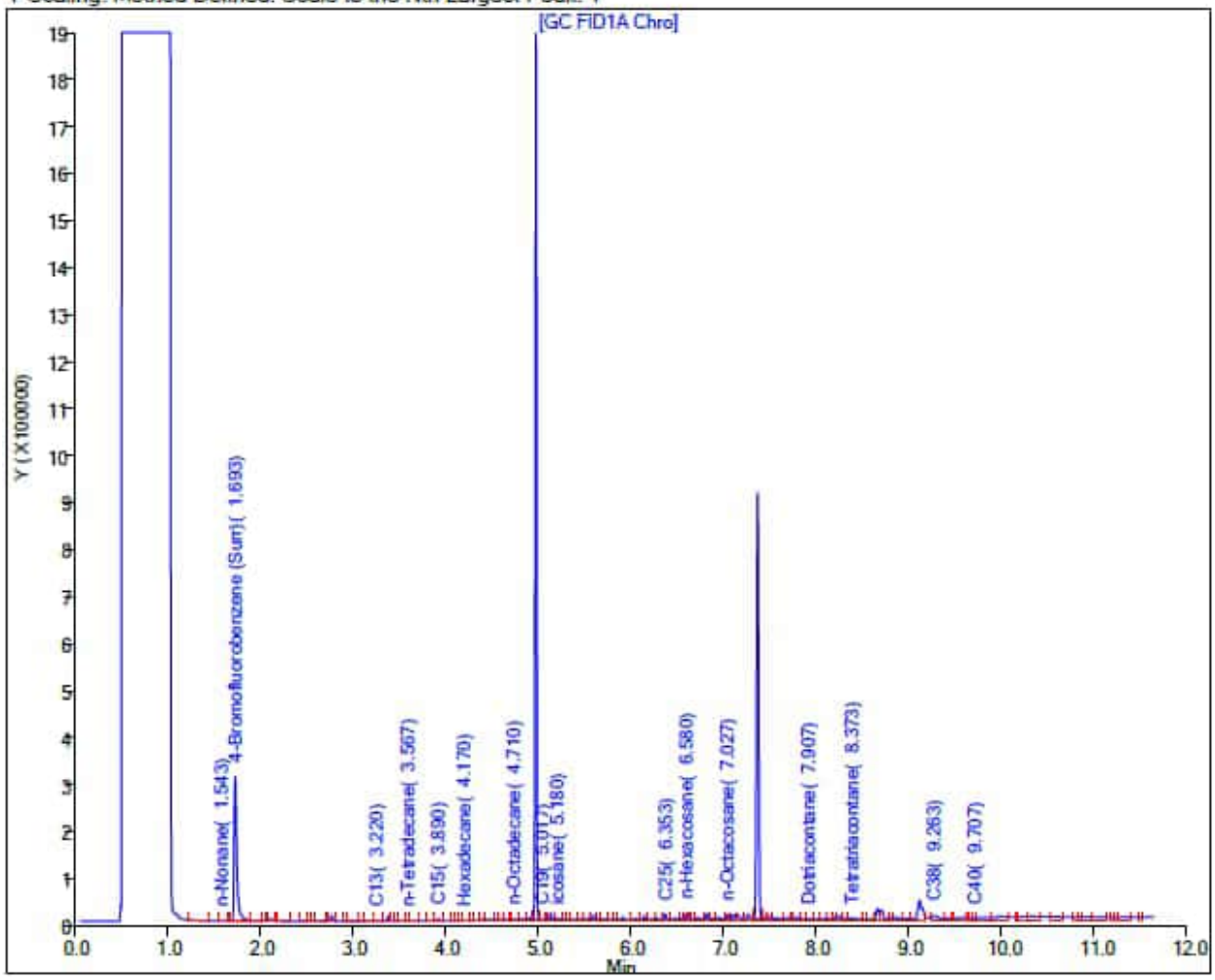
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:55:44 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A016.D				
Injection Date:	11-Oct-2022 19:20:37	Instrument ID:	TAC129		
Lims ID:	580-118611-E-6-B	Lab Sample ID:	580-118611-6		
Client ID:	RHMW03-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

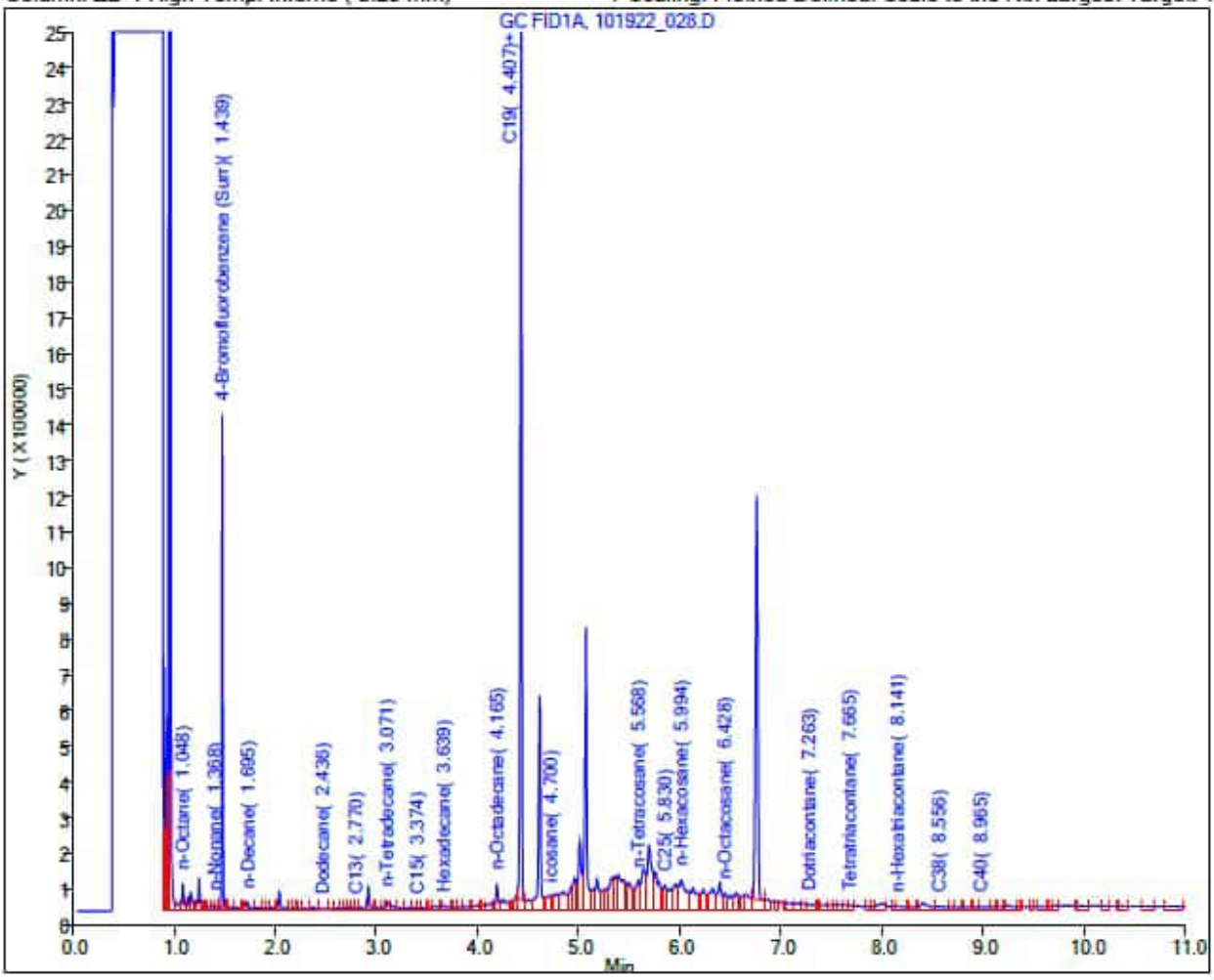
Results (ug/L): **TPH-d (C10 to C24) 260** **TPH-o (C24 to C40) 250 J**

Report Date: 20-Oct-2022 13:42:08 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_028.D				
Injection Date:	20-Oct-2022 01:13:30	Instrument ID:	TAC020		
Lims ID:	580-118941-N-22-A	Lab Sample ID:	580-118941-22		
Client ID:	RHMW03-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



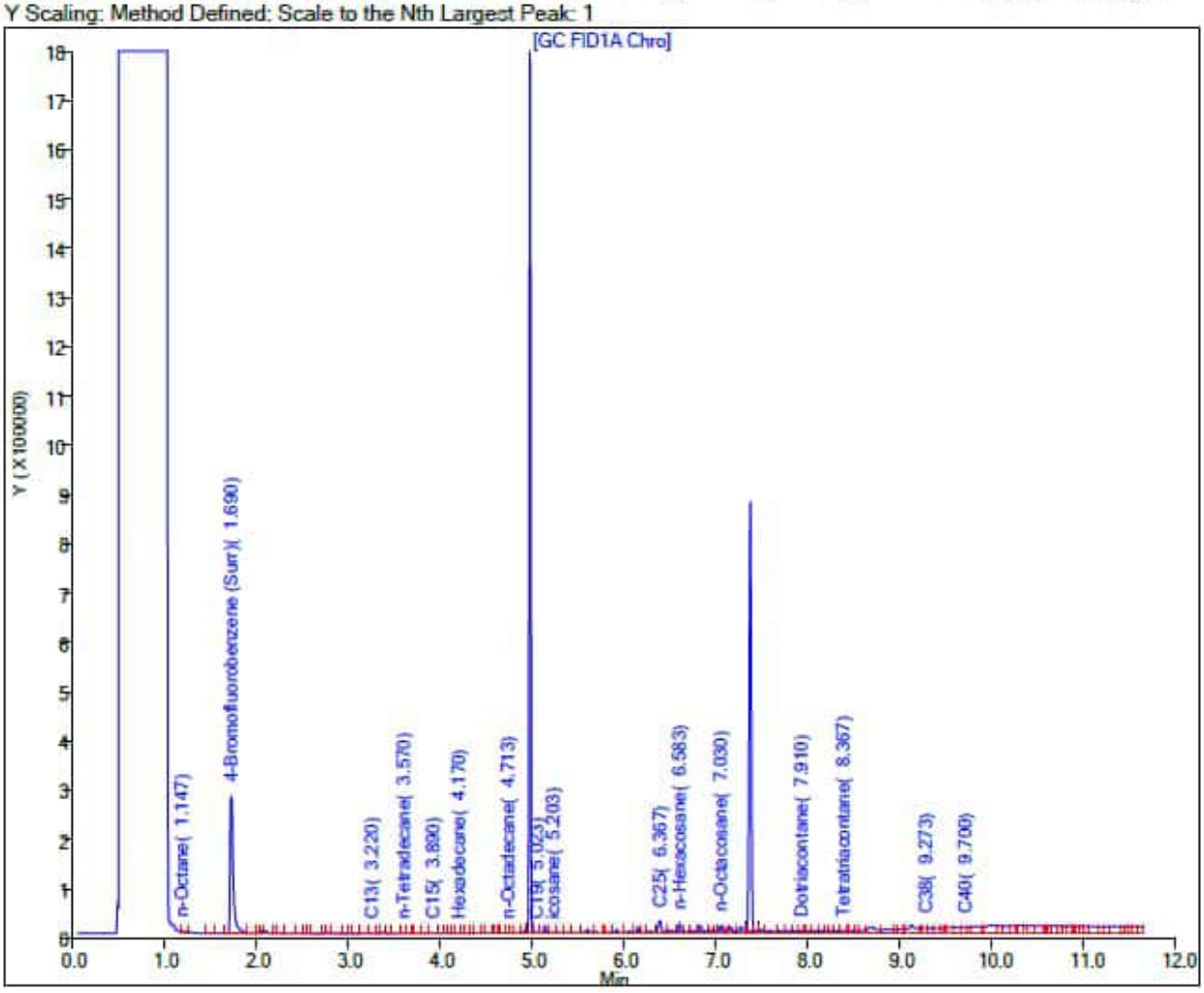
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 20-Oct-2022 17:29:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221019-85402.b\1019a22A024.D				
Injection Date:	20-Oct-2022 15:49:22	Instrument ID:	TAC129		
Lims ID:	580-118941-N-22-B	Lab Sample ID:	580-118941-22		
Client ID:	RHMW03-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

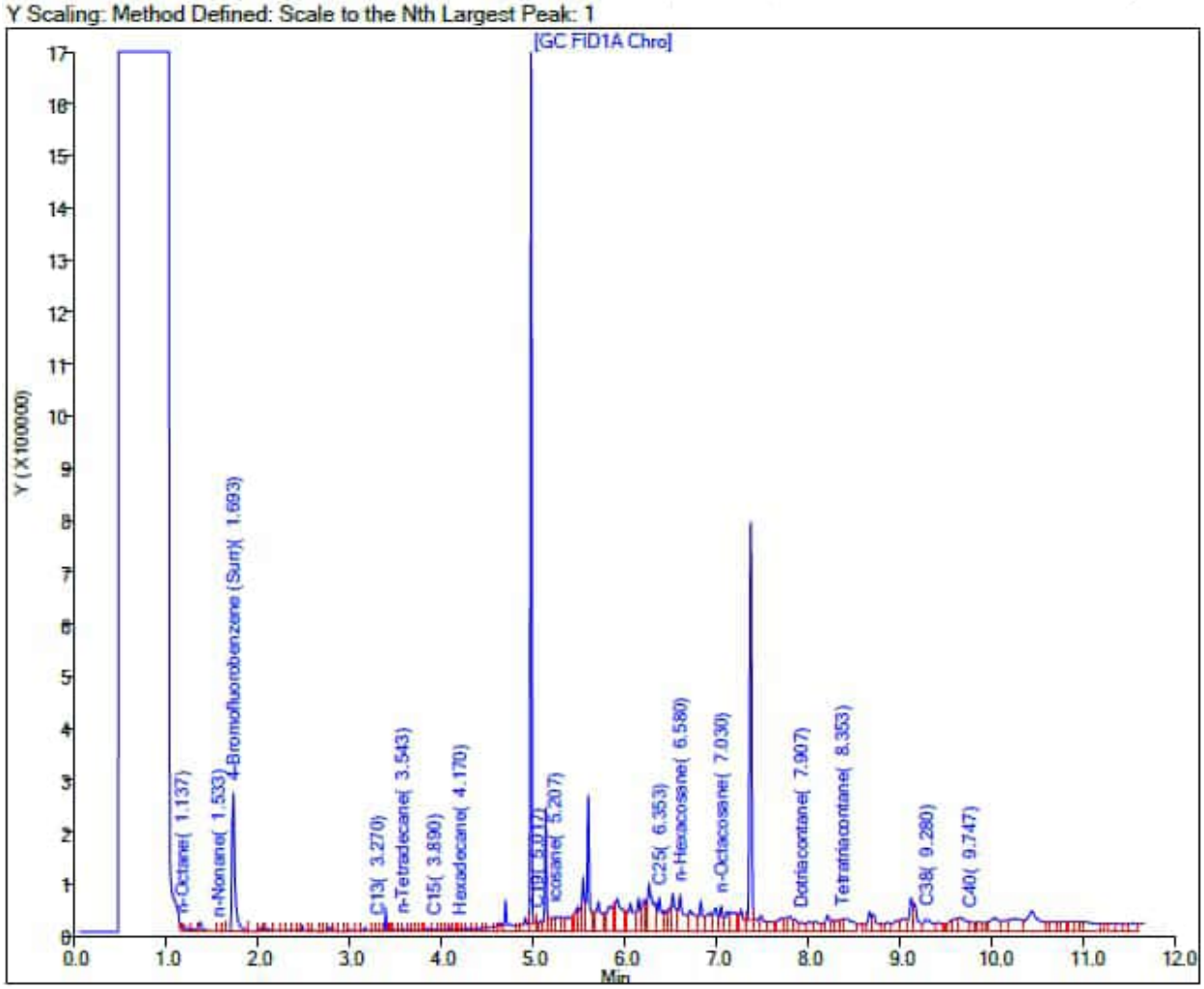
Results (ug/L): **TPH-d (C10 to C24) 170** **TPH-o (C24 to C40) 330 J**

Report Date: 26-Oct-2022 13:35:59 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A014.D				
Injection Date:	25-Oct-2022 21:50:50	Instrument ID:	TAC129		
Lims ID:	580-119027-N-1-A	Lab Sample ID:	580-119027-1		
Client ID:	RHMW03-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 27-Oct-2022 13:33:58 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_012.D				
Injection Date:	26-Oct-2022 17:57:30	Instrument ID:	TAC020		
Lims ID:	580-119027-N-1-B	Lab Sample ID:	580-119027-1		
Client ID:	RHMW03-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

Location: **RHMW03** Sample ID: RHMW03-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

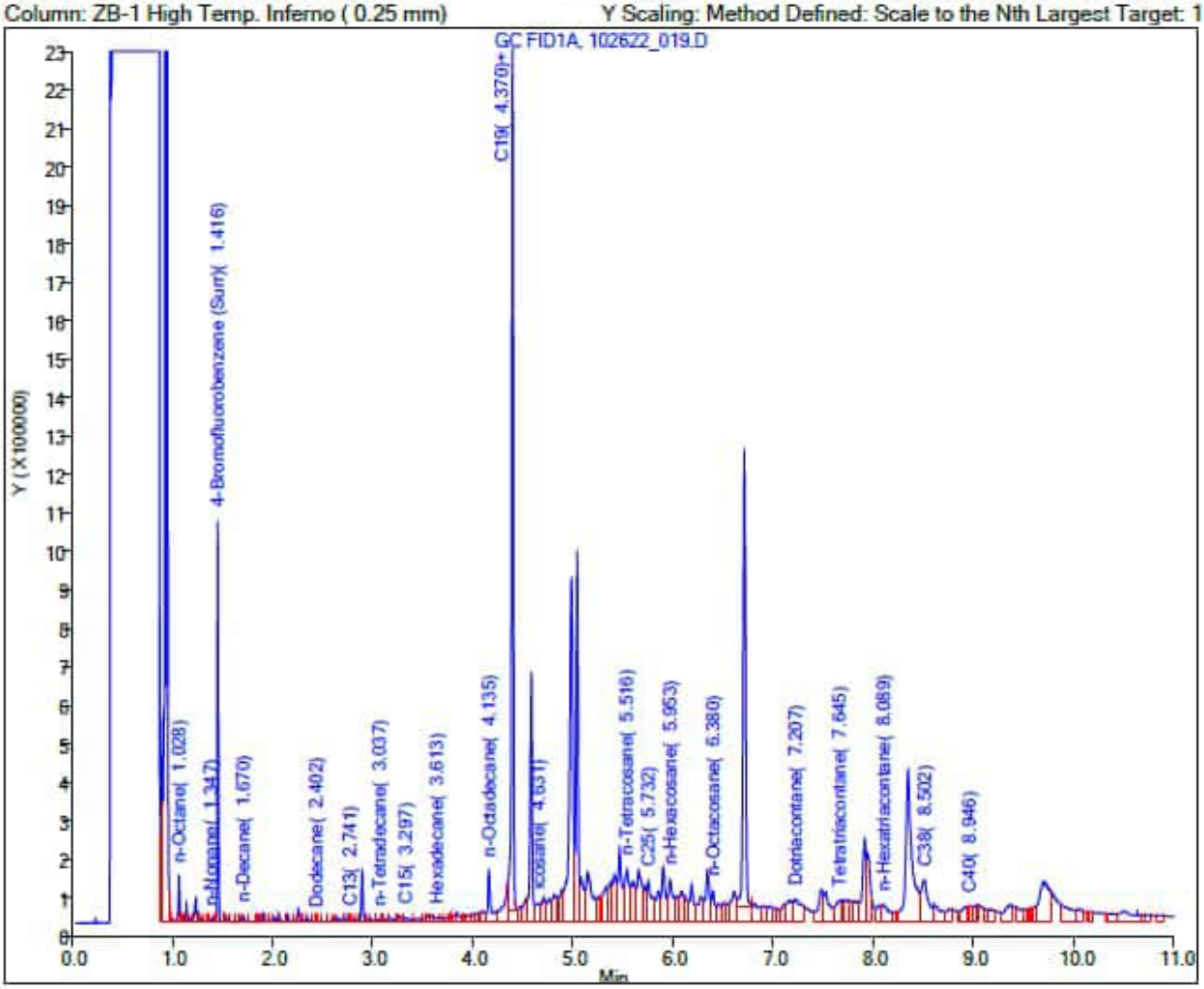
Results (ug/L): **TPH-d (C10 to C24) 360** **TPH-o (C24 to C40) 540**

Report Date: 27-Oct-2022 13:37:31 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_019.D				
Injection Date:	26-Oct-2022 20:18:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-1-A	Lab Sample ID:	580-119152-1		
Client ID:	RHMW03-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



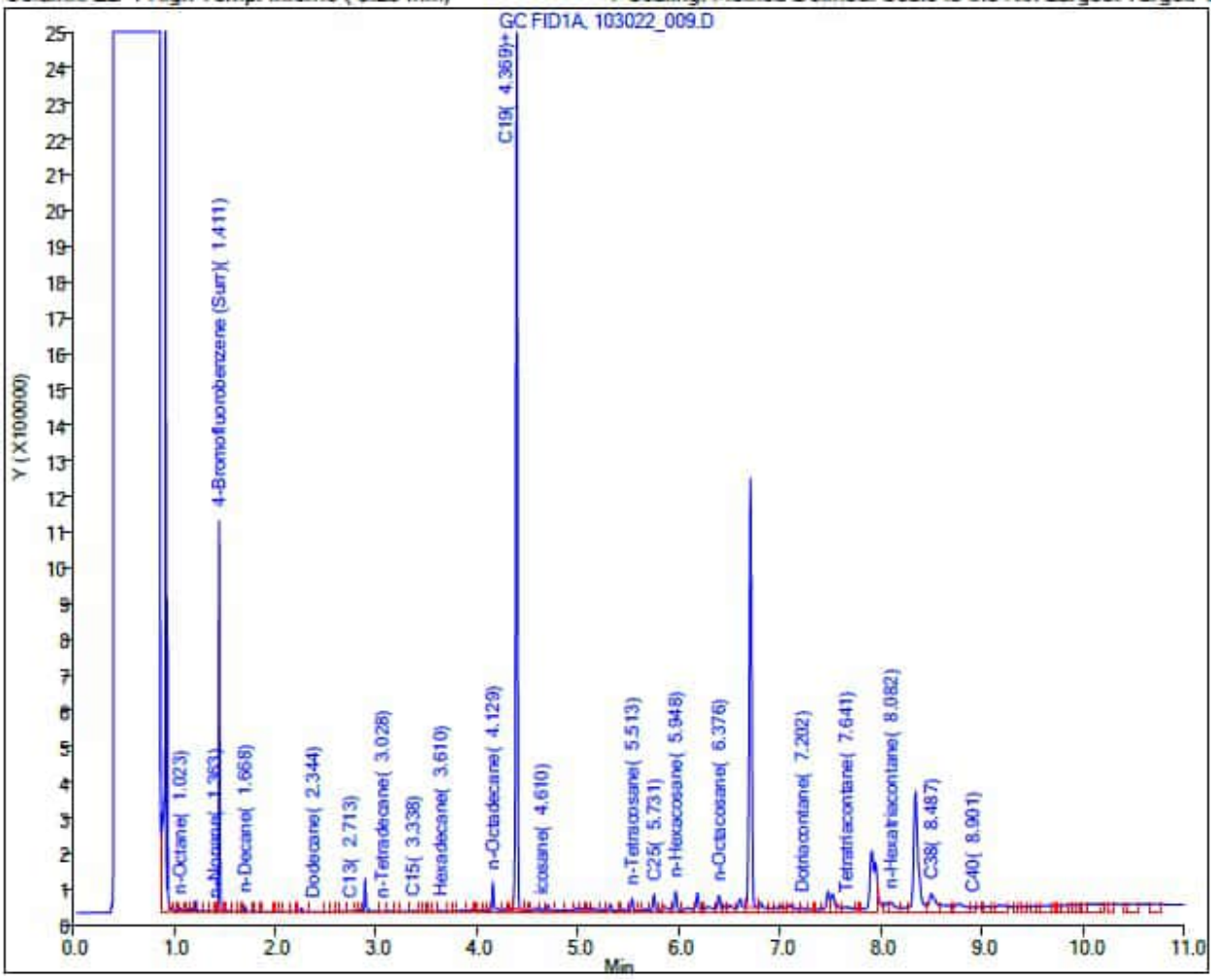
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 190 J**

Report Date: 01-Nov-2022 13:44:56 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_009.D				
Injection Date:	31-Oct-2022 19:48:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-1-B	Lab Sample ID:	580-119152-1		
Client ID:	RHMW03-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

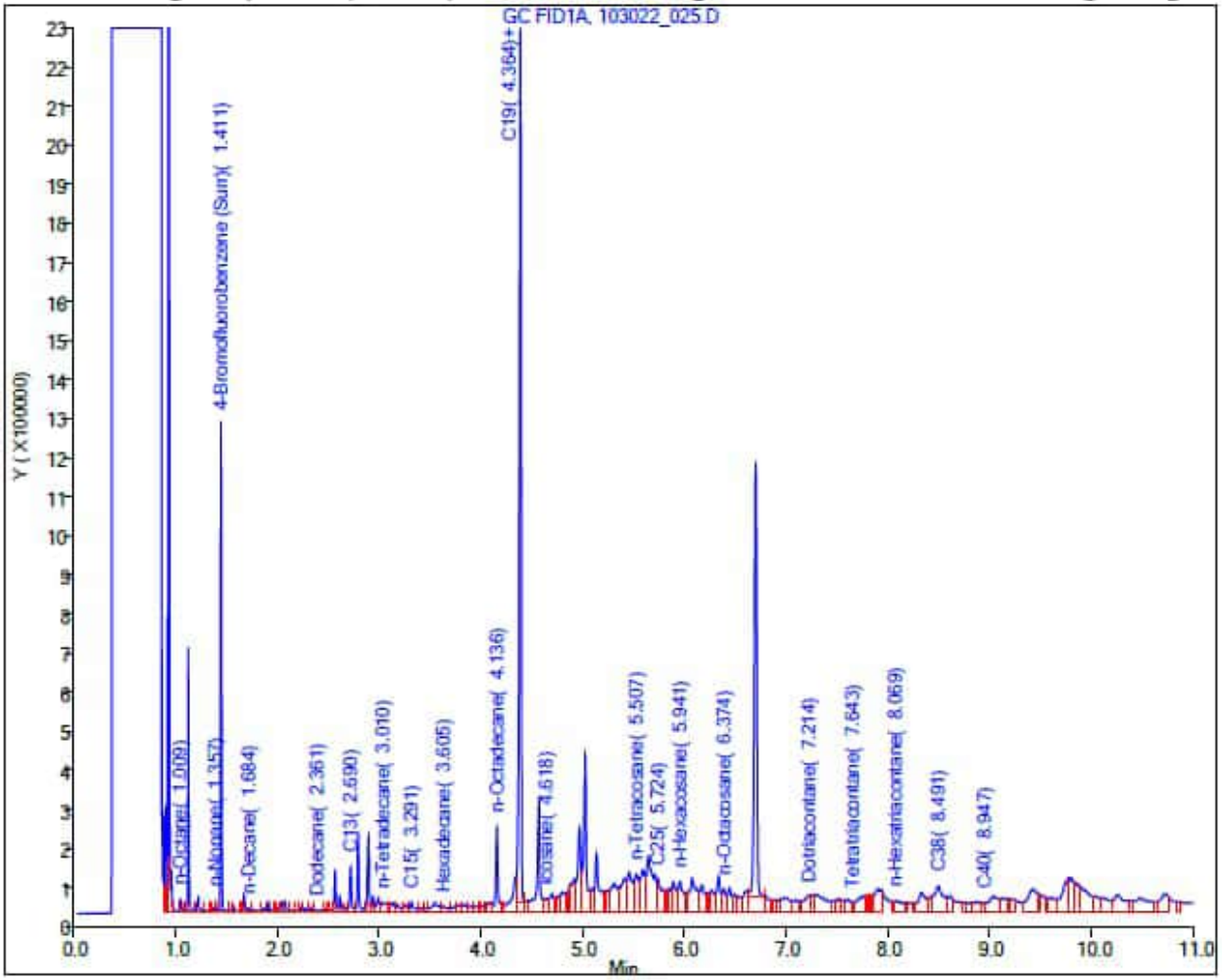
Results (ug/L): **TPH-d (C10 to C24) 280** **TPH-o (C24 to C40) 380**

Report Date: 01-Nov-2022 13:47:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_025.D				
Injection Date:	01-Nov-2022 01:11:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-1-A	Lab Sample ID:	580-119339-1		
Client ID:	RHMW03-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	24	Worklist Smp#:	74
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



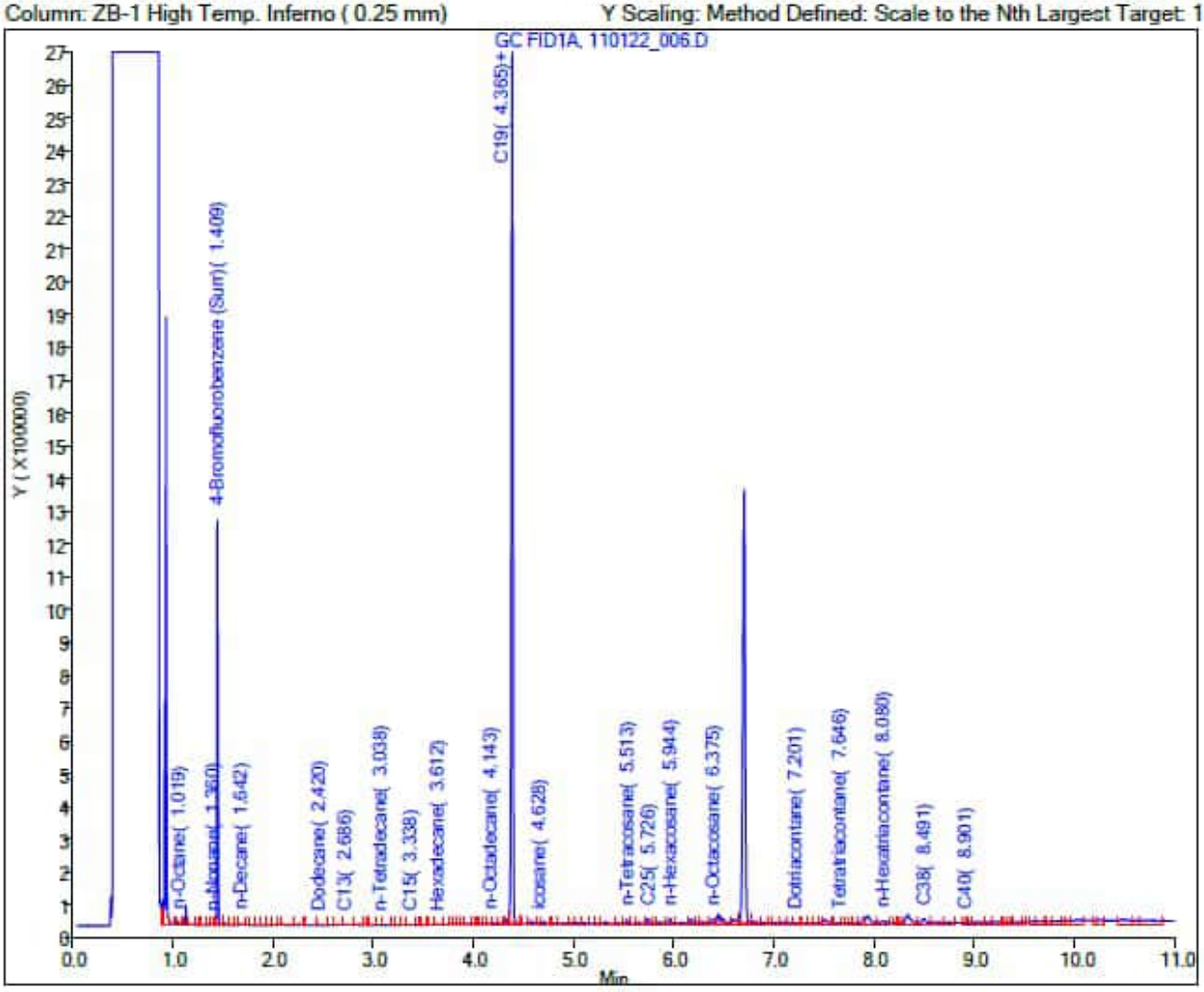
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 02-Nov-2022 14:30:34 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_006.D				
Injection Date:	01-Nov-2022 17:19:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-1-B	Lab Sample ID:	580-119339-1		
Client ID:	RHMW03-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

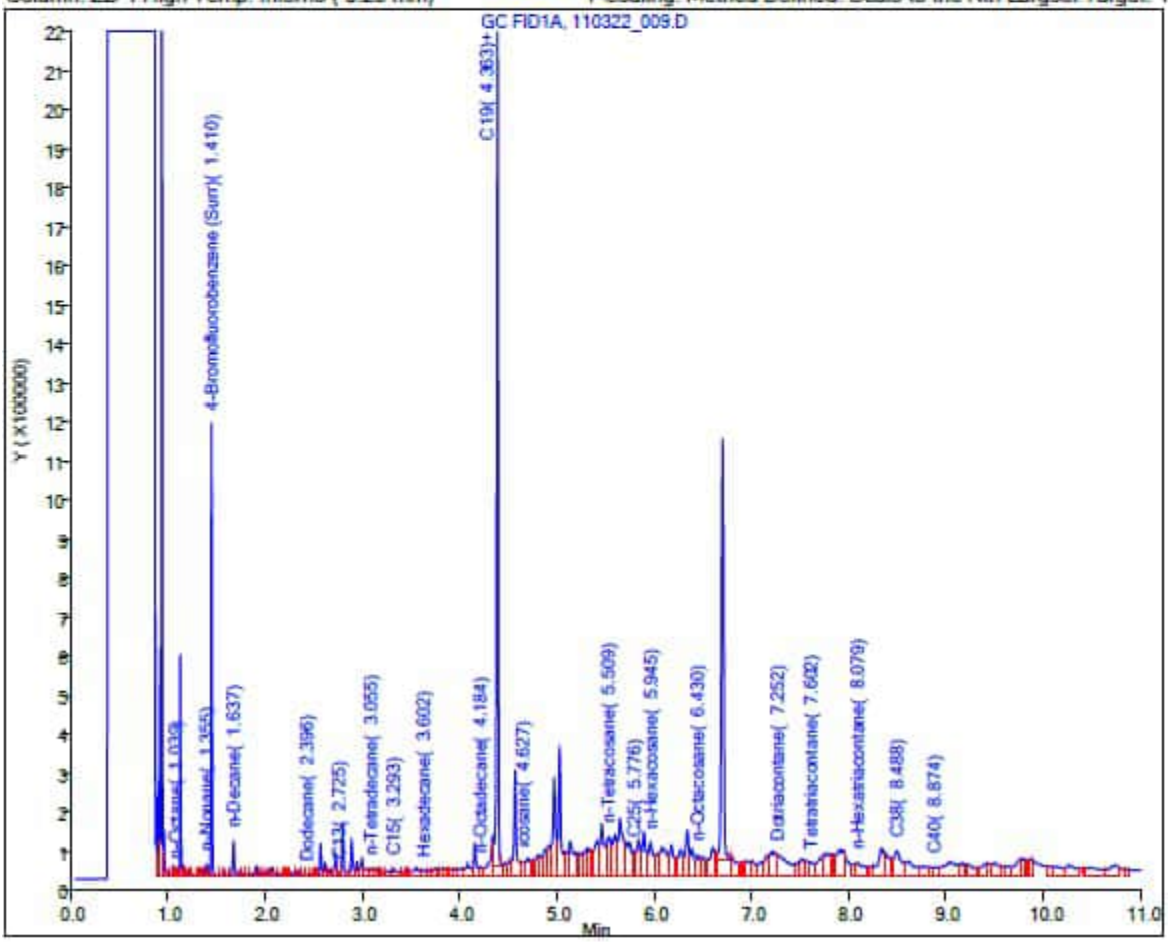
Results (ug/L): **TPH-d (C10 to C24) 270 J** **TPH-o (C24 to C40) 430 J**

Report Date: 03-Nov-2022 20:11:33 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_009.D		
Injection Date:	03-Nov-2022 17:32:30	Instrument ID:	TAC020
Lims ID:	580-119430-C-3-A	Lab Sample ID:	580-119430-3
Client ID:	RHMW03-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	8 Worklist Smp#: 34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

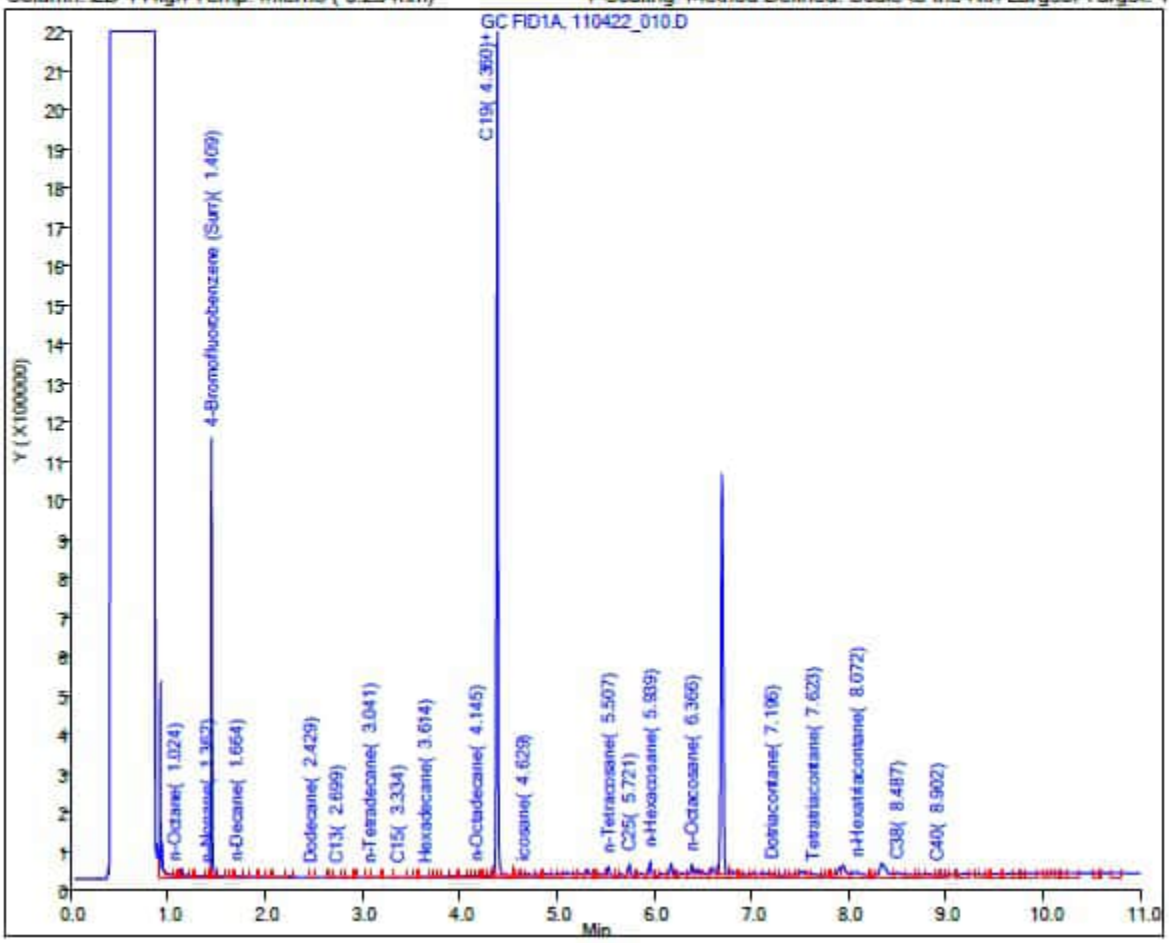


Results (ug/L): **TPH-d SGC (C10 to C24) <96 U** **TPH-o SGC (C24 to C40) <290 U**

Report Date: 04-Nov-2022 19:56:38 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221104-85629.b\110422_010.D
Injection Date: 04-Nov-2022 18:57:30 Instrument ID: TAC020
Lims ID: 580-119430-C-3-B Lab Sample ID: 580-119430-3
Client ID: RHMW03-WGN02B-2210WK4
Operator ID: DH ALS Bottle#: 9 Worklist Smp#: 77
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN01B-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

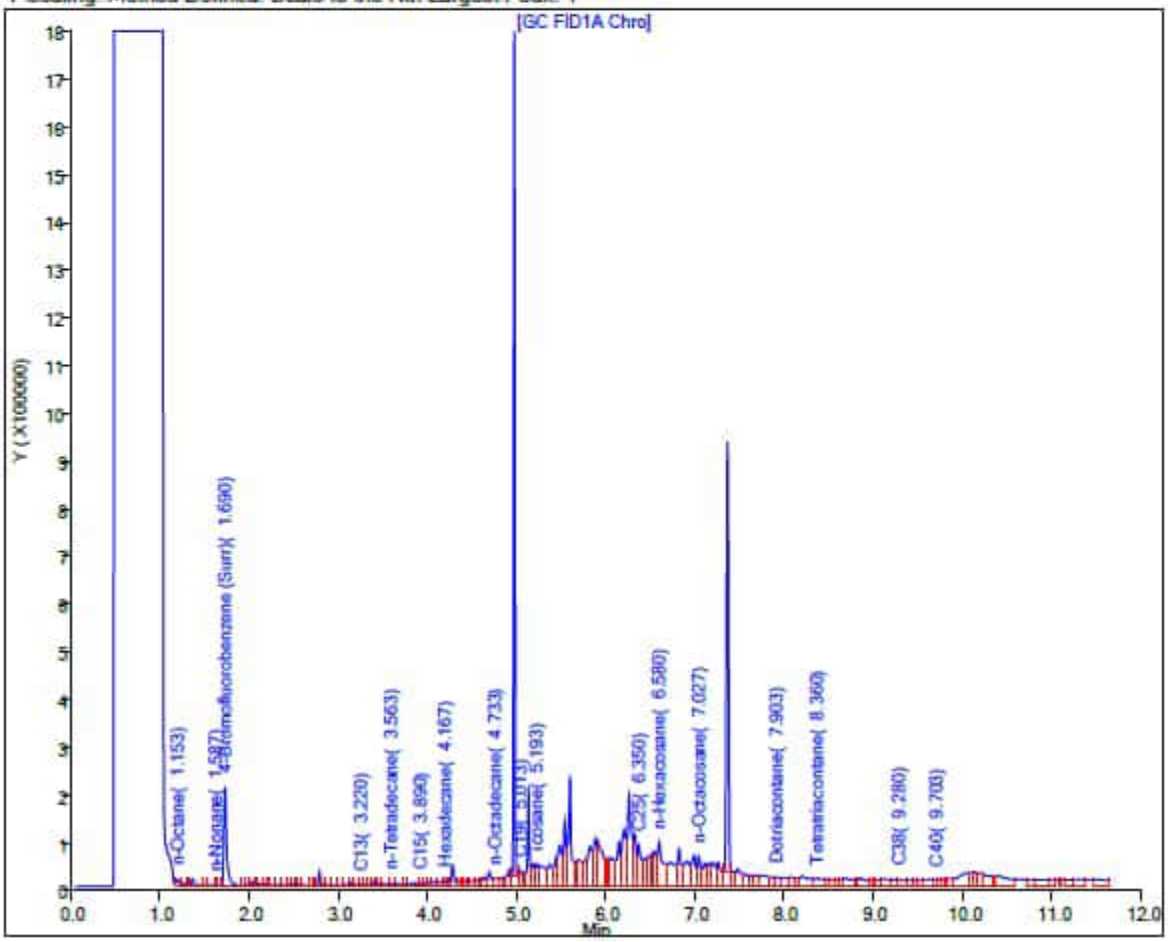
Results (ug/L): **TPH-d (C10 to C24) 170 J** **TPH-o (C24 to C40) 270 J**

Report Date: 08-Nov-2022 15:37:03 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221107-85649.b\110722A056.D		
Injection Date:	08-Nov-2022 05:00:55	Instrument ID:	TAC129
Lims ID:	580-119618-O-11-A	Lab Sample ID:	580-119618-11
Client ID:	RHMW03-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



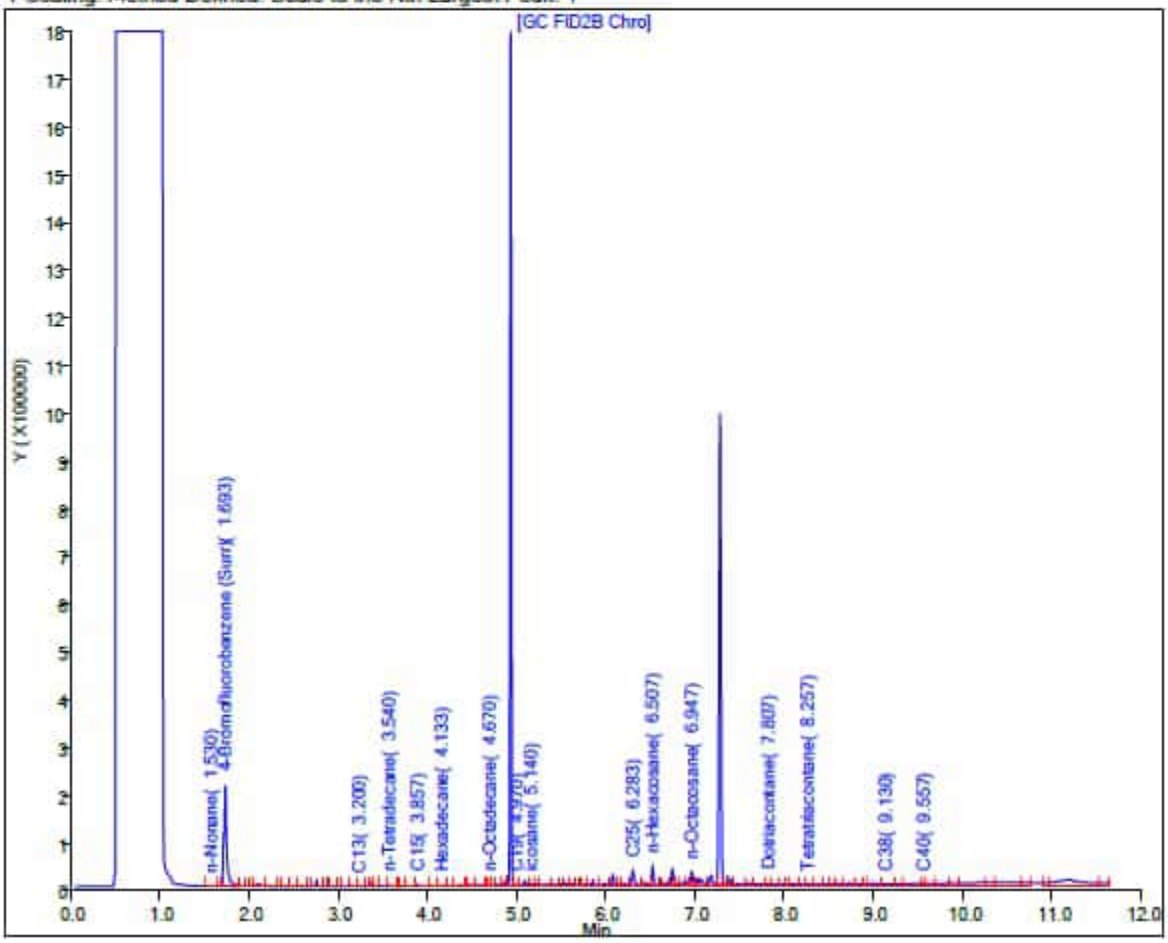
Results (ug/L): **TPH-d SGC (C10 to C24) <77 U** **TPH-o SGC (C24 to C40) <230 U**

Report Date: 14-Nov-2022 16:15:40 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A023.D		
Injection Date:	11-Nov-2022 19:47:22	Instrument ID:	TAC129_R
Lims ID:	580-119618-O-11-B	Lab Sample ID:	580-119618-11
Client ID:	RHMW03-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

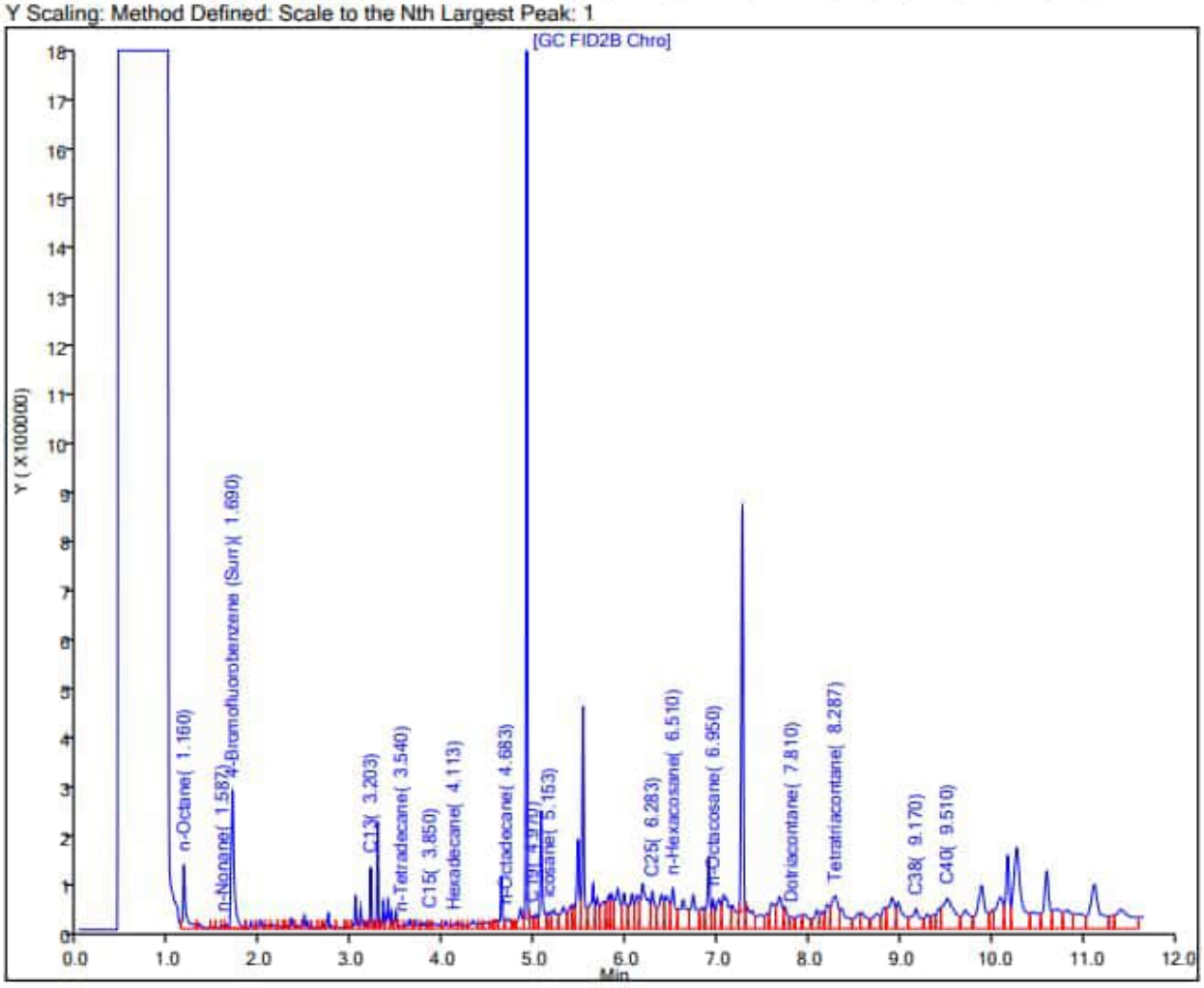
Results (ug/L): **TPH-d (C10 to C24) 250** **TPH-o (C24 to C40) 470**

Report Date: 11-Nov-2022 16:00:49 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A013.D				
Injection Date:	10-Nov-2022 20:25:29	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-1-A	Lab Sample ID:	580-119733-1		
Client ID:	RHMW03-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



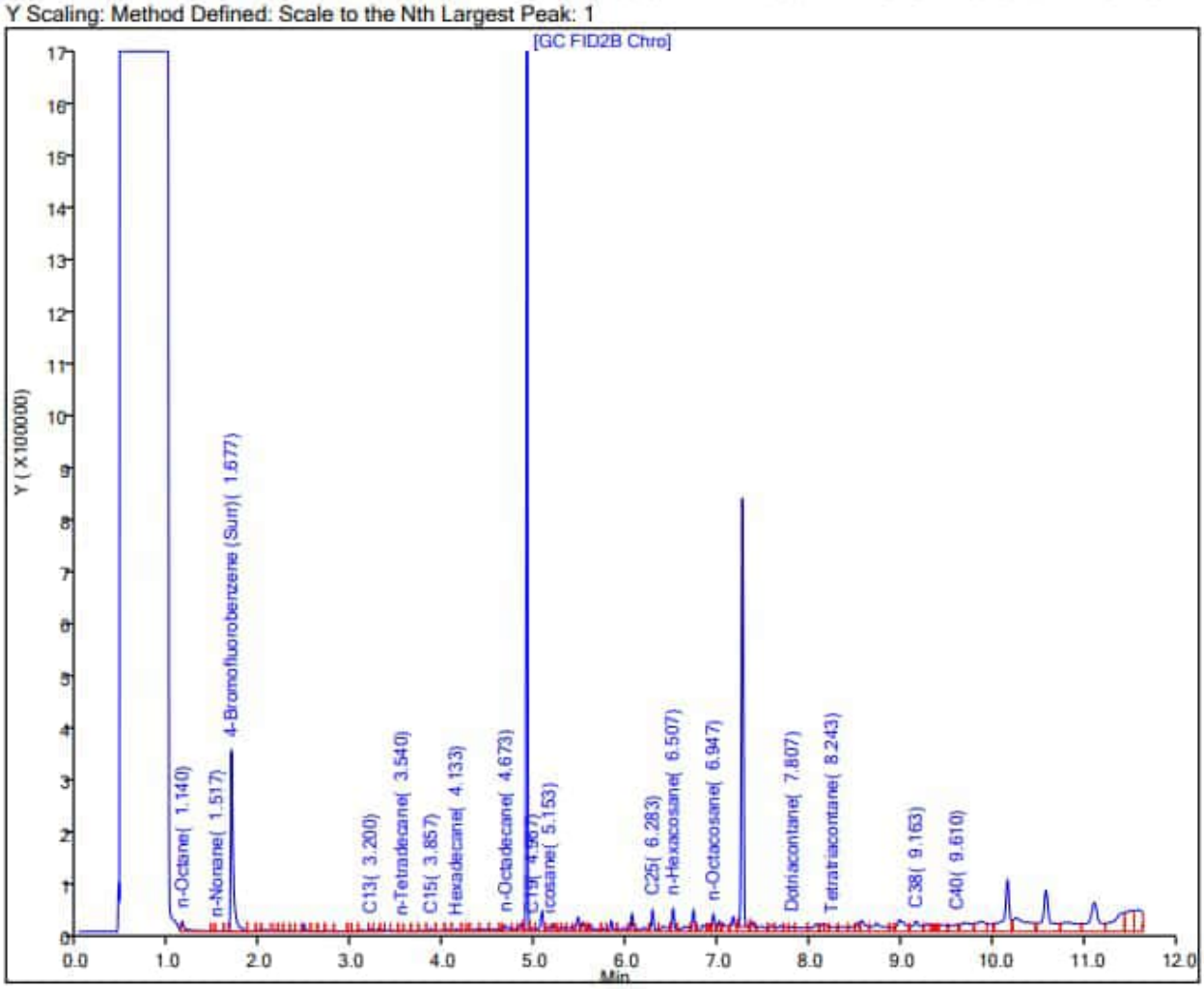
Results (ug/L): **TPH-d SGC (C10 to C24) <76 U** **TPH-o SGC (C24 to C40) <230 U**

Report Date: 15-Nov-2022 22:31:52 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A017.D				
Injection Date:	15-Nov-2022 19:34:07	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-1-B	Lab Sample ID:	580-119733-1		
Client ID:	RHMW03-WGN02B-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

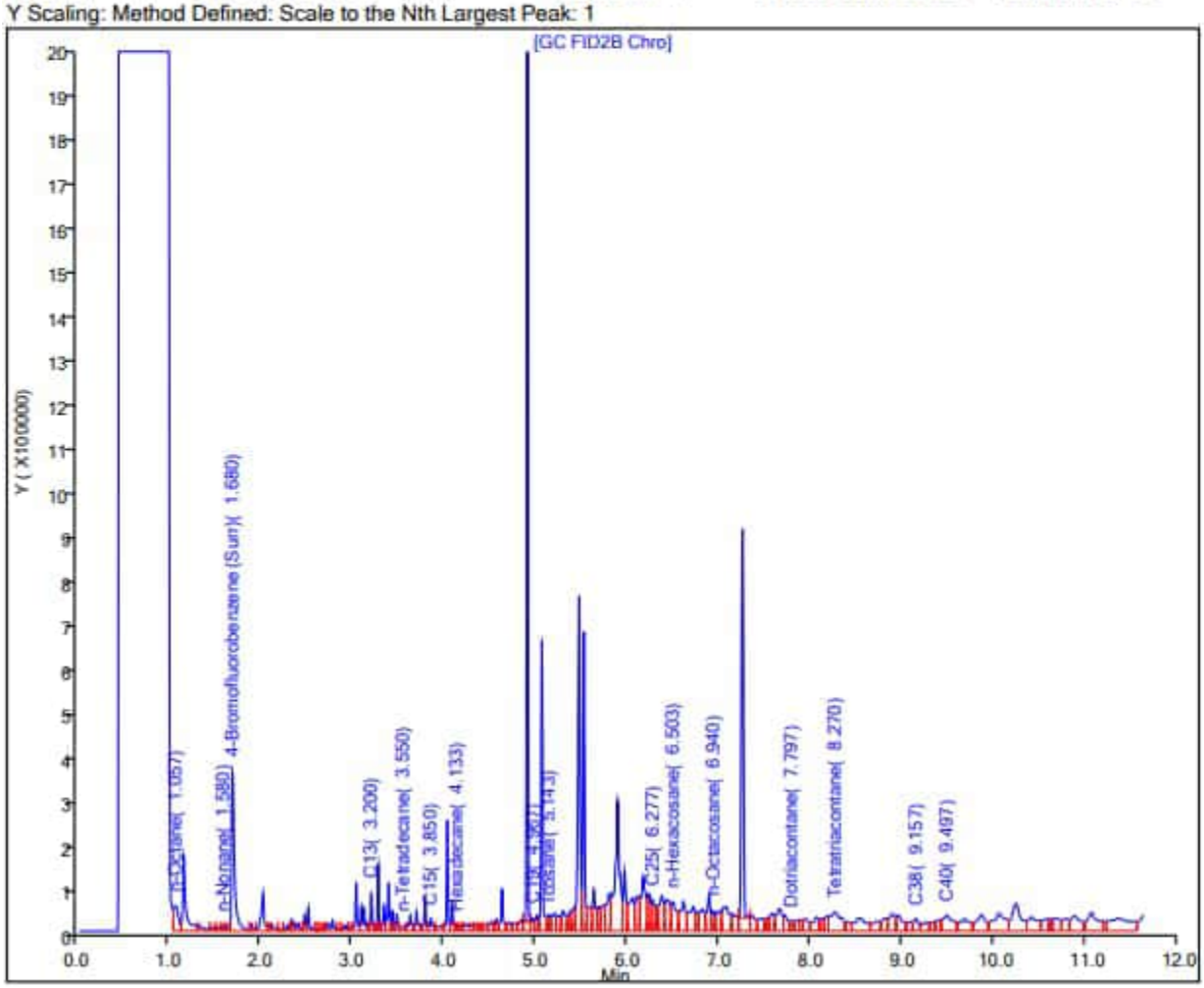
Results (ug/L): **TPH-d (C10 to C24) 470** **TPH-o (C24 to C40) 500**

Report Date: 30-Nov-2022 12:32:27 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A025.D				
Injection Date:	29-Nov-2022 21:49:24	Instrument ID:	TAC129_R		
Lims ID:	580-120405-F-3-A	Lab Sample ID:	580-120405-3		
Client ID:	RHMW03-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



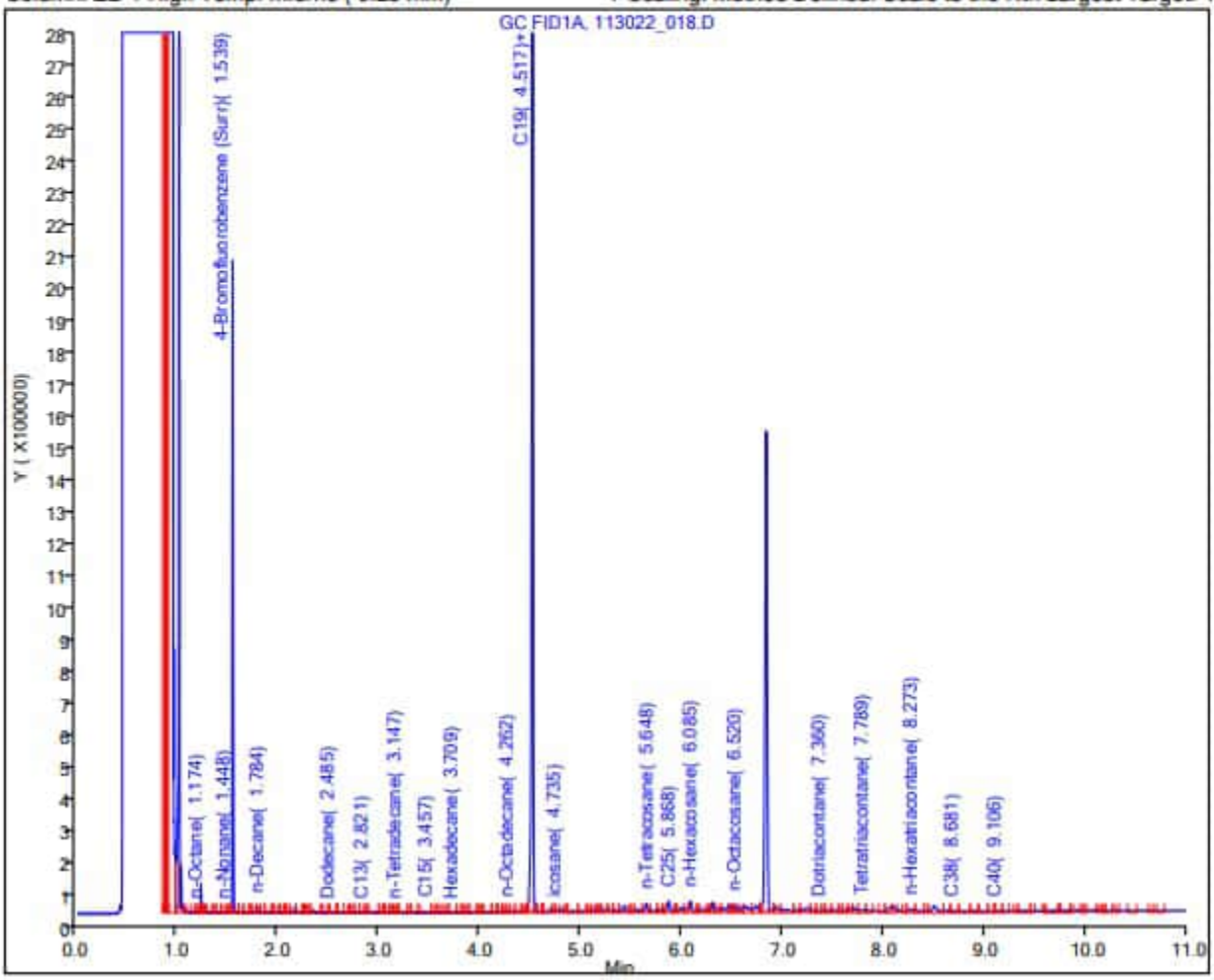
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 30-Nov-2022 22:32:48 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_018.D				
Injection Date:	30-Nov-2022 18:30:30	Instrument ID:	TAC020		
Lims ID:	580-120405-F-3-B	Lab Sample ID:	580-120405-3		
Client ID:	RHMW03-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

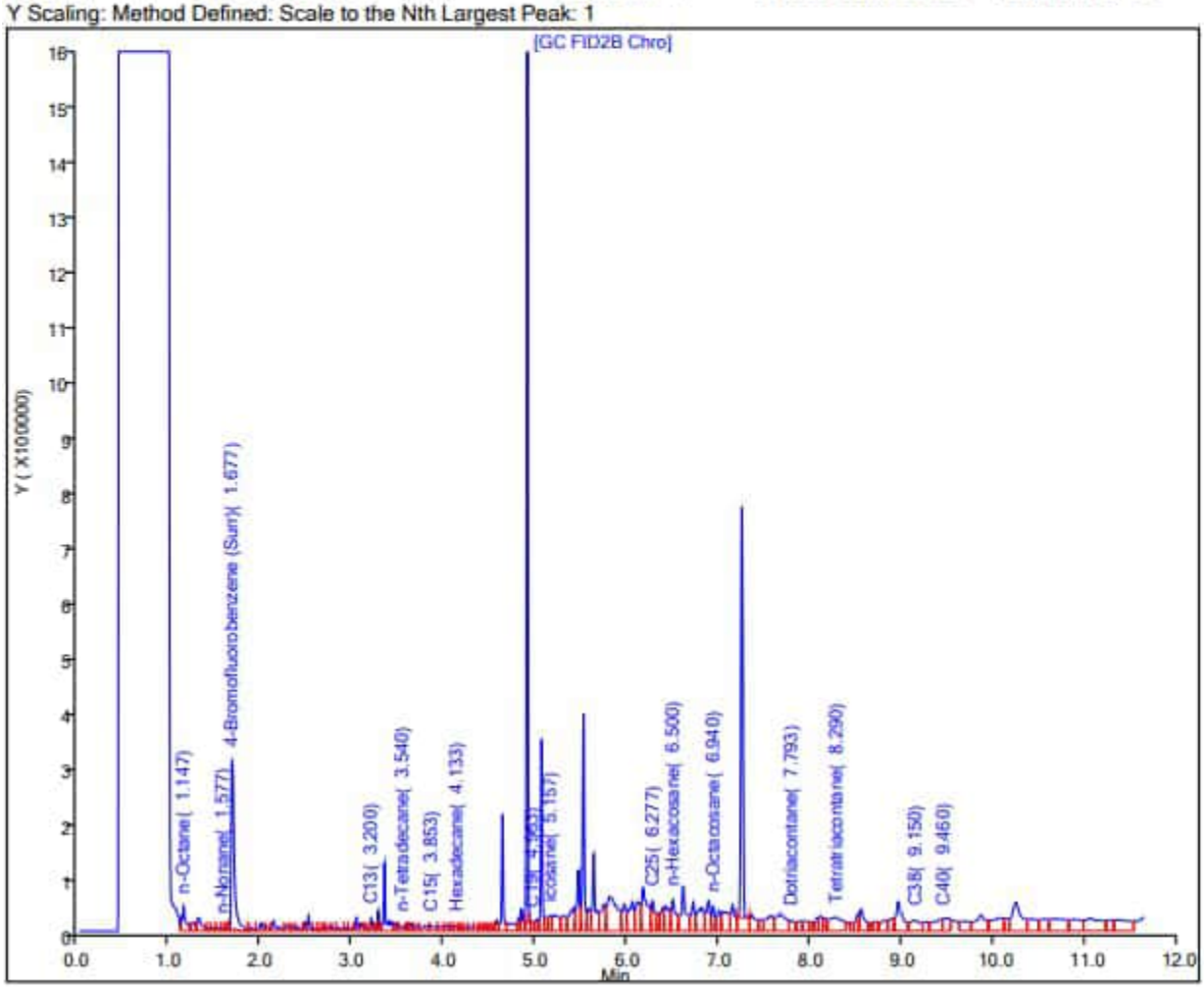
Results (ug/L): **TPH-d (C10 to C24) 250** **TPH-o (C24 to C40) 380**

Report Date: 06-Dec-2022 13:59:19 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A023.D		
Injection Date:	05-Dec-2022 22:39:31	Instrument ID:	TAC129_R
Lims ID:	580-120678-O-7-A	Lab Sample ID:	580-120678-7
Client ID:	RHMW03-05-WGN02B-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



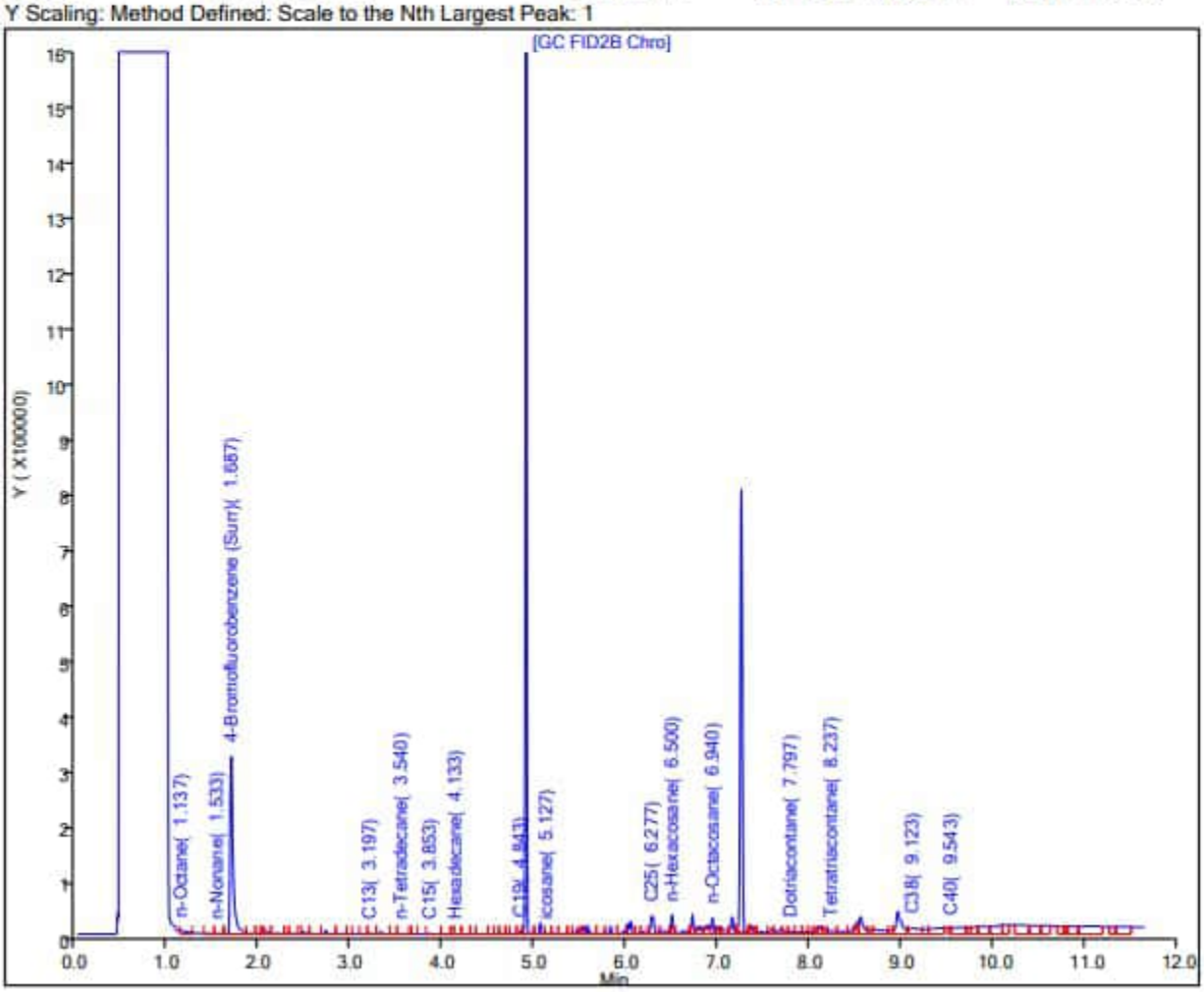
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 07-Dec-2022 12:57:13 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A021.D				
Injection Date:	06-Dec-2022 23:37:34	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-7-B	Lab Sample ID:	580-120678-7		
Client ID:	RHMW03-05-WGN02B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



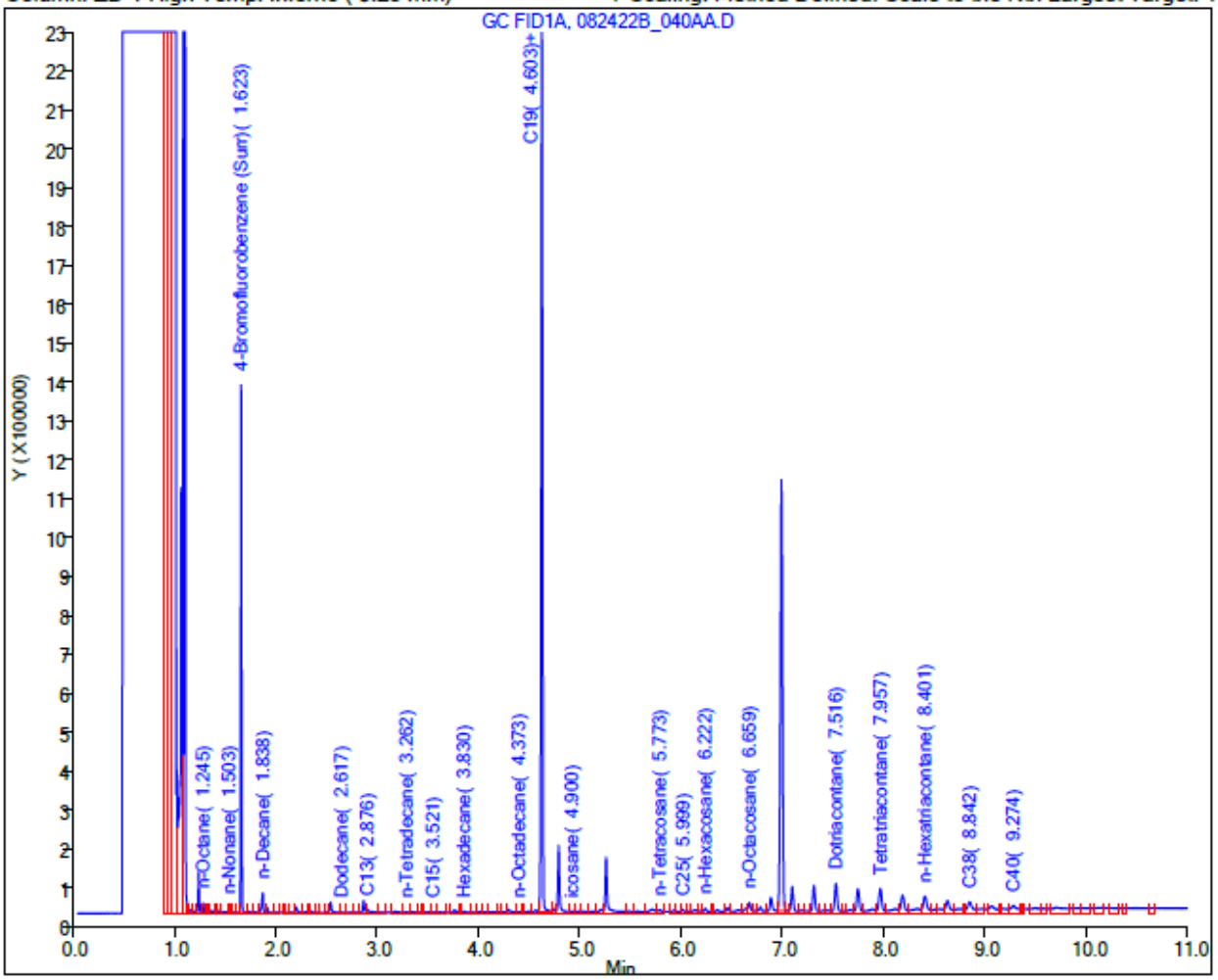
Location: **RHMW04** Sample ID: RHMW04-WGN01B-2208WK3 Sample Date: 8/17/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Aug-2022 10:42:58 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_040AA.D
Injection Date: 25-Aug-2022 09:47:30 Instrument ID: TAC020
Lims ID: 580-117085-F-1-A Lab Sample ID: 580-117085-1
Client ID: RHMW04-WGN01B-2208WK3
Operator ID: DH ALS Bottle#: 39 Worklist Smp#: 39
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2208WK3 Sample Date: 8/17/2022
Lab: Eurofins Seattle

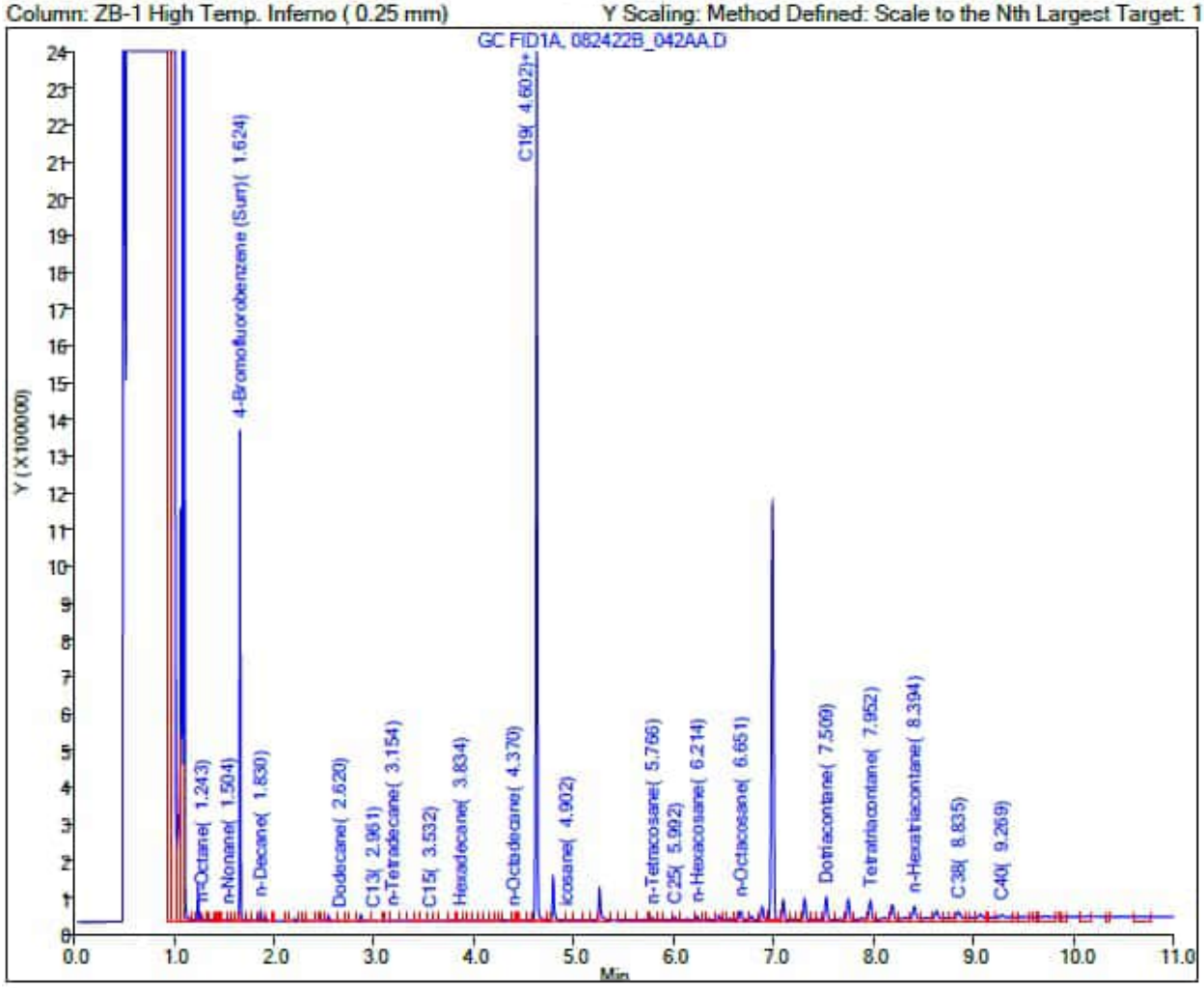
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Aug-2022 13:46:10 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_042AA.D				
Injection Date:	25-Aug-2022 10:28:30	Instrument ID:	TAC020		
Lims ID:	580-117085-A-3-A	Lab Sample ID:	580-117085-3		
Client ID:	RHMW04-WGFD01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	41	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2208WK4 Sample Date: 8/24/2022
Lab: Eurofins Seattle

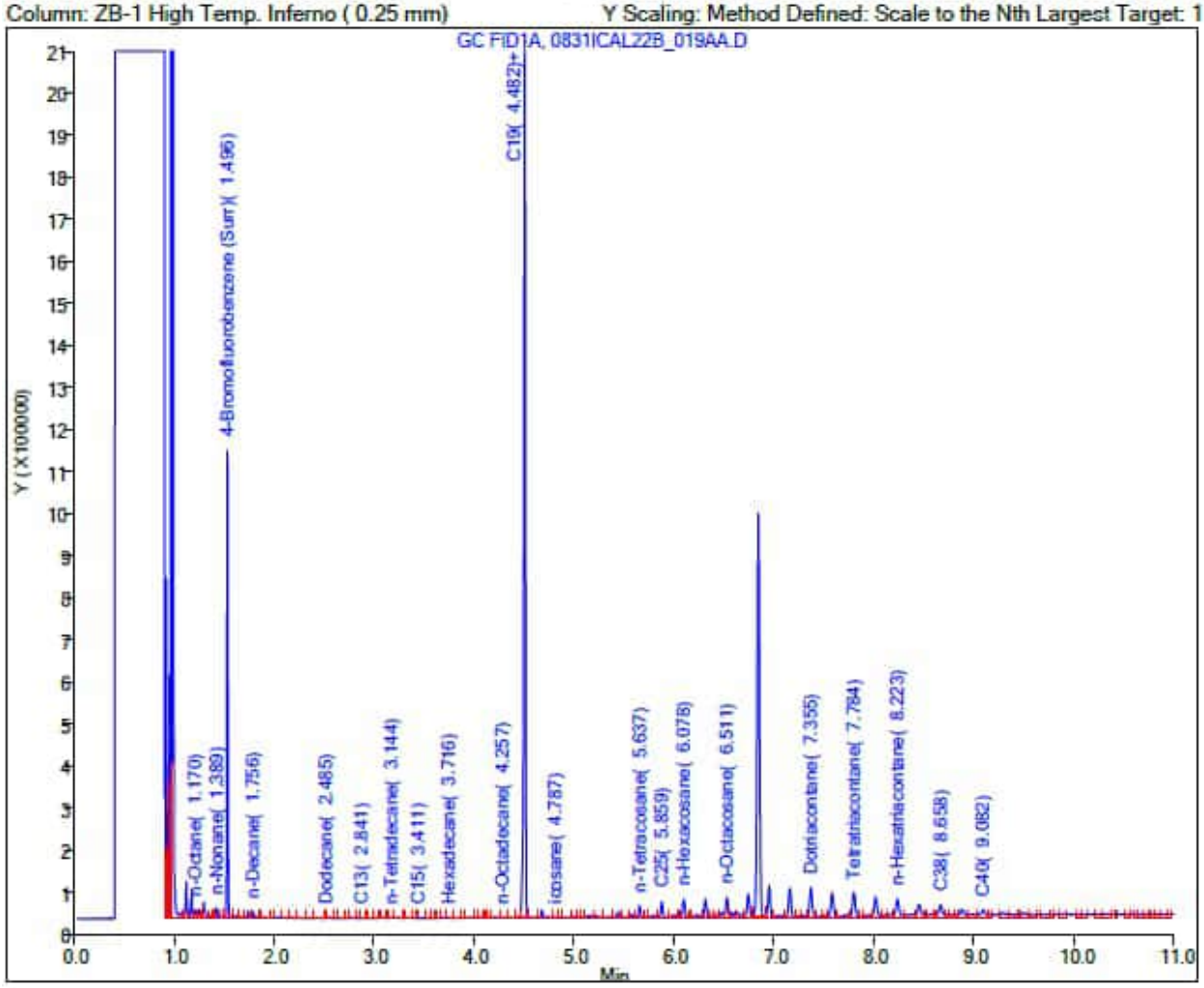
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Sep-2022 14:04:12 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_019AA.D		
Injection Date:	01-Sep-2022 05:26:30	Instrument ID:	TAC020
Lims ID:	580-117295-O-1-A	Lab Sample ID:	580-117295-1
Client ID:	RHMW04-WGN01B-2208WK4		
Operator ID:	DH	ALS Bottle#:	7 Worklist Smp#: 18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2208WK4 Sample Date: 8/24/2022
Lab: Eurofins Seattle

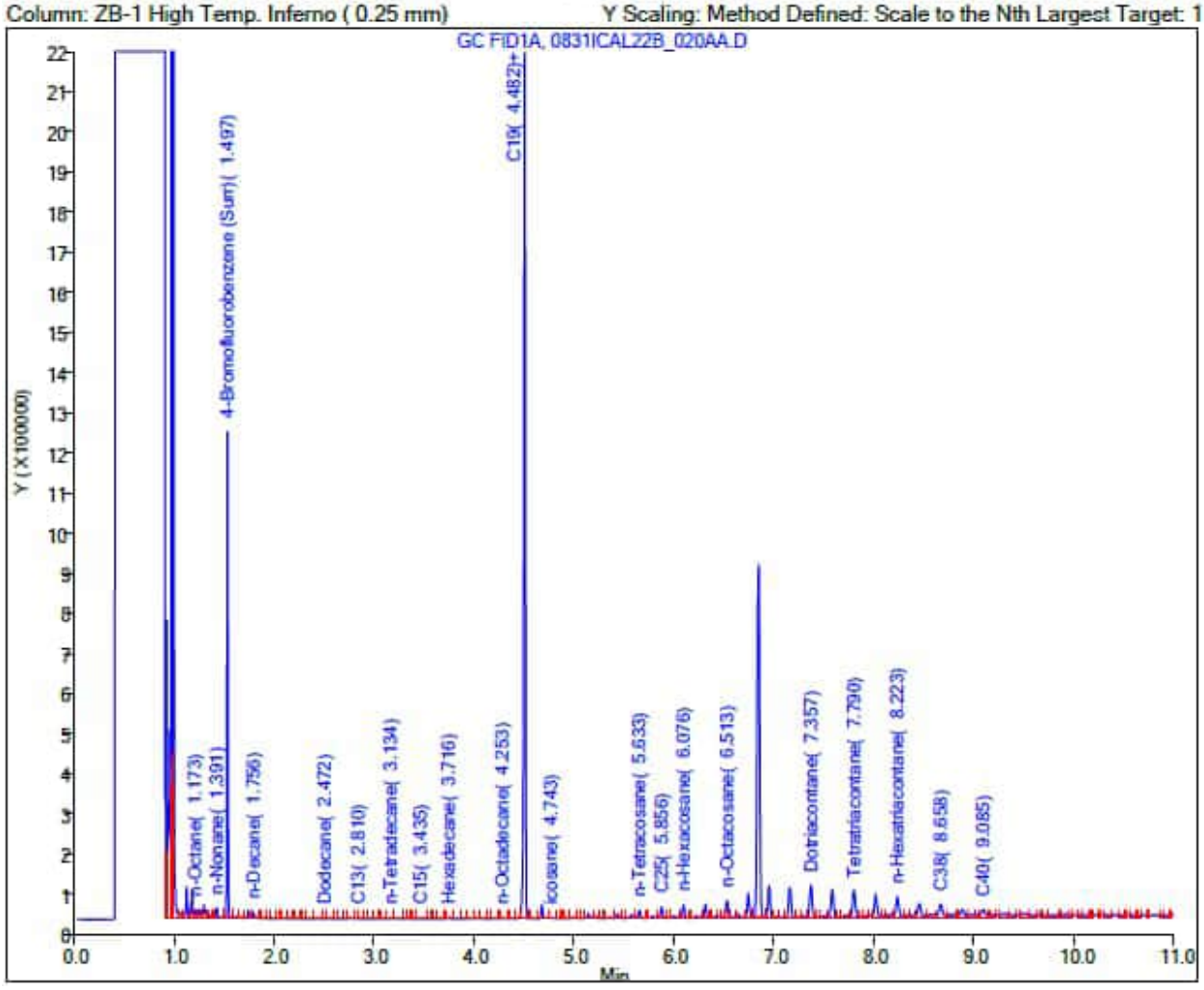
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Sep-2022 14:04:17 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_020AA.D				
Injection Date:	01-Sep-2022 05:46:30	Instrument ID:	TAC020		
Lims ID:	580-117295-I-3-A	Lab Sample ID:	580-117295-3		
Client ID:	RHMW04-WGFD01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2209WK1 Sample Date: 9/9/2022
Lab: Eurofins Seattle

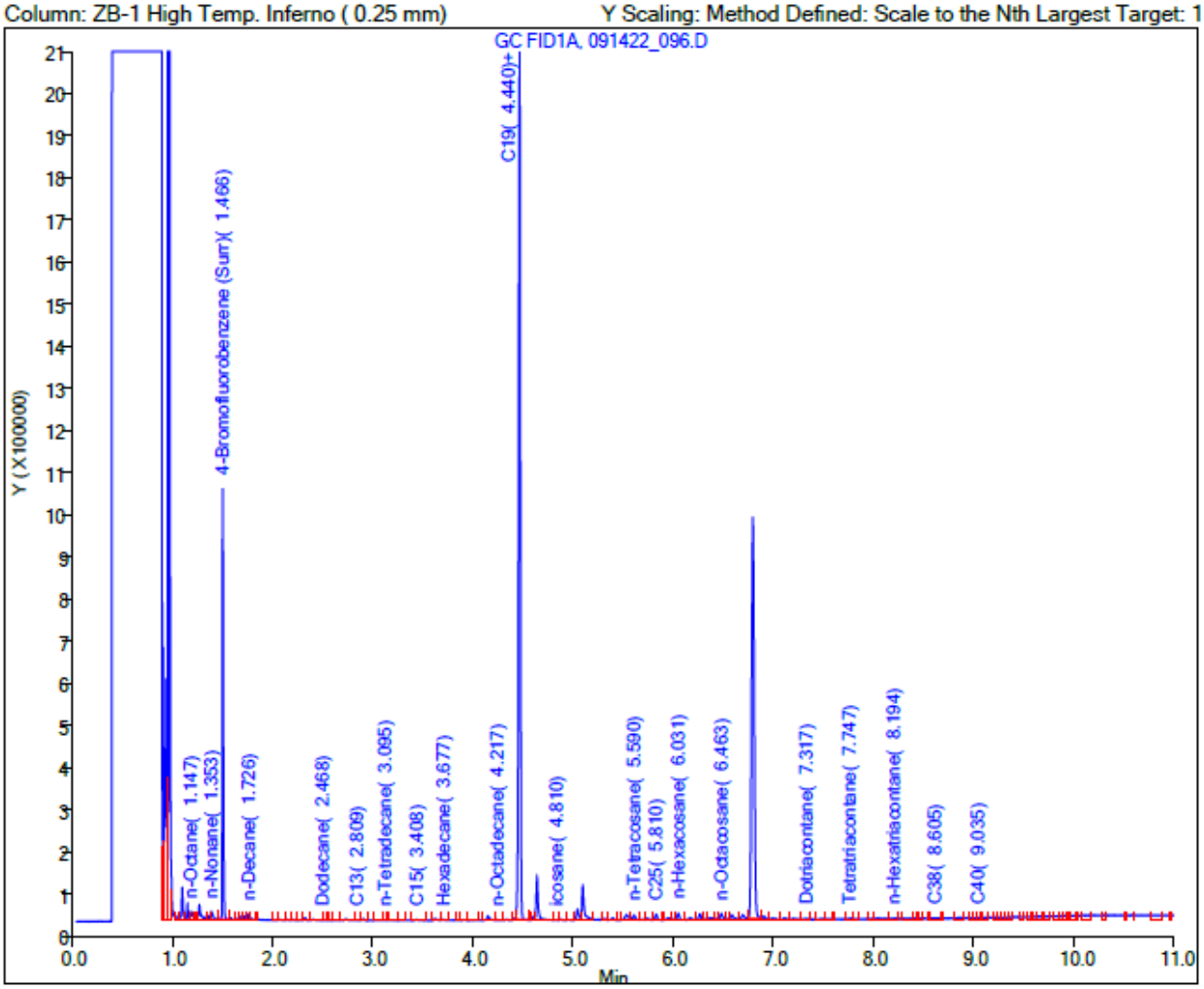
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 15-Sep-2022 14:58:48 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_096.D				
Injection Date:	14-Sep-2022 22:20:30	Instrument ID:	TAC020		
Lims ID:	580-117771-E-5-A	Lab Sample ID:	580-117771-5		
Client ID:	RHMW04-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	96	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2209WK1 Sample Date: 9/9/2022
Lab: Eurofins Seattle

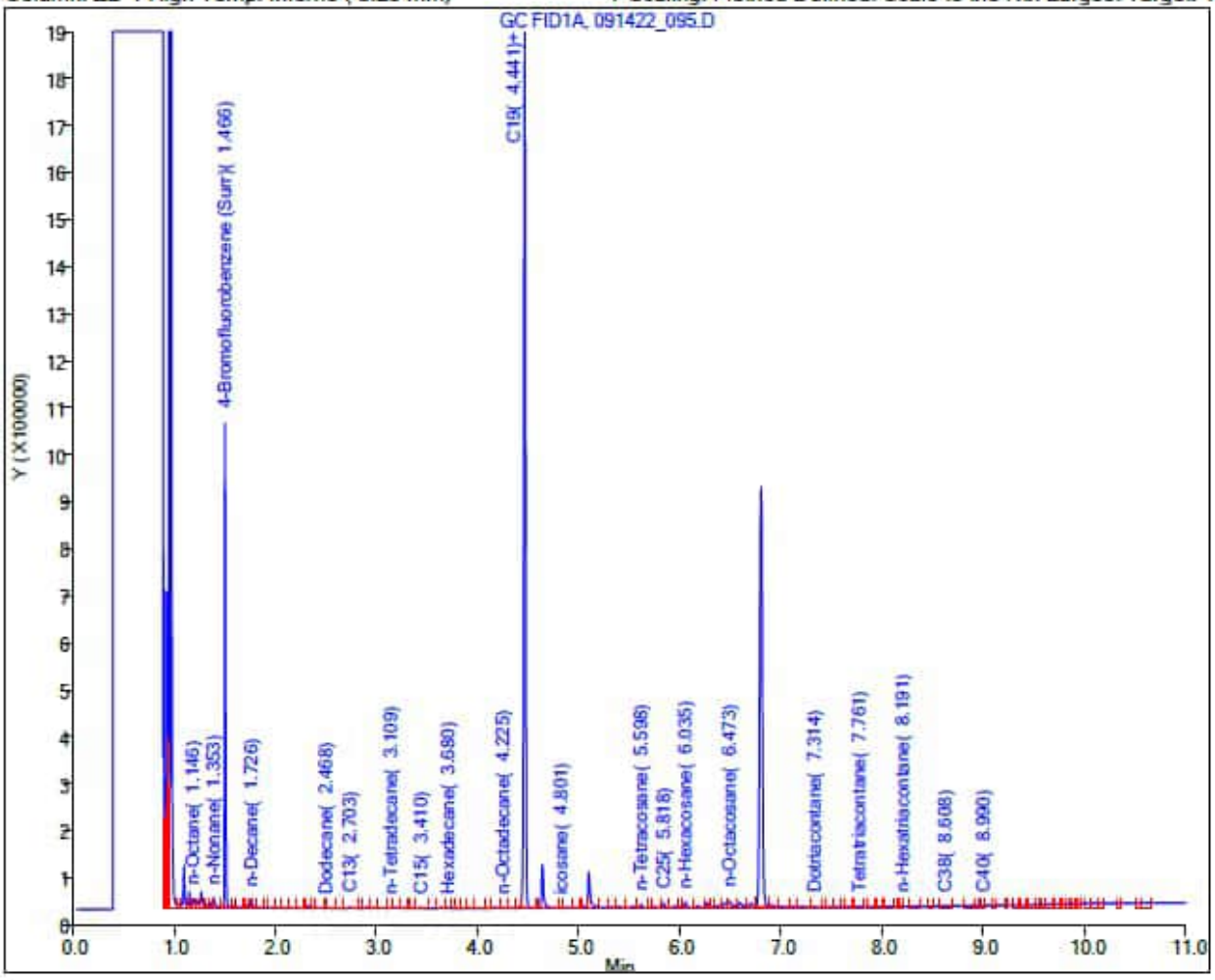
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 15-Sep-2022 14:58:53 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_095.D				
Injection Date:	14-Sep-2022 22:40:30	Instrument ID:	TAC020		
Lims ID:	580-117771-B-7-A	Lab Sample ID:	580-117771-7		
Client ID:	RHMW04-WGFD01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	95	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2210WK1 Sample Date: 10/5/2022
Lab: Eurofins Seattle

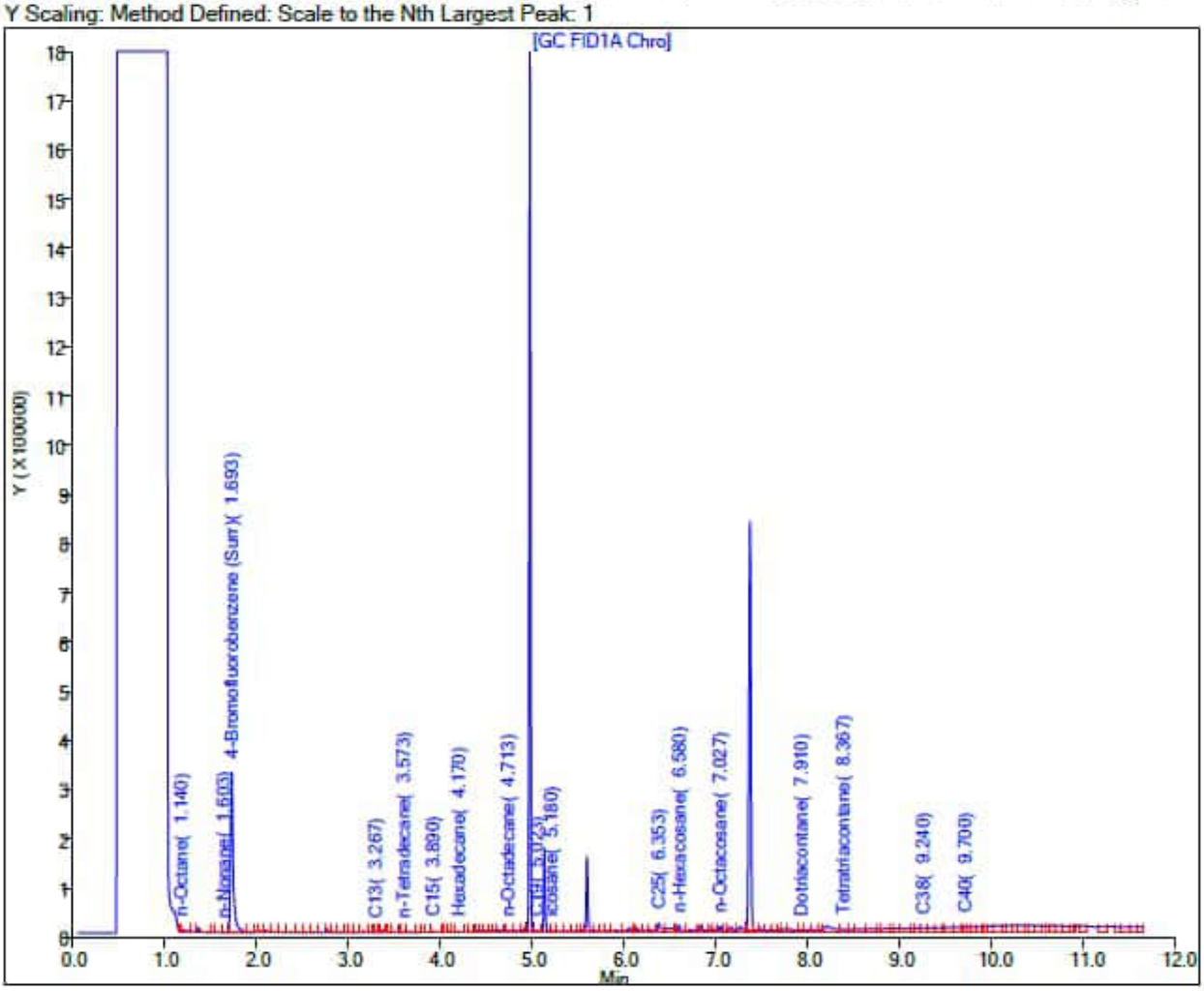
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 11-Oct-2022 13:54:56 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A020.D		
Injection Date:	10-Oct-2022 19:57:04	Instrument ID:	TAC129
Lims ID:	580-118648-E-1-A	Lab Sample ID:	580-118648-1
Client ID:	RHMW04-WGN01B-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2210WK1 Sample Date: 10/5/2022
Lab: Eurofins Seattle

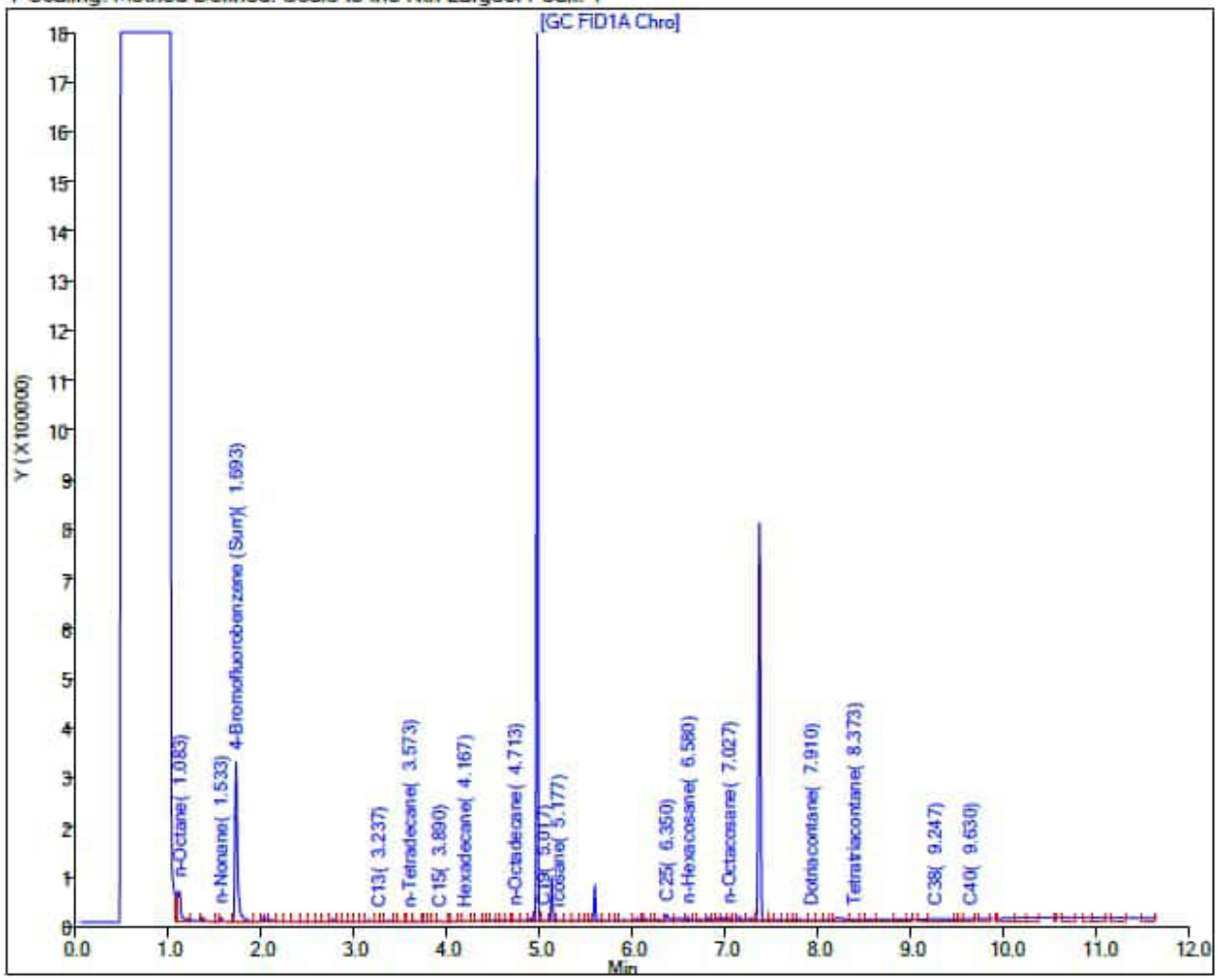
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:55:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A022.D				
Injection Date:	10-Oct-2022 20:16:00	Instrument ID:	TAC129		
Lims ID:	580-118648-A-3-A	Lab Sample ID:	580-118648-3		
Client ID:	RHMW04-WGFD01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

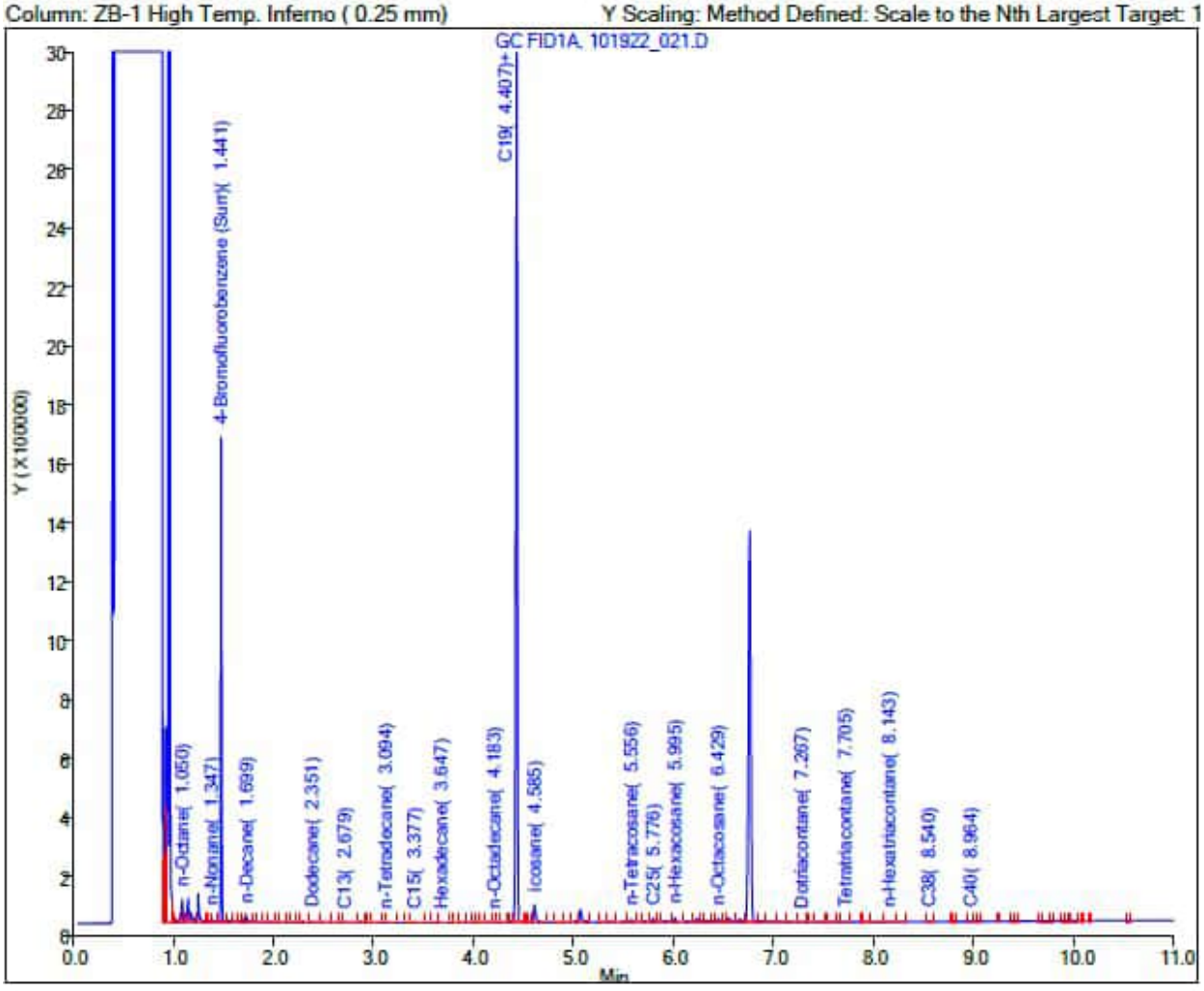
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 20-Oct-2022 13:41:02 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_021.D				
Injection Date:	19-Oct-2022 22:52:30	Instrument ID:	TAC020		
Lims ID:	580-118941-N-4-A	Lab Sample ID:	580-118941-4		
Client ID:	RHMW04-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

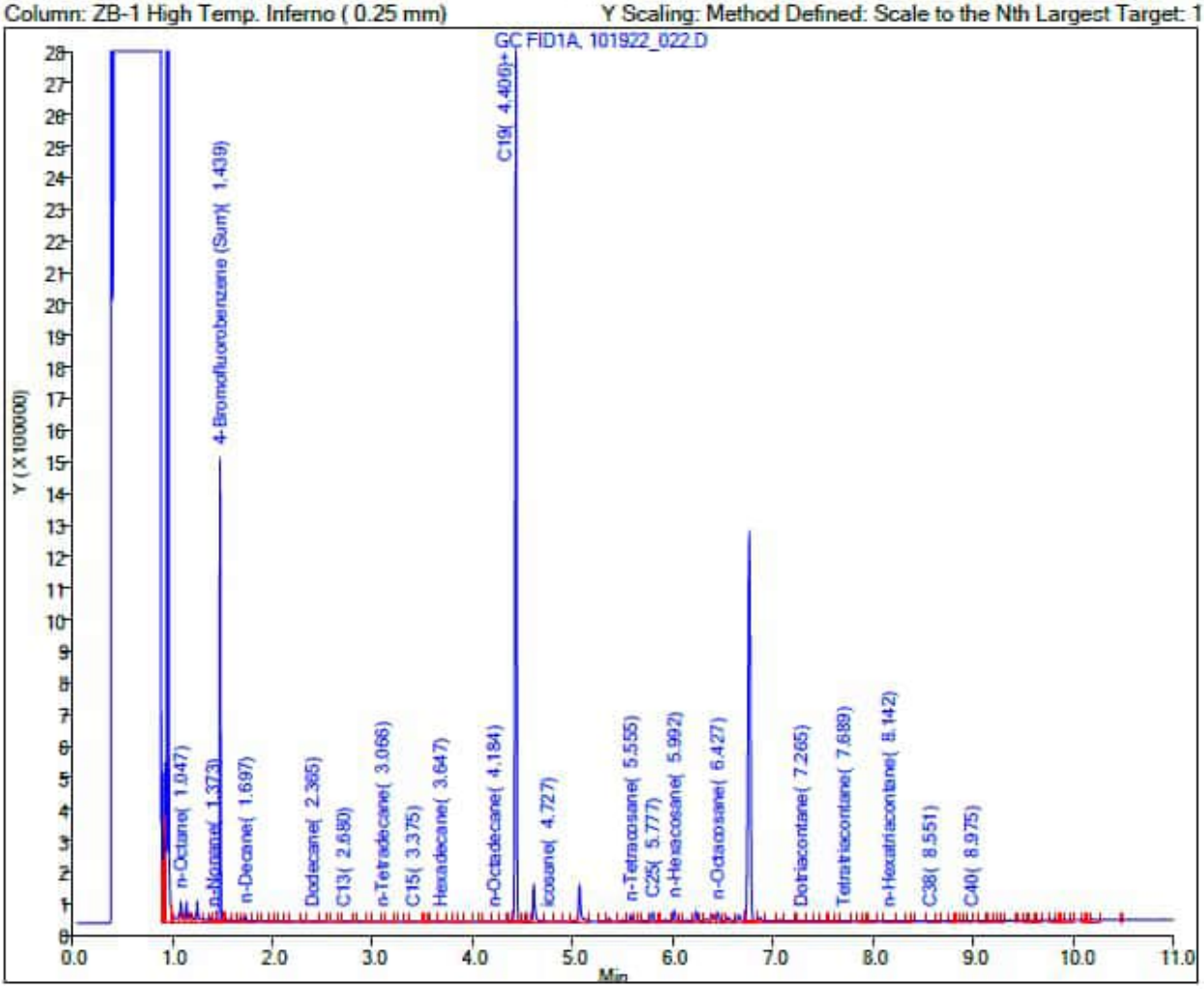
Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:41:08 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_022.D
Injection Date: 19-Oct-2022 23:12:30 Instrument ID: TAC020
Lims ID: 580-118941-J-6-A Lab Sample ID: 580-118941-6
Client ID: RHMW04-WGFD01B-2210WK2
Operator ID: DH ALS Bottle#: 21 Worklist Smp#: 49
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

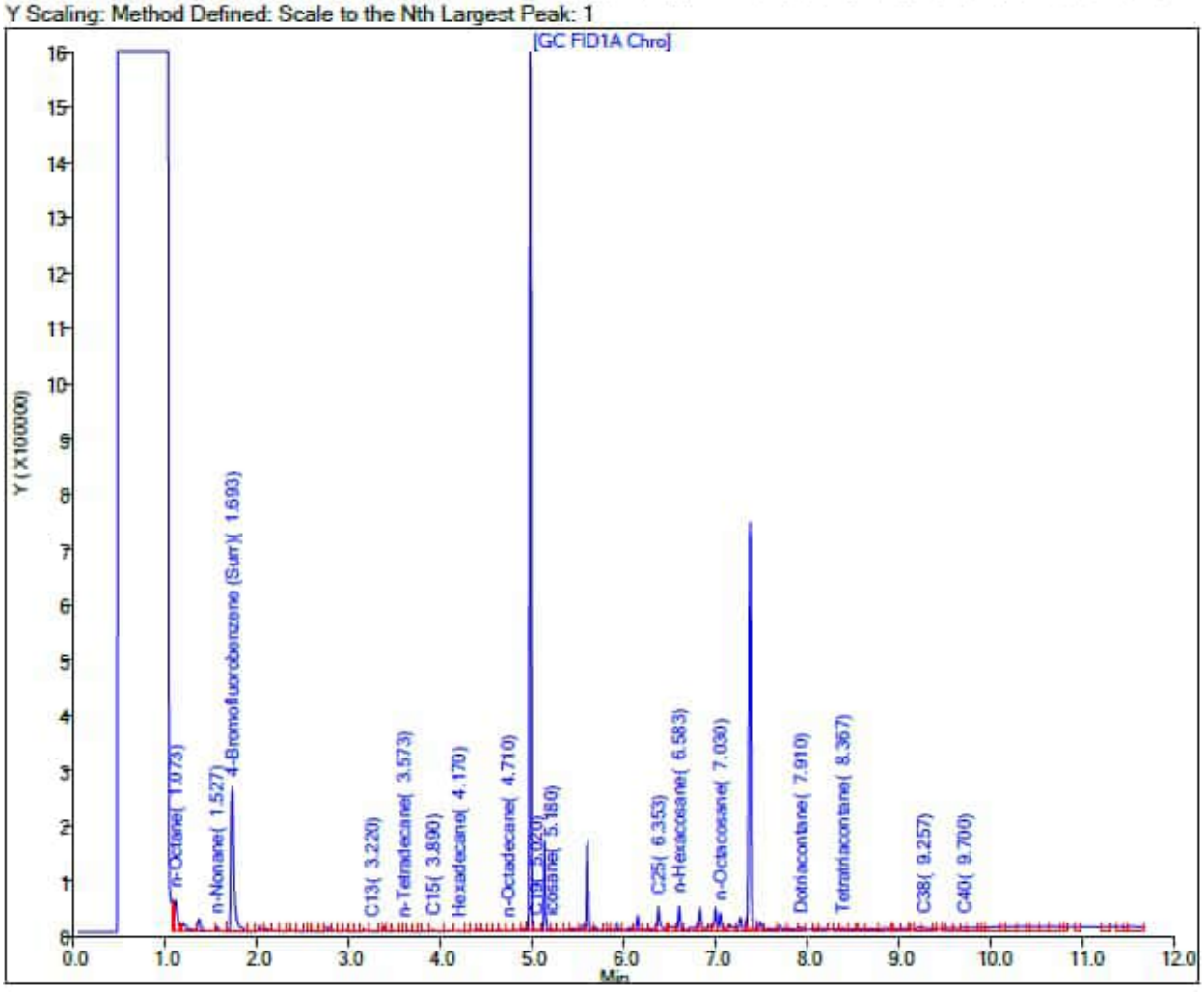
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:37:44 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A028.D				
Injection Date:	21-Oct-2022 21:42:44	Instrument ID:	TAC129		
Lims ID:	580-118934-N-8-A	Lab Sample ID:	580-118934-8		
Client ID:	RHMW04-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

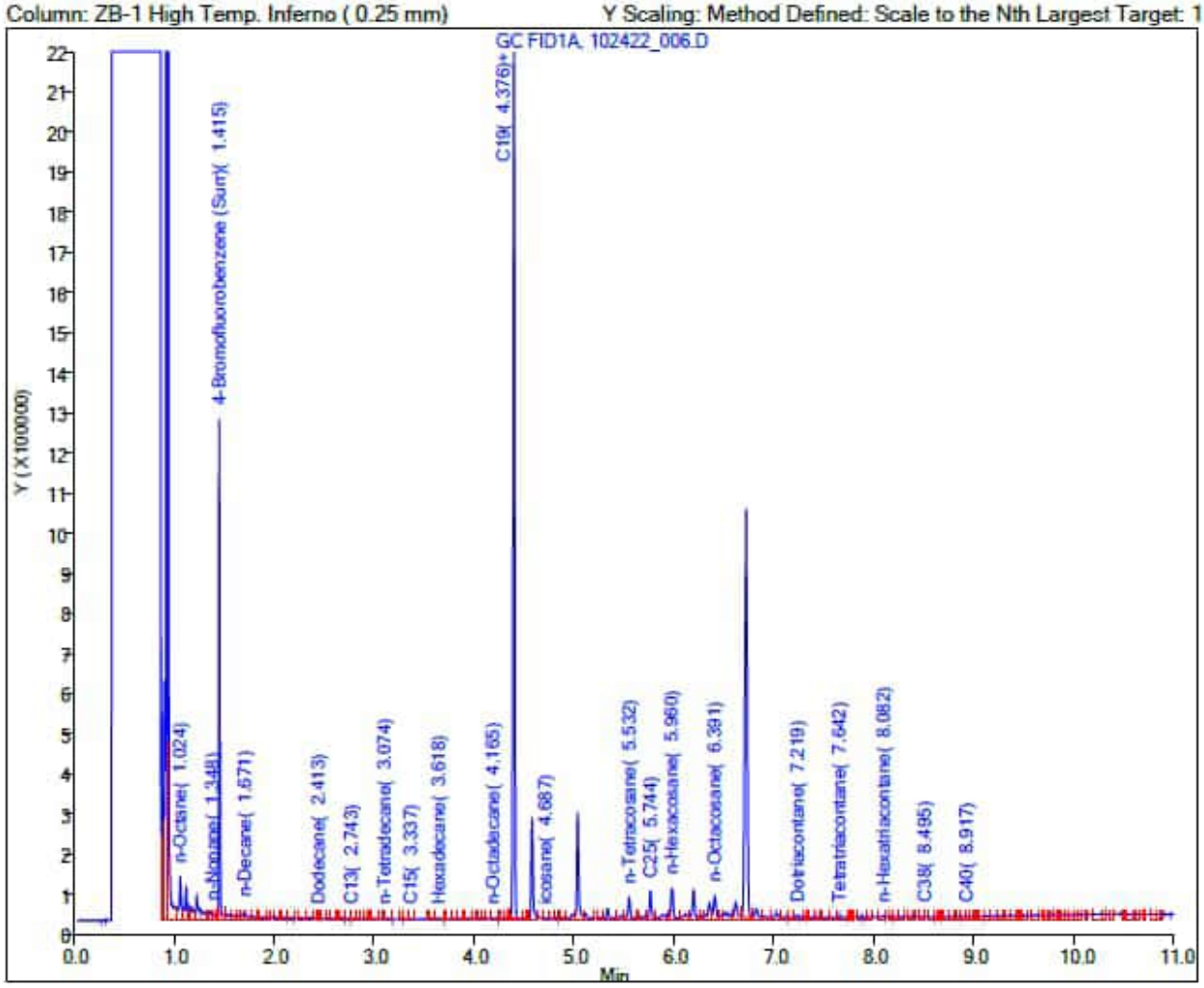
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 19:48:12 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221024-85448.b\102422_006.D				
Injection Date:	24-Oct-2022 17:17:30	Instrument ID:	TAC020		
Lims ID:	580-118934-I-10-A	Lab Sample ID:	580-118934-10		
Client ID:	RHMW04-WGFD01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN02B-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

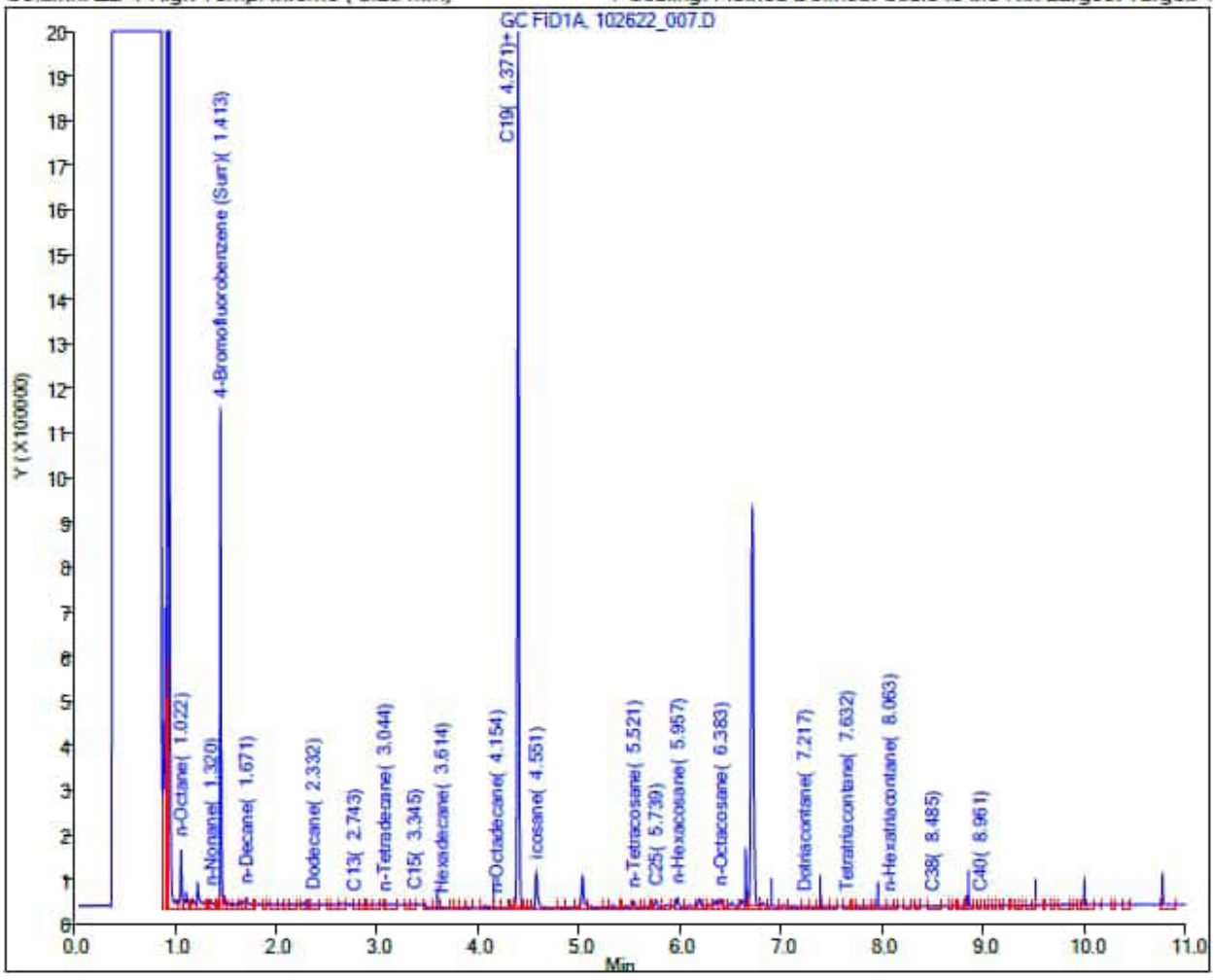
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 27-Oct-2022 13:31:59 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_007.D		
Injection Date:	26-Oct-2022 16:17:30	Instrument ID:	TAC020
Lims ID:	580-119014-N-4-A	Lab Sample ID:	580-119014-4
Client ID:	RHMW04-WGN02B-2210WK3		
Operator ID:	DH	ALS Bottle#:	6 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD02B-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

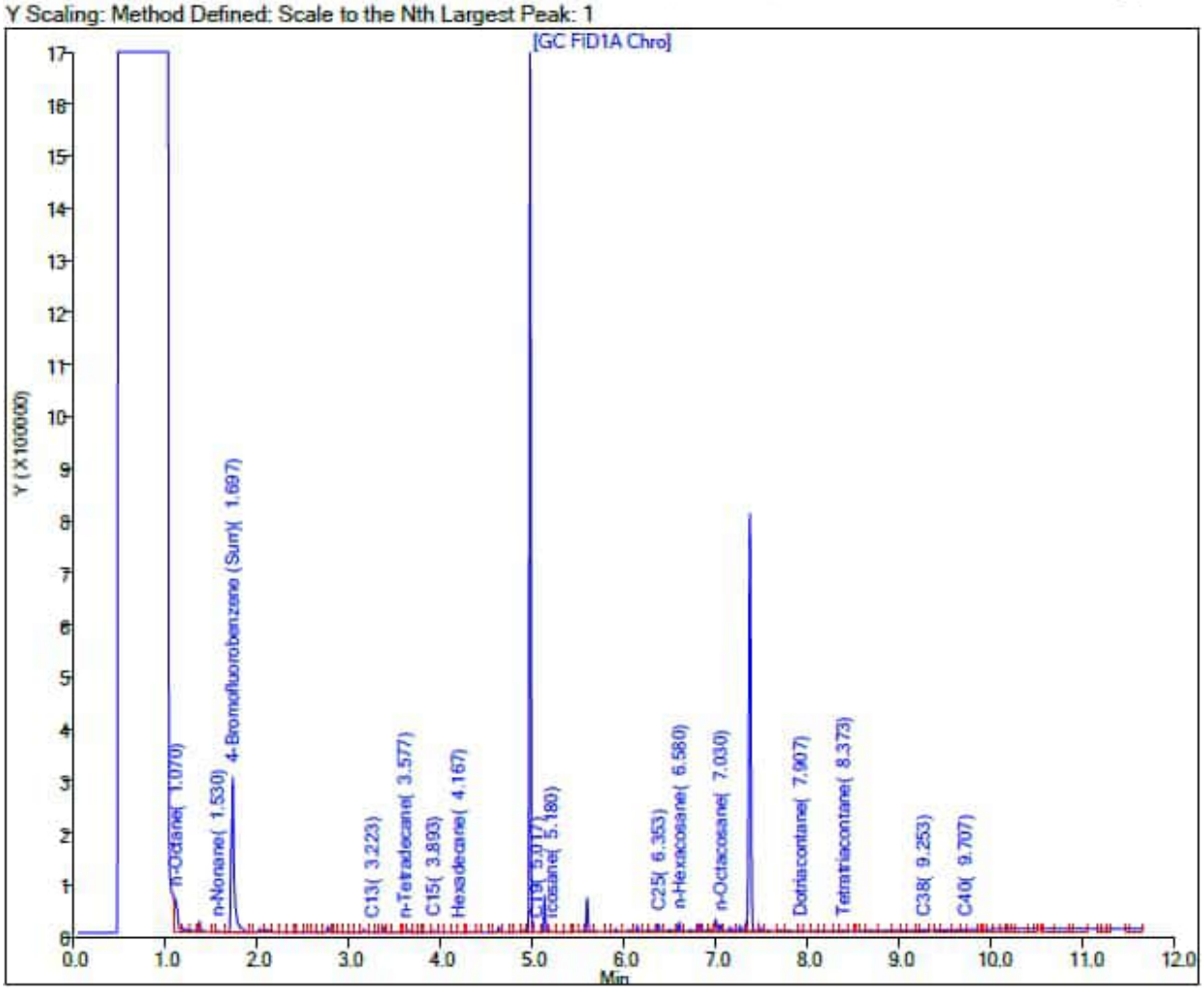
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:37:02 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A032.D				
Injection Date:	26-Oct-2022 00:37:37	Instrument ID:	TAC129		
Lims ID:	580-119014-I-6-A	Lab Sample ID:	580-119014-6		
Client ID:	RHMW04-WGFD02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

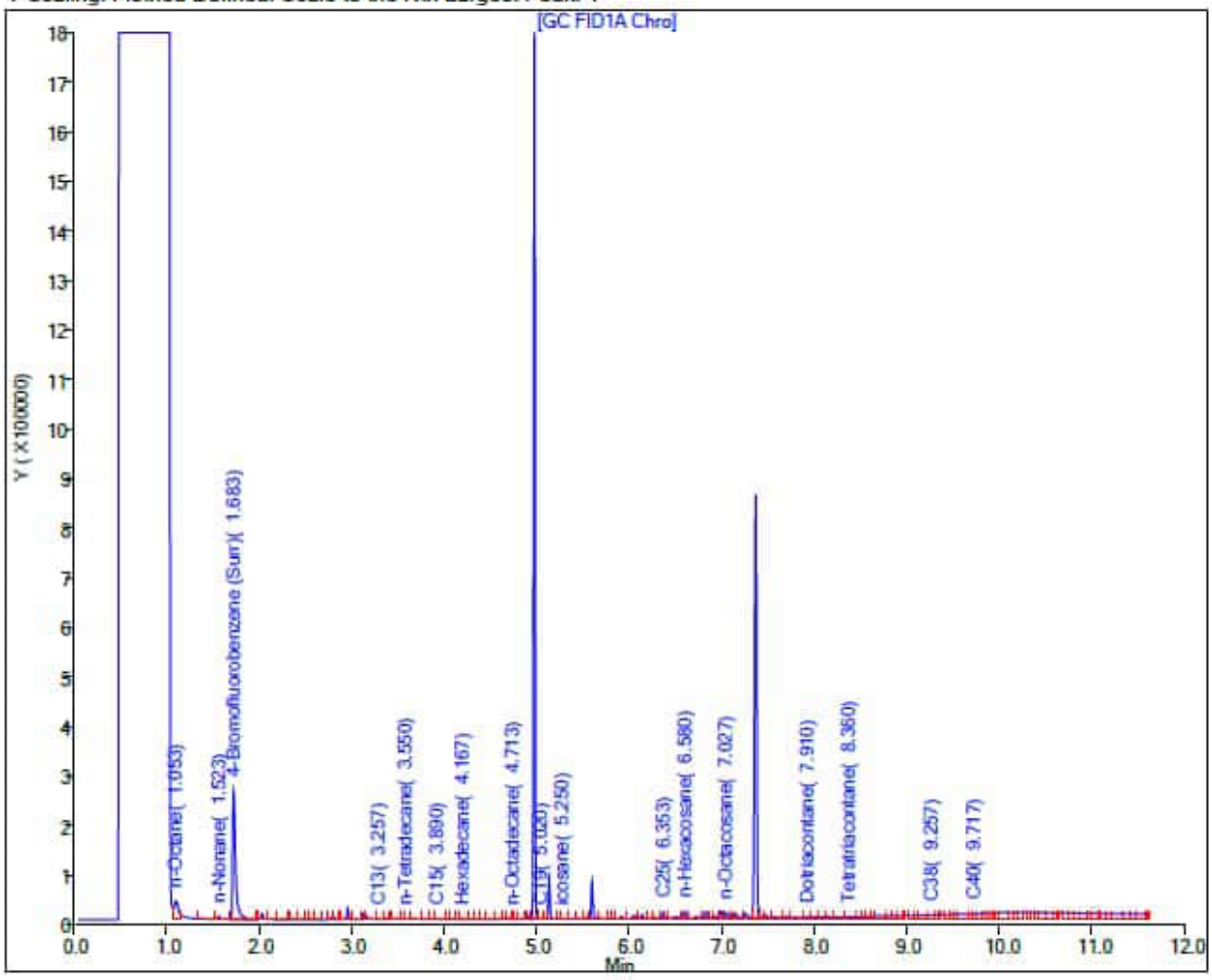
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:49:52 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A014.D				
Injection Date:	28-Oct-2022 21:31:06	Instrument ID:	TAC129		
Lims ID:	580-119293-N-5-A	Lab Sample ID:	580-119293-5		
Client ID:	RHMW04-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

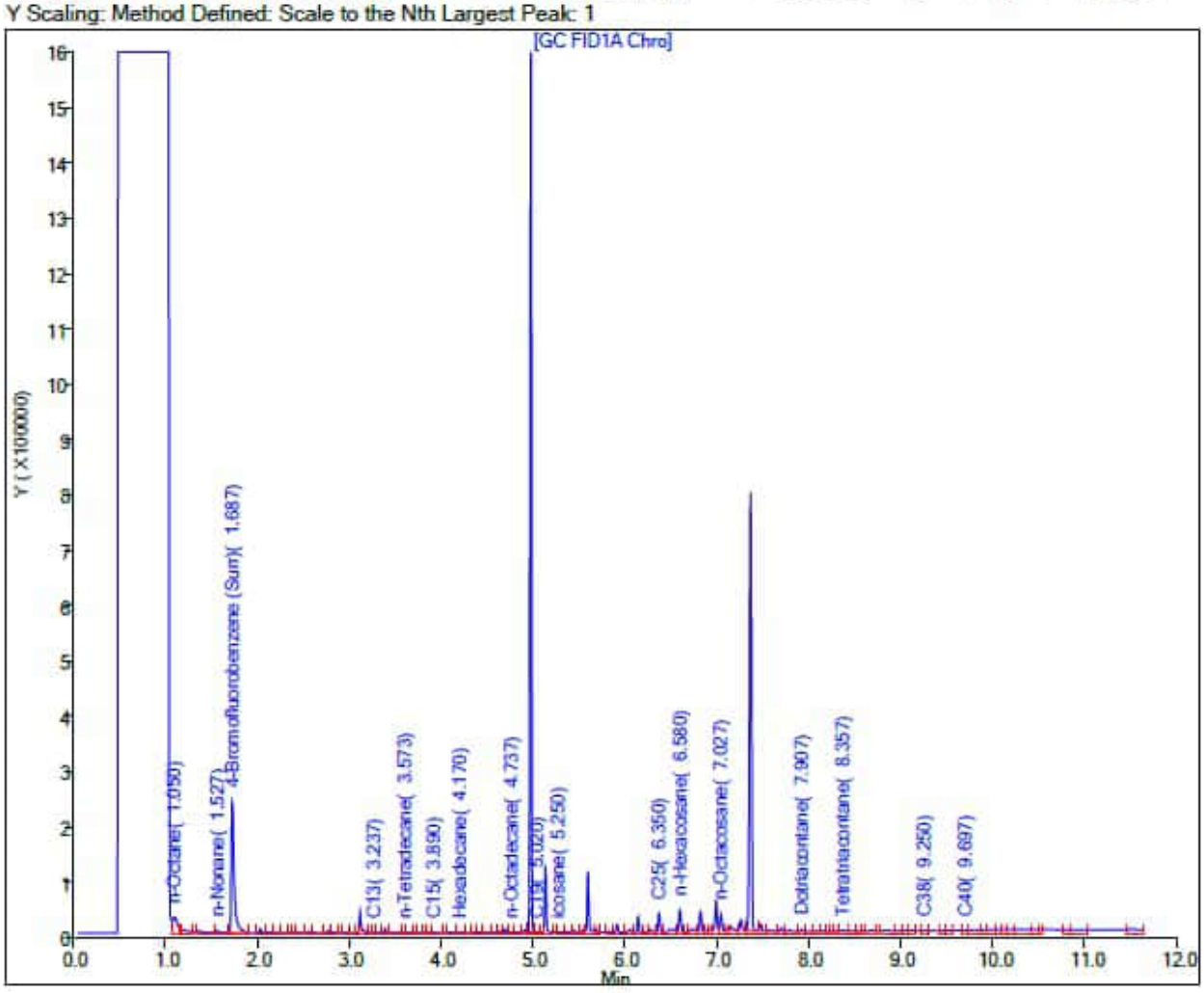
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:50:12 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A024.D				
Injection Date:	28-Oct-2022 23:03:59	Instrument ID:	TAC129		
Lims ID:	580-119293-J-7-A	Lab Sample ID:	580-119293-7		
Client ID:	RHMW04-WGFD01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN02B-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

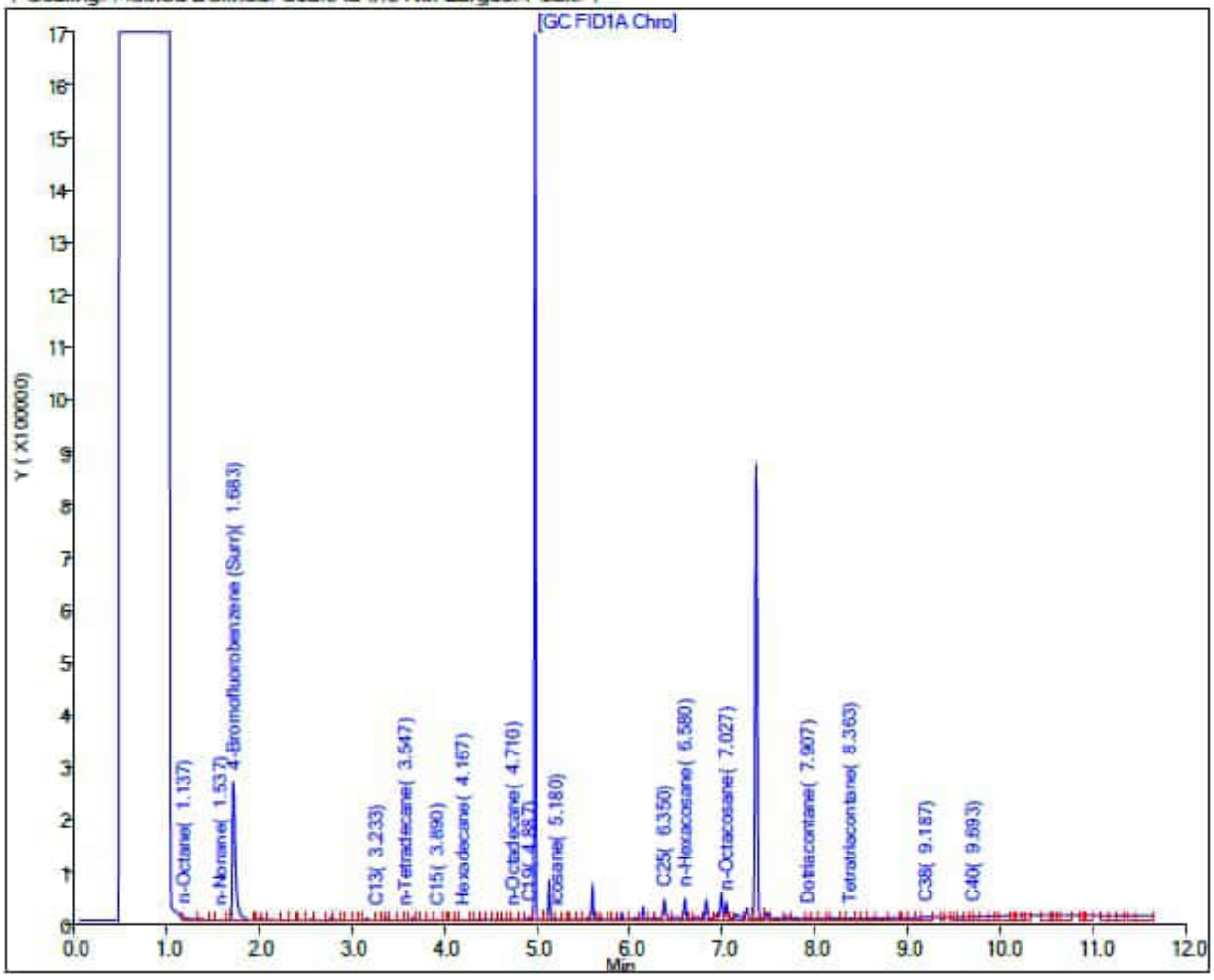
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:11:34 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A024.D				
Injection Date:	02-Nov-2022 20:39:33	Instrument ID:	TAC129		
Lims ID:	580-119371-D-3-A	Lab Sample ID:	580-119371-3		
Client ID:	RHMW04-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD02B-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

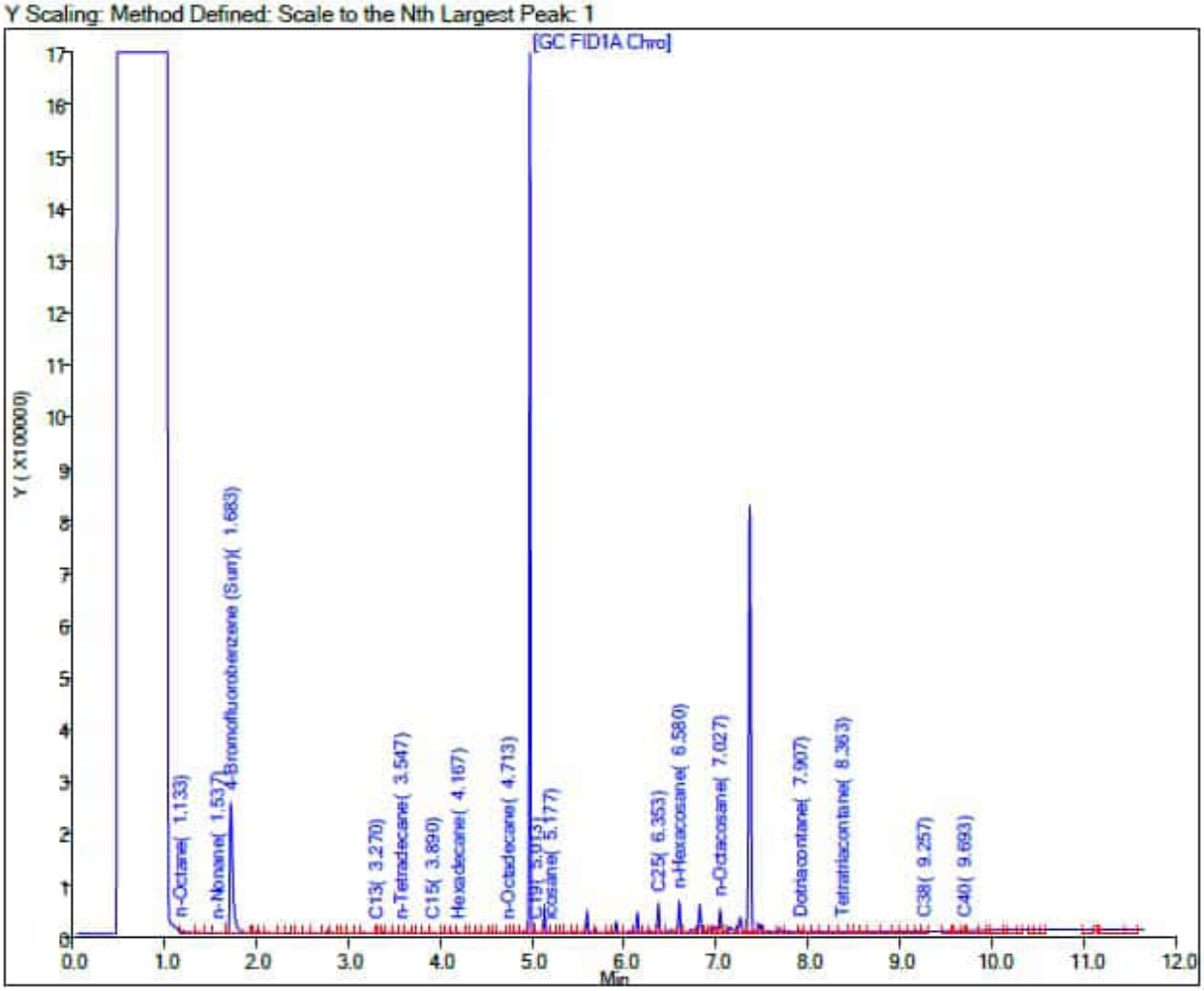
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:11:37 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A026.D				
Injection Date:	02-Nov-2022 20:58:18	Instrument ID:	TAC129		
Lims ID:	580-119371-D-5-A	Lab Sample ID:	580-119371-5		
Client ID:	RHMW04-WGFD02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

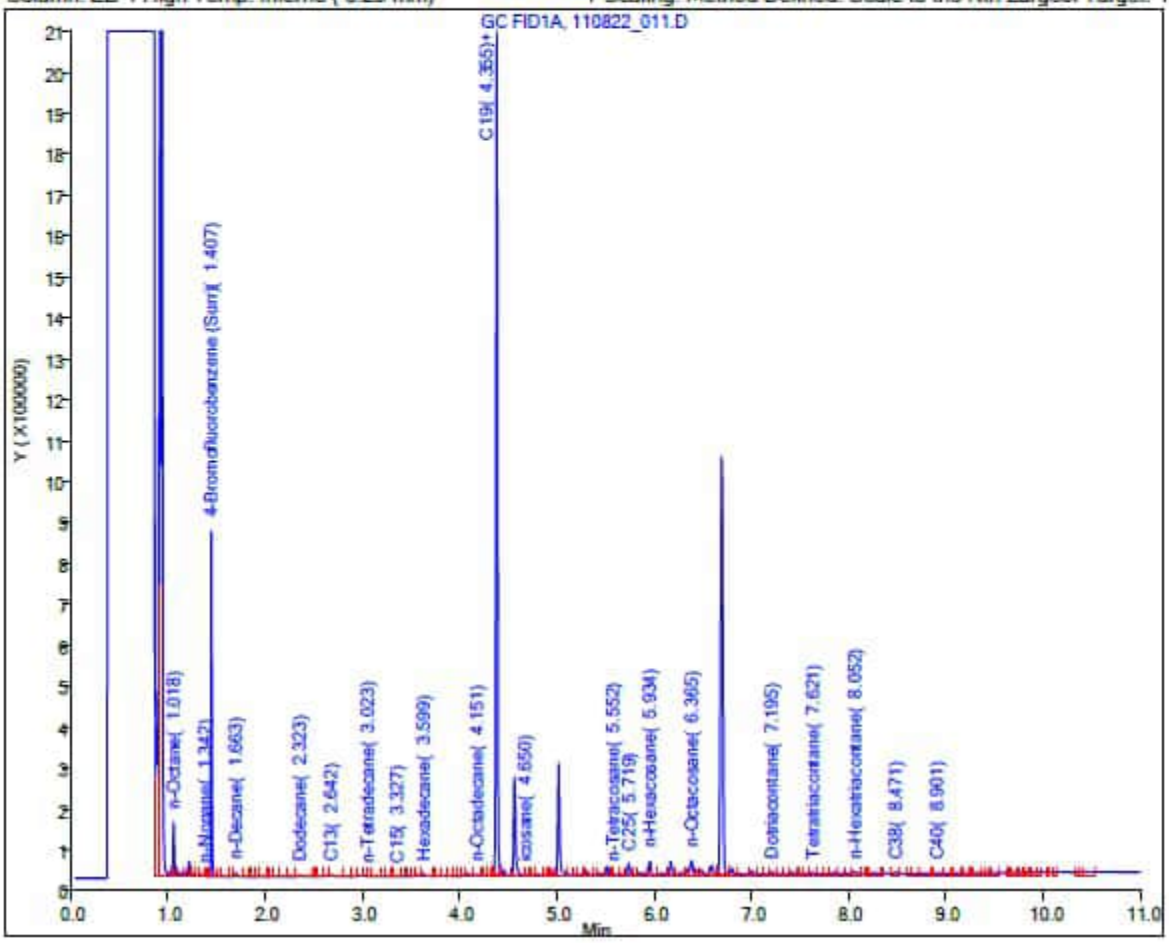
Results (ug/L): **TPH-d (C10 to C24) <83 U** **TPH-o (C24 to C40) <250 U**

Report Date: 08-Nov-2022 22:58:28 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_011.D		
Injection Date:	08-Nov-2022 20:52:30	Instrument ID:	TAC020
Lims ID:	580-119523-O-1-A	Lab Sample ID:	580-119523-1
Client ID:	RHMW04-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	10 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

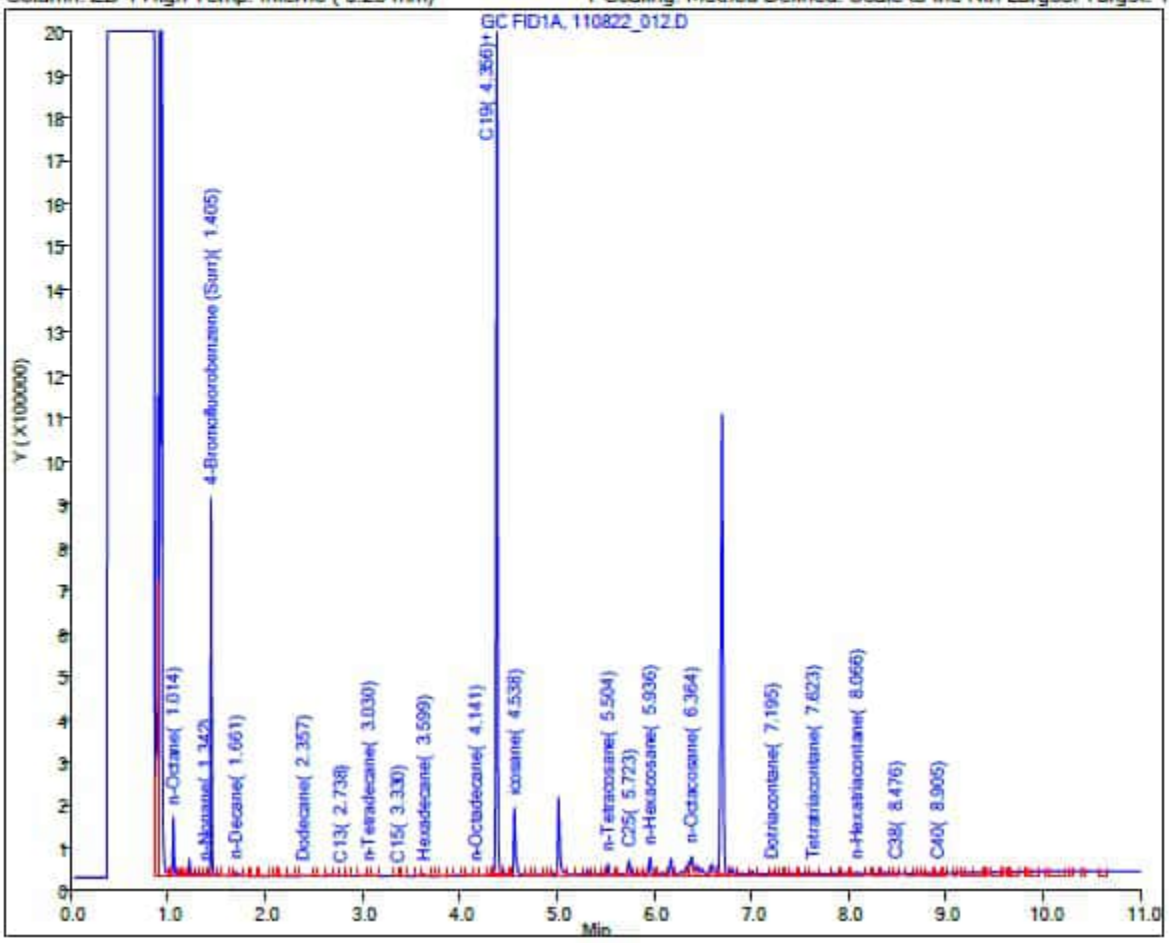
Results (ug/L): **TPH-d (C10 to C24) <81 U** **TPH-o (C24 to C40) <240 U**

Report Date: 08-Nov-2022 22:58:48 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_012.D				
Injection Date:	08-Nov-2022 21:12:30	Instrument ID:	TAC020		
Lims ID:	580-119523-I-3-A	Lab Sample ID:	580-119523-3		
Client ID:	RHMW04-WGFD01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

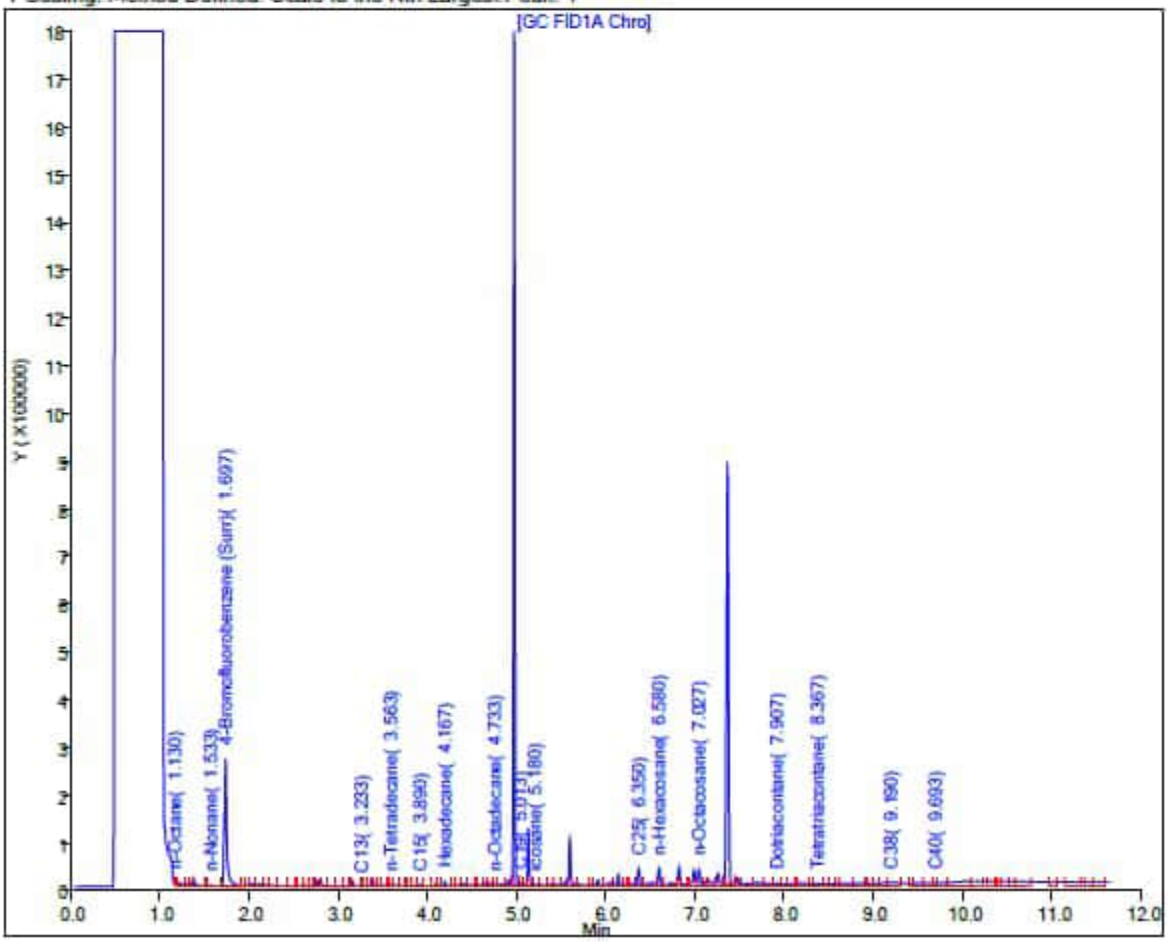
Location: **RHMW04** Sample ID: RHMW04-WGN02B-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <86 U** **TPH-o (C24 to C40) <260 U**

Report Date: 08-Nov-2022 15:37:09 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221107-85649.b\110722A058.D
Injection Date: 08-Nov-2022 05:19:35 Instrument ID: TAC129
Lims ID: 580-119623-O-1-A Lab Sample ID: 580-119623-1
Client ID: RHMW04-WGN02B-2210WK5
Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD02B-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

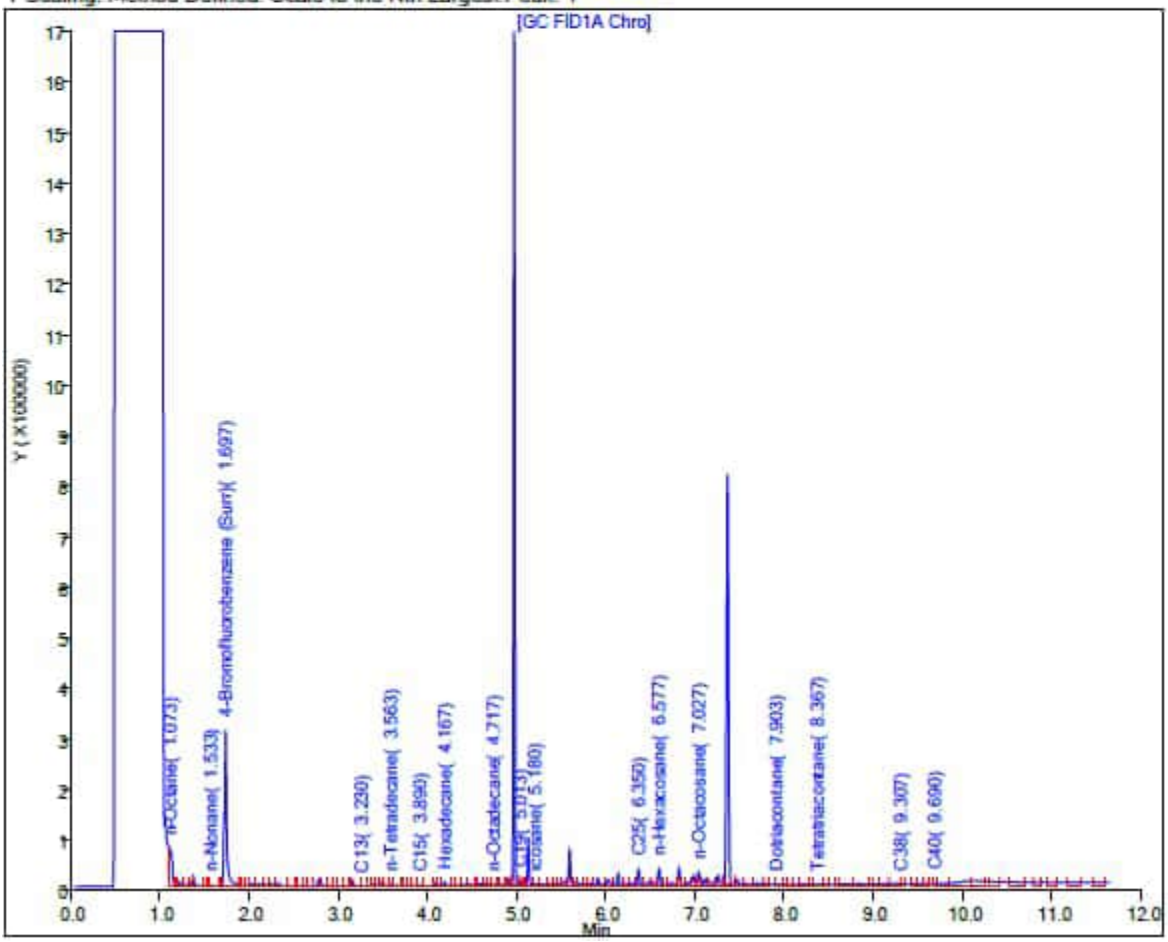
Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 08-Nov-2022 15:37:15 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221107-85649.b\110722A060.D		
Injection Date:	08-Nov-2022 05:38:07	Instrument ID:	TAC129
Lims ID:	580-119623-O-3-A	Lab Sample ID:	580-119623-3
Client ID:	RHMW04-WGFD02B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

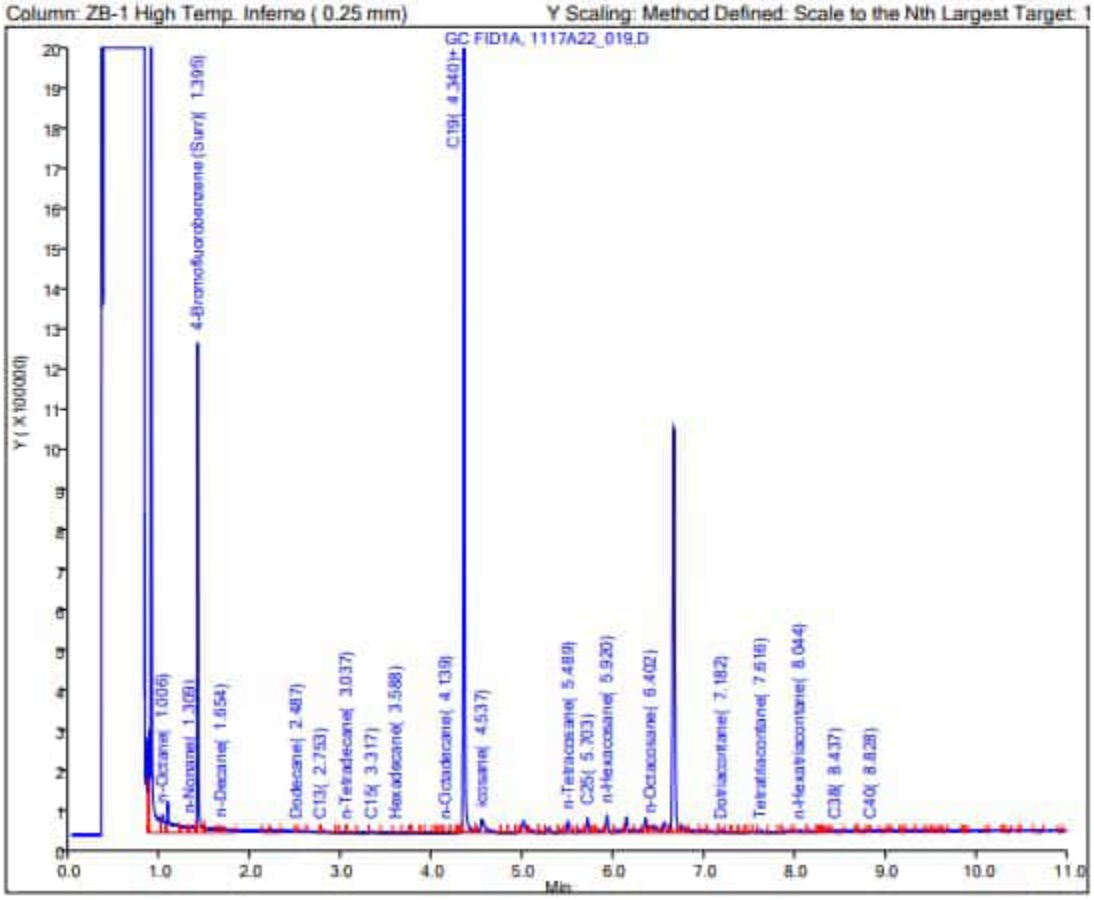
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 18-Nov-2022 12:00:54 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_019.D		
Injection Date:	18-Nov-2022 01:39:30	Instrument ID:	TAC020
Lims ID:	580-120022-N-1-A	Lab Sample ID:	580-120022-1
Client ID:	RHMW04-WGN01B-2211WK2		
Operator ID:	DH/CC	ALS Bottle#:	18 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

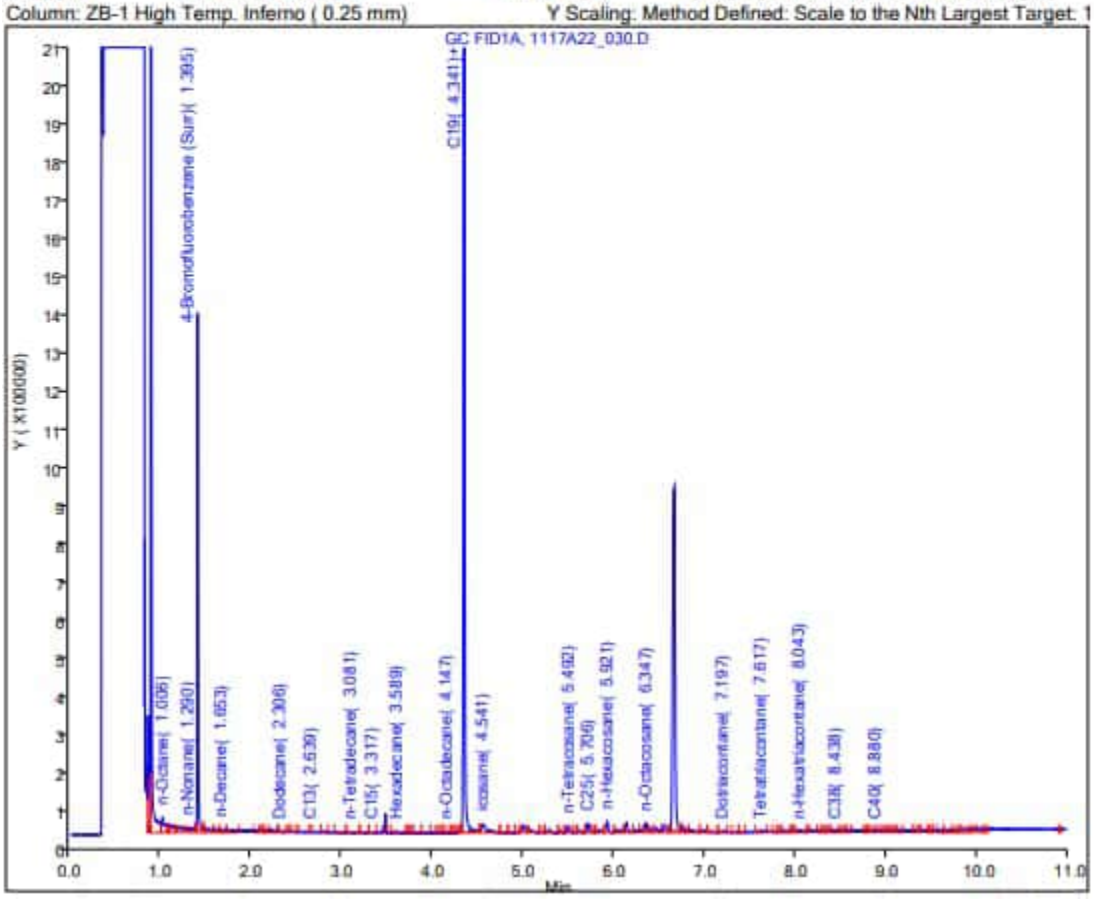
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 18-Nov-2022 12:02:08 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_030.D		
Injection Date:	18-Nov-2022 05:21:30	Instrument ID:	TAC020
Lims ID:	580-120022-J-3-A	Lab Sample ID:	580-120022-3
Client ID:	RHMW04-WGFD01B-2211WK2		
Operator ID:	DH/CC	ALS Bottle#:	29 Worklist Smp#: 32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2211WK3 Sample Date: 11/19/2022
Lab: Eurofins Seattle

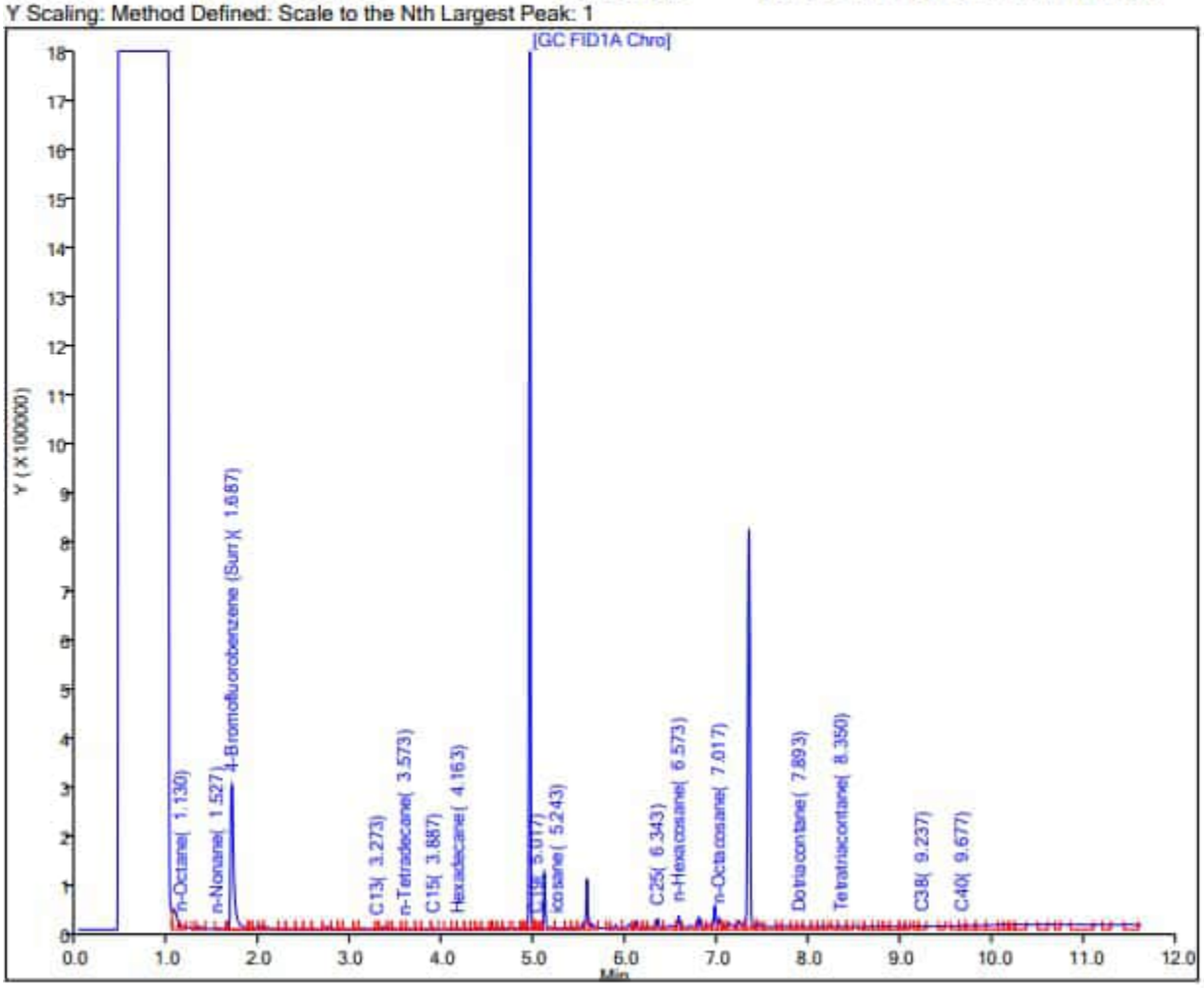
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:12:25 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221128-85982.b\1128AA22A034.D				
Injection Date:	28-Nov-2022 21:09:35	Instrument ID:	TAC129		
Lims ID:	580-120344-O-3-B	Lab Sample ID:	580-120344-3		
Client ID:	RHMW04-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2211WK2 Sample Date: 11/19/2022
Lab: Eurofins Seattle

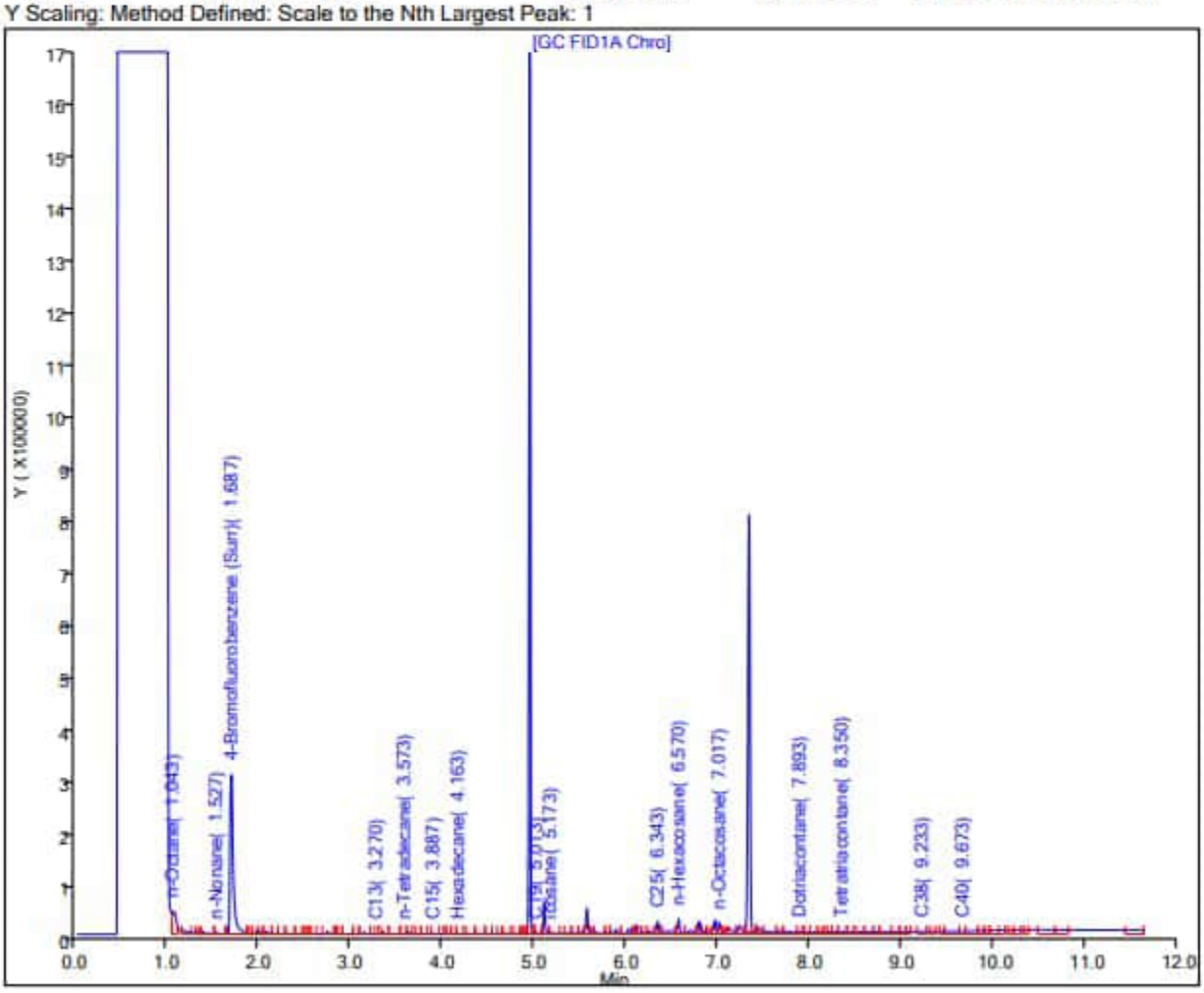
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 29-Nov-2022 13:12:28 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221128-85982.b\1128AA22A036.D				
Injection Date:	28-Nov-2022 21:28:06	Instrument ID:	TAC129		
Lims ID:	580-120344-I-5-B	Lab Sample ID:	580-120344-5		
Client ID:	RHMW04-WGFD01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN02B-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

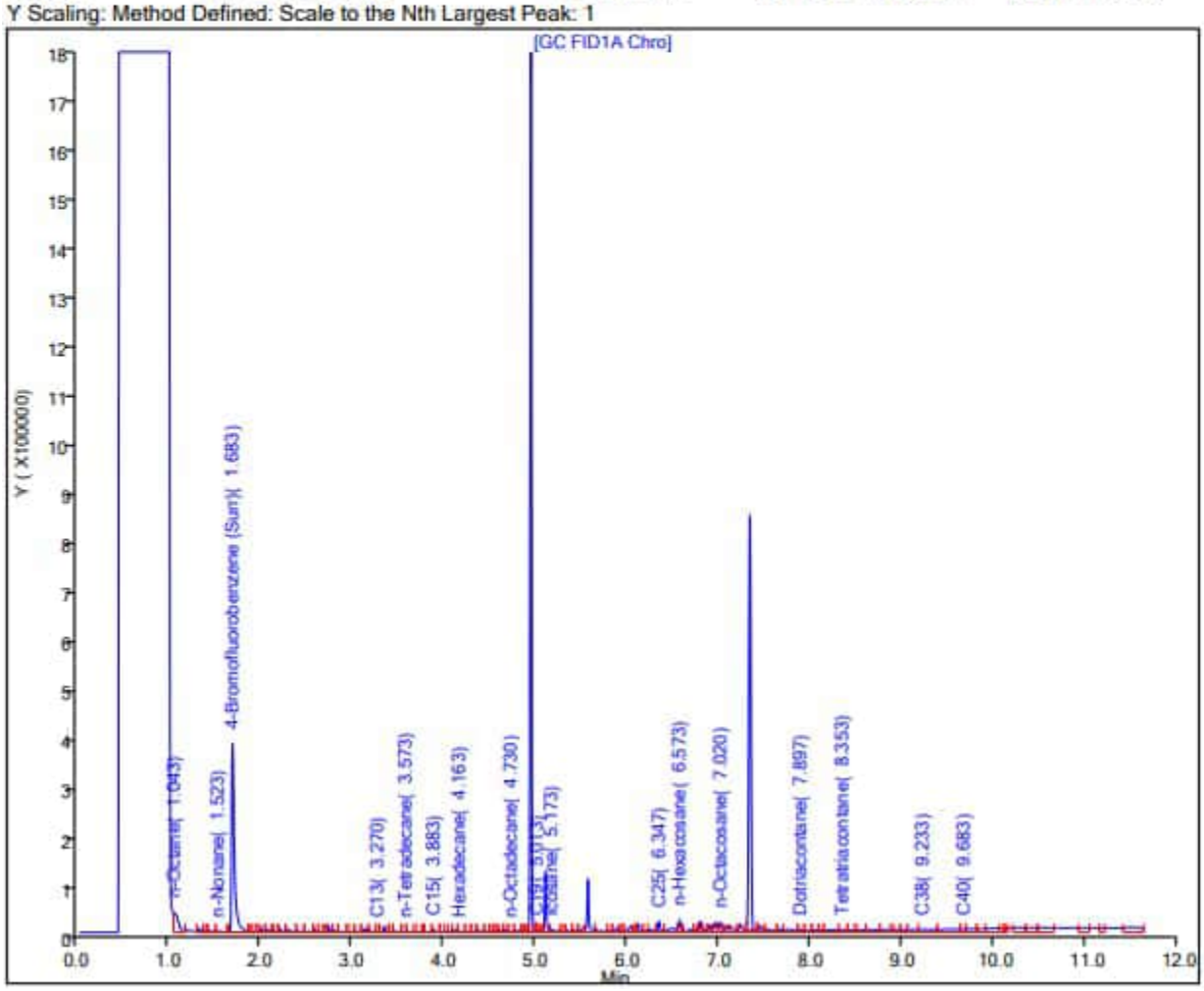
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:57 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A038.D				
Injection Date:	29-Nov-2022 23:40:44	Instrument ID:	TAC129		
Lims ID:	580-120389-O-10-A	Lab Sample ID:	580-120389-10		
Client ID:	RHMW04-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD02B-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

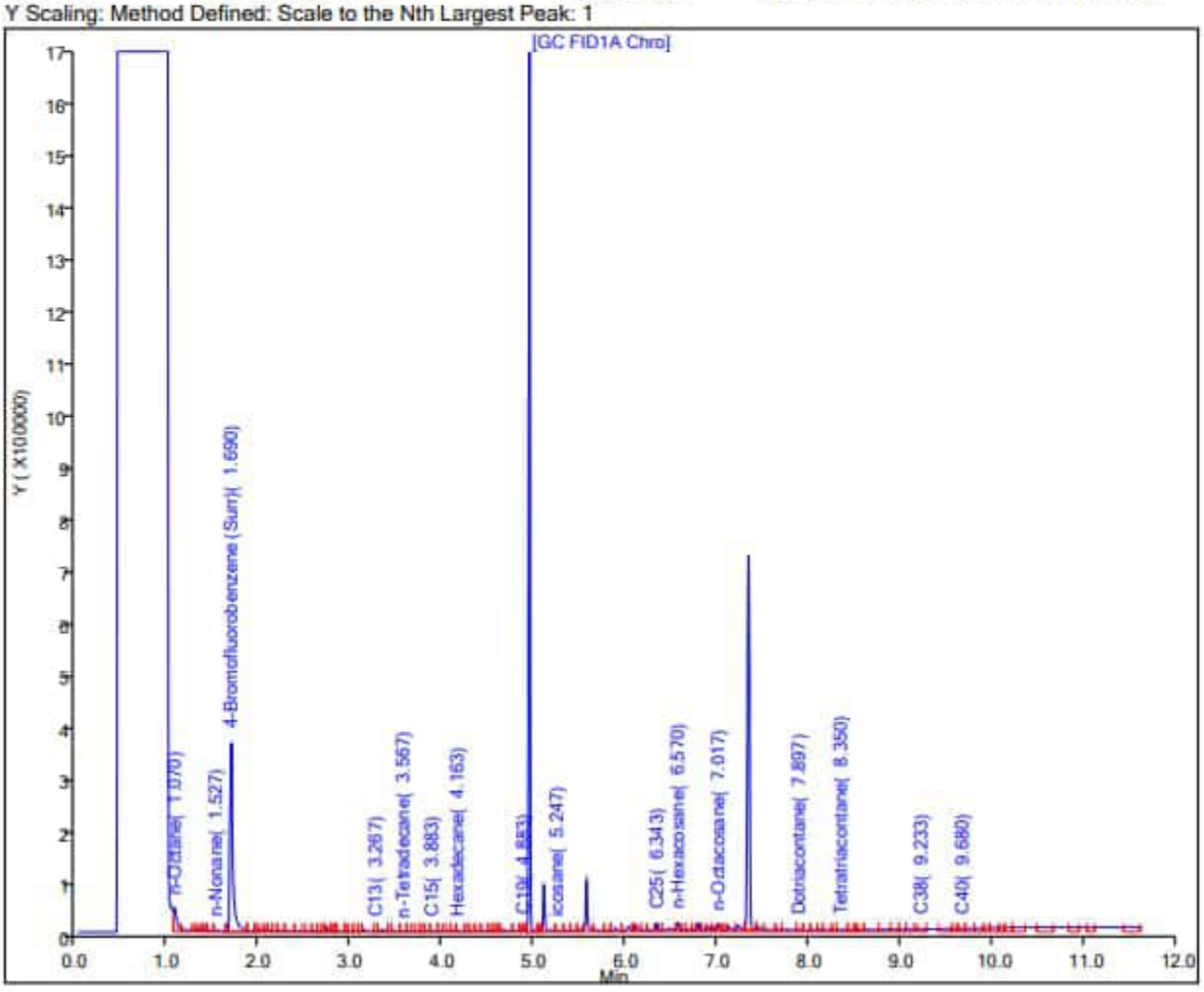
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:19:01 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A040.D				
Injection Date:	29-Nov-2022 23:59:16	Instrument ID:	TAC129		
Lims ID:	580-120389-I-12-A	Lab Sample ID:	580-120389-12		
Client ID:	RHMW04-WGFD02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGN01B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

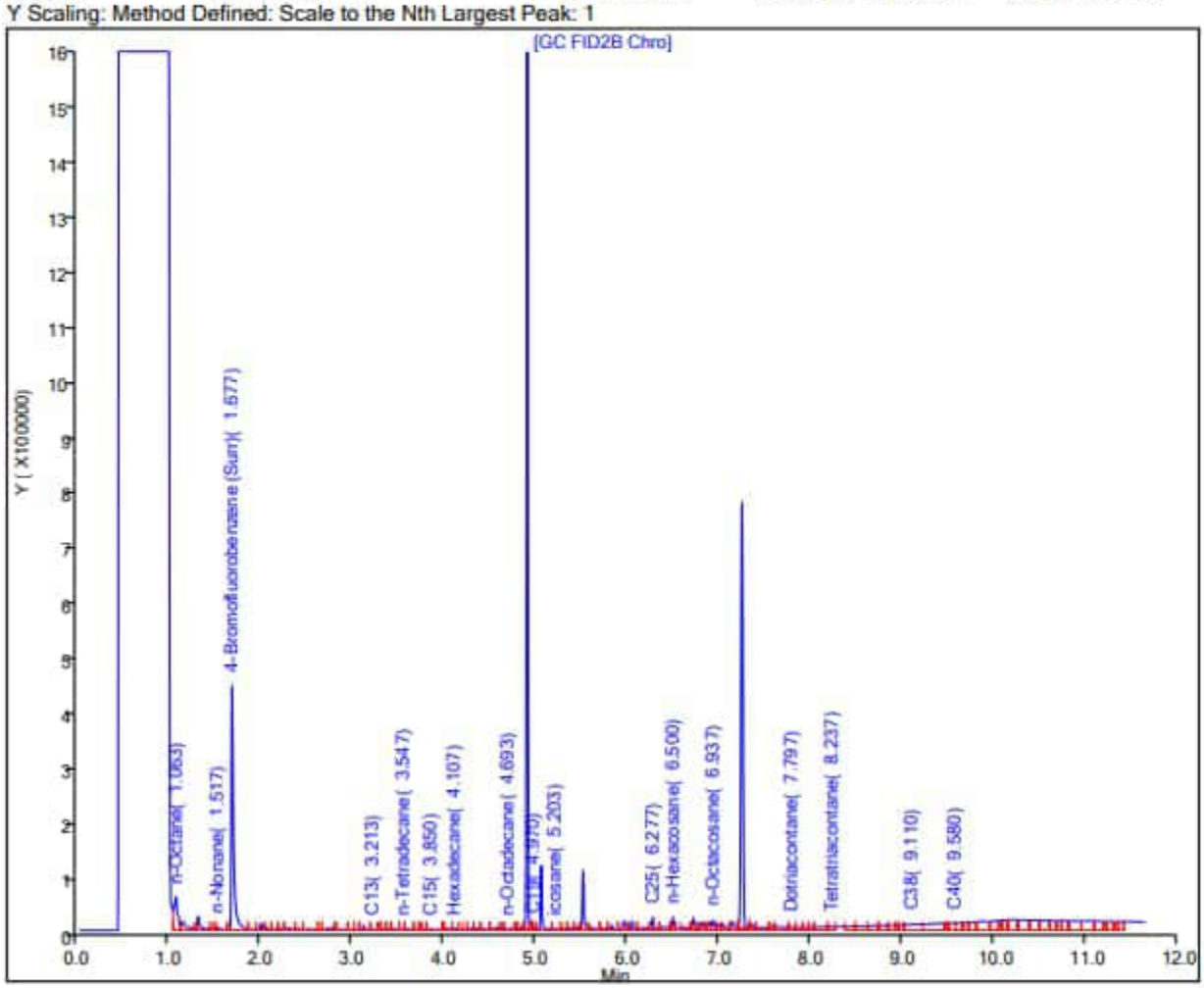
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 06-Dec-2022 13:59:05 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A019.D				
Injection Date:	05-Dec-2022 22:02:40	Instrument ID:	TAC129_R		
Lims ID:	580-120703-N-16-A	Lab Sample ID:	580-120703-16		
Client ID:	RHMW04-WGN01B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW04** Sample ID: RHMW04-WGFD01B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

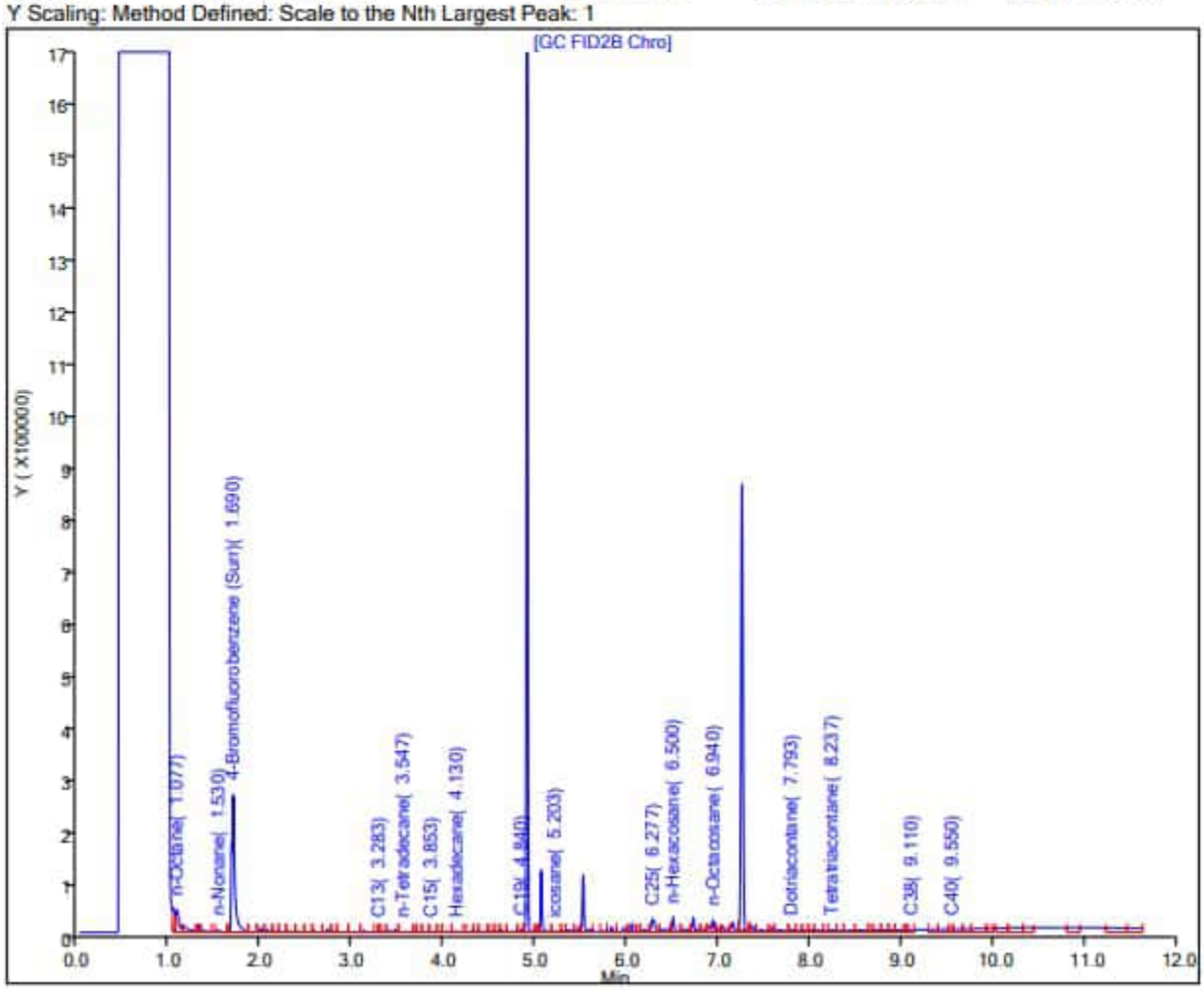
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 07-Dec-2022 12:59:33 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A037.D				
Injection Date:	07-Dec-2022 02:05:16	Instrument ID:	TAC129_R		
Lims ID:	580-120703-O-18-A	Lab Sample ID:	580-120703-18		
Client ID:	RHMW04-WGFD01B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2208WK3 Sample Date: 8/16/2022
Lab: Eurofins Seattle

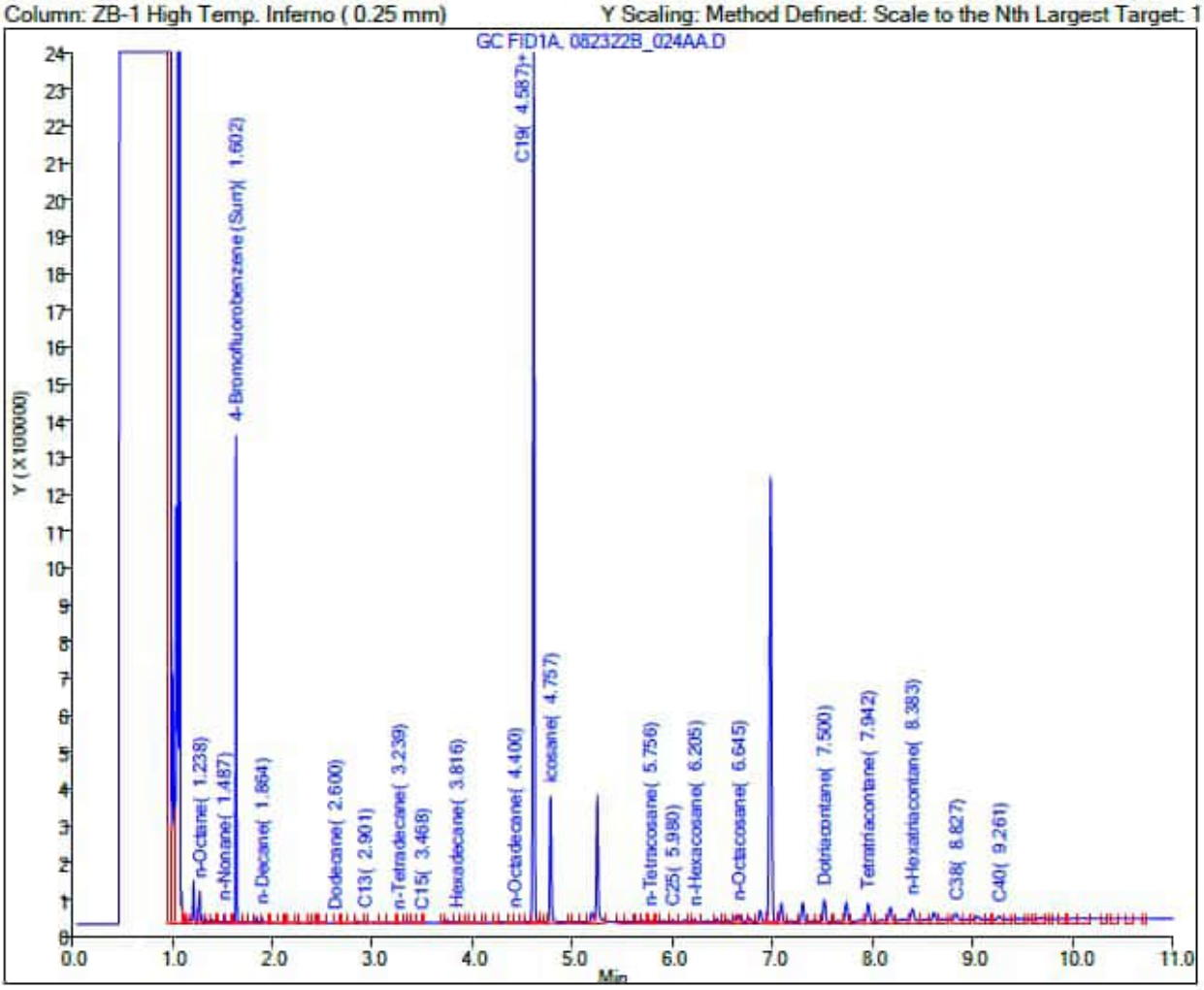
Results (ug/L): **TPH-d (C10 to C24) <120 U** **TPH-o (C24 to C40) <350 U**

Report Date: 24-Aug-2022 09:25:26 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_024AA.D				
Injection Date:	24-Aug-2022 01:46:30	Instrument ID:	TAC020		
Lims ID:	580-117058-F-1-A	Lab Sample ID:	580-117058-1		
Client ID:	RHMW05-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	24	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

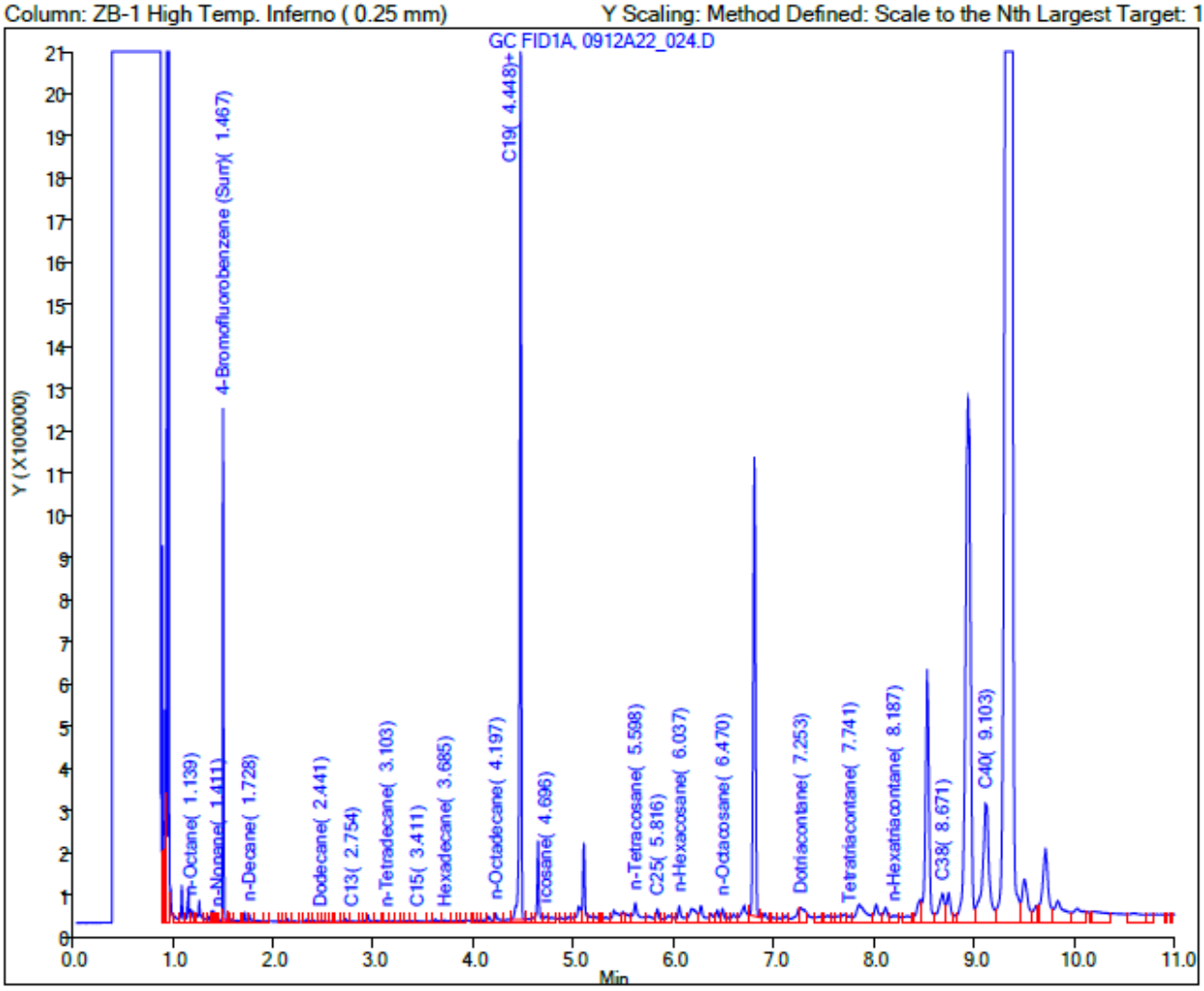
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 480**

Report Date: 13-Sep-2022 12:02:07 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_024.D				
Injection Date:	13-Sep-2022 01:02:30	Instrument ID:	TAC020		
Lims ID:	580-117667-E-13-A	Lab Sample ID:	580-117667-13		
Client ID:	RHMW05-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	24	Worklist Smp#:	26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



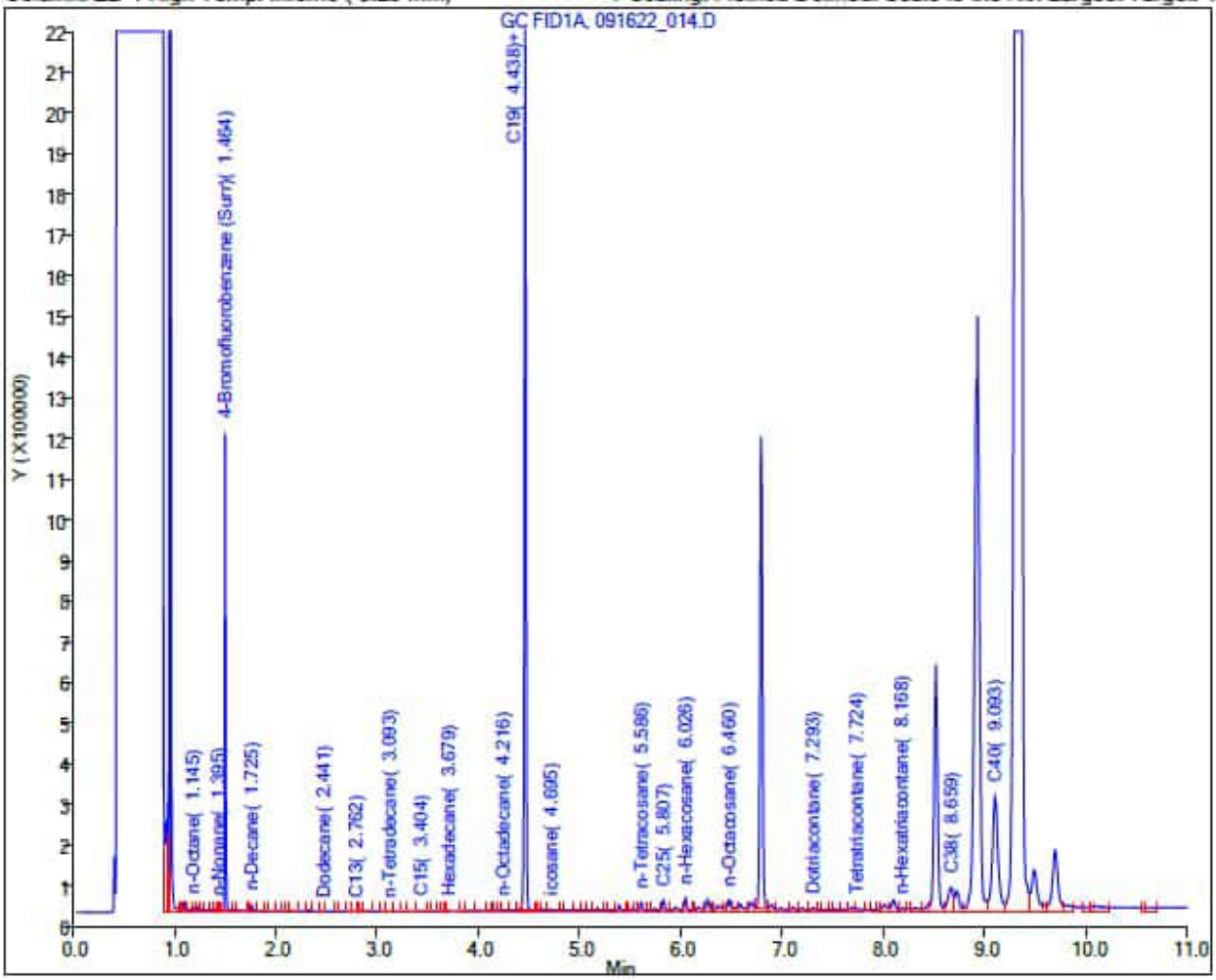
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 420 J**

Report Date: 18-Sep-2022 14:51:31 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_014.D				
Injection Date:	16-Sep-2022 22:34:30	Instrument ID:	TAC020		
Lims ID:	580-117667-E-13-B	Lab Sample ID:	580-117667-13		
Client ID:	RHMW05-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW05** Sample ID: RHMW05-WGN01B-2209WK2 Sample Date: 9/13/2022
Lab: Eurofins Seattle

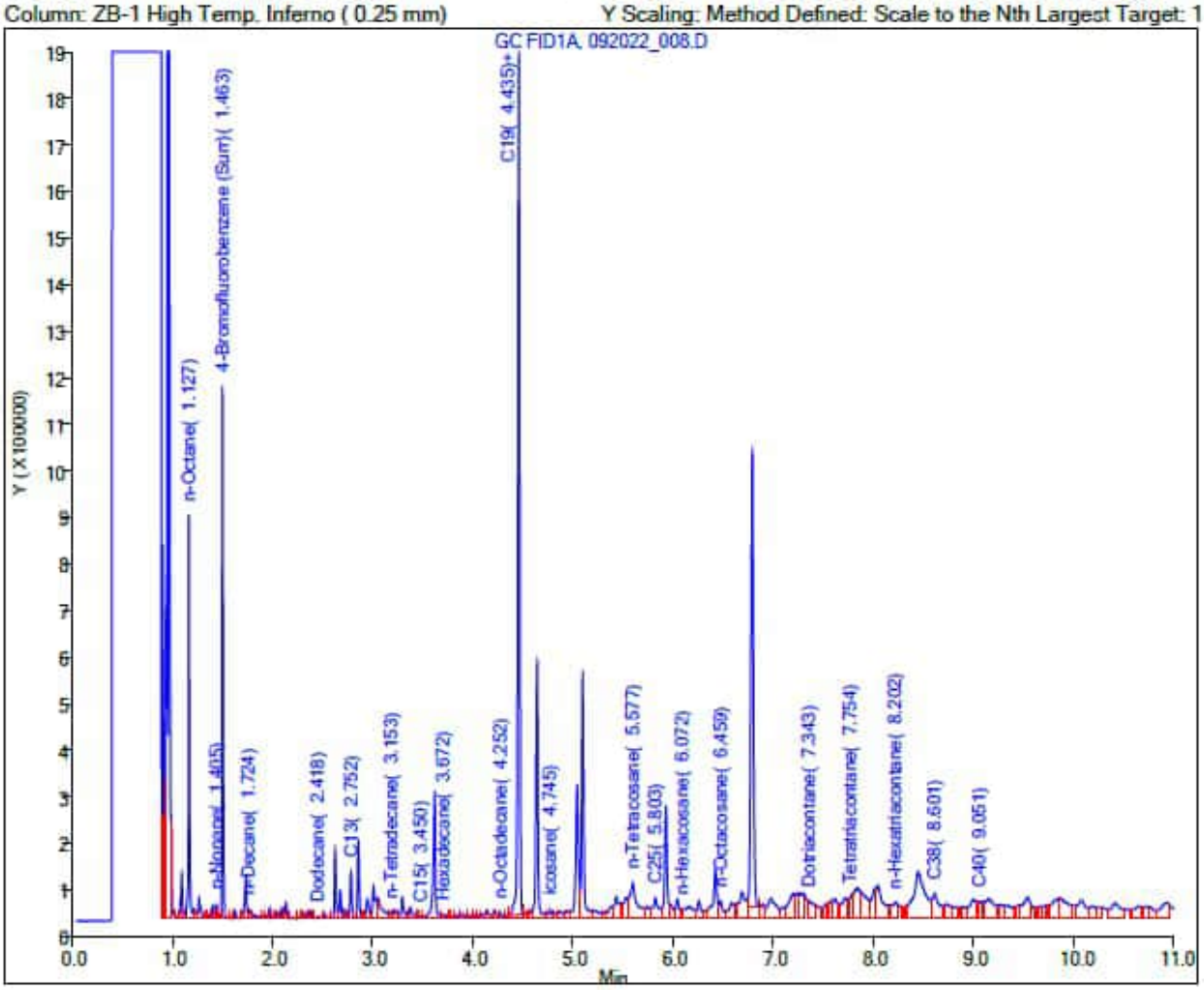
Results (ug/L): **TPH-d (C10 to C24) 200** **TPH-o (C24 to C40) 360**

Report Date: 21-Sep-2022 13:07:56 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_008.D				
Injection Date:	20-Sep-2022 20:19:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-7-A	Lab Sample ID:	580-117907-7		
Client ID:	RHMW05-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



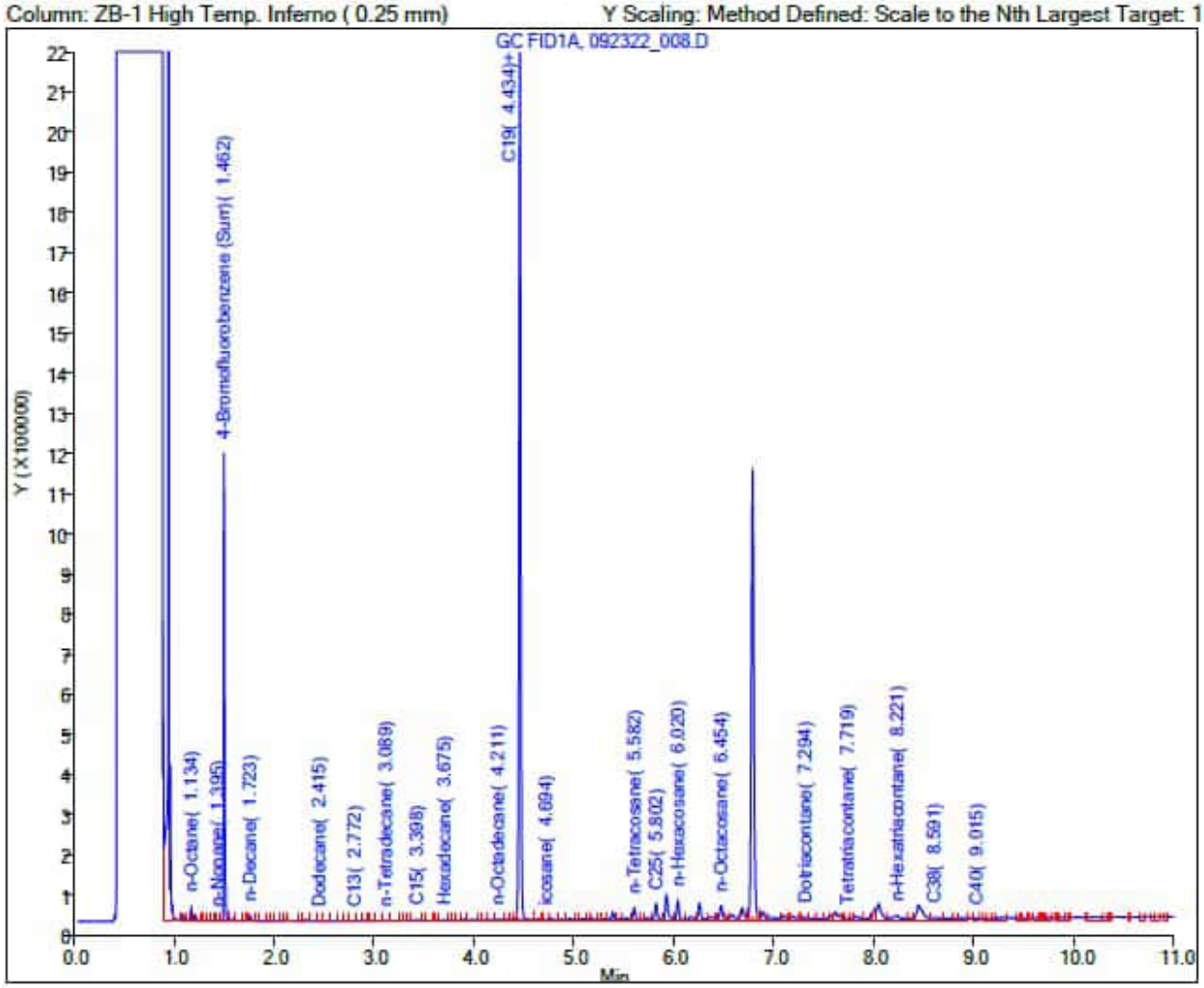
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 23-Sep-2022 16:55:29 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220923-84994.b\092322_008.D				
Injection Date:	23-Sep-2022 16:31:30	Instrument ID:	TAC020		
Lims ID:	580-117907-E-7-C	Lab Sample ID:	580-117907-7		
Client ID:	RHMW05-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK1 Sample Date: 10/4/2022
Lab: Eurofins Seattle

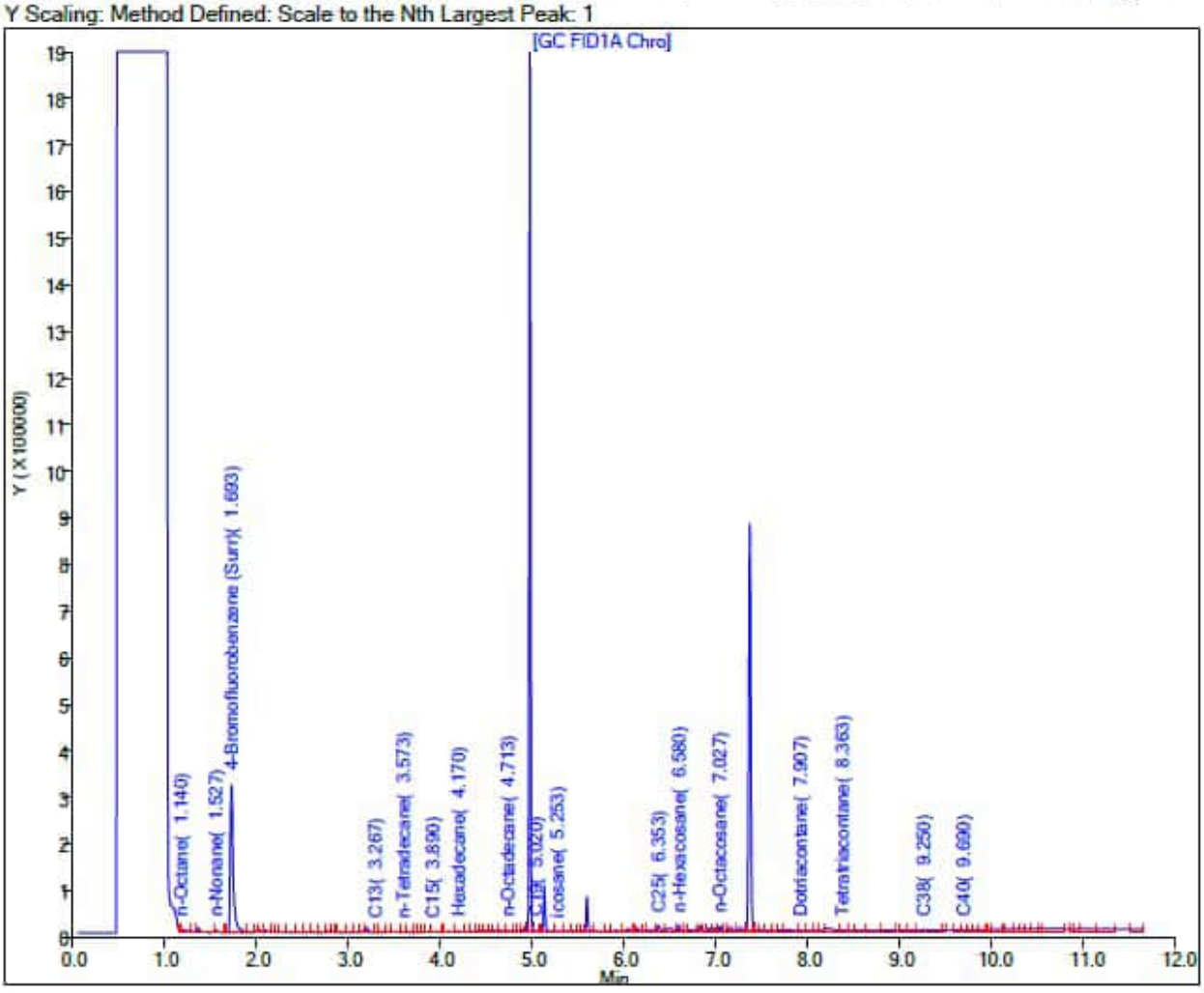
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:55:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A032.D		
Injection Date:	10-Oct-2022 21:50:55	Instrument ID:	TAC129
Lims ID:	580-118612-F-1-A	Lab Sample ID:	580-118612-1
Client ID:	RHMW05-WGN01B-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

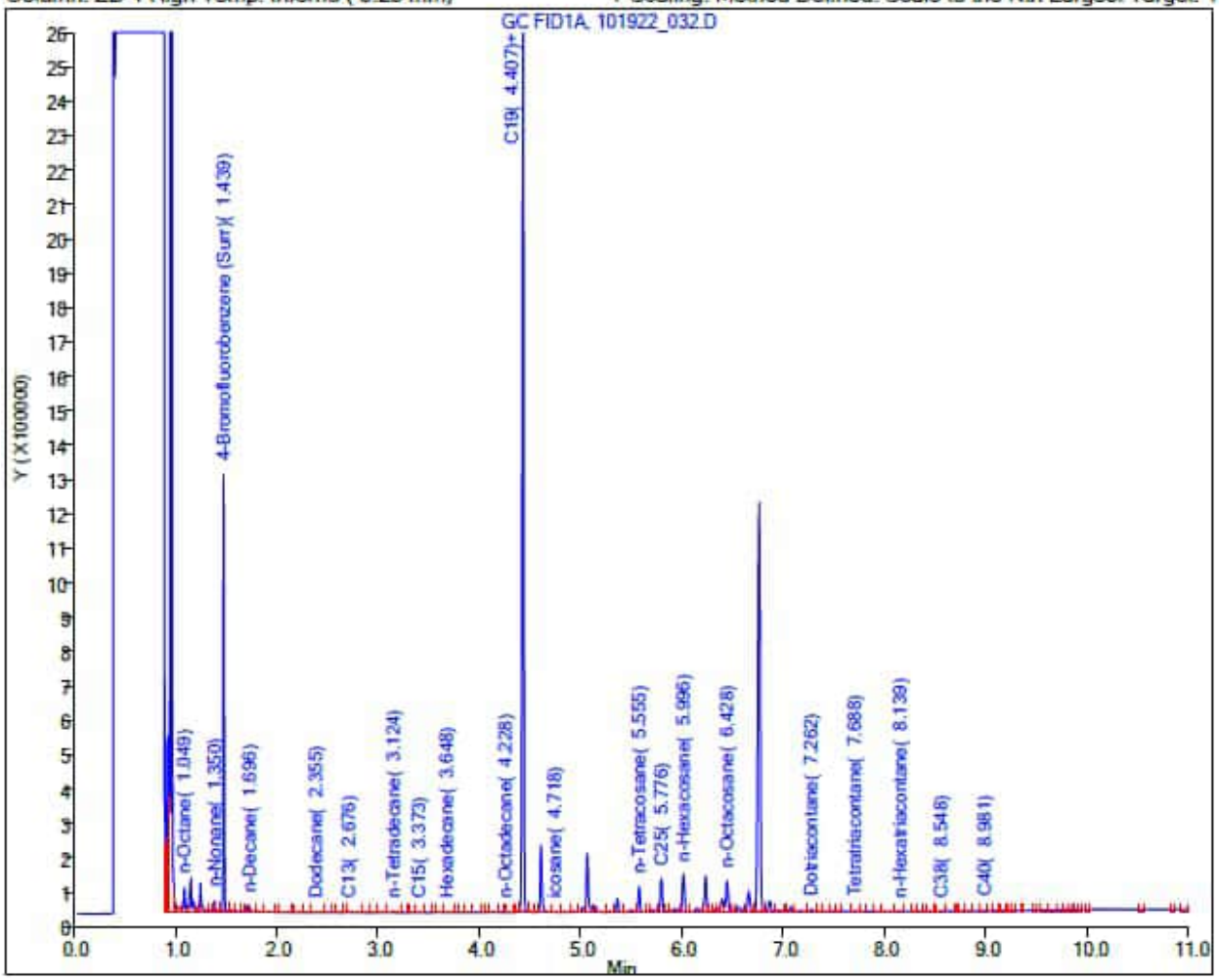
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:42:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_032.D				
Injection Date:	20-Oct-2022 02:34:30	Instrument ID:	TAC020		
Lims ID:	580-118920-N-17-A	Lab Sample ID:	580-118920-17		
Client ID:	RHMW05-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	31	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

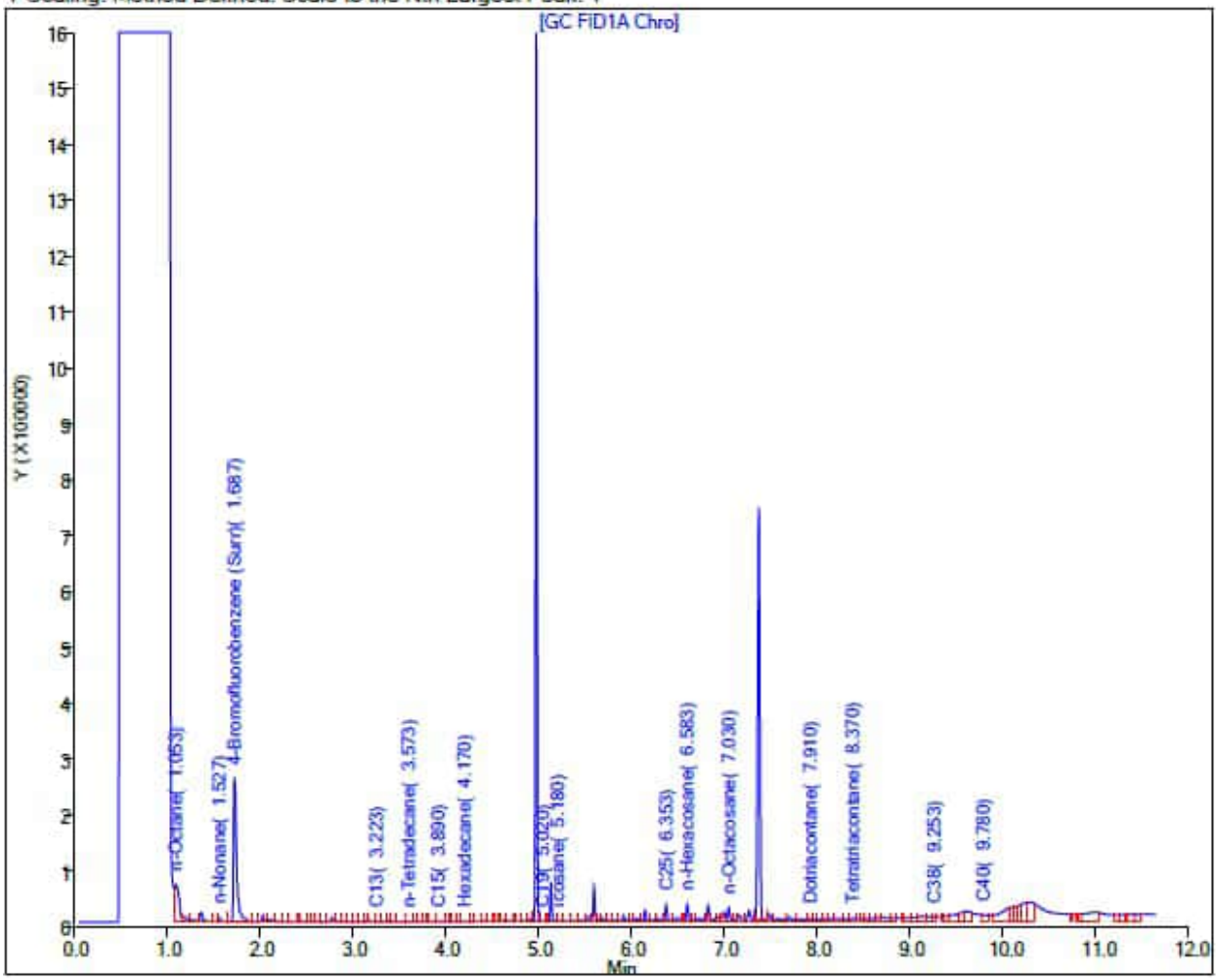
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:36:16 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A018.D				
Injection Date:	25-Oct-2022 22:28:06	Instrument ID:	TAC129		
Lims ID:	580-119027-O-7-A	Lab Sample ID:	580-119027-7		
Client ID:	RHMW05-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

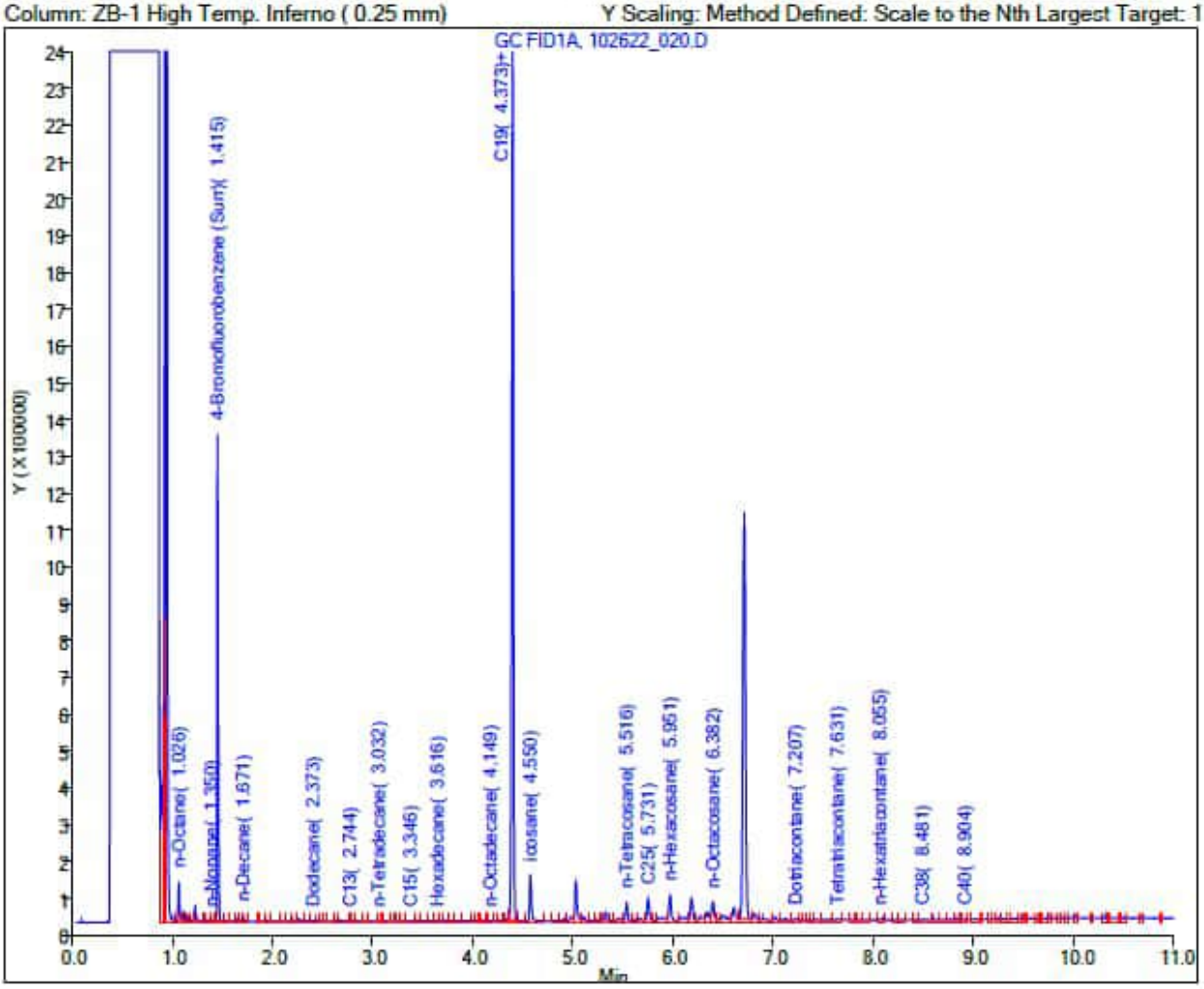
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 27-Oct-2022 13:37:40 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_020.D				
Injection Date:	26-Oct-2022 20:38:30	Instrument ID:	TAC020		
Lims ID:	580-119152-O-5-A	Lab Sample ID:	580-119152-5		
Client ID:	RHMW05-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

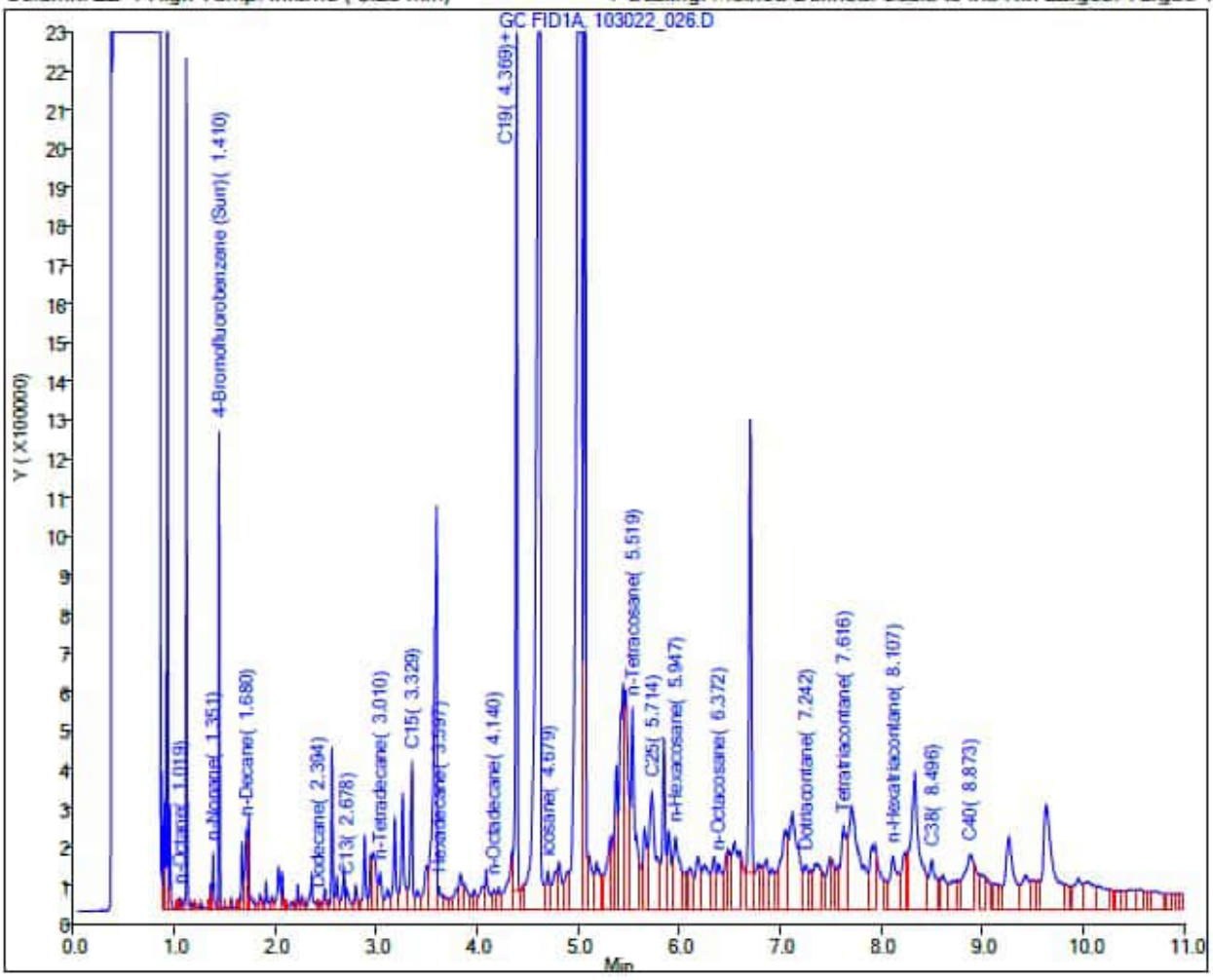
Results (ug/L): **TPH-d (C10 to C24) 1500** **TPH-o (C24 to C40) 1200**

Report Date: 01-Nov-2022 13:47:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_026.D				
Injection Date:	01-Nov-2022 01:31:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-5-A	Lab Sample ID:	580-119339-5		
Client ID:	RHMW05-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



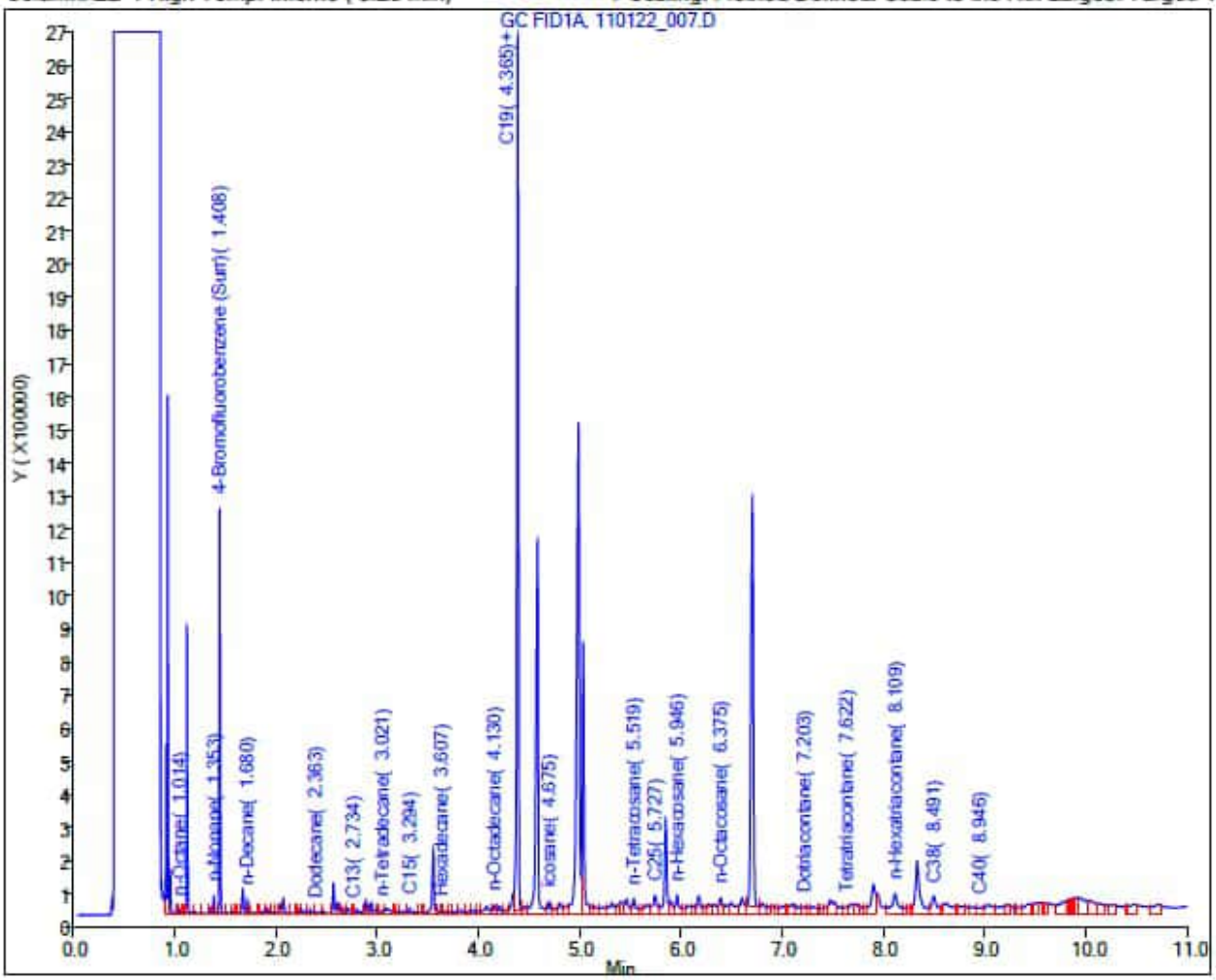
Results (ug/L): **TPH-d SGC (C10 to C24) 280** **TPH-o SGC (C24 to C40) 260 J**

Report Date: 02-Nov-2022 13:51:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_007.D				
Injection Date:	01-Nov-2022 17:40:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-5-B	Lab Sample ID:	580-119339-5		
Client ID:	RHMW05-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW05** Sample ID: RHMW05-WGN02B-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

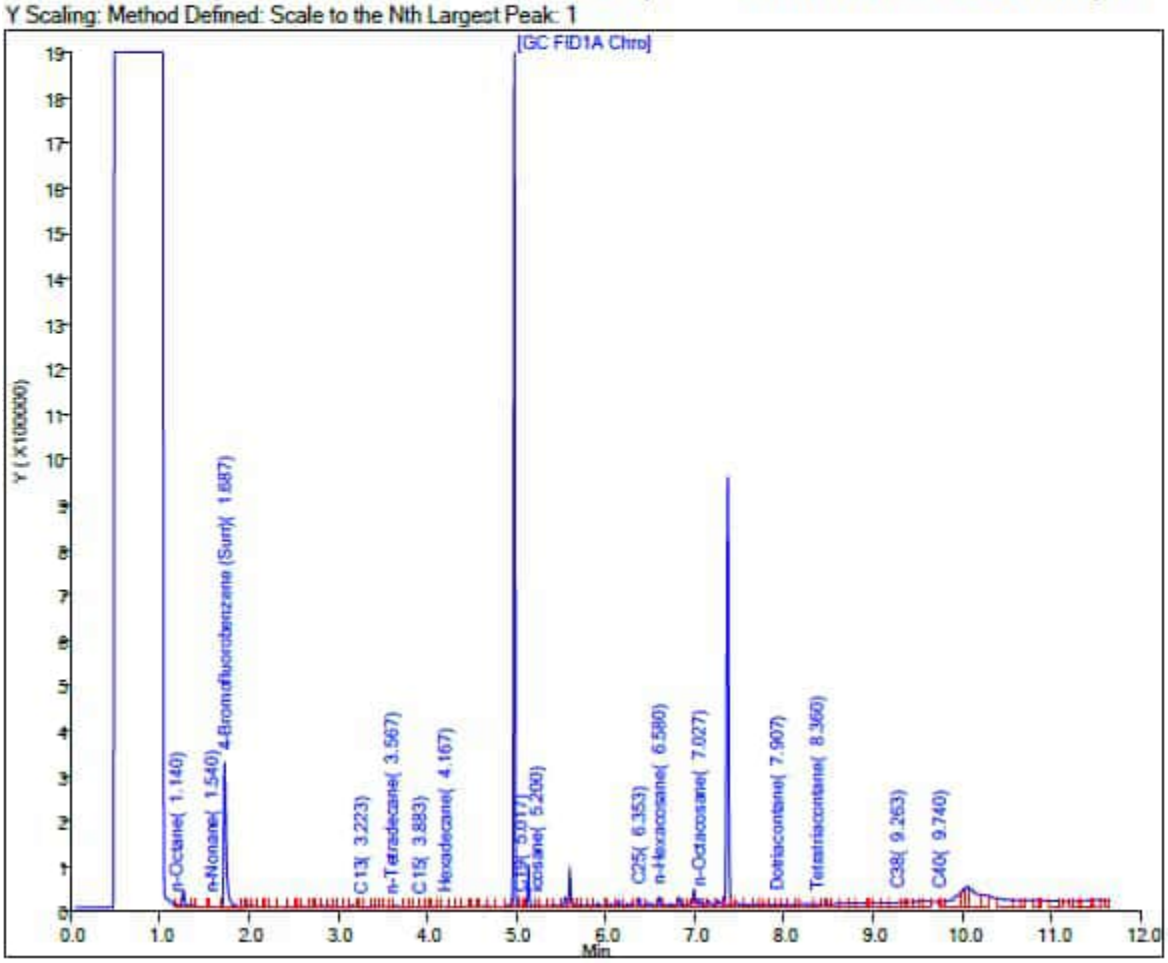
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:12:21 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A054.D		
Injection Date:	03-Nov-2022 01:17:10	Instrument ID:	TAC129
Lims ID:	580-119430-C-5-A	Lab Sample ID:	580-119430-5
Client ID:	RHMW05-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

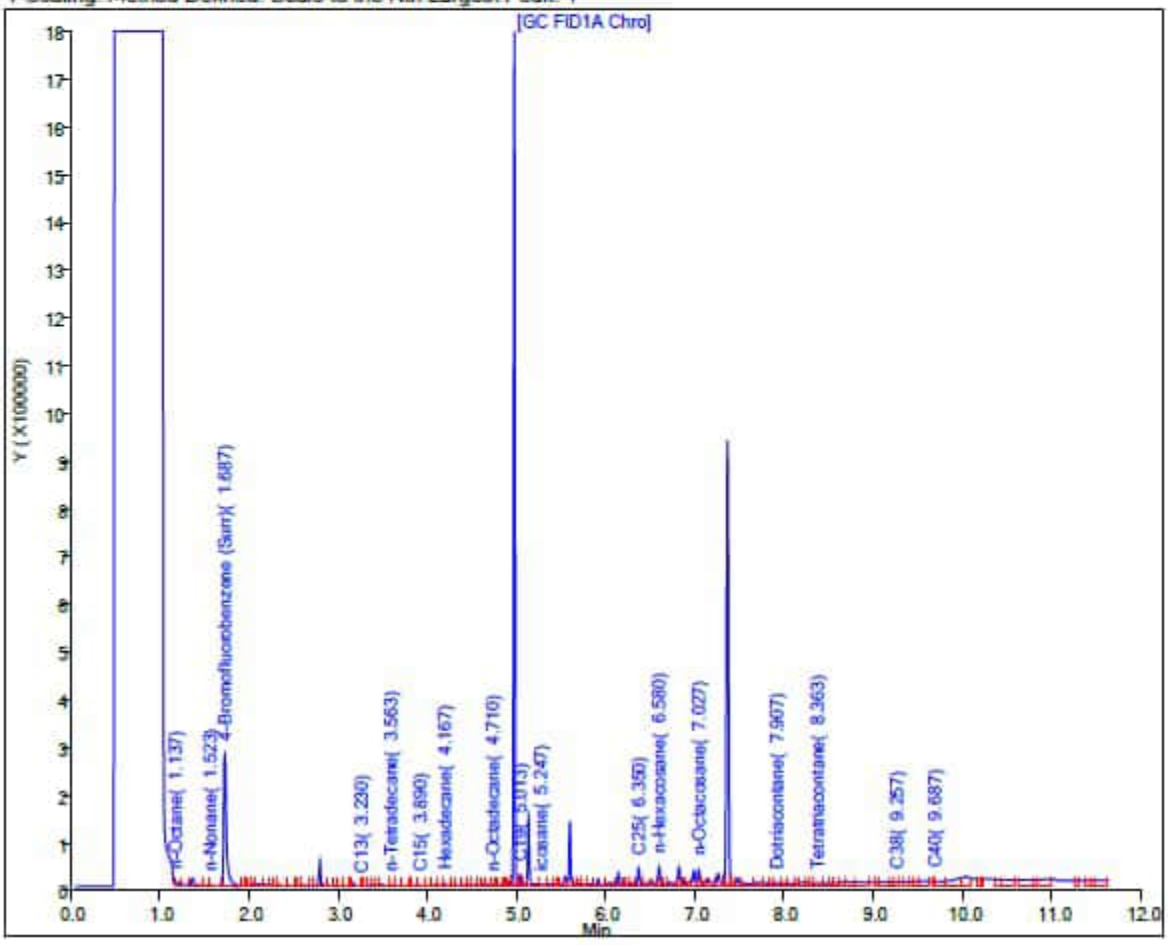
Results (ug/L): **TPH-d (C10 to C24) <78 U** **TPH-o (C24 to C40) <230 U**

Report Date: 08-Nov-2022 15:36:58 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221107-85649.b\110722A054.D		
Injection Date:	08-Nov-2022 04:42:25	Instrument ID:	TAC129
Lims ID:	580-119618-O-9-A	Lab Sample ID:	580-119618-9
Client ID:	RHMW05-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 27
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN02B-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

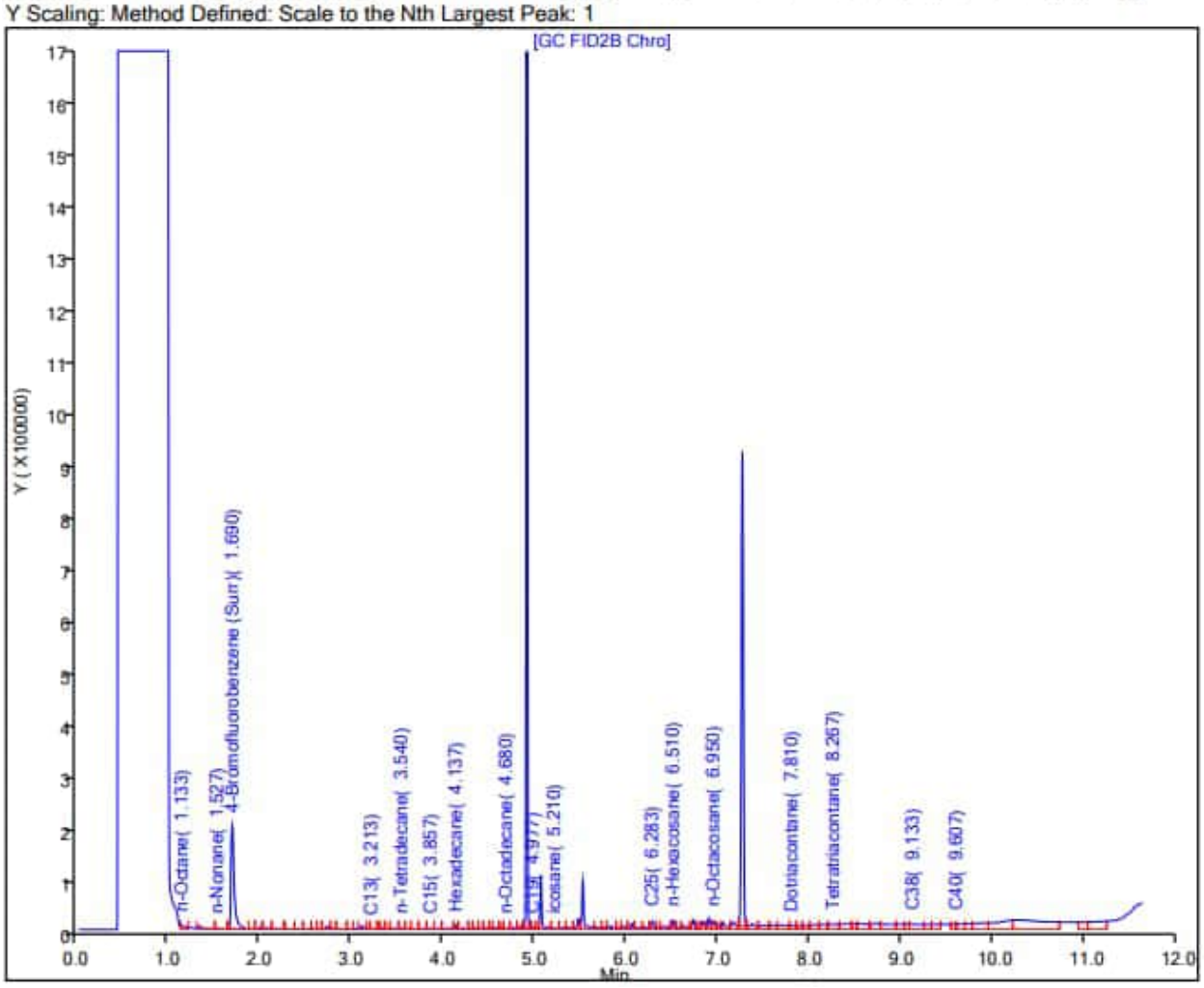
Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 11-Nov-2022 16:01:01 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A021.D				
Injection Date:	10-Nov-2022 21:40:01	Instrument ID:	TAC129_R		
Lims ID:	580-119733-N-9-A	Lab Sample ID:	580-119733-9		
Client ID:	RHMW05-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW05** Sample ID: RHMW05-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

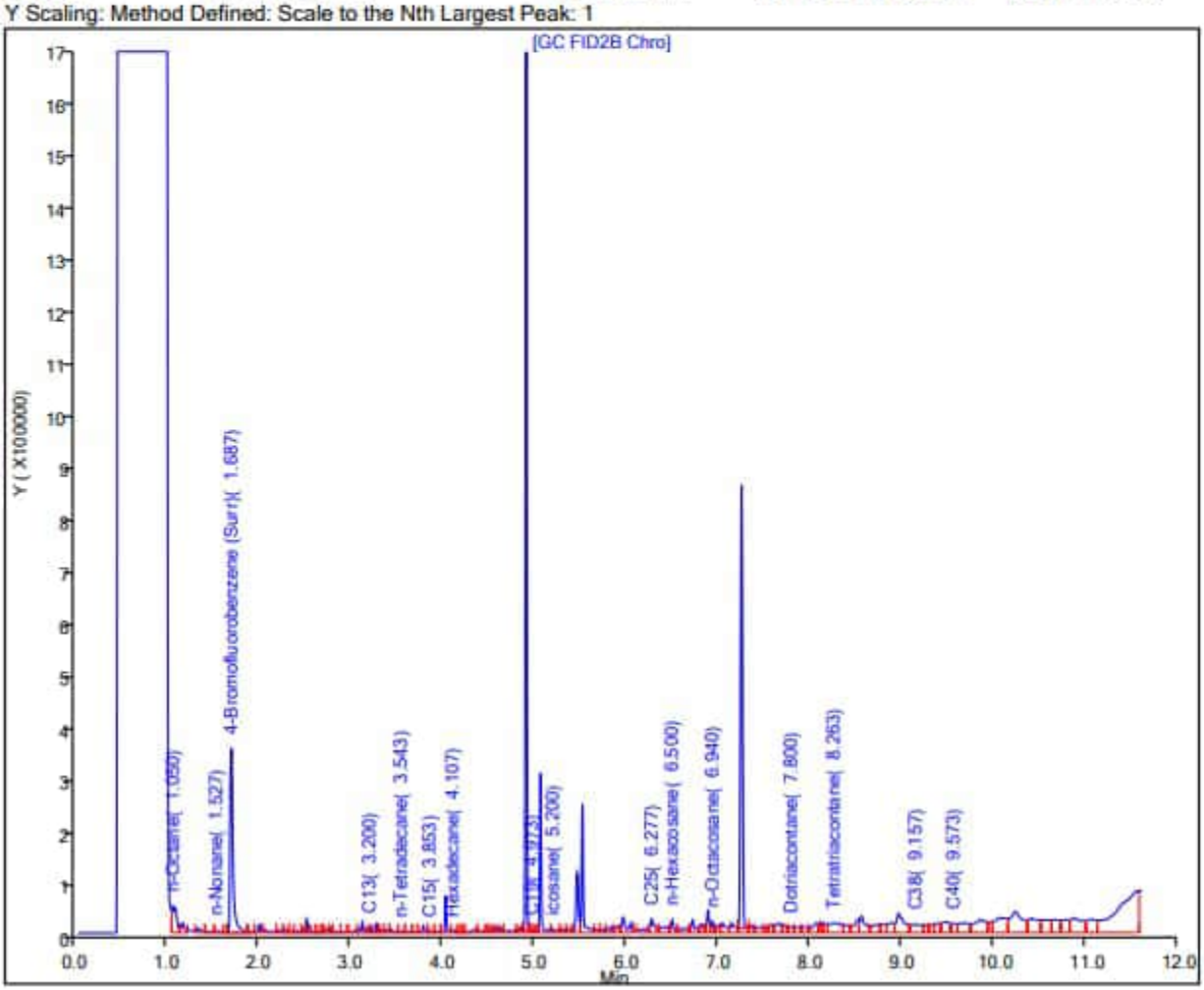
Results (ug/L): **TPH-d (C10 to C24) 96 J** **TPH-o (C24 to C40) 200 J**

Report Date: 30-Nov-2022 12:33:16 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A051.D				
Injection Date:	30-Nov-2022 01:50:32	Instrument ID:	TAC129_R		
Lims ID:	580-120410-F-11-A	Lab Sample ID:	580-120410-11		
Client ID:	RHMW05-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	72
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



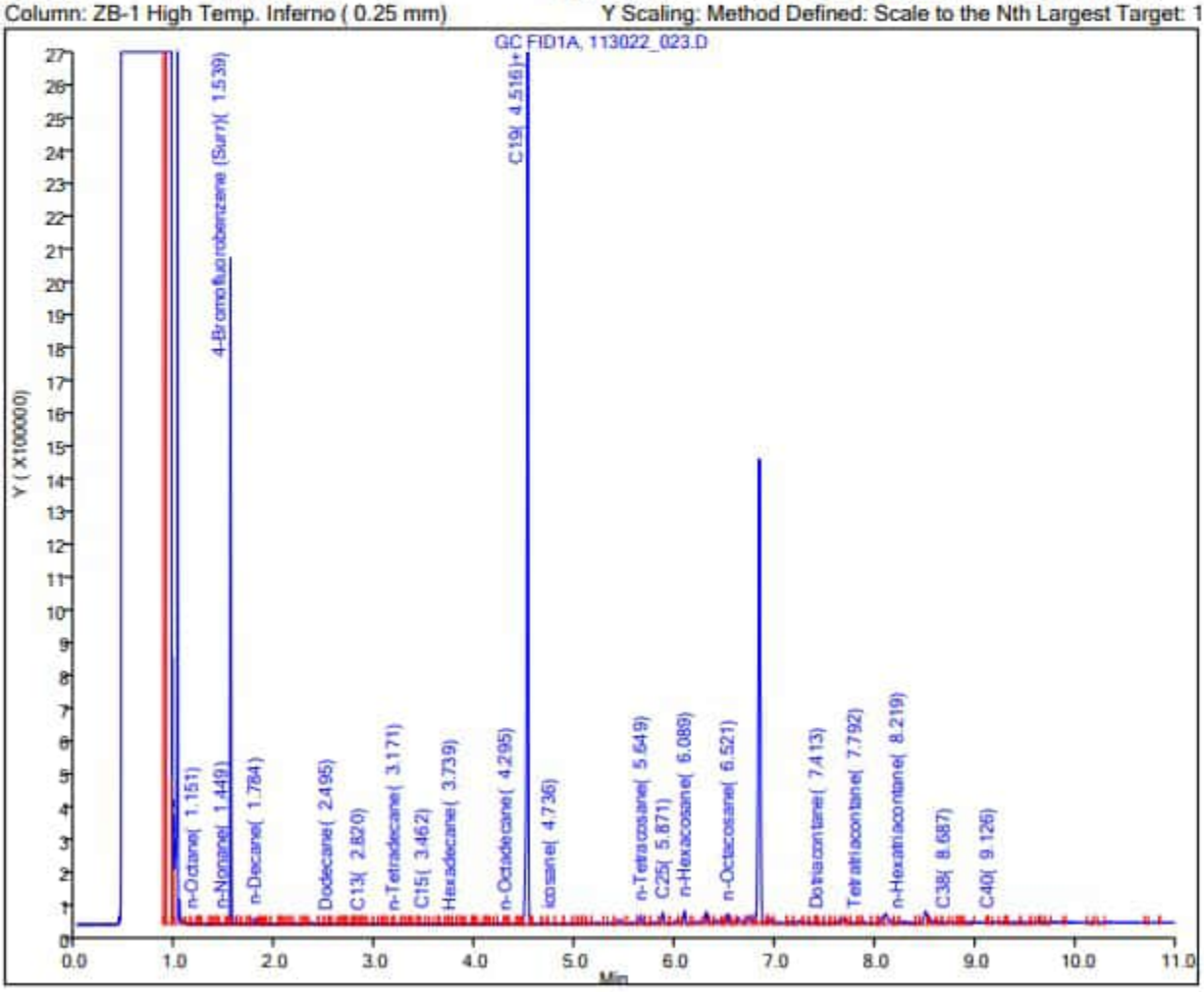
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 30-Nov-2022 22:33:11 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_023.D				
Injection Date:	30-Nov-2022 20:11:30	Instrument ID:	TAC020		
Lims ID:	580-120410-F-11-B	Lab Sample ID:	580-120410-11		
Client ID:	RHMW05-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW06** Sample ID: RHMW06-WGN01B-2208WK3 Sample Date: 8/17/2022
Lab: Eurofins Seattle

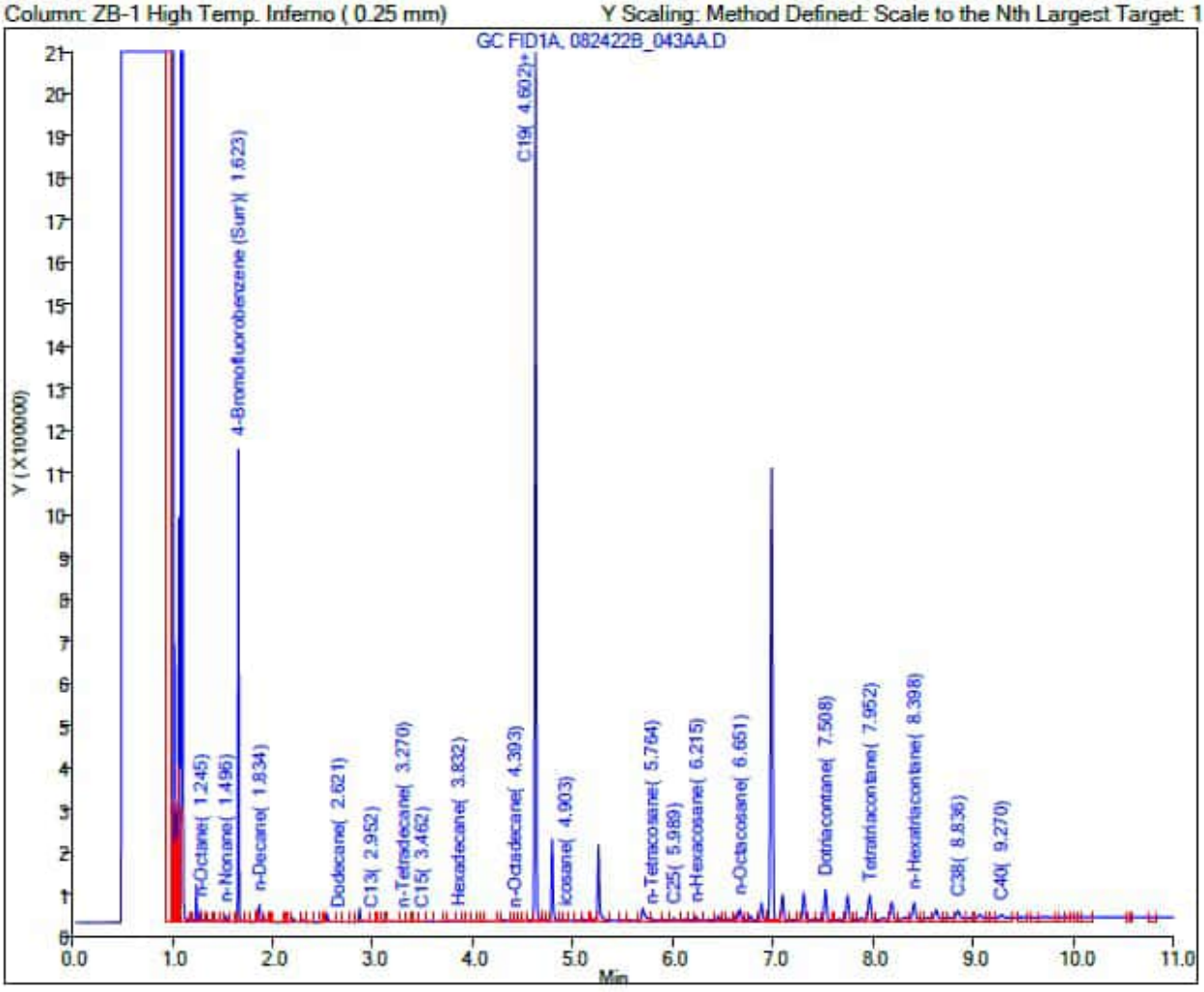
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Aug-2022 13:46:16 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_043AA.D		
Injection Date:	25-Aug-2022 10:48:30	Instrument ID:	TAC020
Lims ID:	580-117085-E-4-A	Lab Sample ID:	580-117085-4
Client ID:	RHMW06-WGN01B-2208WK3		
Operator ID:	DH	ALS Bottle#:	42 Worklist Smp#: 42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2208WK4 Sample Date: 8/24/2022
Lab: Eurofins Seattle

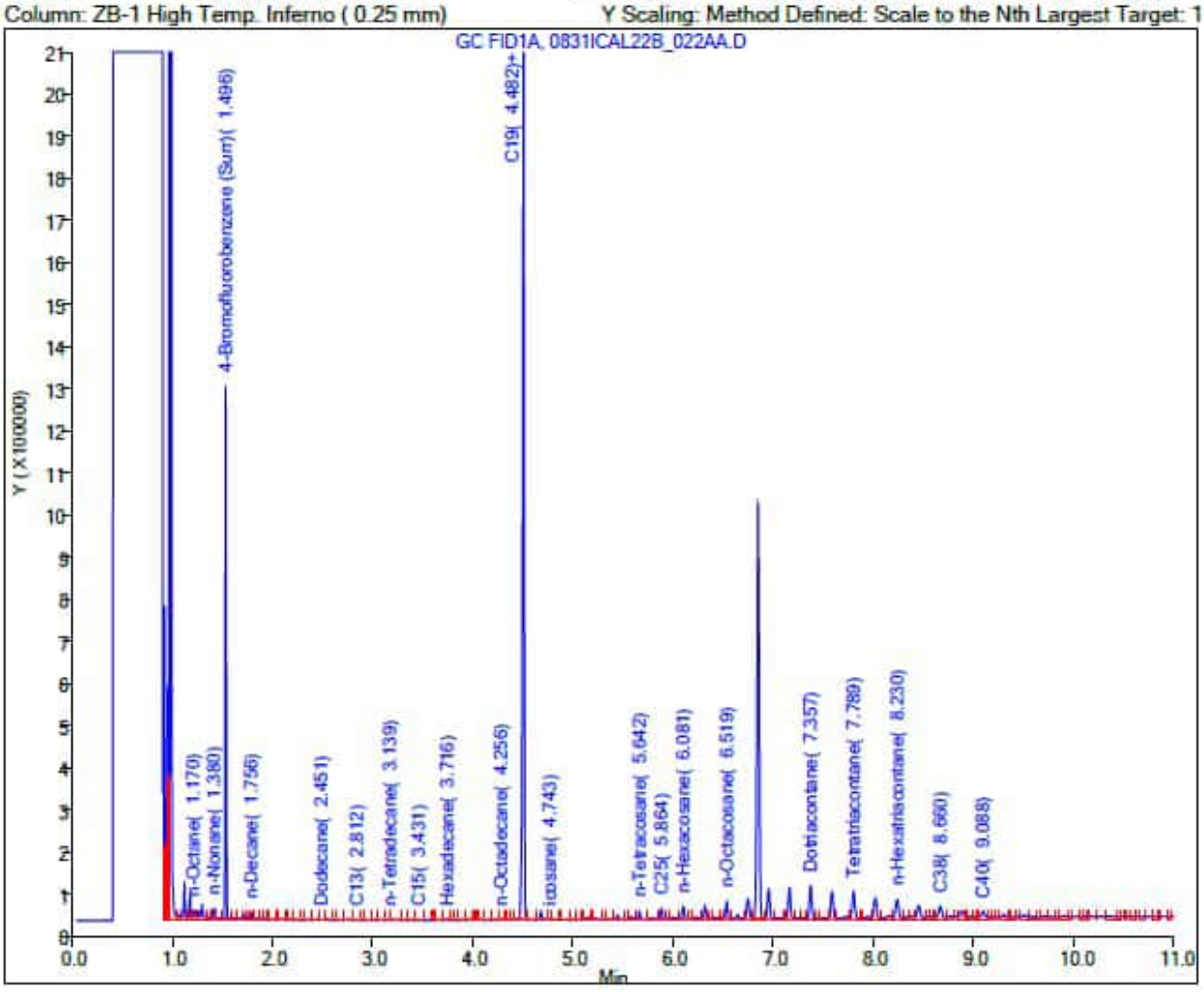
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Sep-2022 14:04:33 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_022AA.D				
Injection Date:	01-Sep-2022 06:26:30	Instrument ID:	TAC020		
Lims ID:	580-117295-N-6-A	Lab Sample ID:	580-117295-6		
Client ID:	RHMW06-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2209WK1 Sample Date: 9/9/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Sep-2022 13:58:29 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_012.D		
Injection Date:	13-Sep-2022 23:20:30	Instrument ID:	TAC020
Lims ID:	580-117769-Q-1-A	Lab Sample ID:	580-117769-1
Client ID:	RHMW06-WGN01B-2209WK1		
Operator ID:	DH	ALS Bottle#:	11 Worklist Smp#: 11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

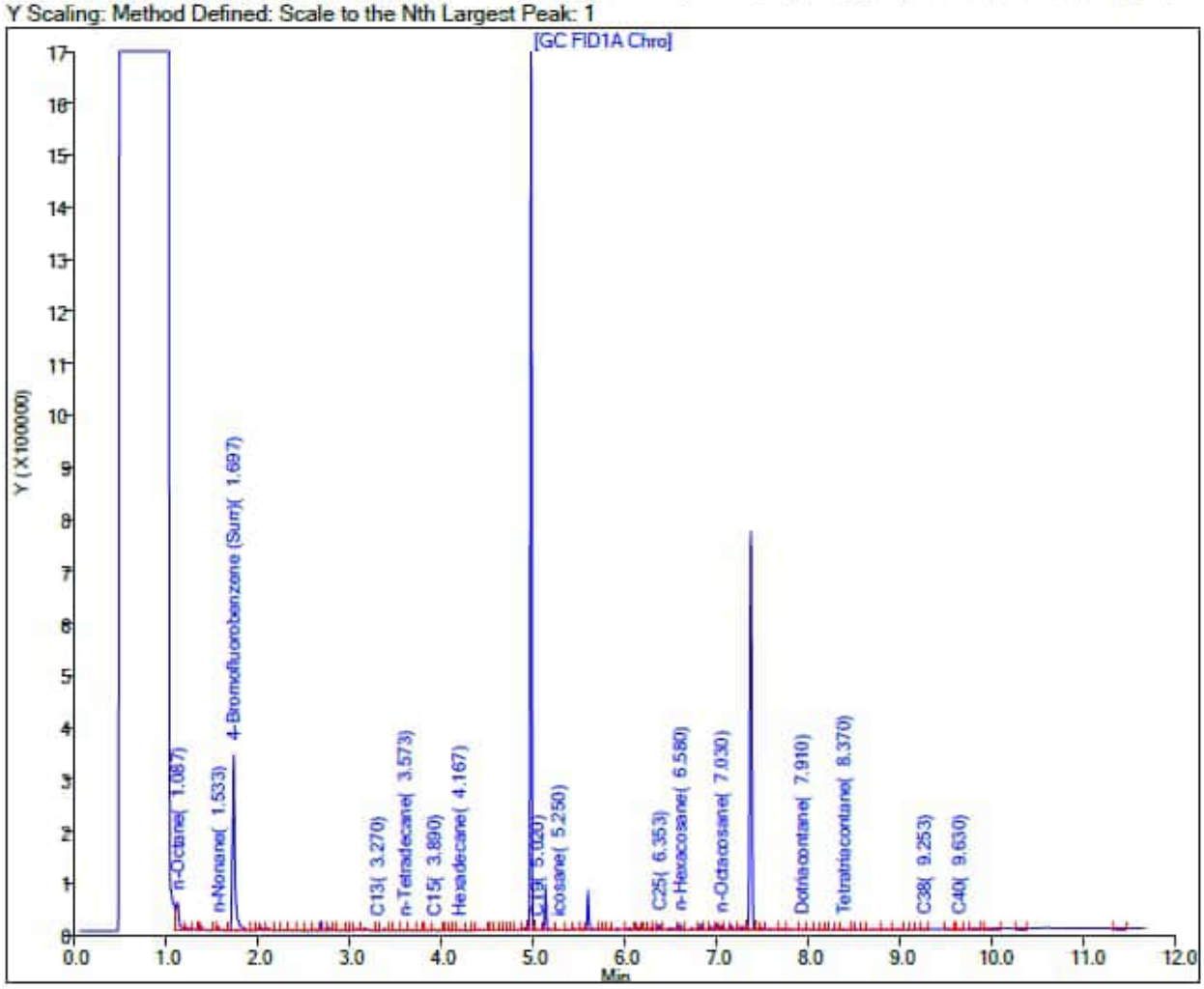
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:57:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A040.D				
Injection Date:	11-Oct-2022 23:07:01	Instrument ID:	TAC129		
Lims ID:	580-118644-F-11-A	Lab Sample ID:	580-118644-11		
Client ID:	RHMW06-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

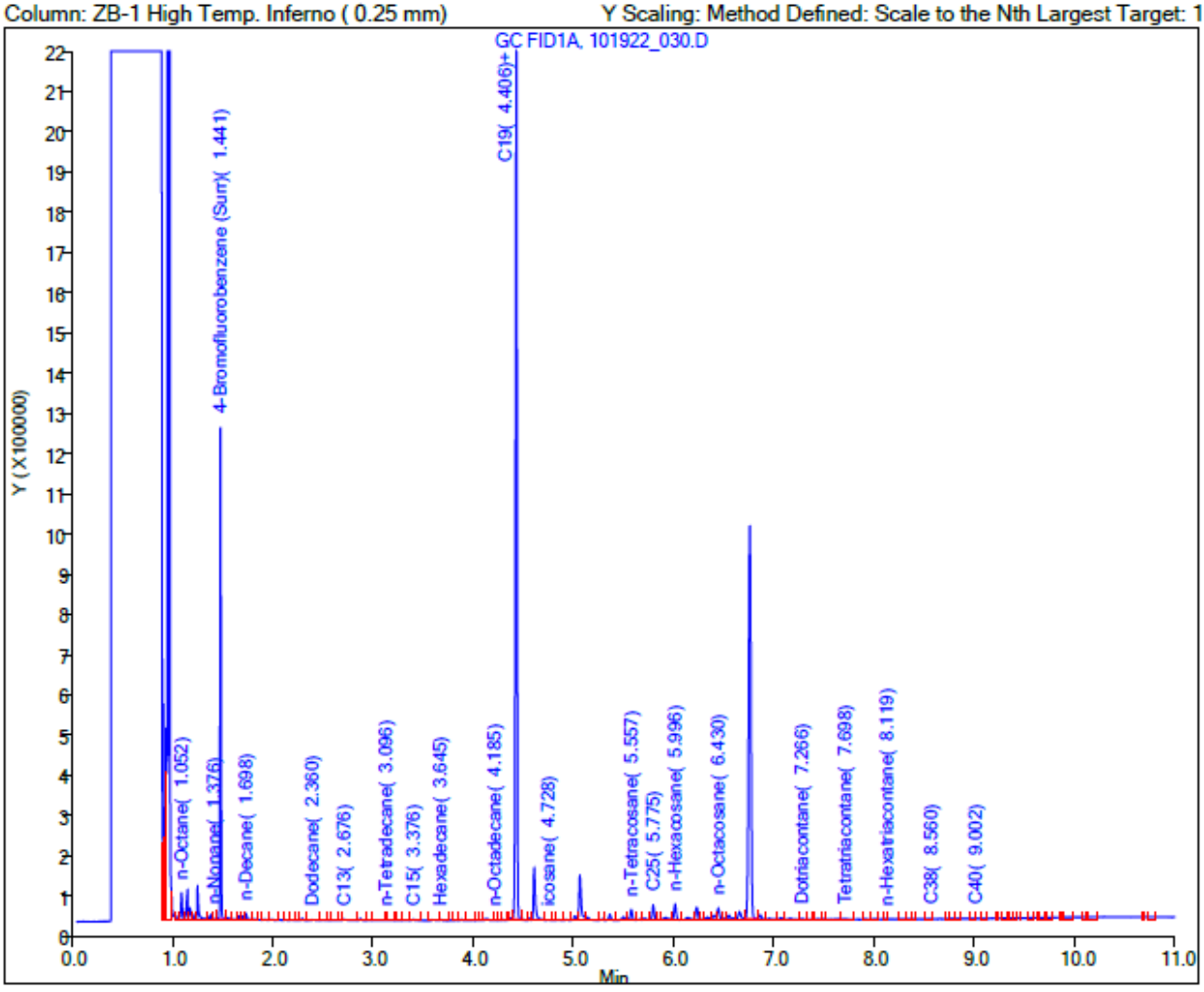
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 20-Oct-2022 13:42:16 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_030.D				
Injection Date:	20-Oct-2022 01:53:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-5-A	Lab Sample ID:	580-118920-5		
Client ID:	RHMW06-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

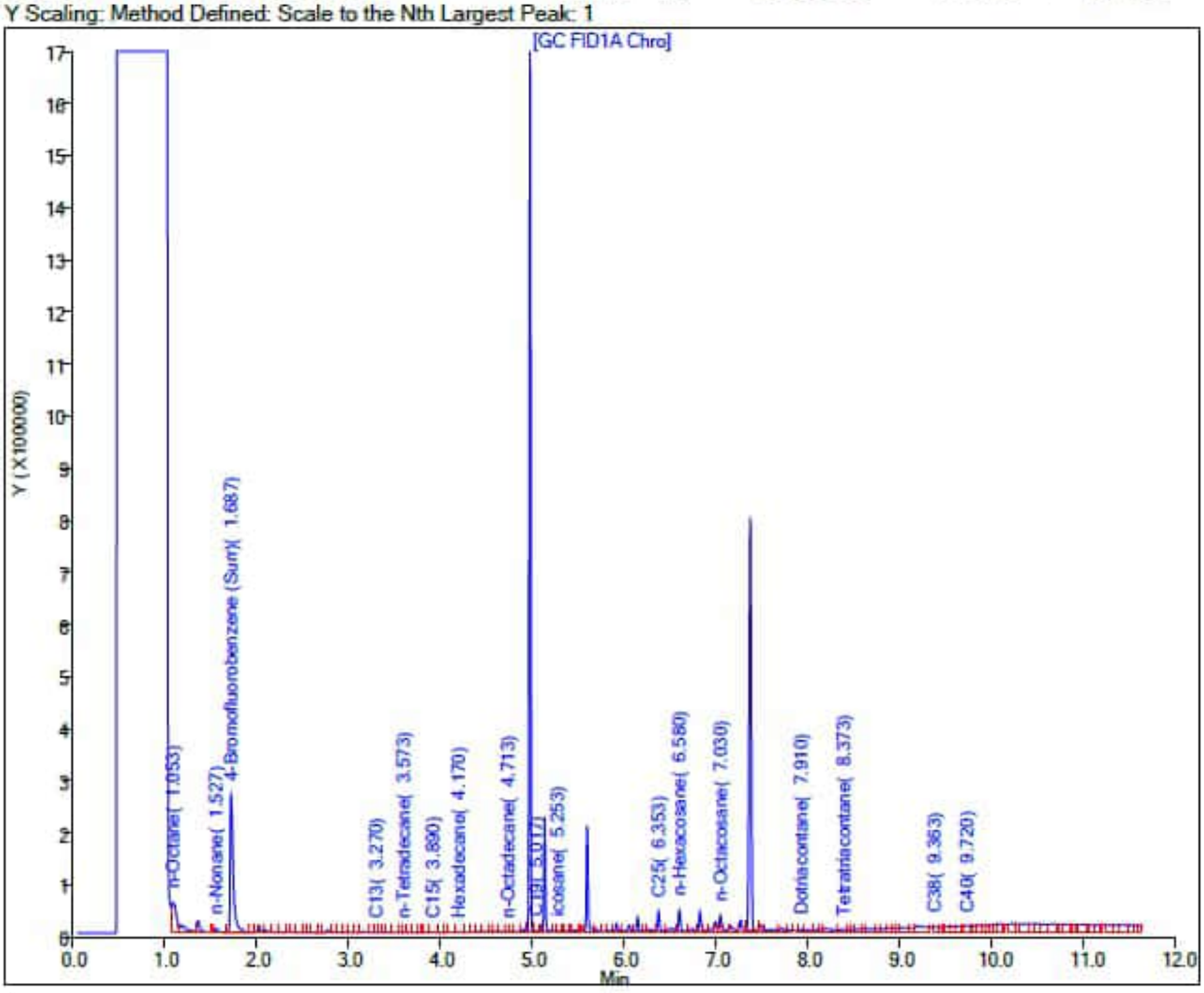
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 24-Oct-2022 13:37:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A018.D				
Injection Date:	21-Oct-2022 20:08:54	Instrument ID:	TAC129		
Lims ID:	580-118934-O-3-A	Lab Sample ID:	580-118934-3		
Client ID:	RHMW06-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN02B-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

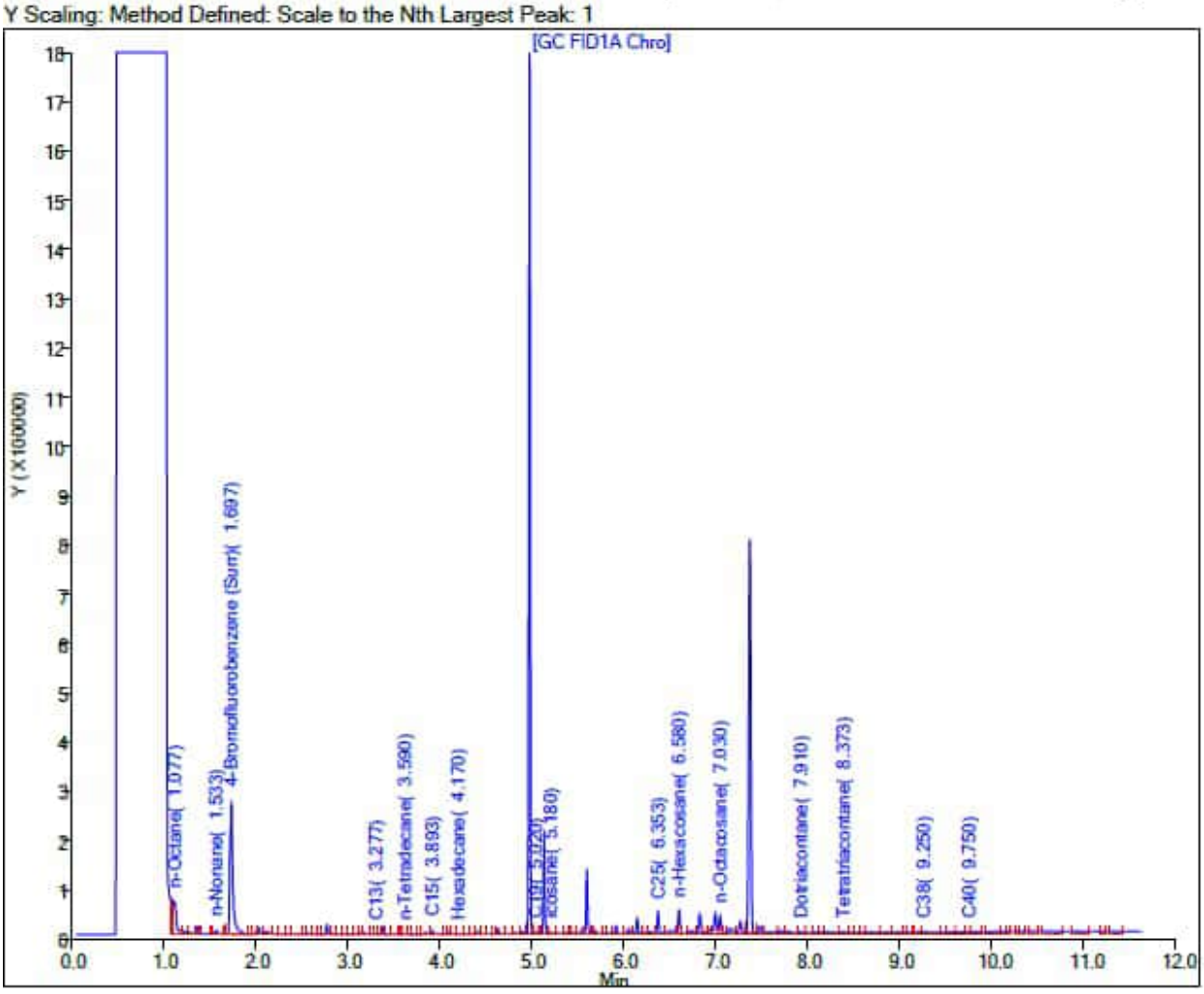
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:37:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A034.D				
Injection Date:	26-Oct-2022 00:56:19	Instrument ID:	TAC129		
Lims ID:	580-119014-O-7-A	Lab Sample ID:	580-119014-7		
Client ID:	RHMW06-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

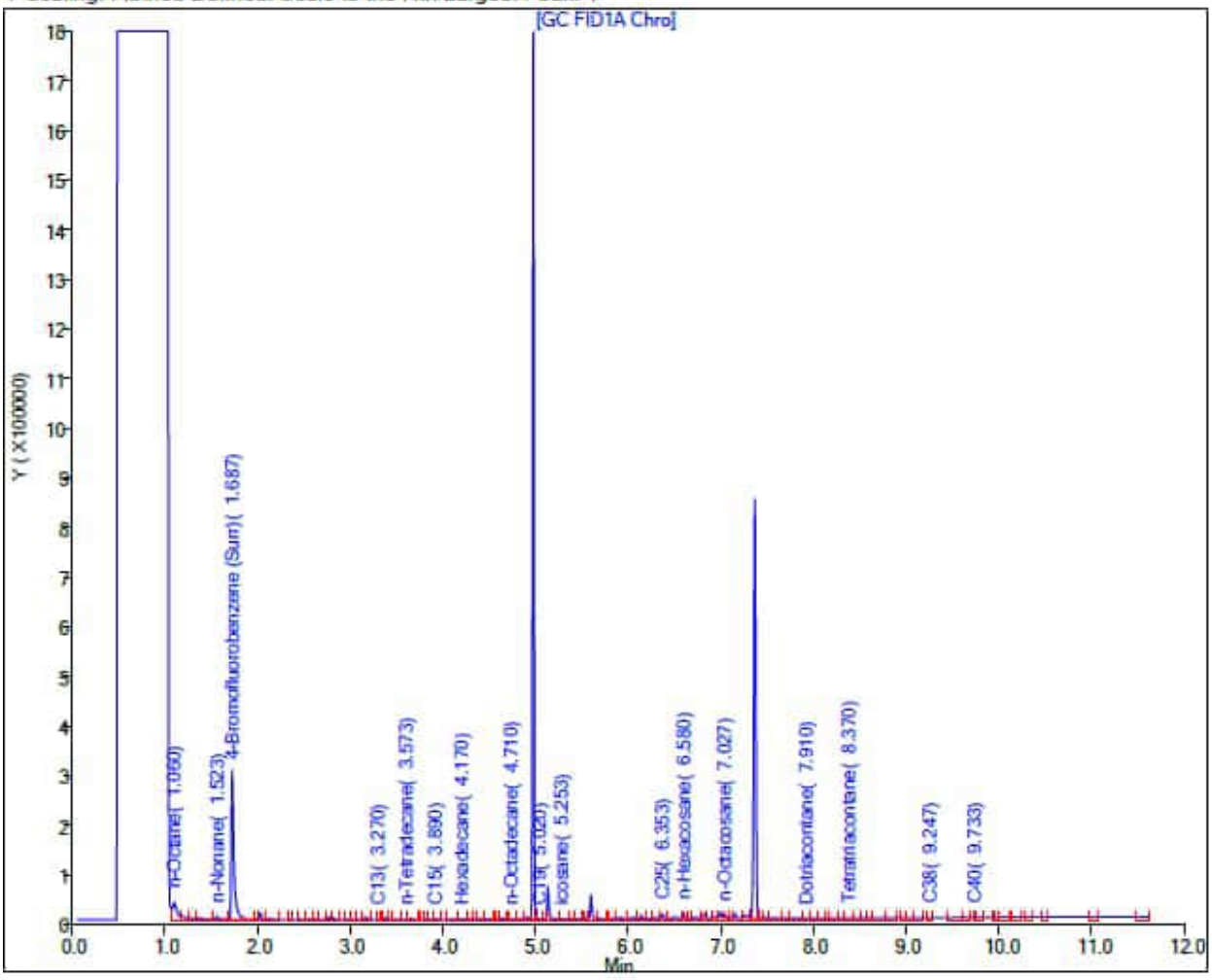
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:50:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A026.D				
Injection Date:	28-Oct-2022 23:22:35	Instrument ID:	TAC129		
Lims ID:	580-119293-O-8-A	Lab Sample ID:	580-119293-8		
Client ID:	RHMW06-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN02B-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

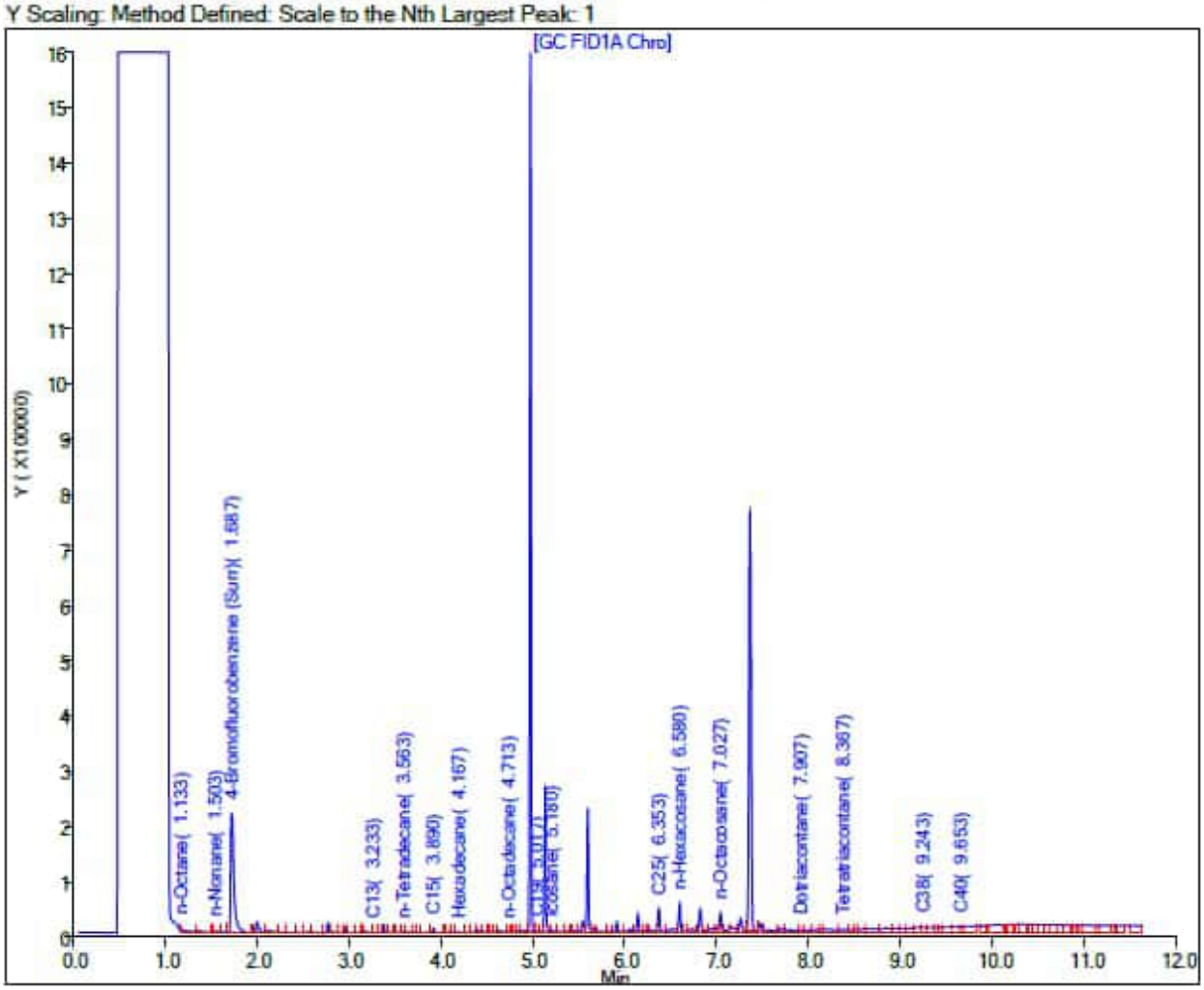
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:11:31 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A022.D				
Injection Date:	02-Nov-2022 20:20:42	Instrument ID:	TAC129		
Lims ID:	580-119371-C-1-A	Lab Sample ID:	580-119371-1		
Client ID:	RHMW06-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

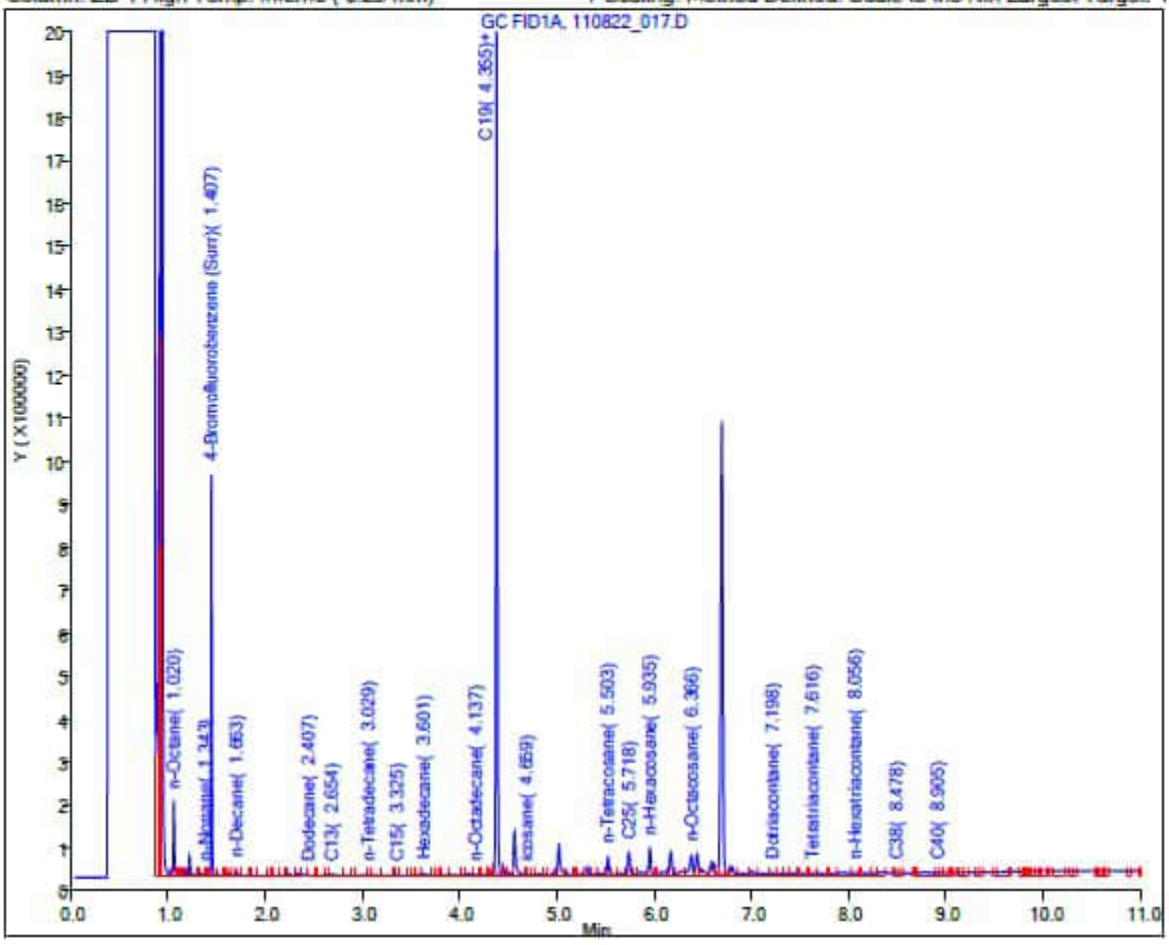
Results (ug/L): **TPH-d (C10 to C24) <81 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:54:27 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_017.D		
Injection Date:	08-Nov-2022 22:53:30	Instrument ID:	TAC020
Lims ID:	580-119523-O-15-A	Lab Sample ID:	580-119523-15
Client ID:	RHMW06-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	16 Worklist Smp#: 16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN02B-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

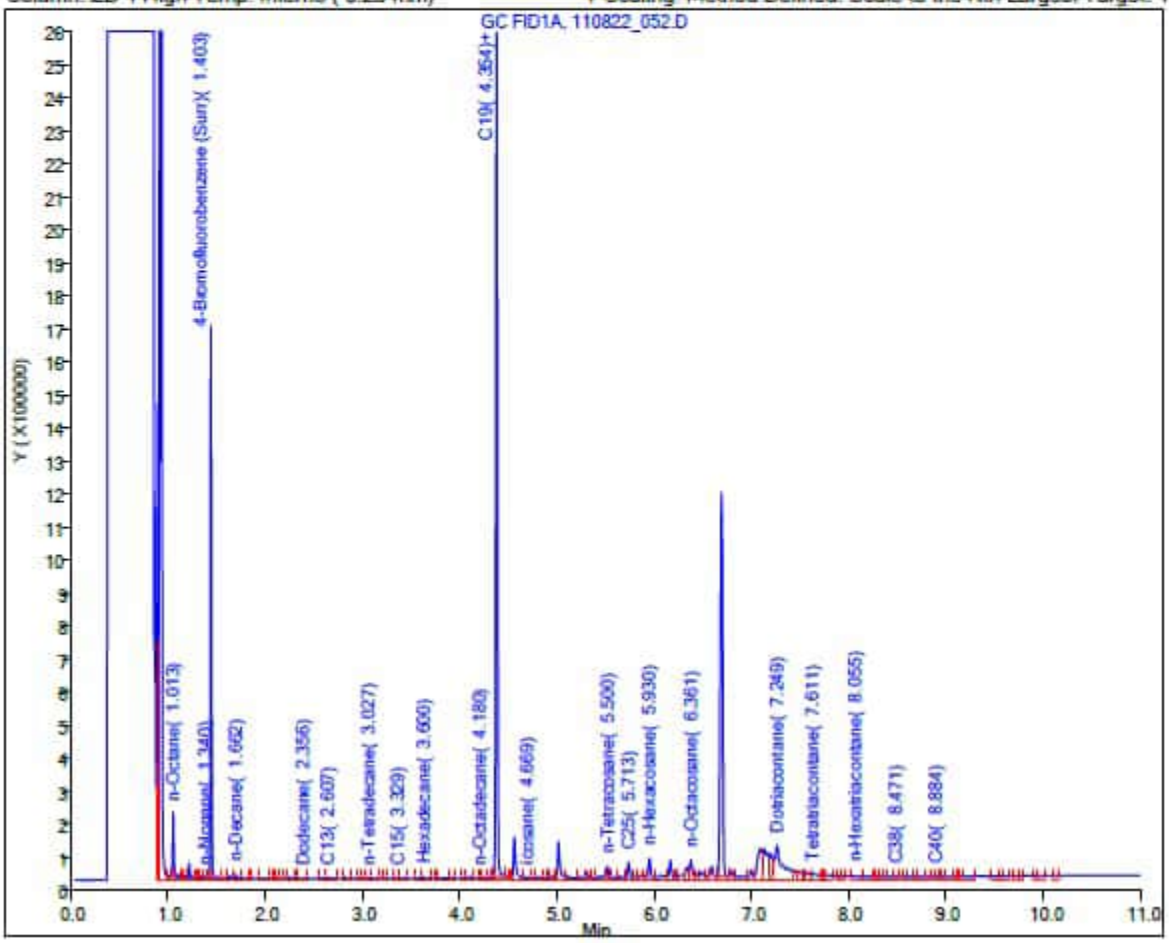
Results (ug/L): **TPH-d (C10 to C24) <85 U** **TPH-o (C24 to C40) <250 U**

Report Date: 09-Nov-2022 14:00:27 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_052.D				
Injection Date:	09-Nov-2022 10:38:30	Instrument ID:	TAC020		
Lims ID:	580-119623-N-6-A	Lab Sample ID:	580-119623-6		
Client ID:	RHMW06-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	51	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

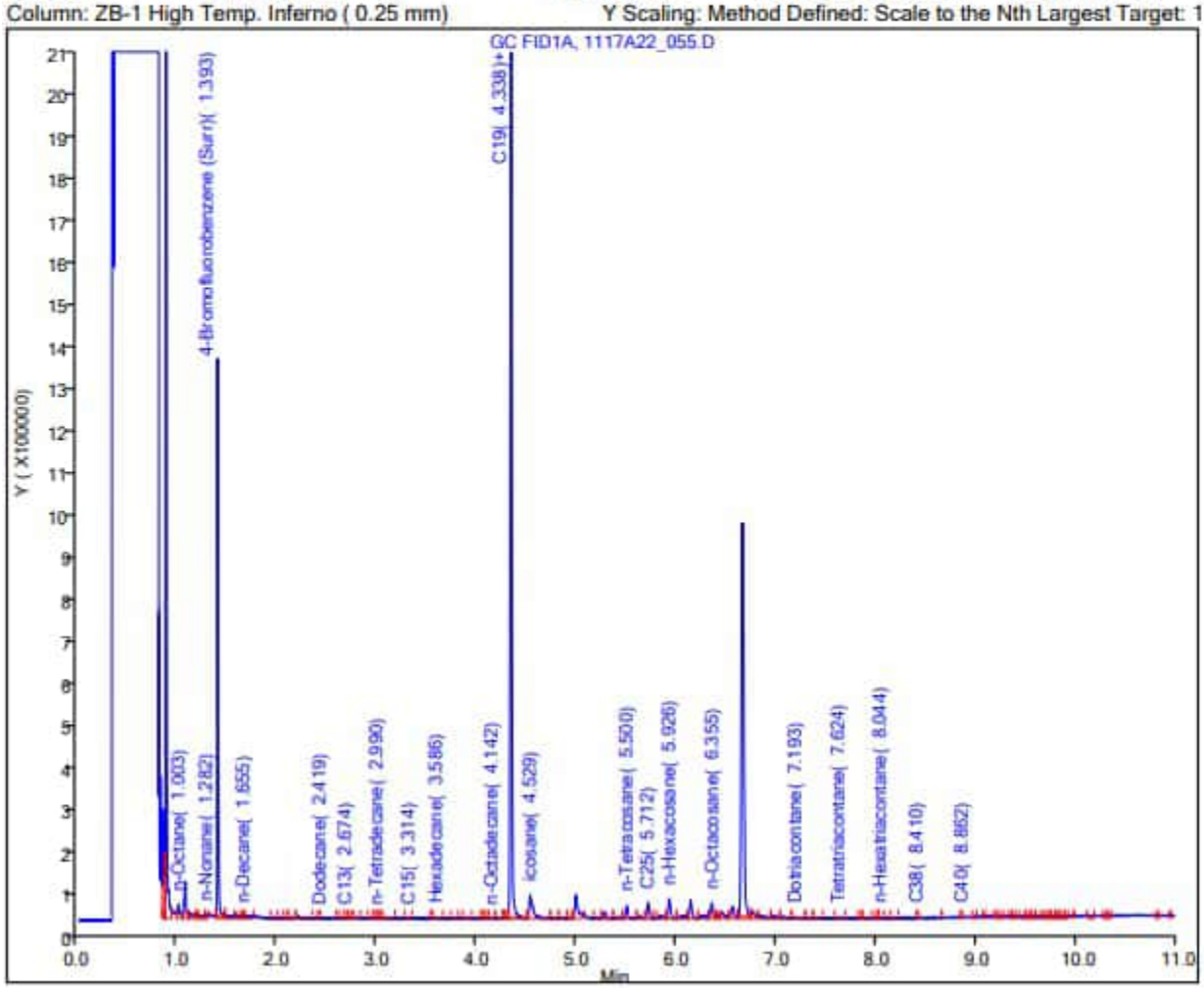
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 20:35:31 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_055.D				
Injection Date:	18-Nov-2022 13:45:30	Instrument ID:	TAC020		
Lims ID:	580-120090-O-6-A	Lab Sample ID:	580-120090-6		
Client ID:	RHMW06-WGN01B-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	54	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2211WK3 Sample Date: 11/19/2022
Lab: Eurofins Seattle

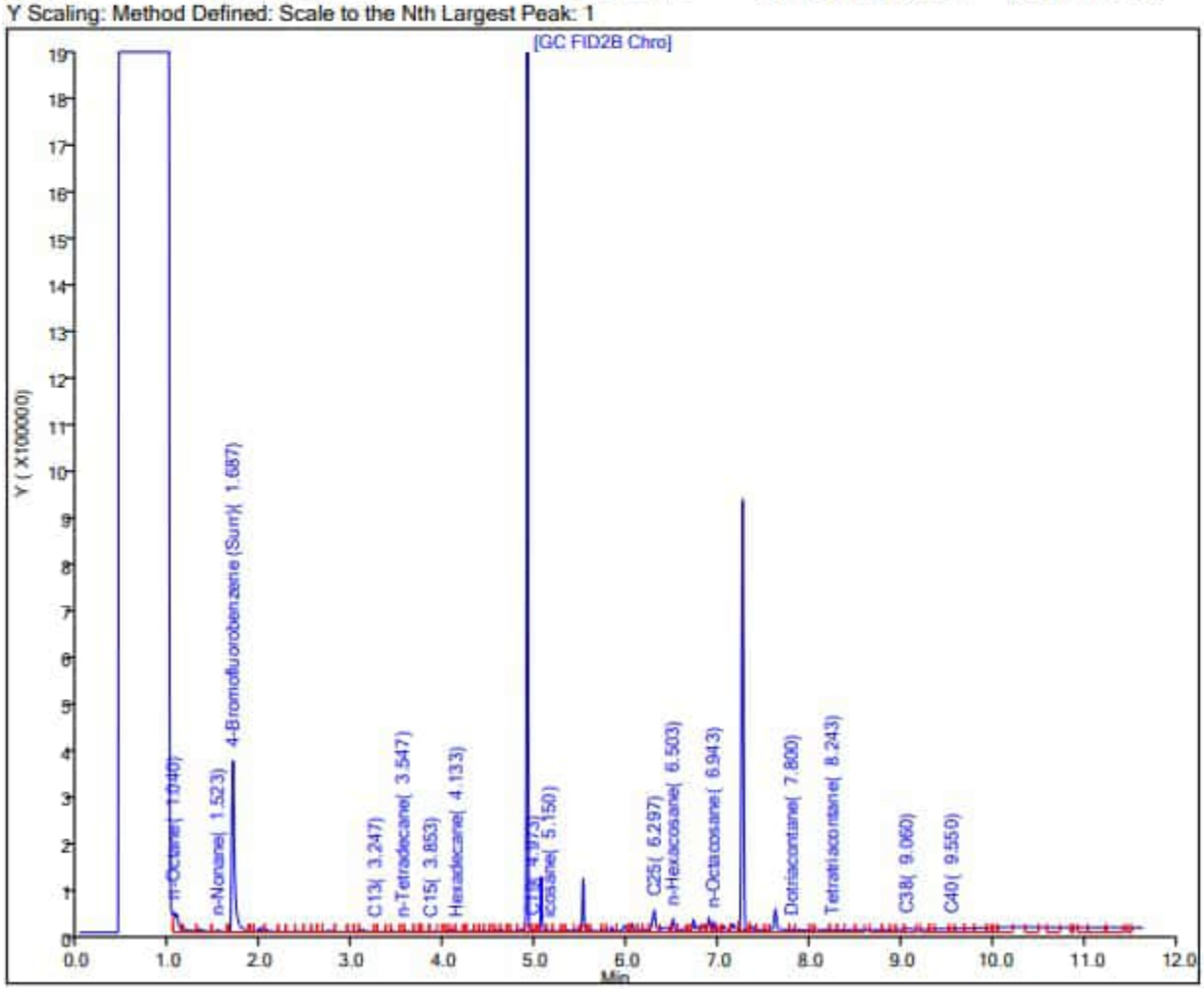
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:23:49 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A021.D				
Injection Date:	28-Nov-2022 19:17:42	Instrument ID:	TAC129_R		
Lims ID:	580-120311-O-9-A	Lab Sample ID:	580-120311-9		
Client ID:	RHMW06-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN02B-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

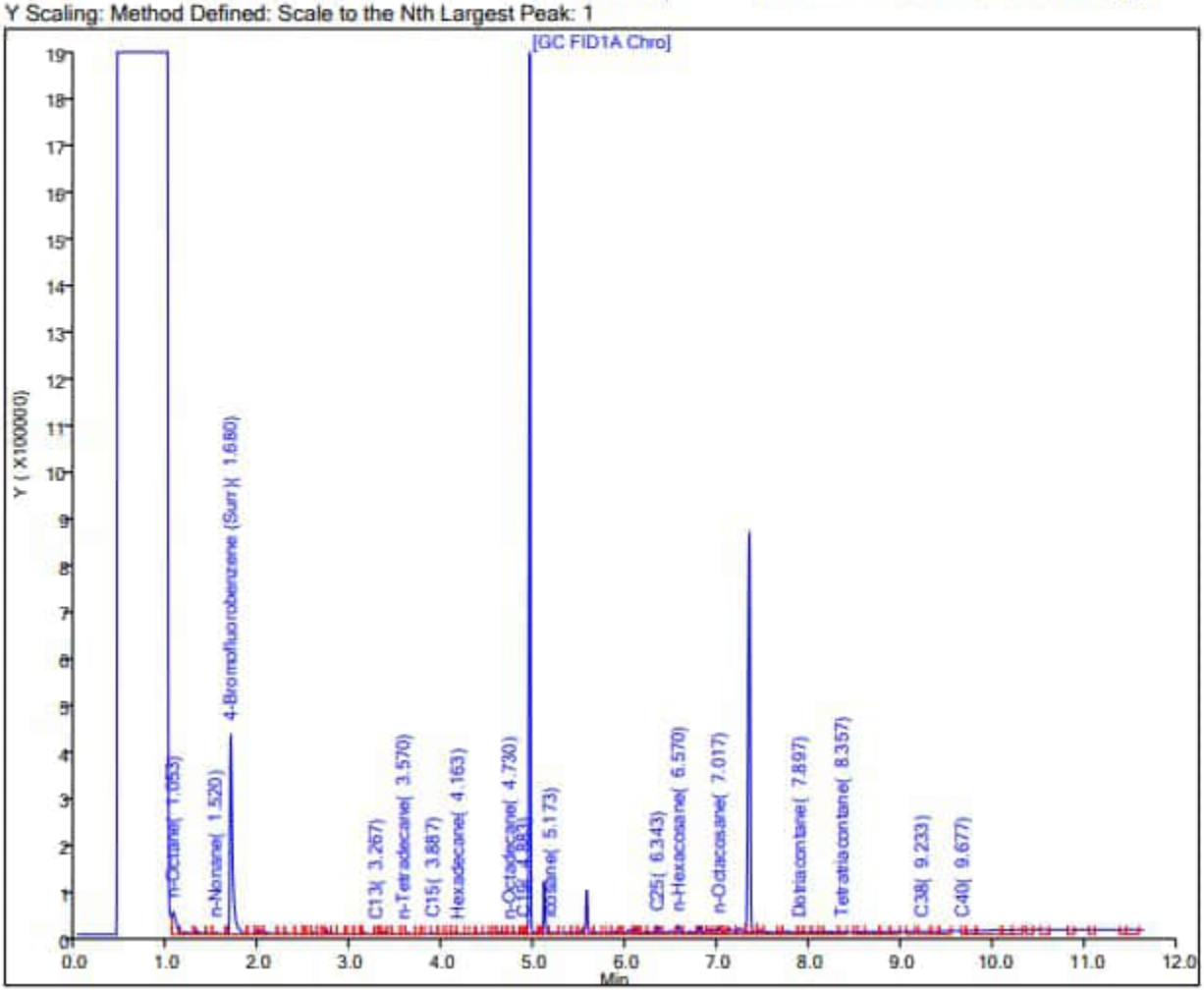
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:18:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A036.D				
Injection Date:	29-Nov-2022 23:22:13	Instrument ID:	TAC129		
Lims ID:	580-120389-O-8-A	Lab Sample ID:	580-120389-8		
Client ID:	RHMW06-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW06** Sample ID: RHMW06-WGN01B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

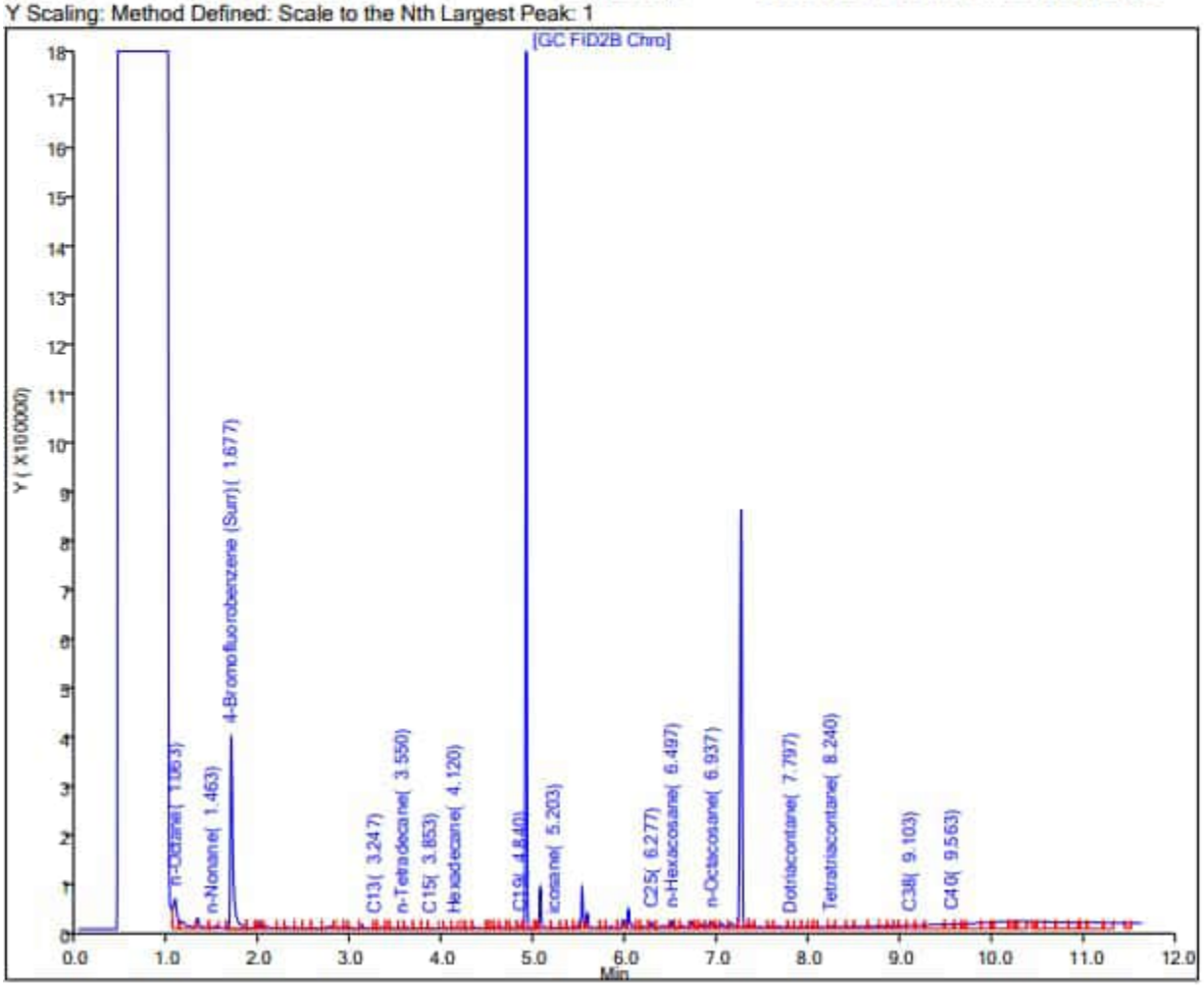
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 06-Dec-2022 13:58:37 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A013.D				
Injection Date:	05-Dec-2022 21:07:00	Instrument ID:	TAC129_R		
Lims ID:	580-120703-O-3-A	Lab Sample ID:	580-120703-3		
Client ID:	RHMW06-WGN01B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2208WK3 Sample Date: 8/17/2022
Lab: Eurofins Seattle

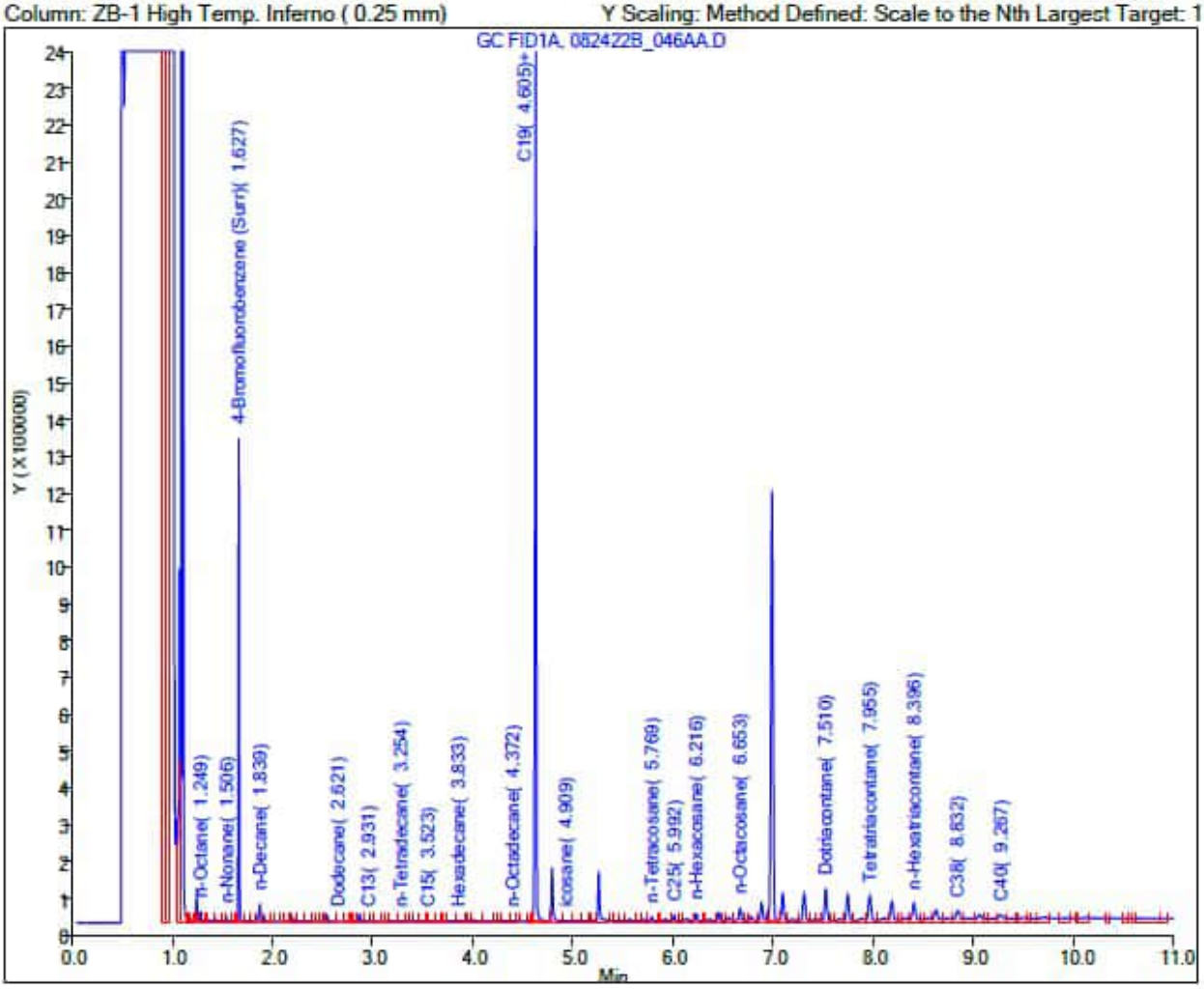
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Aug-2022 13:46:29 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_046AA.D		
Injection Date:	25-Aug-2022 11:48:30	Instrument ID:	TAC020
Lims ID:	580-117085-E-10-A	Lab Sample ID:	580-117085-10
Client ID:	RHMW08-WGN01B-2208WK3		
Operator ID:	DH	ALS Bottle#:	45 Worklist Smp#: 45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2208WK4 Sample Date: 8/24/2022
Lab: Eurofins Seattle

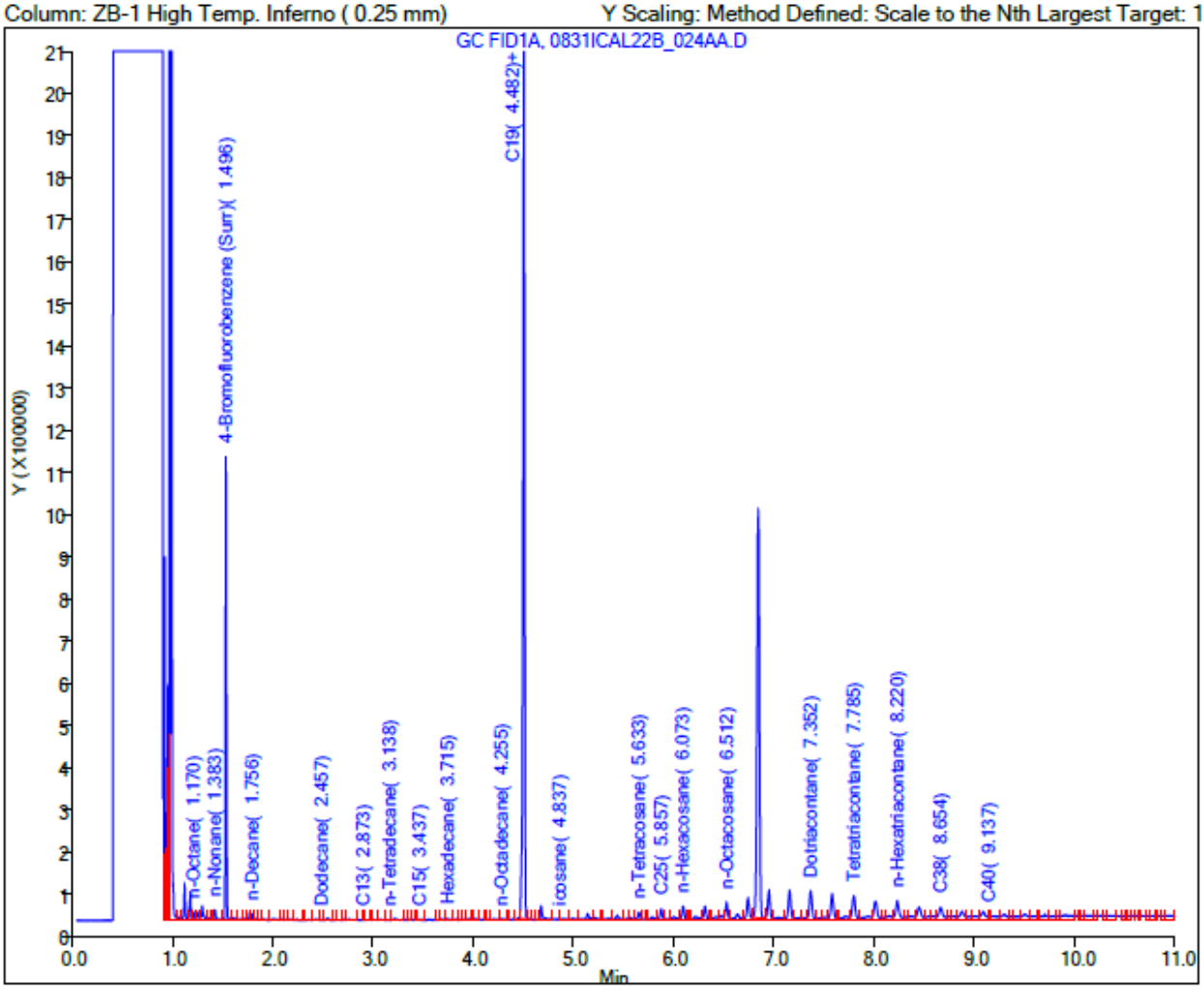
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Sep-2022 14:04:47 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_024AA.D				
Injection Date:	01-Sep-2022 07:06:30	Instrument ID:	TAC020		
Lims ID:	580-117295-O-10-A	Lab Sample ID:	580-117295-10		
Client ID:	RHMW08-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2209WK1 Sample Date: 9/9/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 14-Sep-2022 13:58:41 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_014.D				
Injection Date:	14-Sep-2022 00:01:30	Instrument ID:	TAC020		
Lims ID:	580-117769-Q-5-A	Lab Sample ID:	580-117769-5		
Client ID:	RHMW08-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2210WK1 Sample Date: 10/5/2022
Lab: Eurofins Seattle

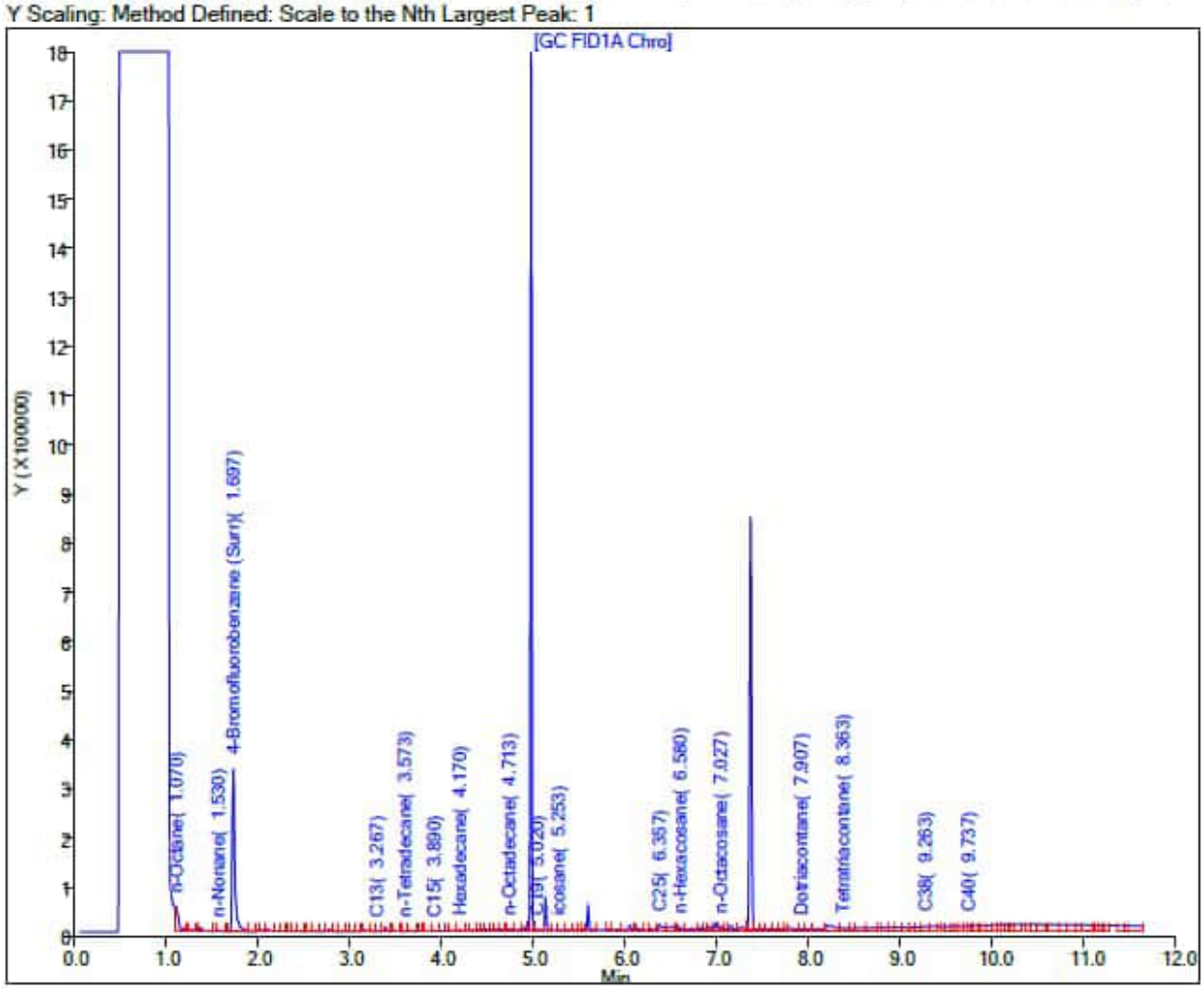
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:54:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A014.D				
Injection Date:	10-Oct-2022 19:00:11	Instrument ID:	TAC129		
Lims ID:	580-118648-E-10-A	Lab Sample ID:	580-118648-10		
Client ID:	RHMW08-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

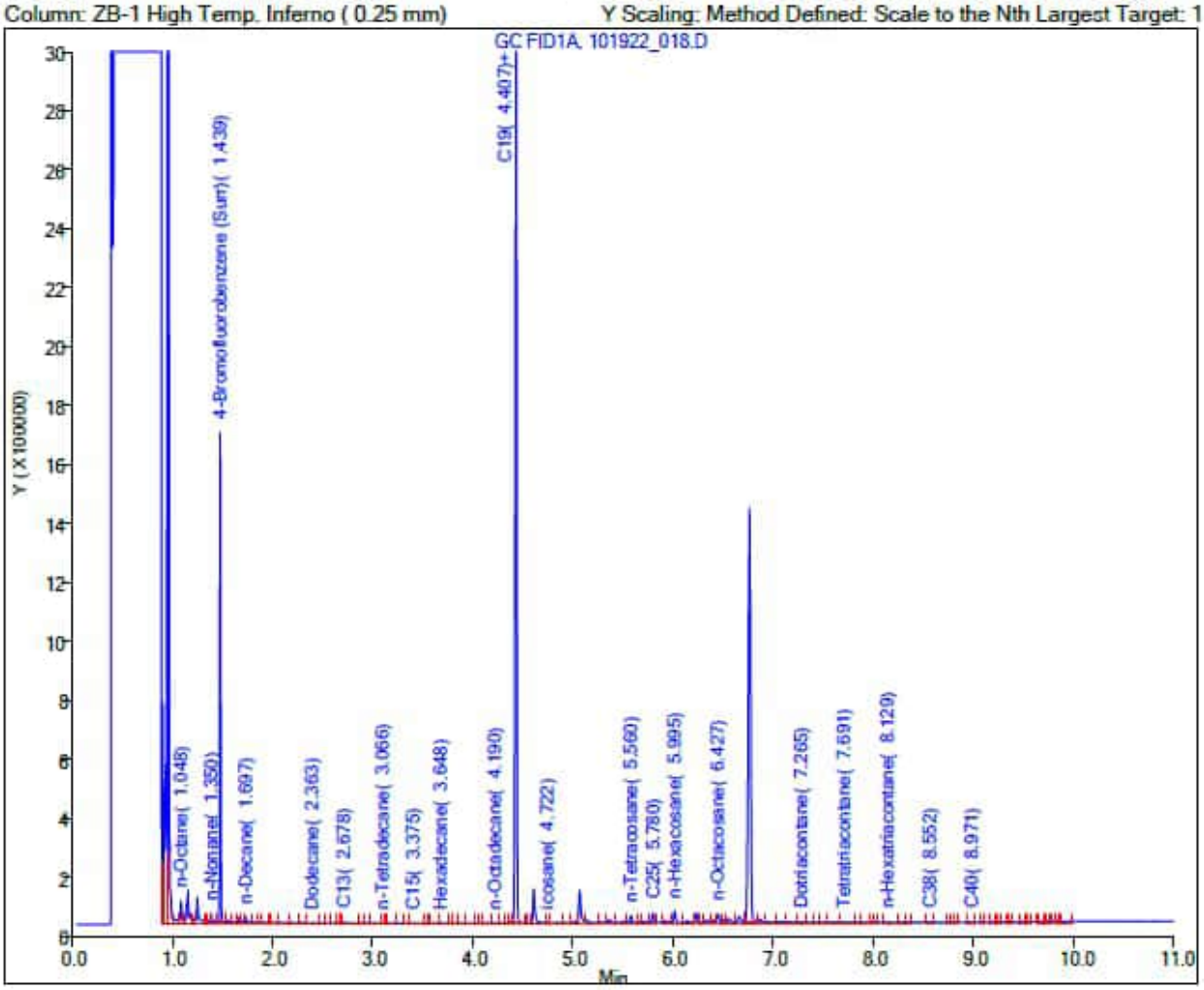
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:40:18 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_018.D				
Injection Date:	19-Oct-2022 21:51:30	Instrument ID:	TAC020		
Lims ID:	580-118941-N-9-A	Lab Sample ID:	580-118941-9		
Client ID:	RHMW08-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

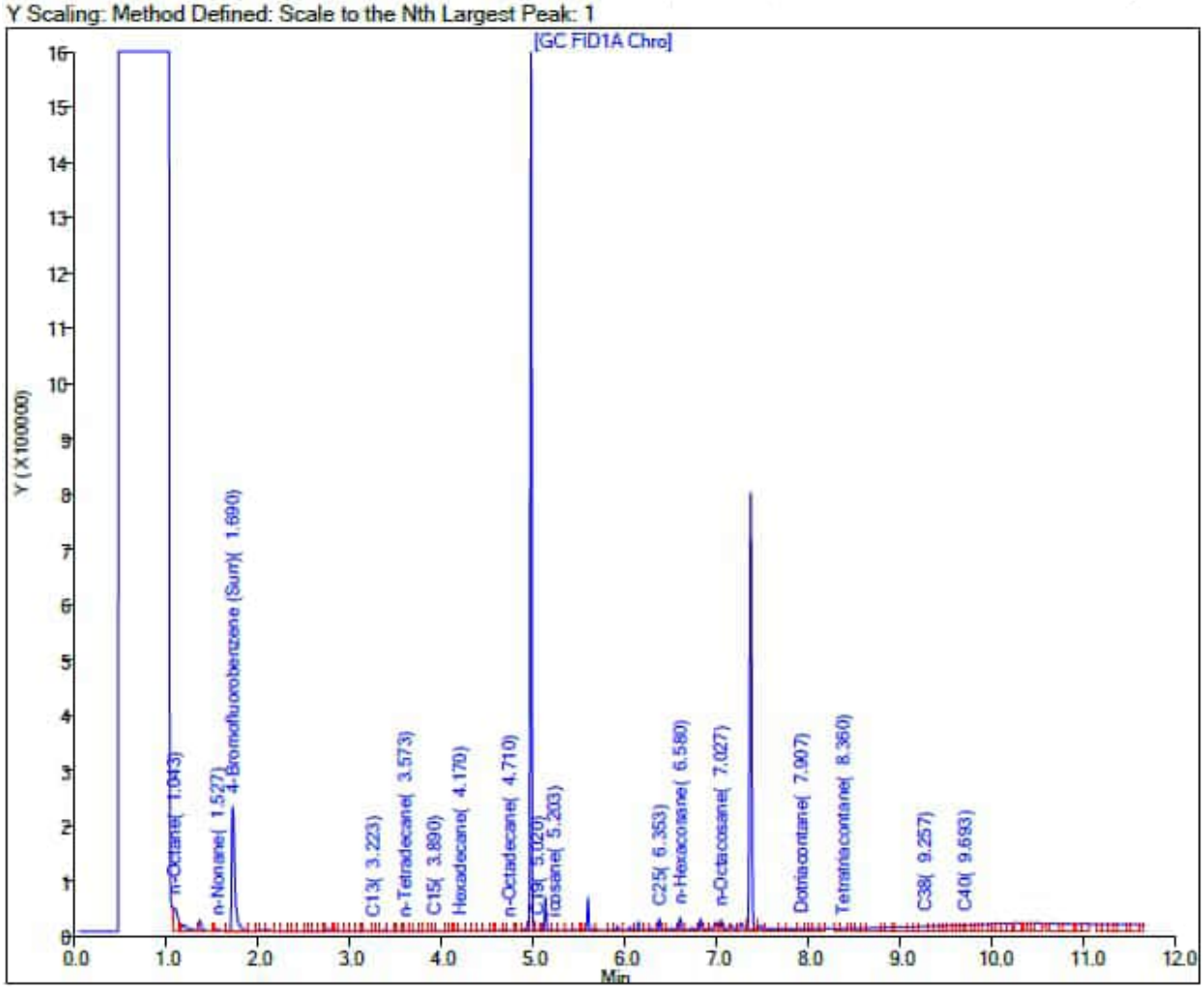
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 25-Oct-2022 12:11:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A014.D				
Injection Date:	24-Oct-2022 19:31:17	Instrument ID:	TAC129		
Lims ID:	580-118964-N-1-A	Lab Sample ID:	580-118964-1		
Client ID:	RHMW08-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN02B-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

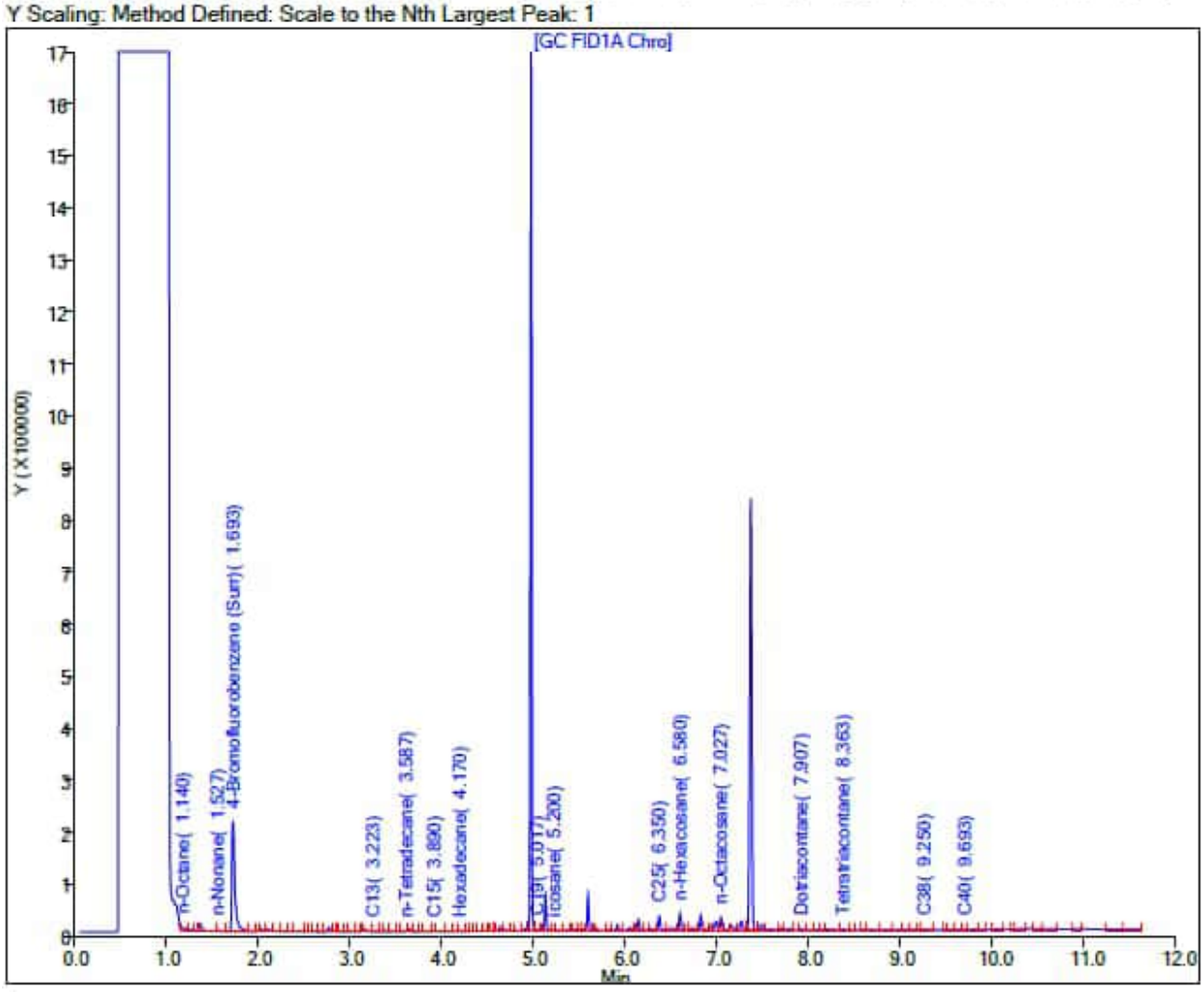
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:37:16 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A040.D				
Injection Date:	26-Oct-2022 01:51:39	Instrument ID:	TAC129		
Lims ID:	580-119014-N-13-A	Lab Sample ID:	580-119014-13		
Client ID:	RHMW08-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

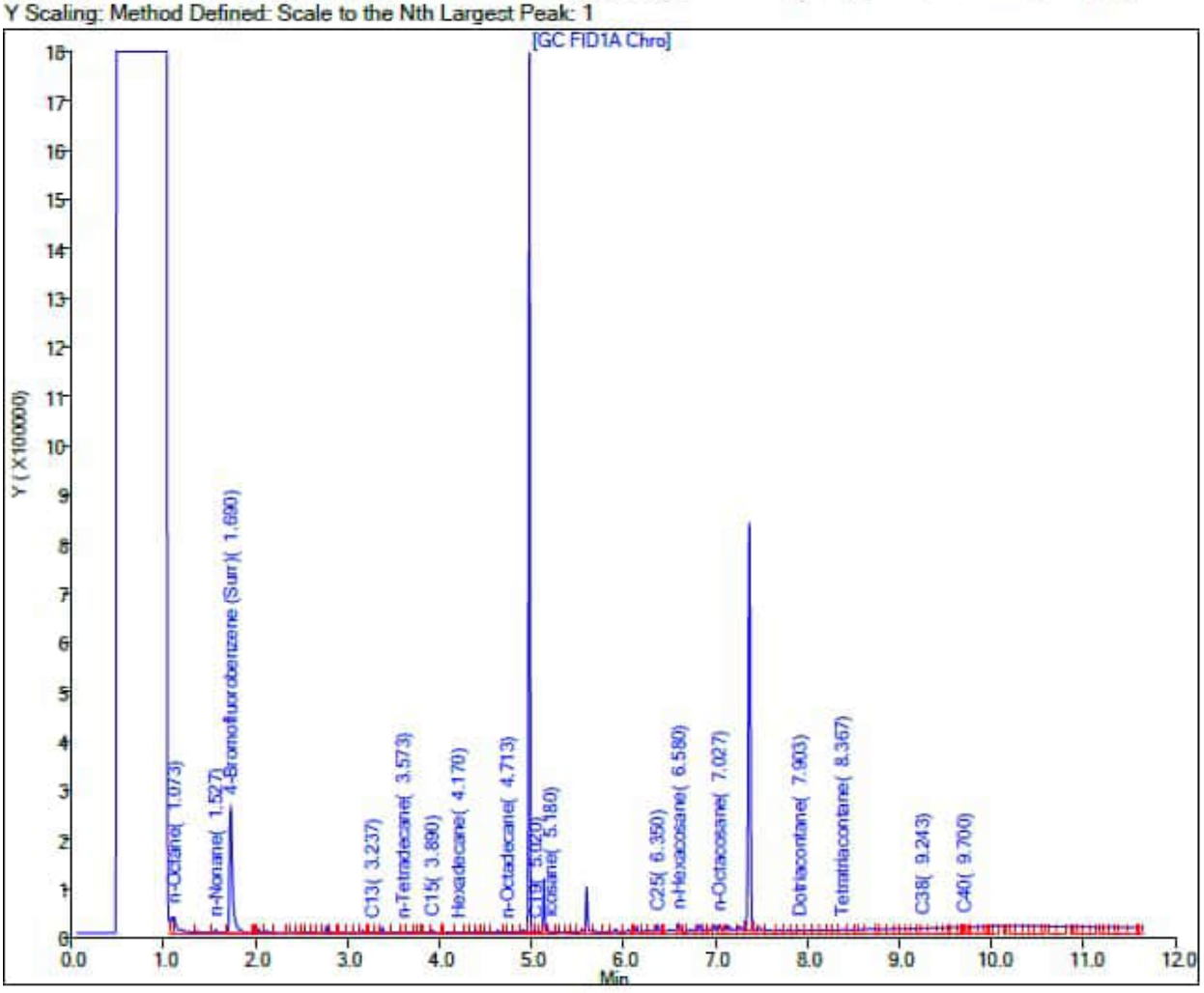
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:50:06 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A020.D				
Injection Date:	28-Oct-2022 22:26:57	Instrument ID:	TAC129		
Lims ID:	580-119293-O-1-A	Lab Sample ID:	580-119293-1		
Client ID:	RHMW08-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN02B-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

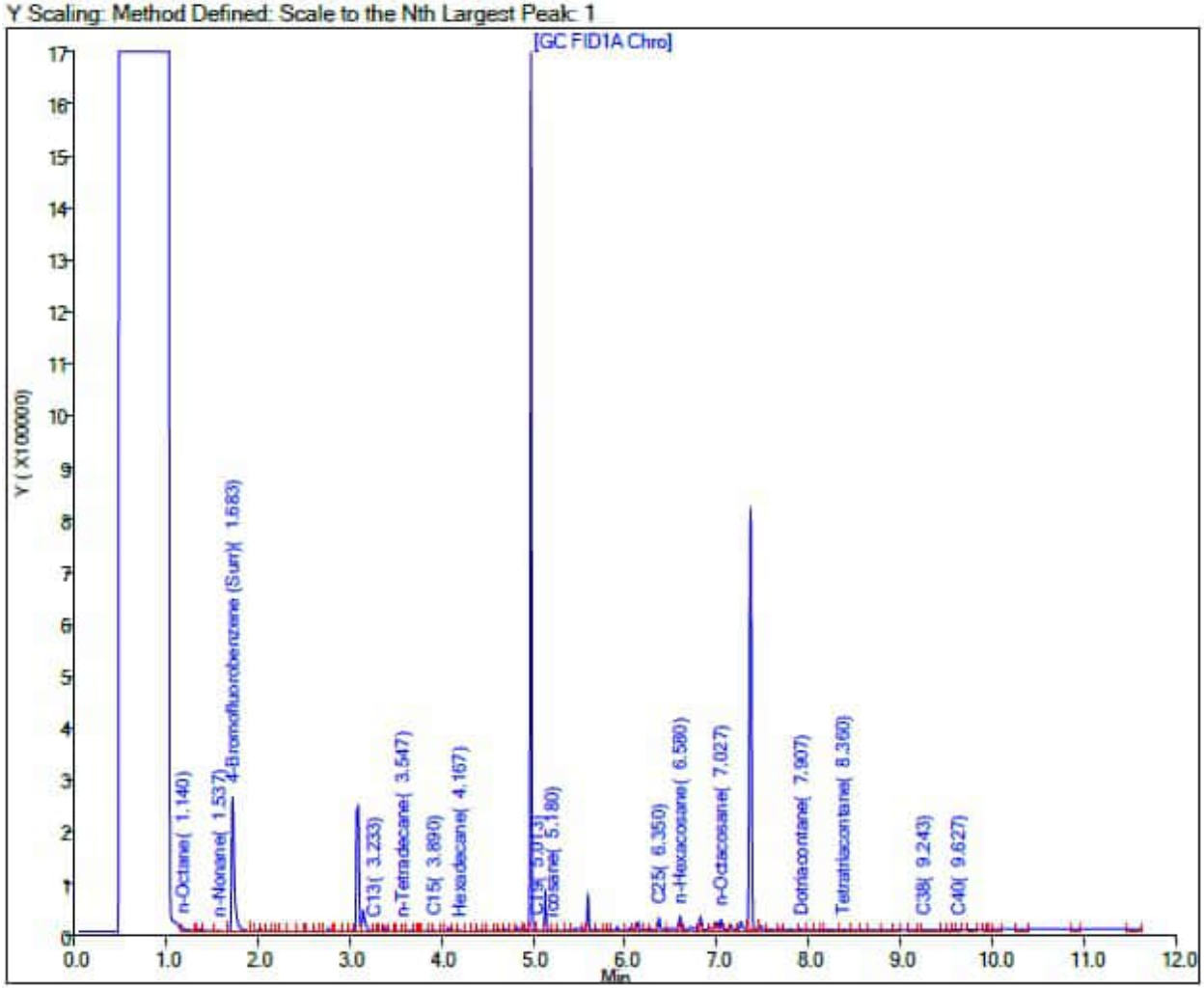
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:11:46 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A032.D				
Injection Date:	02-Nov-2022 21:54:13	Instrument ID:	TAC129		
Lims ID:	580-119371-D-9-A	Lab Sample ID:	580-119371-9		
Client ID:	RHMW08-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

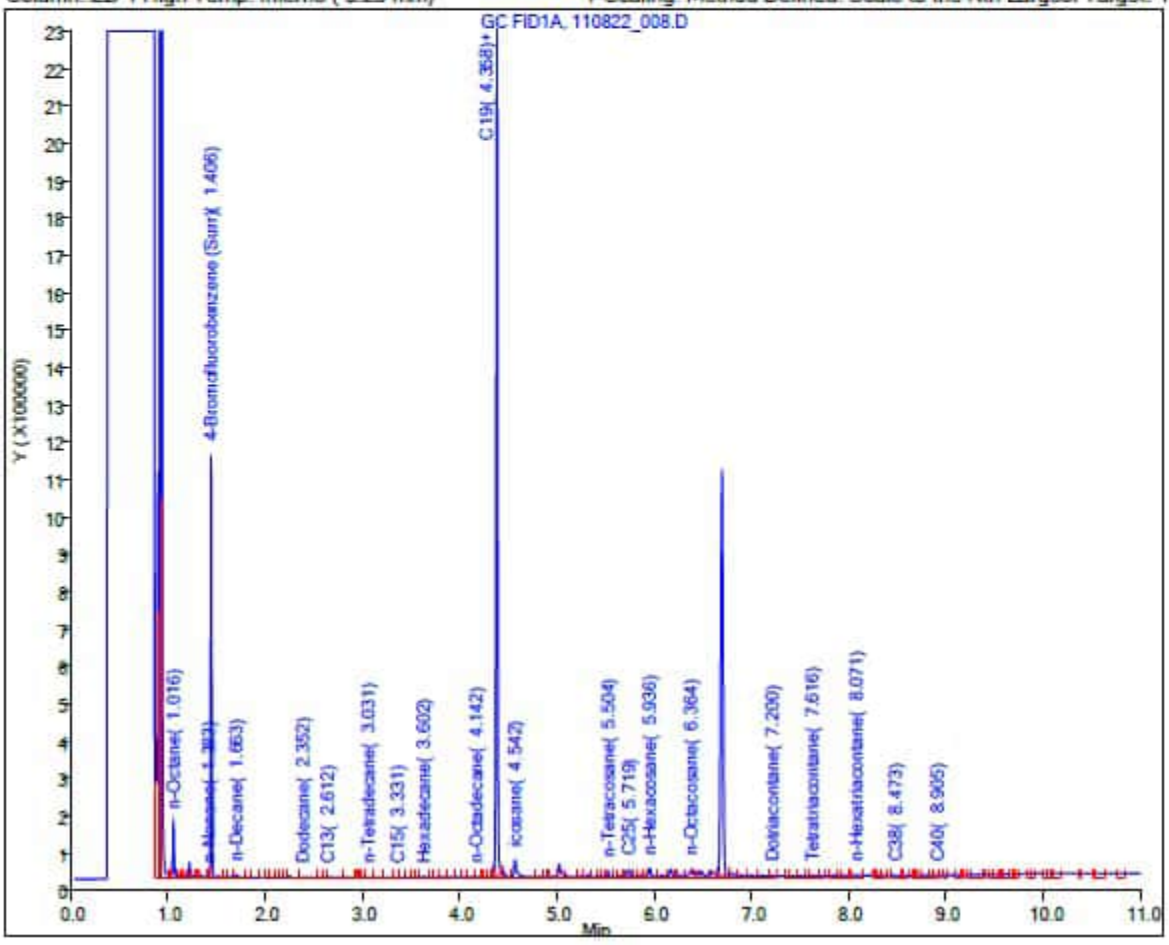
Results (ug/L): **TPH-d (C10 to C24) <78 U** **TPH-o (C24 to C40) <230 U**

Report Date: 08-Nov-2022 22:43:22 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_008.D		
Injection Date:	08-Nov-2022 19:51:30	Instrument ID:	TAC020
Lims ID:	580-119523-O-6-A	Lab Sample ID:	580-119523-6
Client ID:	RHMW08-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	7 Worklist Smp#: 7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN02B-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

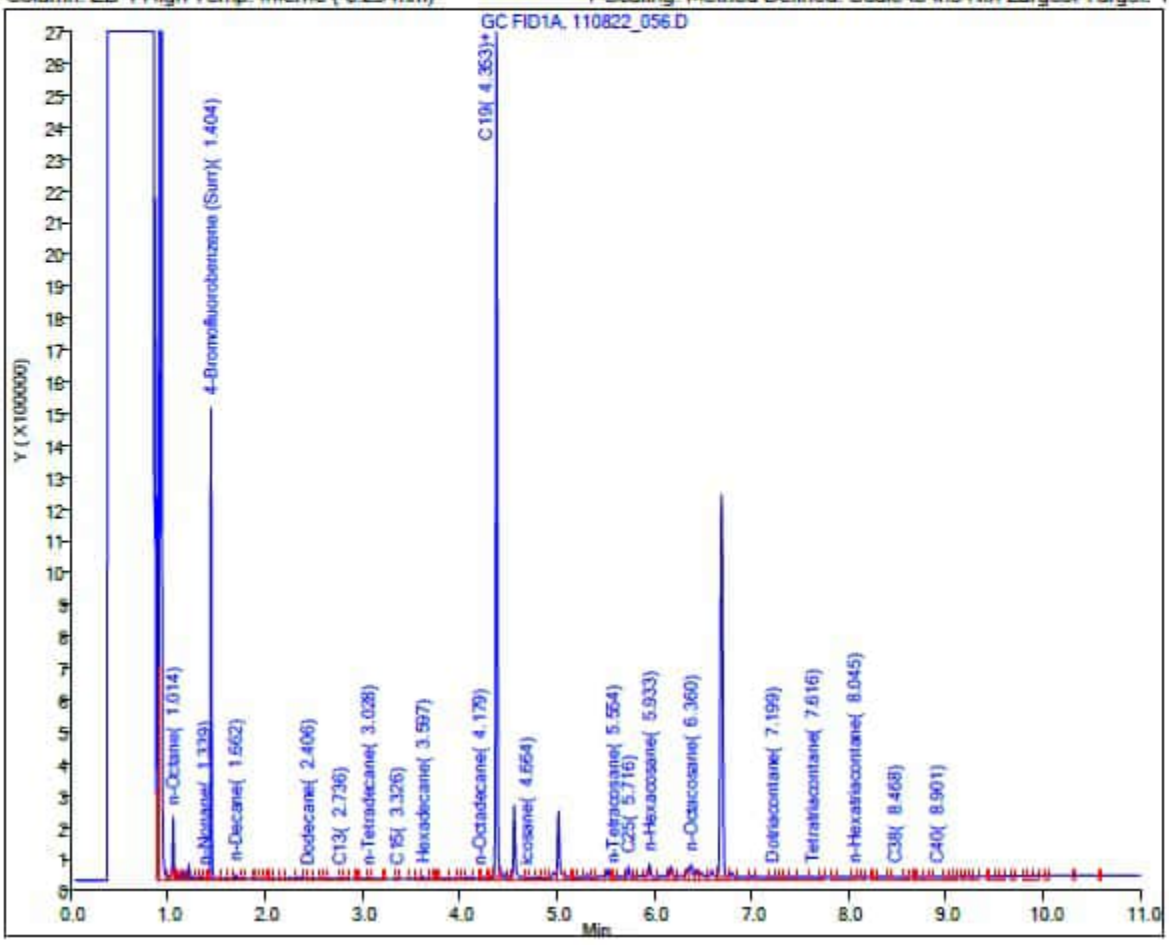
Results (ug/L): **TPH-d (C10 to C24) <85 U** **TPH-o (C24 to C40) <250 U**

Report Date: 09-Nov-2022 14:01:09 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_056.D				
Injection Date:	09-Nov-2022 11:59:30	Instrument ID:	TAC020		
Lims ID:	580-119623-O-12-A	Lab Sample ID:	580-119623-12		
Client ID:	RHMW08-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	55	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

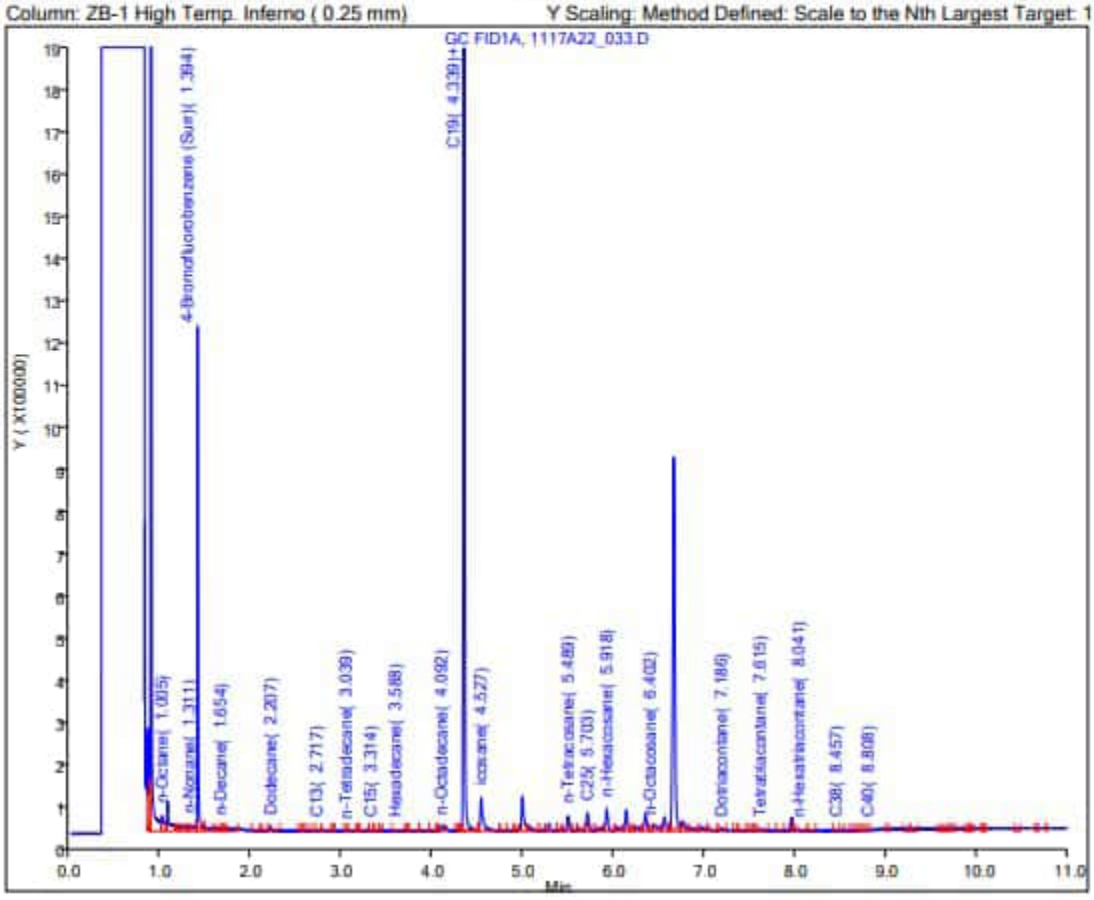
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 18-Nov-2022 12:02:19 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_033.D				
Injection Date:	18-Nov-2022 06:21:30	Instrument ID:	TAC020		
Lims ID:	580-120022-O-10-A	Lab Sample ID:	580-120022-10		
Client ID:	RHMW08-WGN01B-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	32	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2211WK3 Sample Date: 11/19/2022
Lab: Eurofins Seattle

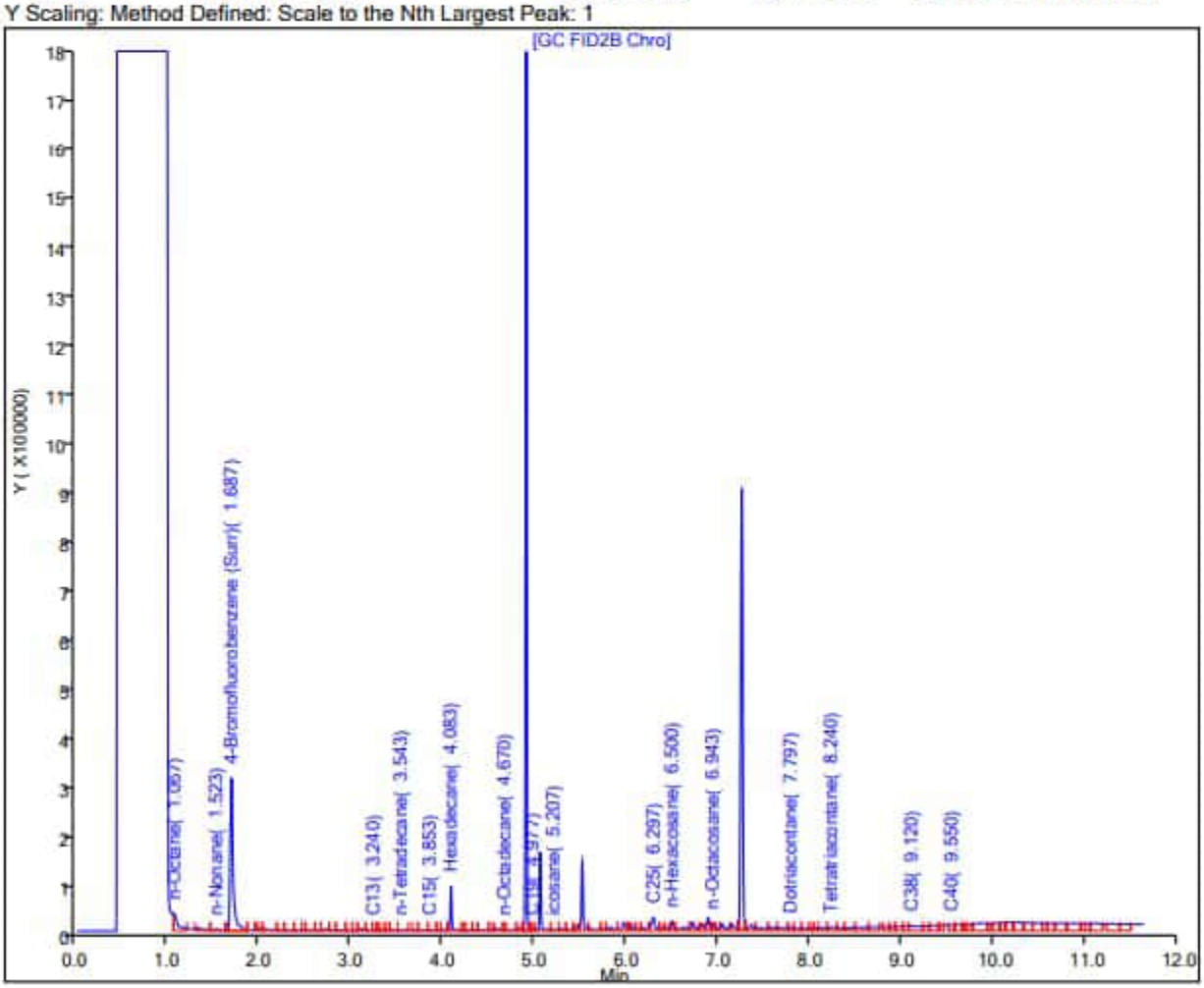
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 29-Nov-2022 13:23:35 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A013.D				
Injection Date:	28-Nov-2022 18:03:00	Instrument ID:	TAC129_R		
Lims ID:	580-120311-O-3-A	Lab Sample ID:	580-120311-3		
Client ID:	RHMW08-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN02B-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

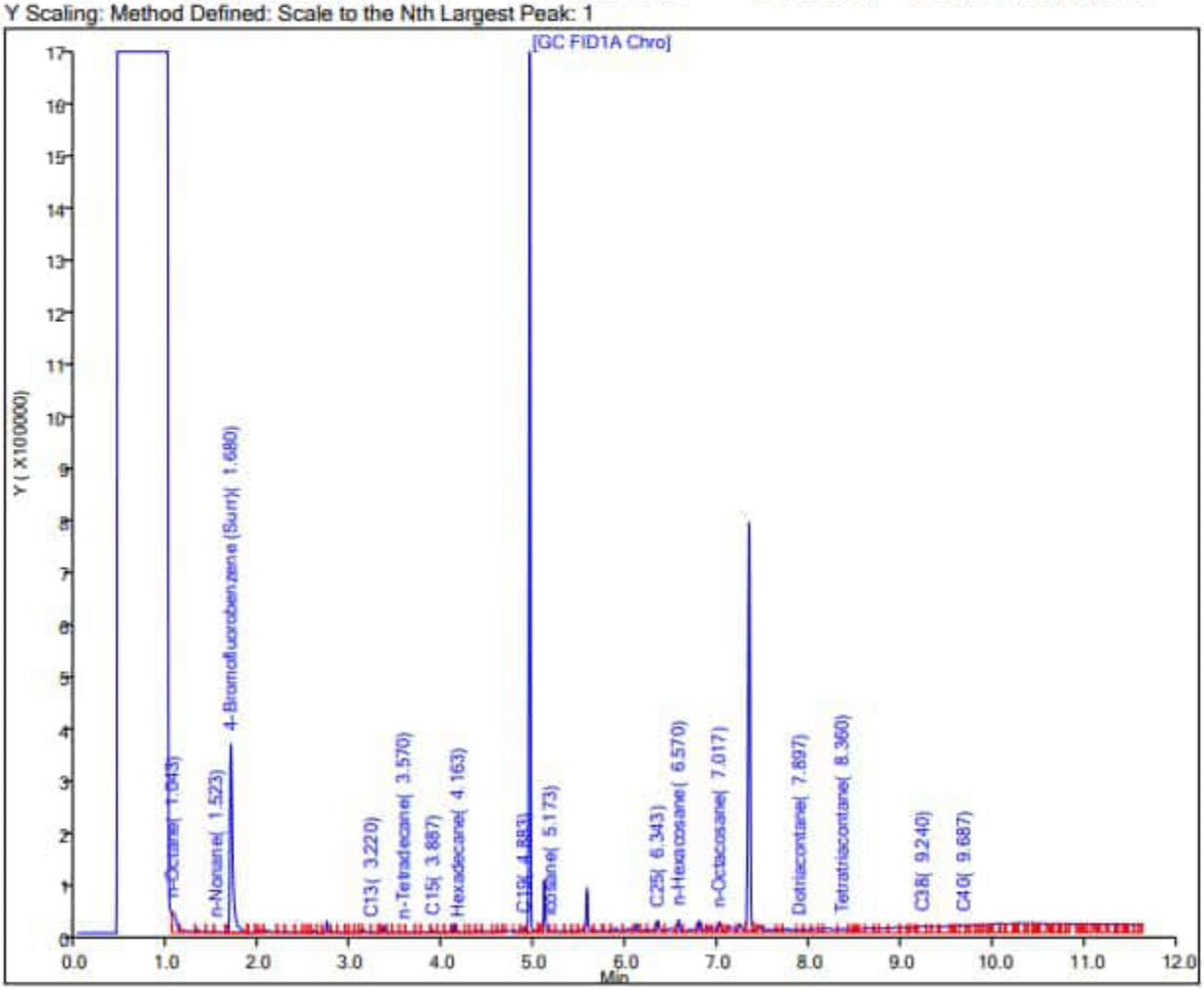
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:18:42 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A030.D				
Injection Date:	29-Nov-2022 22:26:32	Instrument ID:	TAC129		
Lims ID:	580-120389-N-3-A	Lab Sample ID:	580-120389-3		
Client ID:	RHMW08-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015D-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW08** Sample ID: RHMW08-WGN01B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

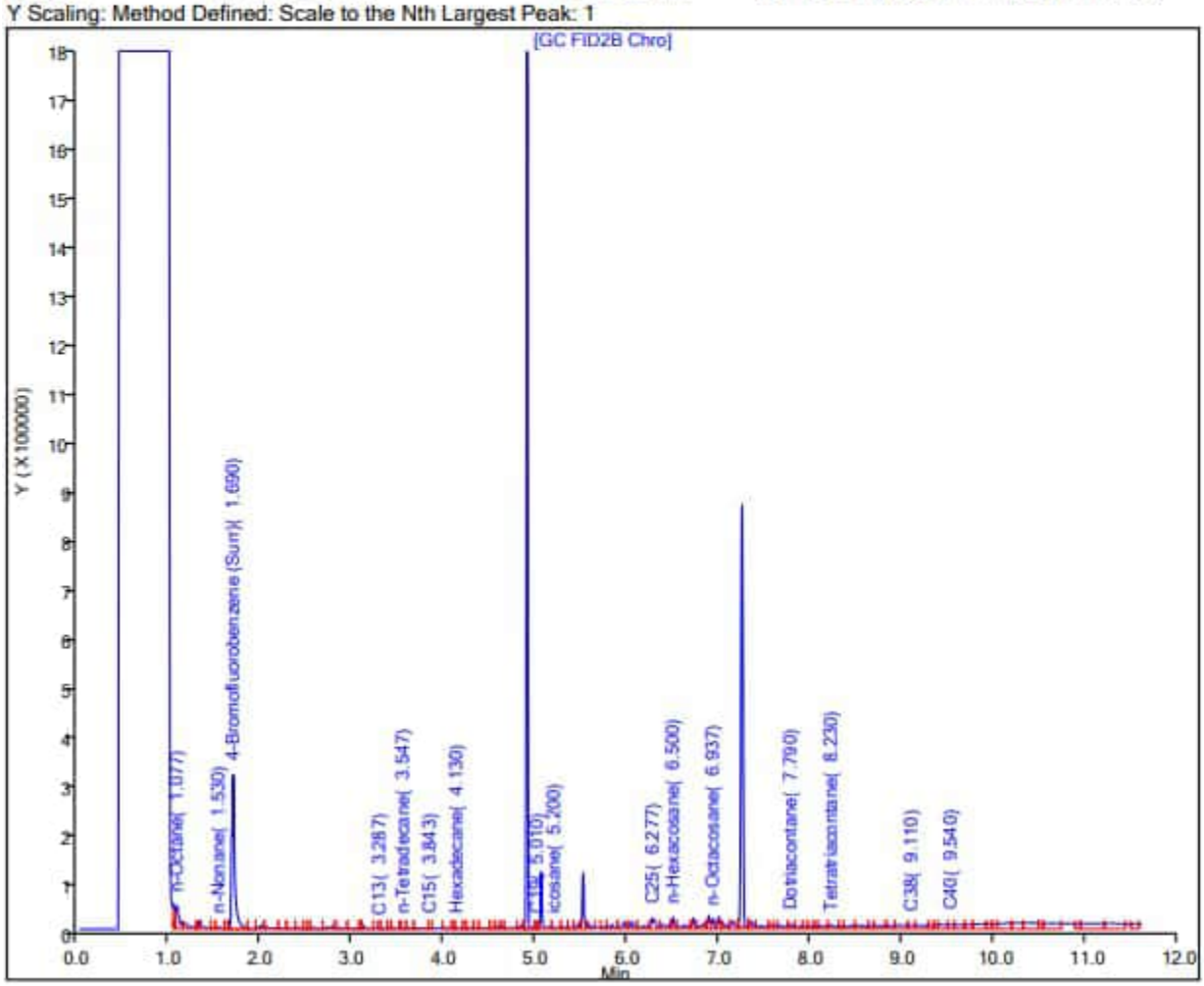
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 07-Dec-2022 12:59:13 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A035.D				
Injection Date:	07-Dec-2022 01:46:50	Instrument ID:	TAC129_R		
Lims ID:	580-120703-O-14-A	Lab Sample ID:	580-120703-14		
Client ID:	RHMW08-WGN01B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2208WK2 Sample Date: 8/8/2022
Lab: Eurofins Seattle

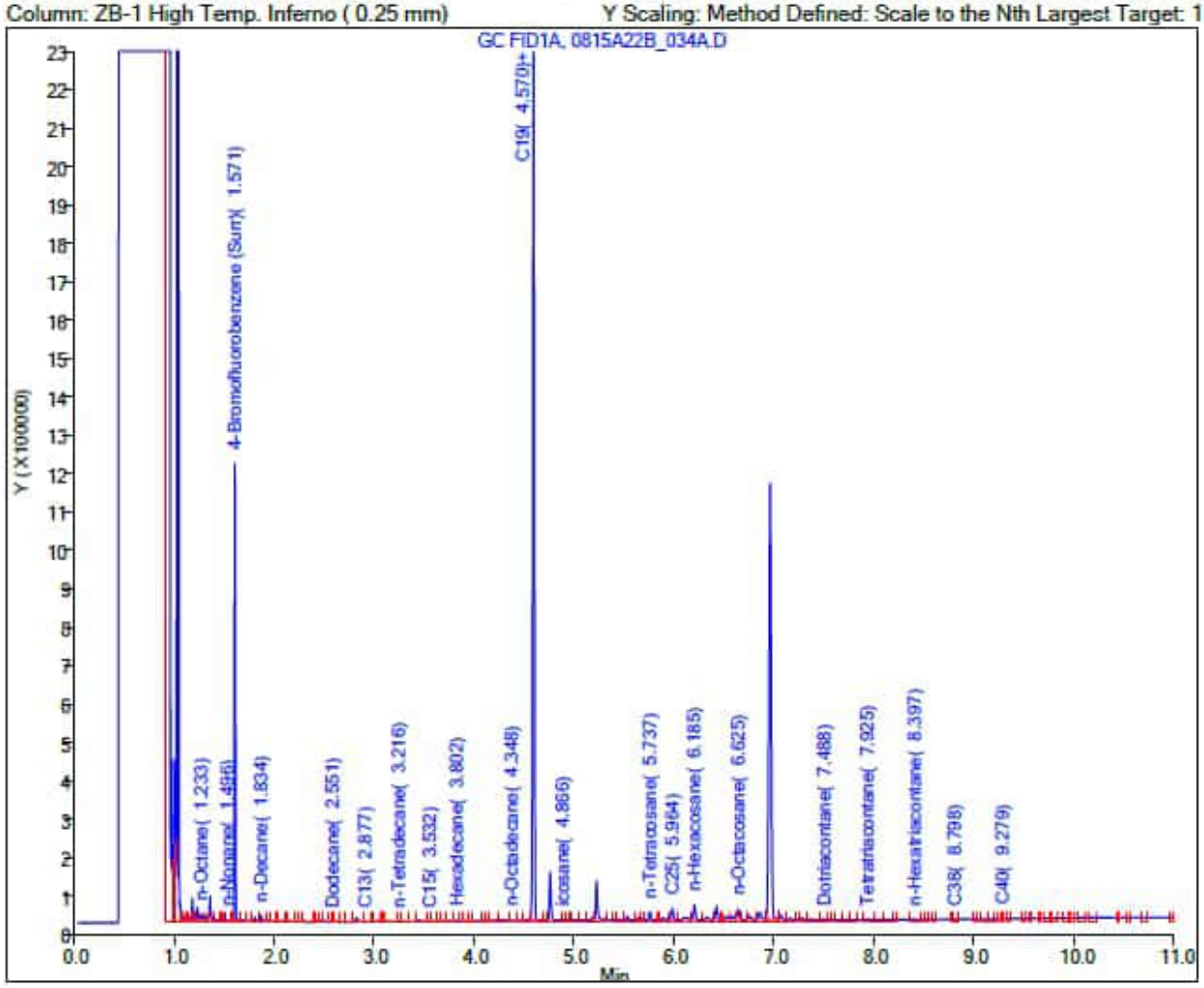
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Aug-2022 20:01:17 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_034A.D				
Injection Date:	16-Aug-2022 05:58:30	Instrument ID:	TAC020		
Lims ID:	580-116749-D-3-A	Lab Sample ID:	580-116749-3		
Client ID:	RHMW09-WGN01B-2208WK2				
Operator ID:	DH	ALS Bottle#:	34	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2209WK1 Sample Date: 9/7/2022
Lab: Eurofins Seattle

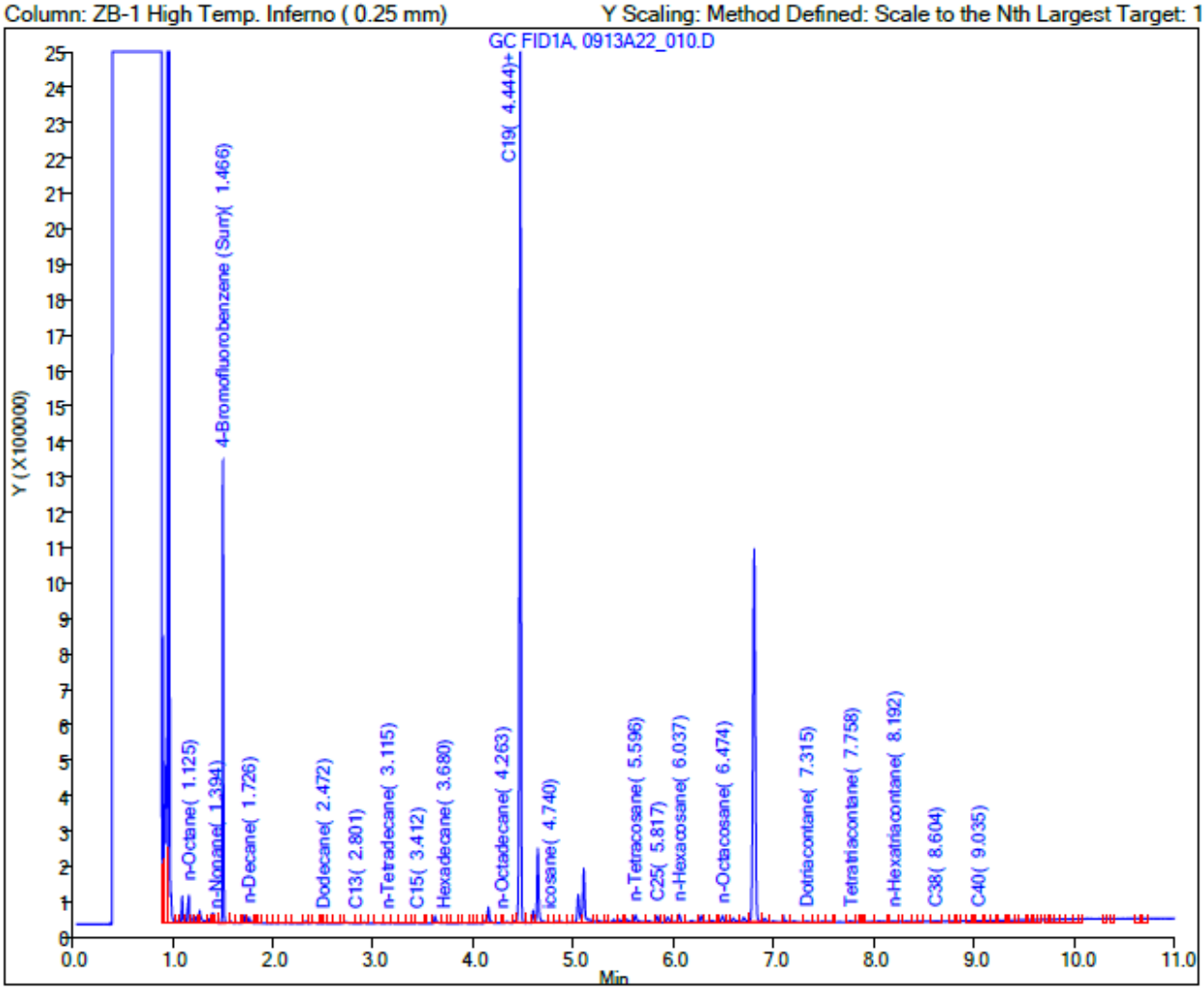
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Sep-2022 13:58:16 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_010.D				
Injection Date:	13-Sep-2022 22:40:30	Instrument ID:	TAC020		
Lims ID:	580-117675-F-7-A	Lab Sample ID:	580-117675-7		
Client ID:	RHMW09-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2209WK2 Sample Date: 9/12/2022
Lab: Eurofins Seattle

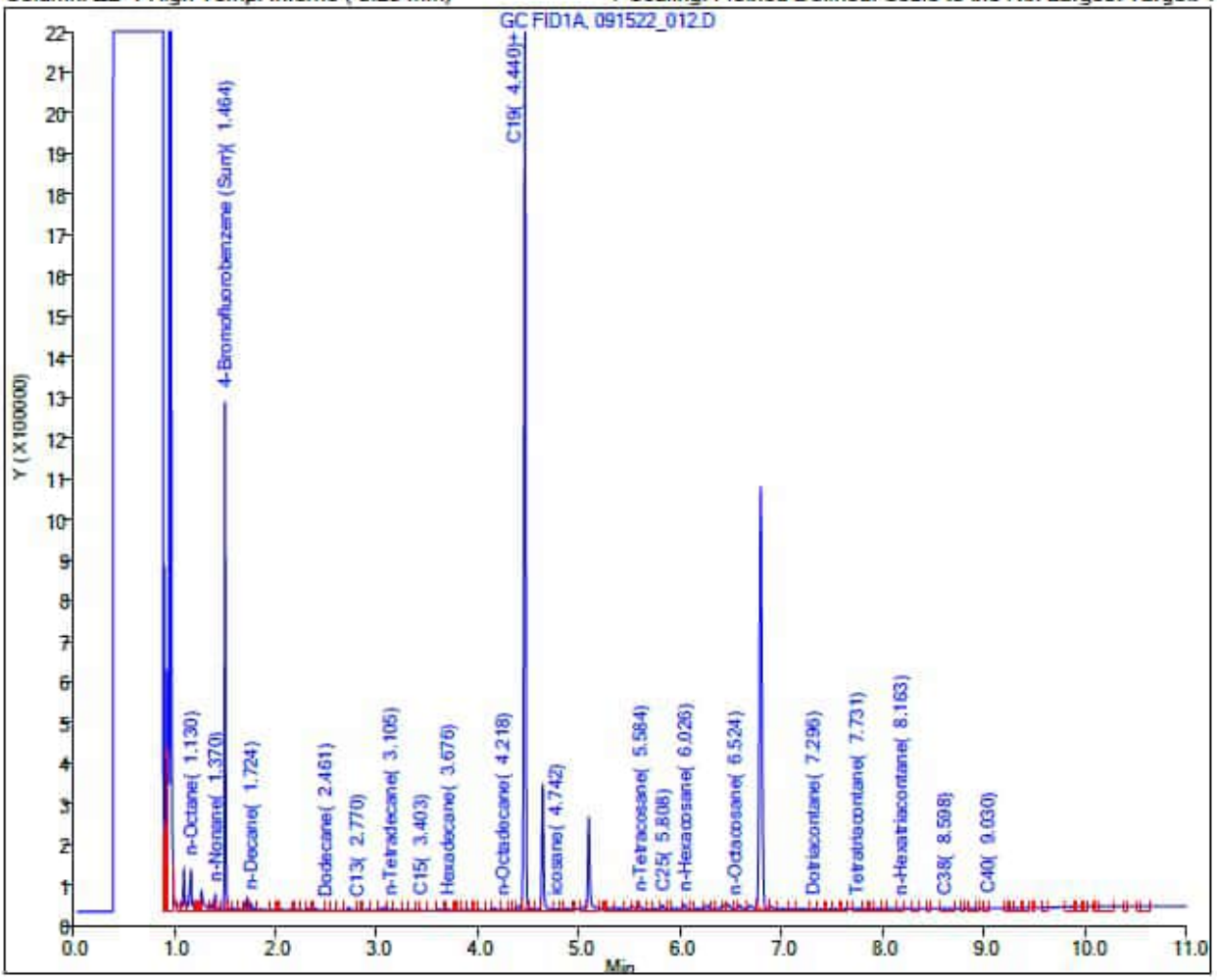
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Sep-2022 14:26:29 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_012.D				
Injection Date:	15-Sep-2022 21:26:30	Instrument ID:	TAC020		
Lims ID:	580-117801-F-1-A	Lab Sample ID:	580-117801-1		
Client ID:	RHMW09-WGN01B-2209WK2				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2210WK1 Sample Date: 10/3/2022
Lab: Eurofins Seattle

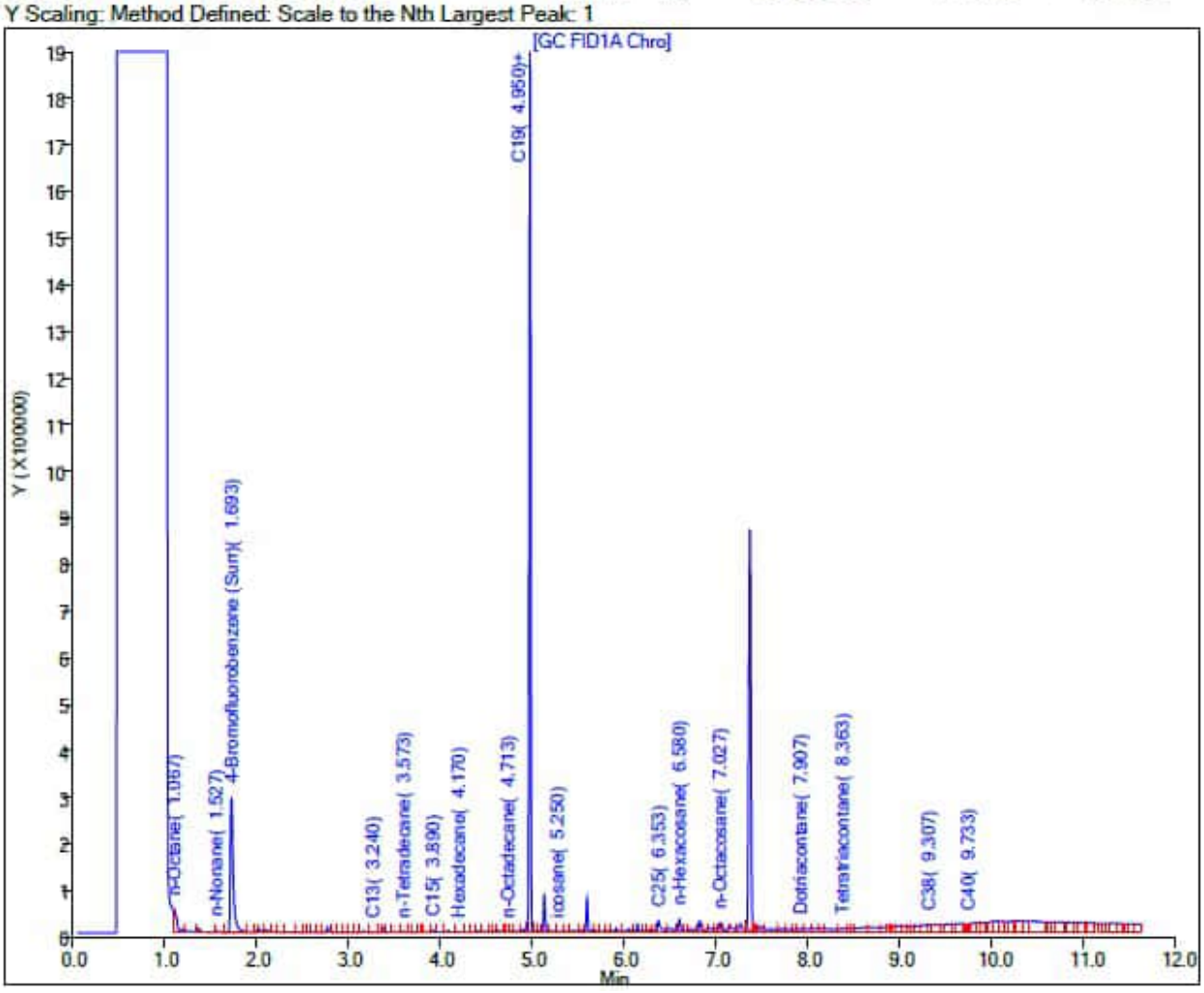
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 10-Oct-2022 02:27:52 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221007-85244.b\100722A014.D		
Injection Date:	07-Oct-2022 21:18:18	Instrument ID:	TAC129
Lims ID:	580-118575-E-1-A	Lab Sample ID:	580-118575-1
Client ID:	RHMW09-WGN01B-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

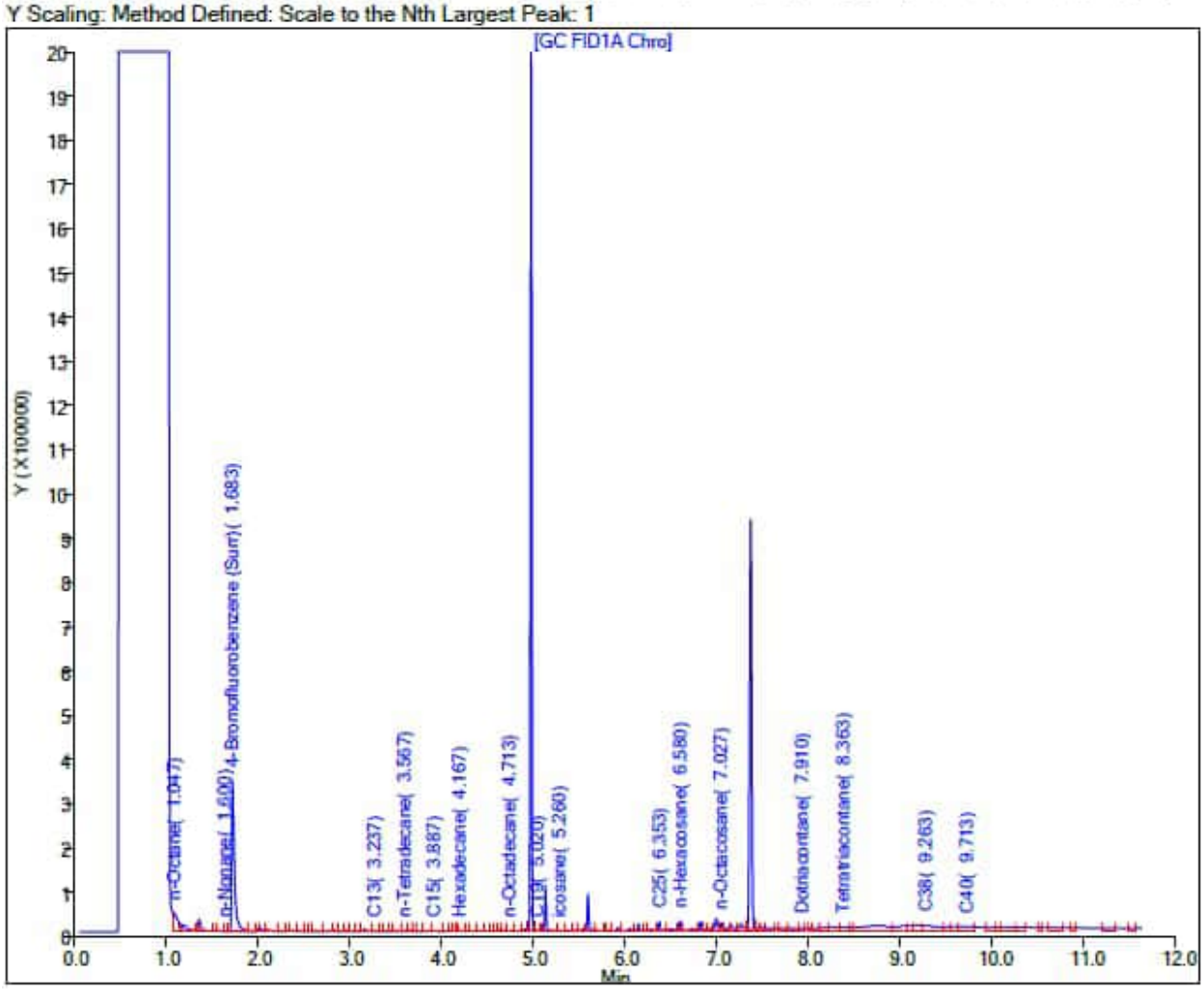
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 21-Oct-2022 16:26:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221020-85417.b\102022A020.D				
Injection Date:	20-Oct-2022 21:24:12	Instrument ID:	TAC129		
Lims ID:	580-118888-E-1-A	Lab Sample ID:	580-118888-1		
Client ID:	RHMW09-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

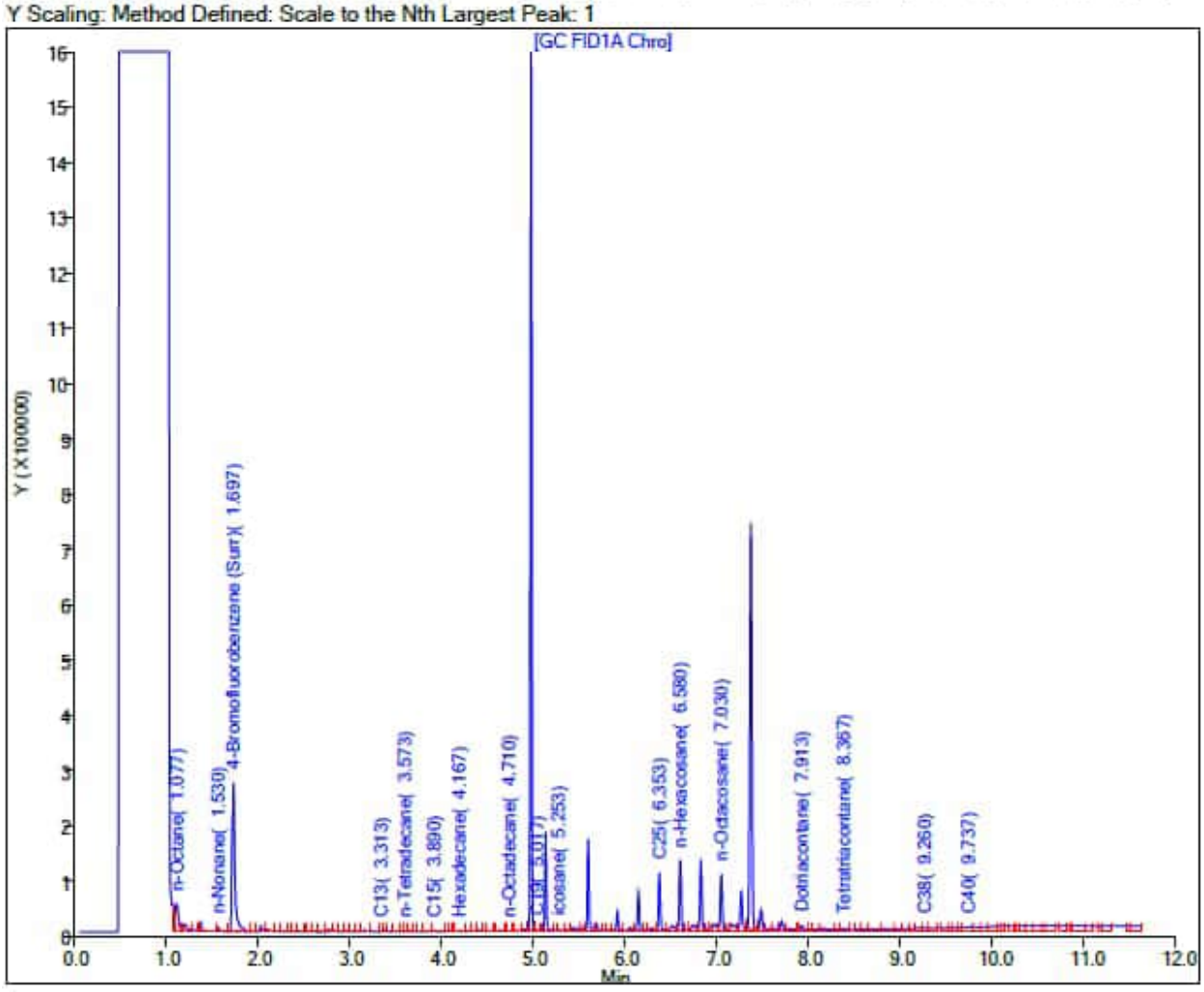
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:37:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A026.D				
Injection Date:	21-Oct-2022 21:24:06	Instrument ID:	TAC129		
Lims ID:	580-118934-O-5-A	Lab Sample ID:	580-118934-5		
Client ID:	RHMW09-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN02B-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

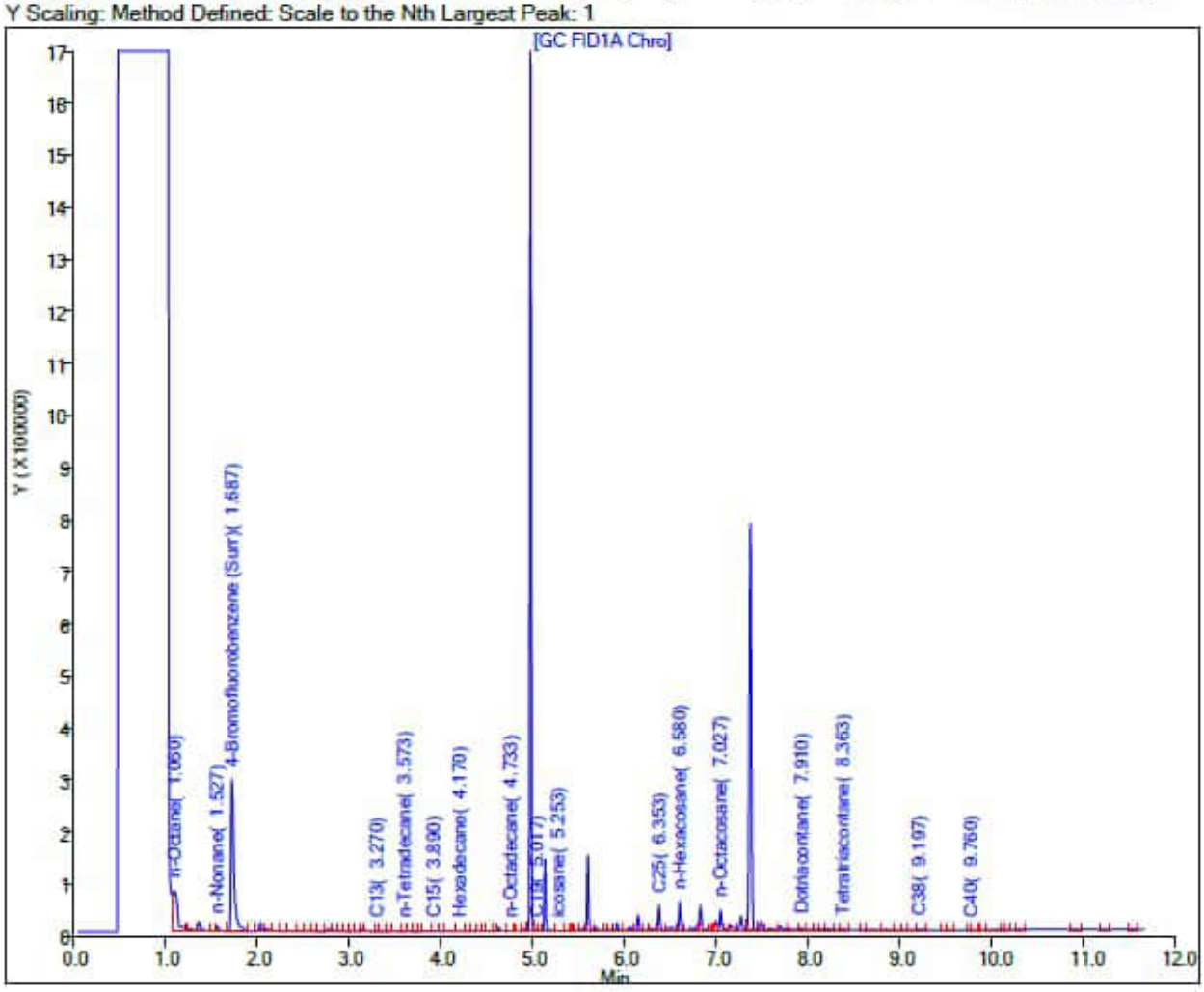
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:36:46 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A026.D				
Injection Date:	25-Oct-2022 23:42:17	Instrument ID:	TAC129		
Lims ID:	580-119014-N-1-A	Lab Sample ID:	580-119014-1		
Client ID:	RHMW09-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

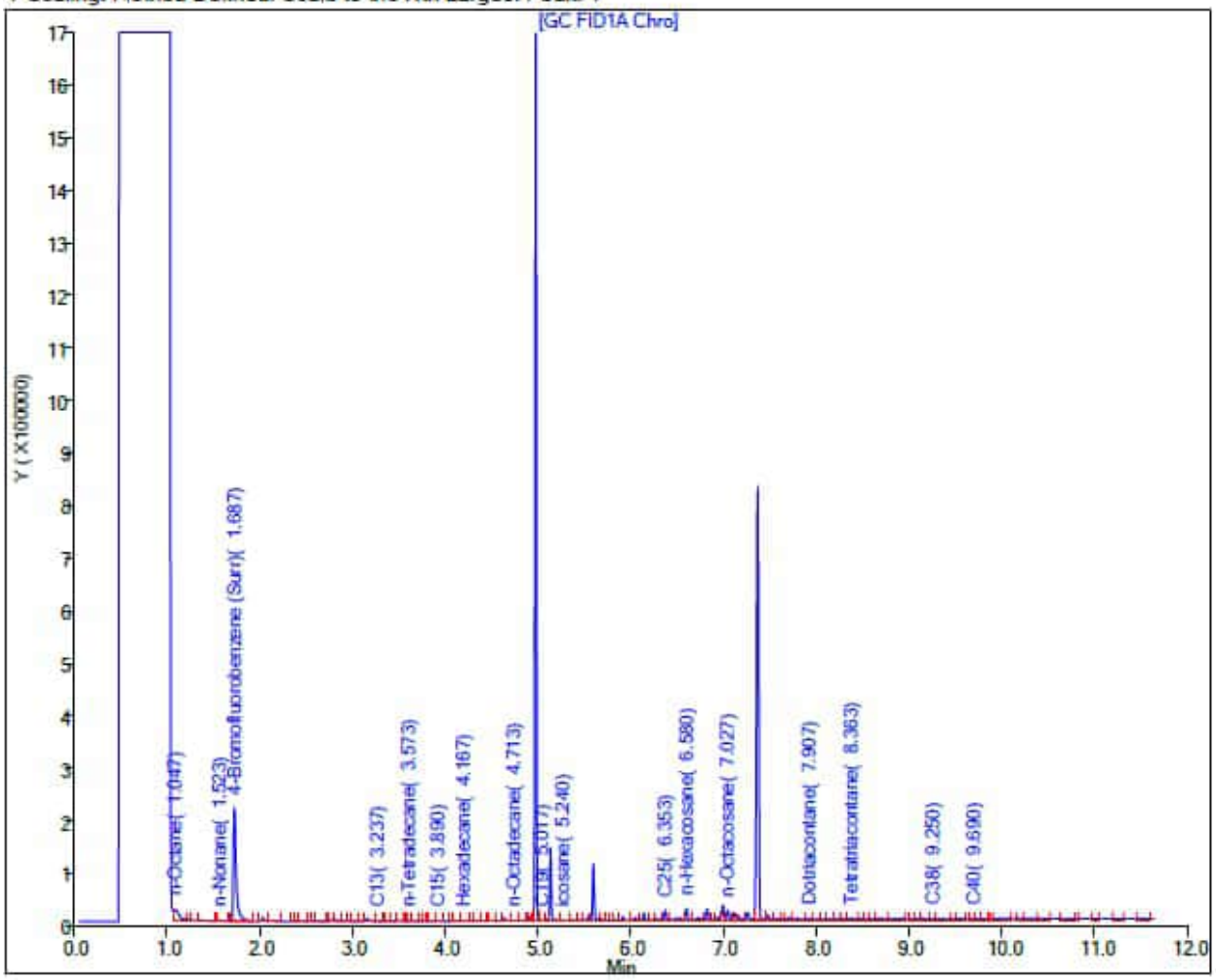
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:51:02 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A042.D				
Injection Date:	29-Oct-2022 01:50:29	Instrument ID:	TAC129		
Lims ID:	580-119162-O-5-A	Lab Sample ID:	580-119162-5		
Client ID:	RHMW09-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN02B-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

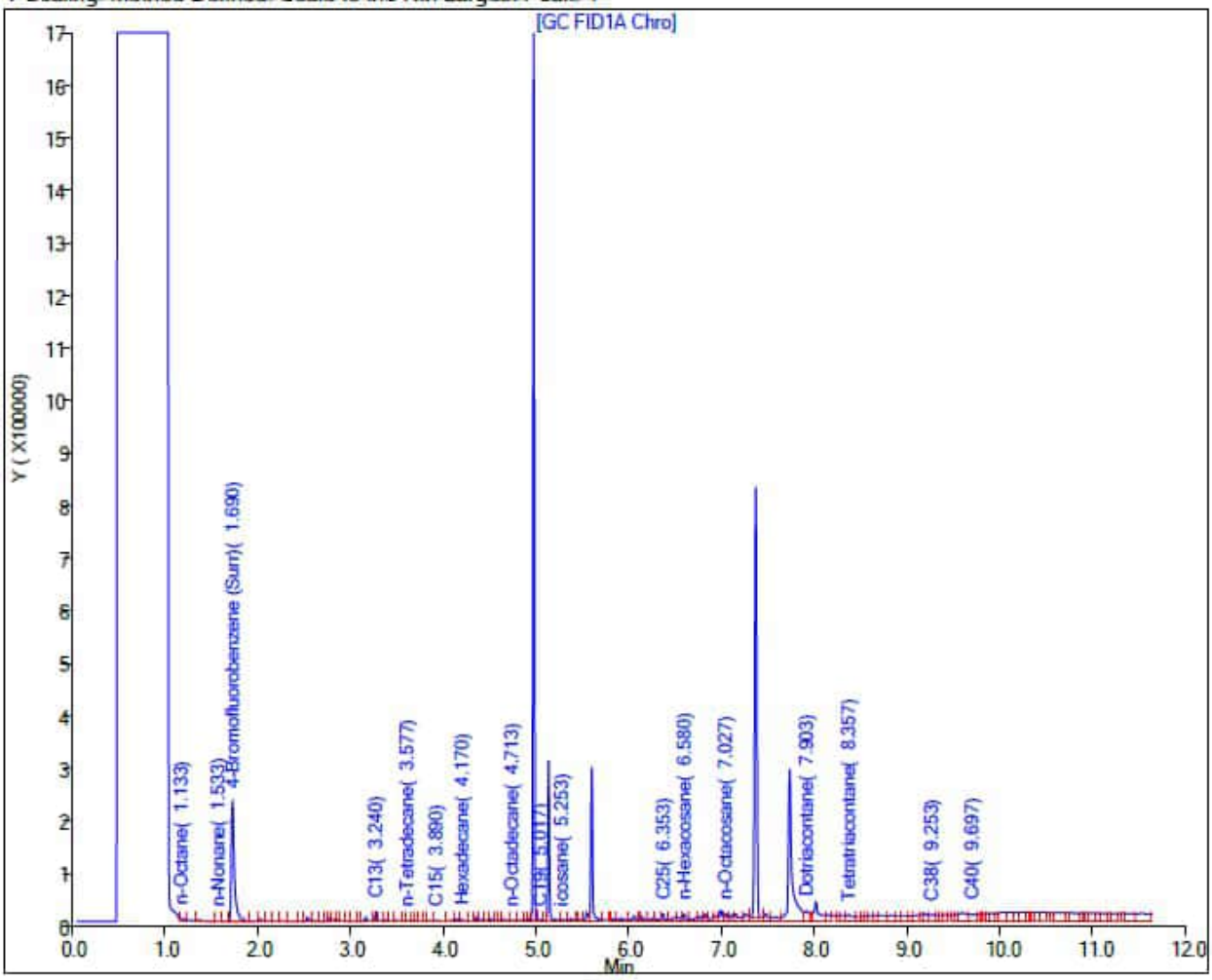
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 01-Nov-2022 20:37:38 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221101-85571.b\110122A008.D				
Injection Date:	01-Nov-2022 17:01:24	Instrument ID:	TAC129		
Lims ID:	580-119342-N-1-A	Lab Sample ID:	580-119342-1		
Client ID:	RHMW09-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

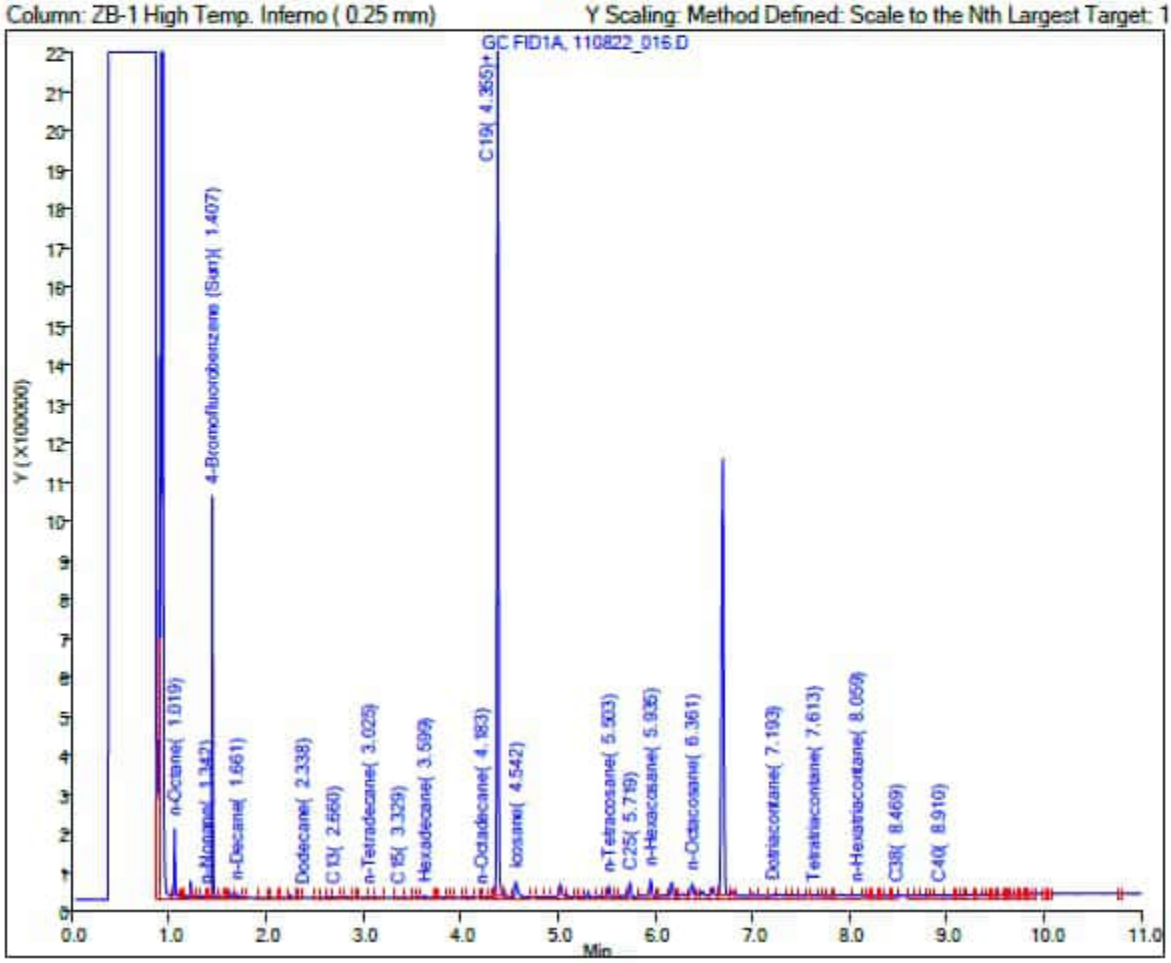
Results (ug/L): **TPH-d (C10 to C24) <86 U** **TPH-o (C24 to C40) <260 U**

Report Date: 09-Nov-2022 13:54:22 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_016.D		
Injection Date:	08-Nov-2022 22:33:30	Instrument ID:	TAC020
Lims ID:	580-119523-N-12-A	Lab Sample ID:	580-119523-12
Client ID:	RHMW09-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	15 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN02B-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

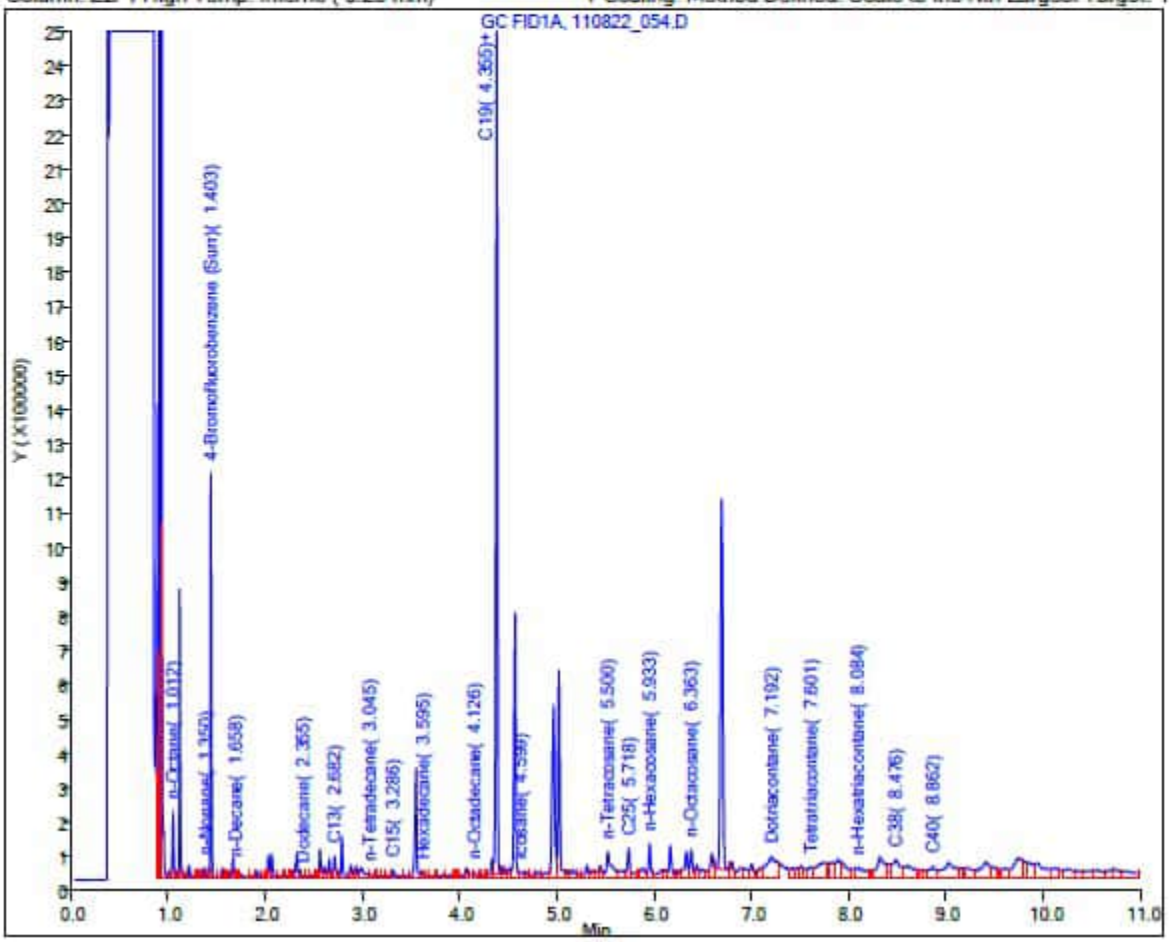
Results (ug/L): **TPH-d (C10 to C24) <170** **TPH-o (C24 to C40) 240 J**

Report Date: 09-Nov-2022 14:00:46 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_054.D		
Injection Date:	09-Nov-2022 11:19:30	Instrument ID:	TAC020
Lims ID:	580-119623-O-10-A	Lab Sample ID:	580-119623-10
Client ID:	RHMW09-WGN02B-2210WK5		
Operator ID:	DH	ALS Bottle#:	53 Worklist Smp#: 53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



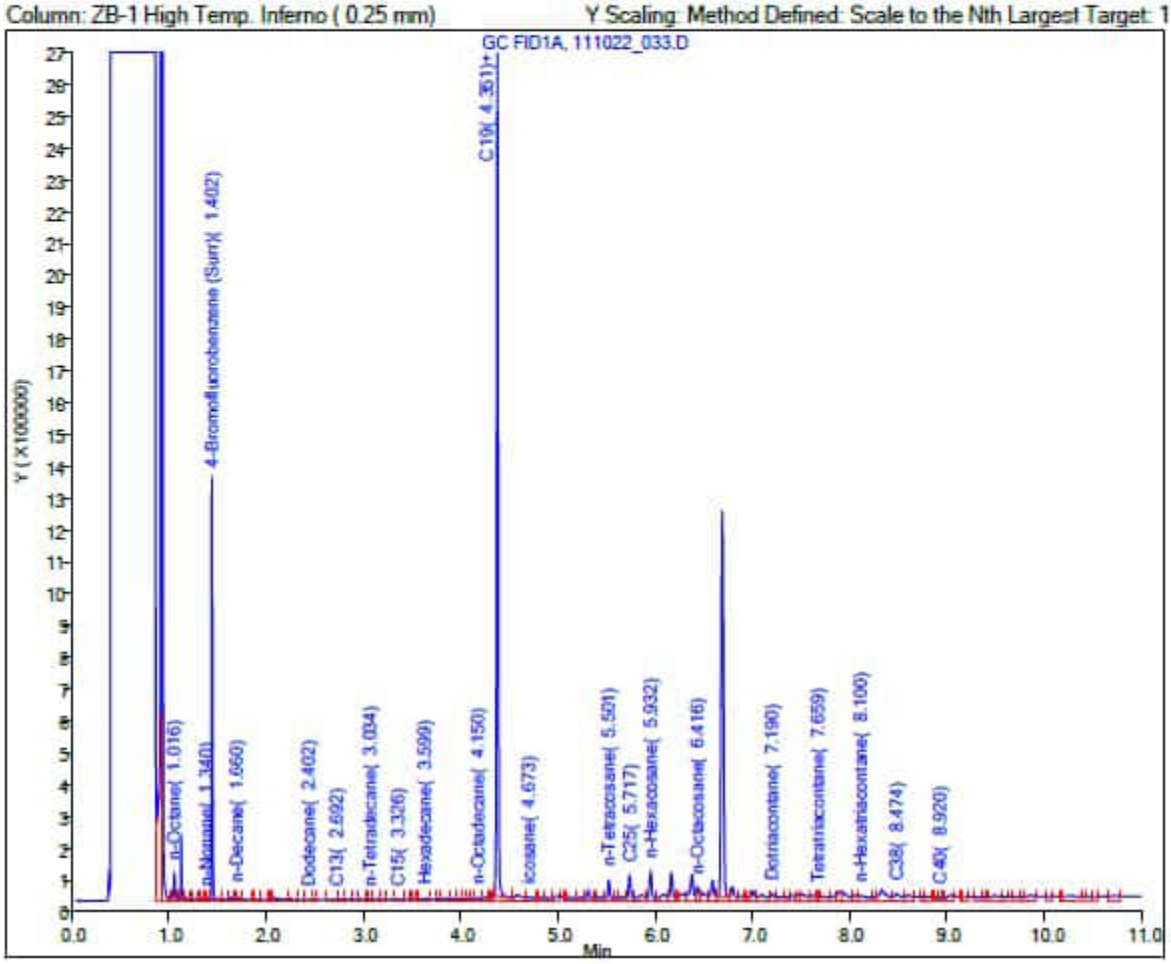
Results (ug/L): **TPH-d SGC (C10 to C24) <80 U** **TPH-o SGC (C24 to C40) <240 U**

Report Date: 14-Nov-2022 09:35:32 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221110-85724.b\111022_033.D				
Injection Date:	11-Nov-2022 04:47:30	Instrument ID:	TAC020		
Lims ID:	580-119623-O-10-B	Lab Sample ID:	580-119623-10		
Client ID:	RHMW09-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	32	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW09** Sample ID: RHMW09-WGN01B-2211WK1 Sample Date: 11/7/2022
Lab: Eurofins Seattle

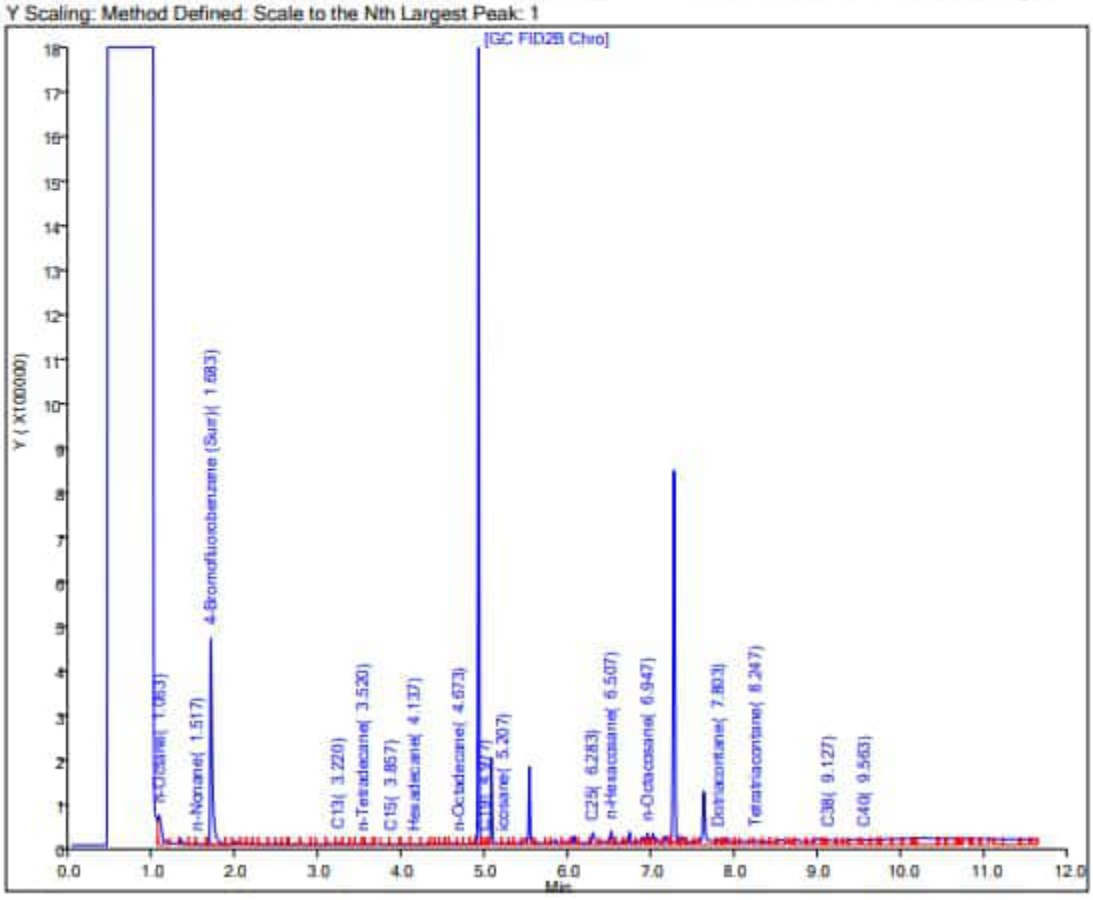
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Nov-2022 13:32:22 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A029.D		
Injection Date:	12-Nov-2022 03:46:37	Instrument ID:	TAC129_R
Lims ID:	580-119804-O-13-A	Lab Sample ID:	580-119804-13
Client ID:	RHMW09-WGN01B-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN01B-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

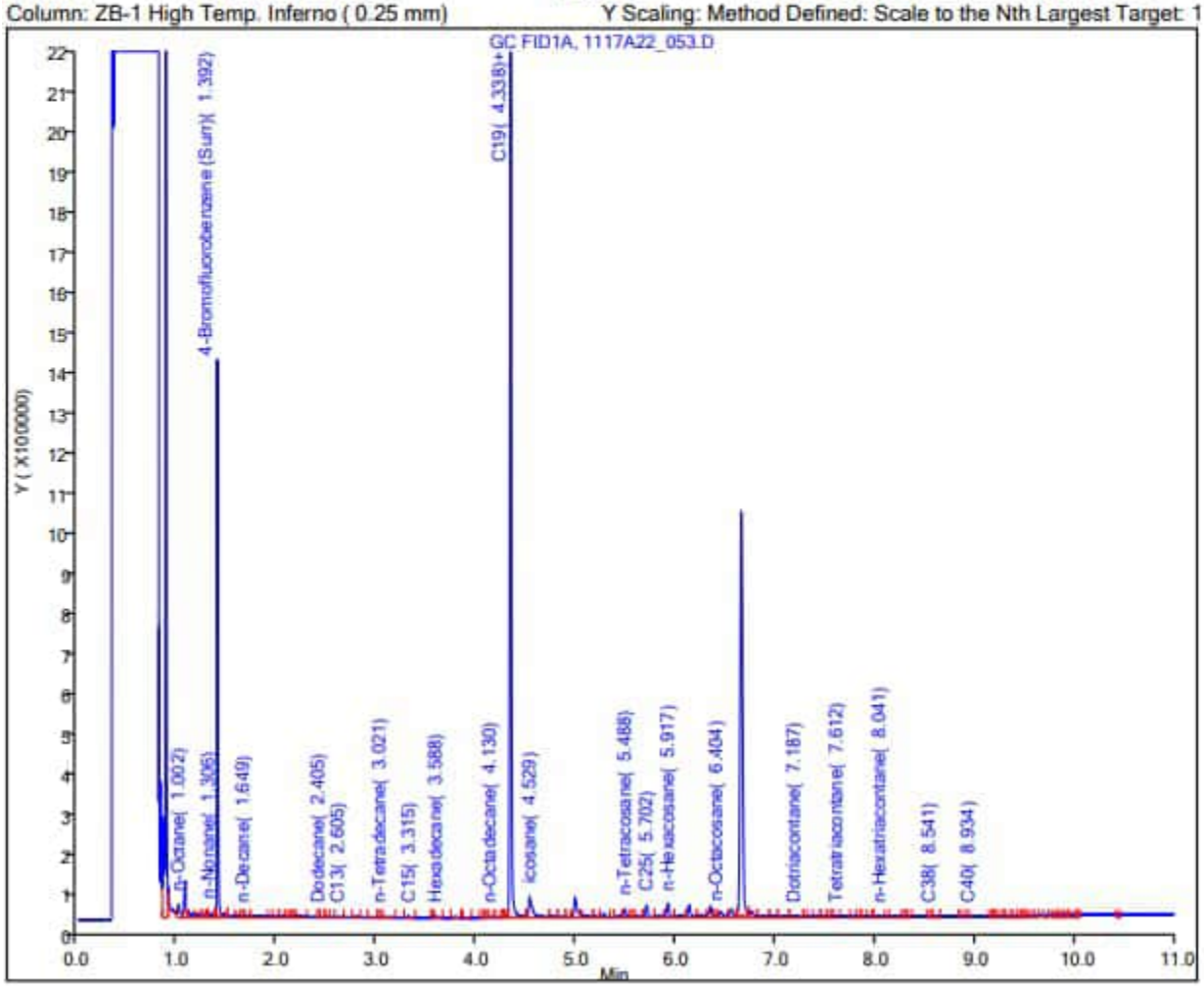
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 18-Nov-2022 20:35:09 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_053.D				
Injection Date:	18-Nov-2022 13:04:30	Instrument ID:	TAC020		
Lims ID:	580-120090-O-3-A	Lab Sample ID:	580-120090-3		
Client ID:	RHMW09-WGN01B-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	52	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW09** Sample ID: RHMW09-WGN02B-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

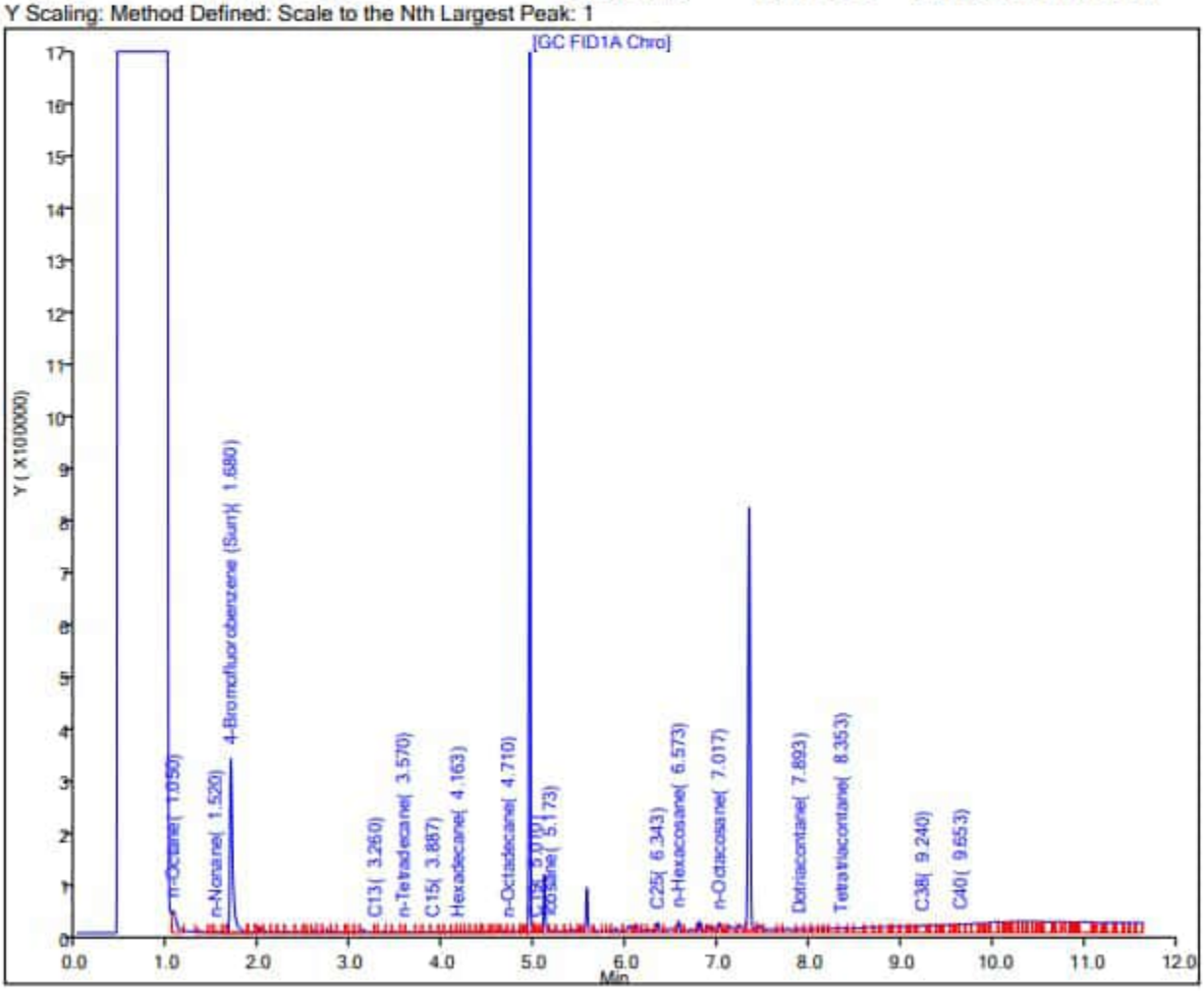
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:18:09 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A014.D				
Injection Date:	29-Nov-2022 19:57:08	Instrument ID:	TAC129		
Lims ID:	580-120344-O-8-A	Lab Sample ID:	580-120344-8		
Client ID:	RHMW09-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2208WK3 Sample Date: 8/17/2022

Lab: Eurofins Seattle

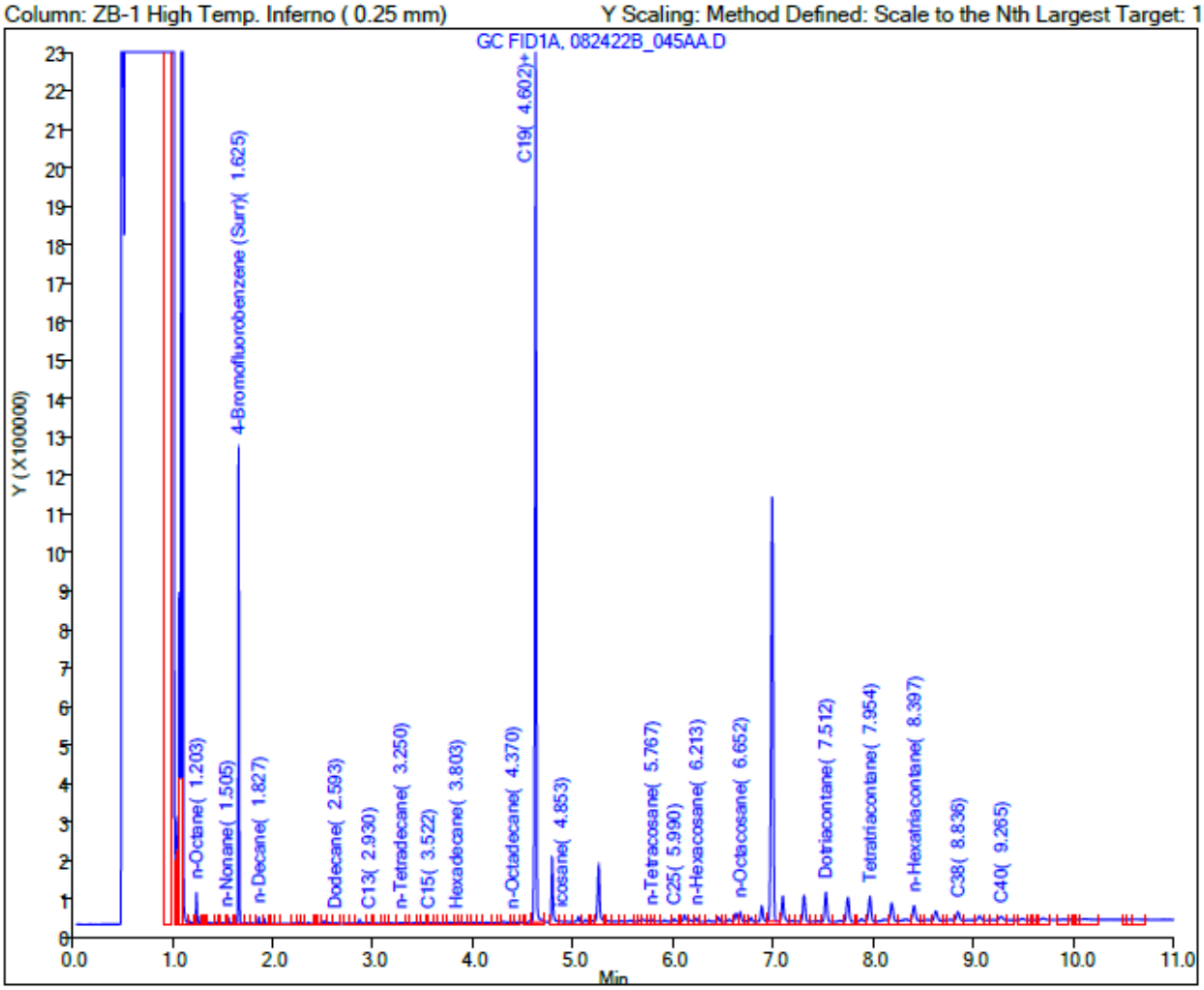
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Aug-2022 15:03:23 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_045AA.D				
Injection Date:	25-Aug-2022 11:28:30	Instrument ID:	TAC020		
Lims ID:	580-117085-E-8-A	Lab Sample ID:	580-117085-8		
Client ID:	RHMW11-05-WGN01G-2208WK3				
Operator ID:	DH	ALS Bottle#:	44	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2209WK1 Sample Date: 9/7/2022

Lab: Eurofins Seattle

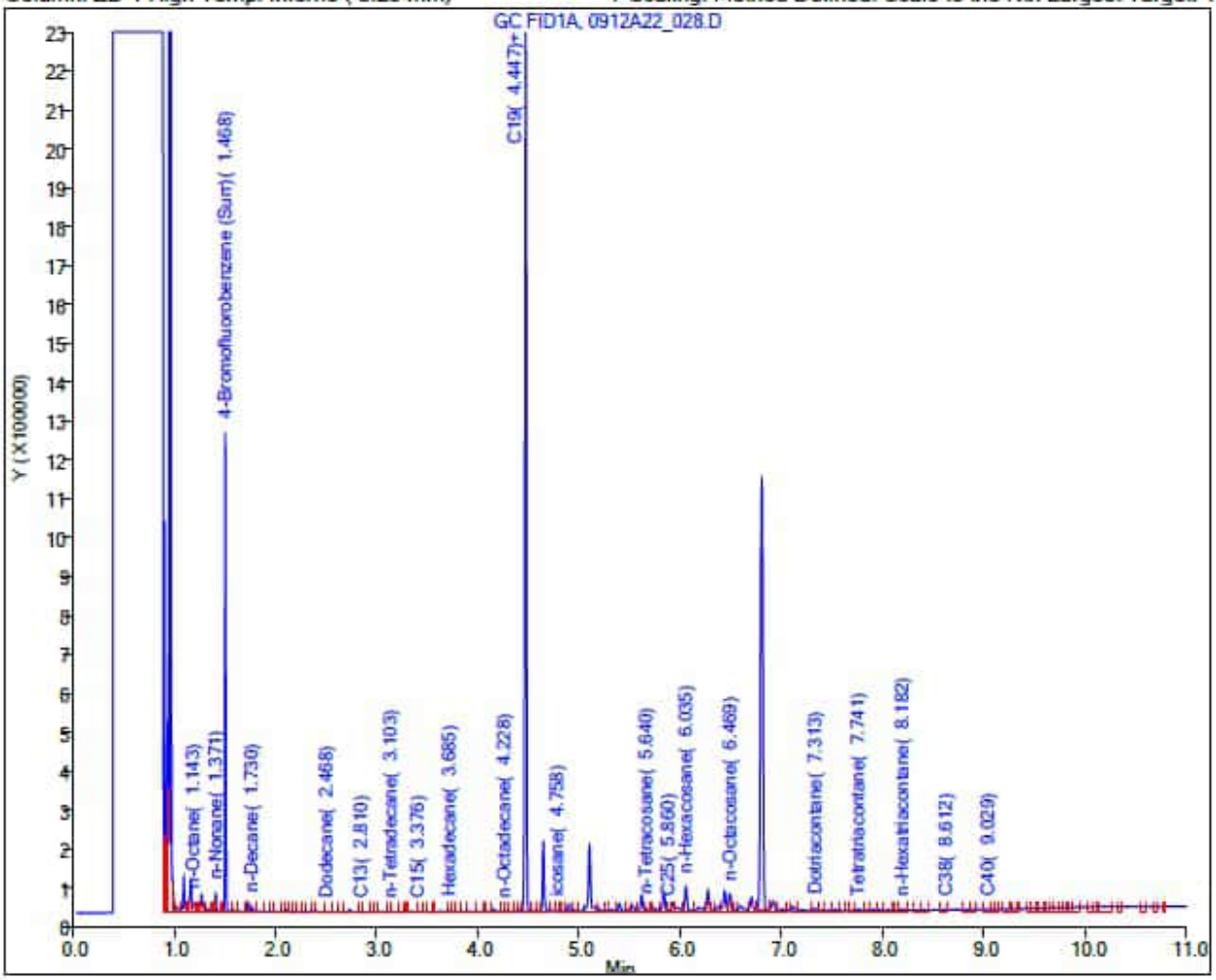
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 13-Sep-2022 12:03:21 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_028.D				
Injection Date:	13-Sep-2022 02:22:30	Instrument ID:	TAC020		
Lims ID:	580-117706-F-9-A	Lab Sample ID:	580-117706-9		
Client ID:	RHMW11-05-WGN01G-2209WK1				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2209WK2 Sample Date: 9/13/2022

Lab: Eurofins Seattle

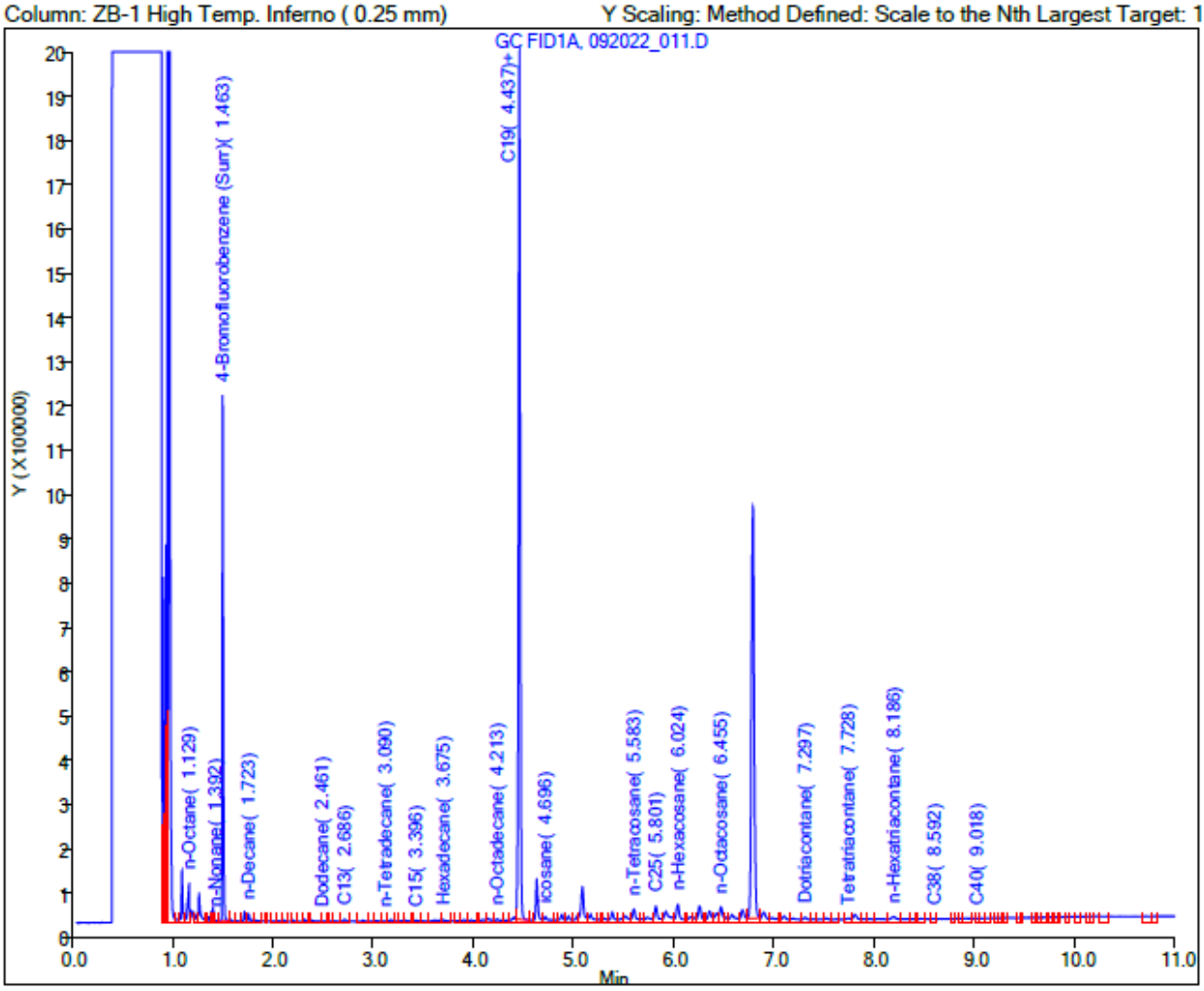
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 21-Sep-2022 13:08:17 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_011.D				
Injection Date:	20-Sep-2022 21:19:30	Instrument ID:	TAC020		
Lims ID:	580-117907-F-1-A	Lab Sample ID:	580-117907-1		
Client ID:	RHMW11-05-WGN01G-2209WK2				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2209WK3 Sample Date: 9/20/2022

Lab: Eurofins Seattle

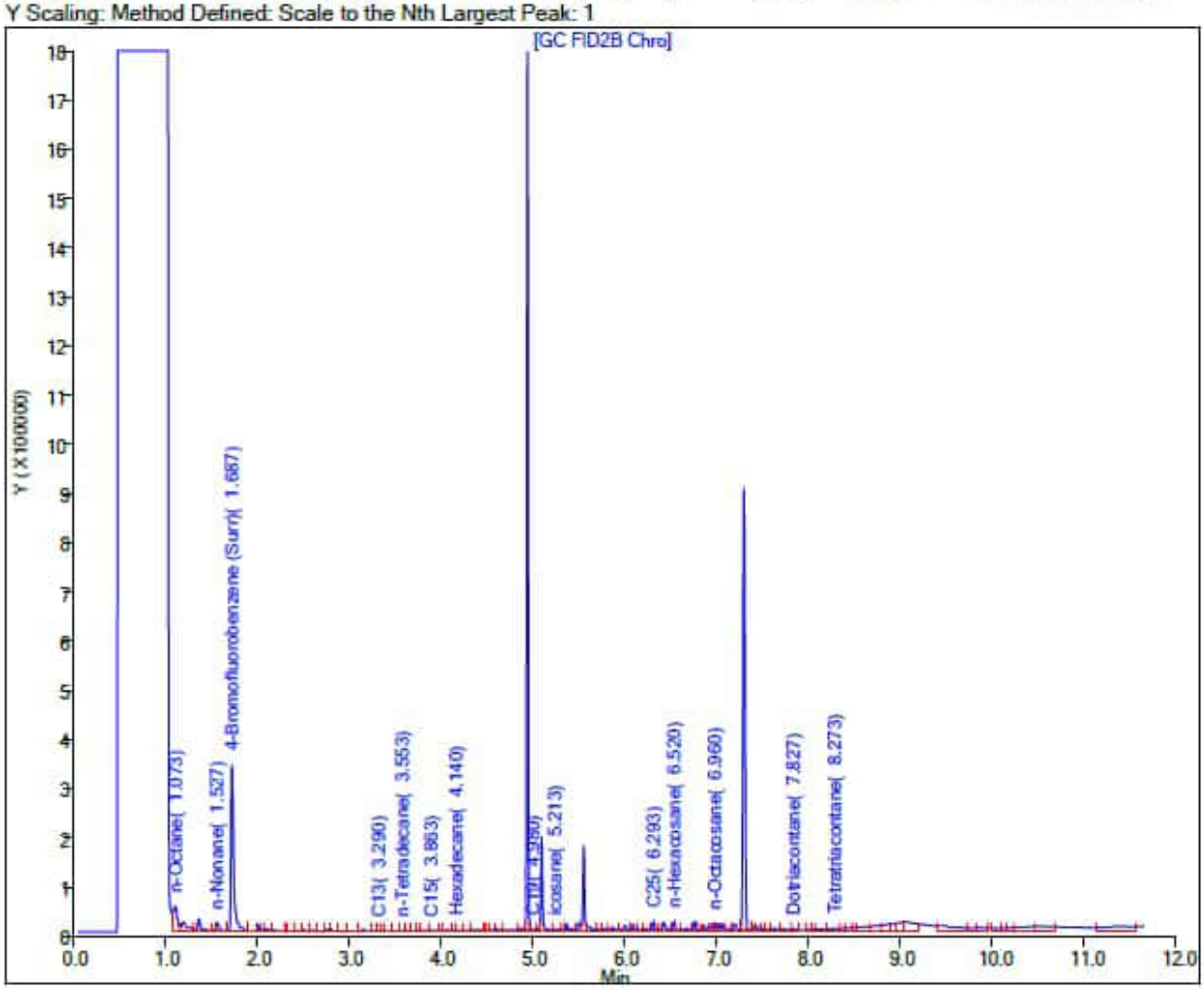
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 28-Sep-2022 14:38:31 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A021.D				
Injection Date:	27-Sep-2022 18:56:55	Instrument ID:	TAC129_R		
Lims ID:	580-118158-S-1-A	Lab Sample ID:	580-118158-1		
Client ID:	RHMW11-05-WGN01G-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2210WK1 Sample Date: 10/3/2022

Lab: Eurofins Seattle

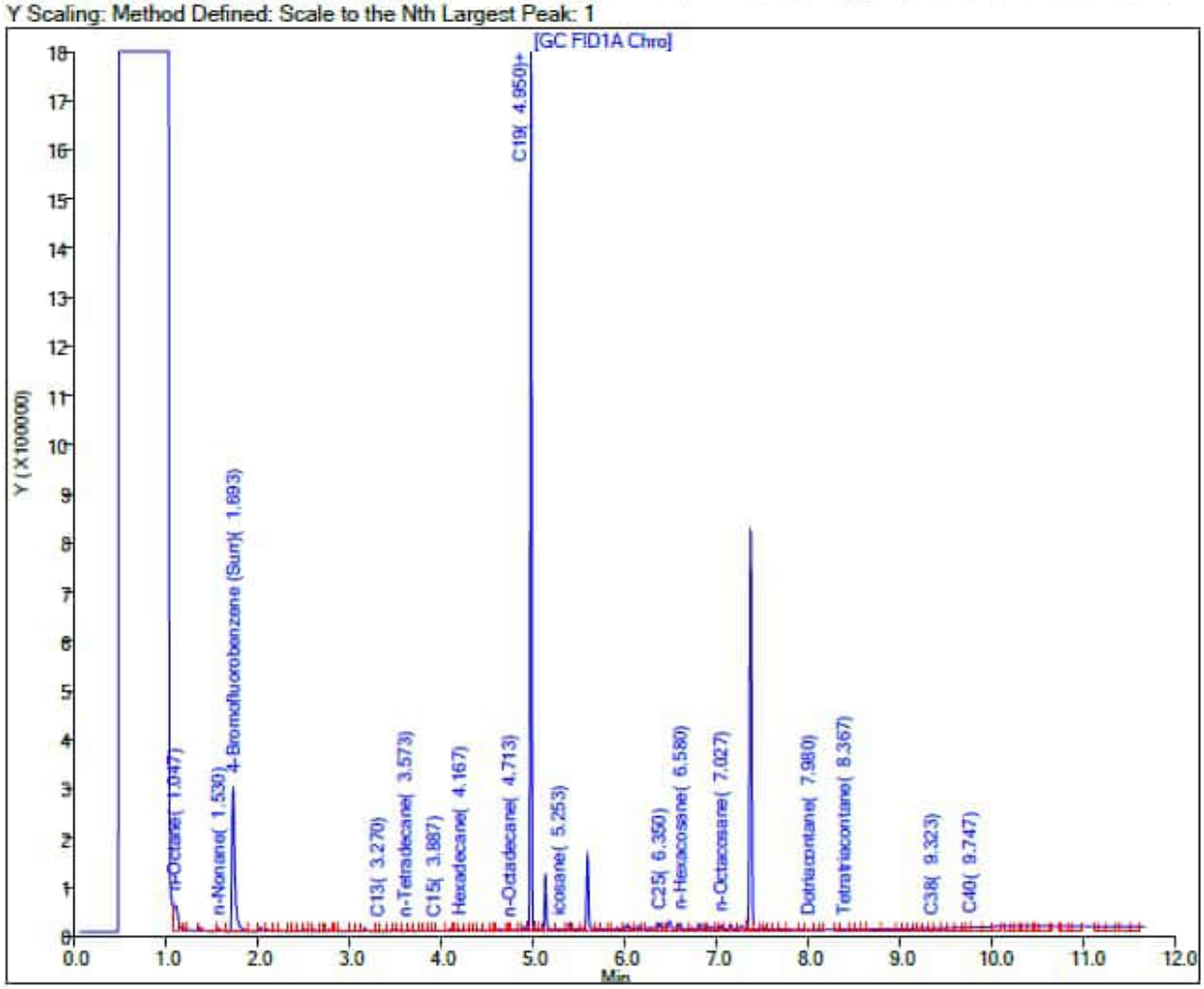
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 10-Oct-2022 02:27:55 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221007-85244.b\100722A016.D		
Injection Date:	07-Oct-2022 21:37:15	Instrument ID:	TAC129
Lims ID:	580-118575-F-3-A	Lab Sample ID:	580-118575-3
Client ID:	RHMW11-05-WGN01G-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

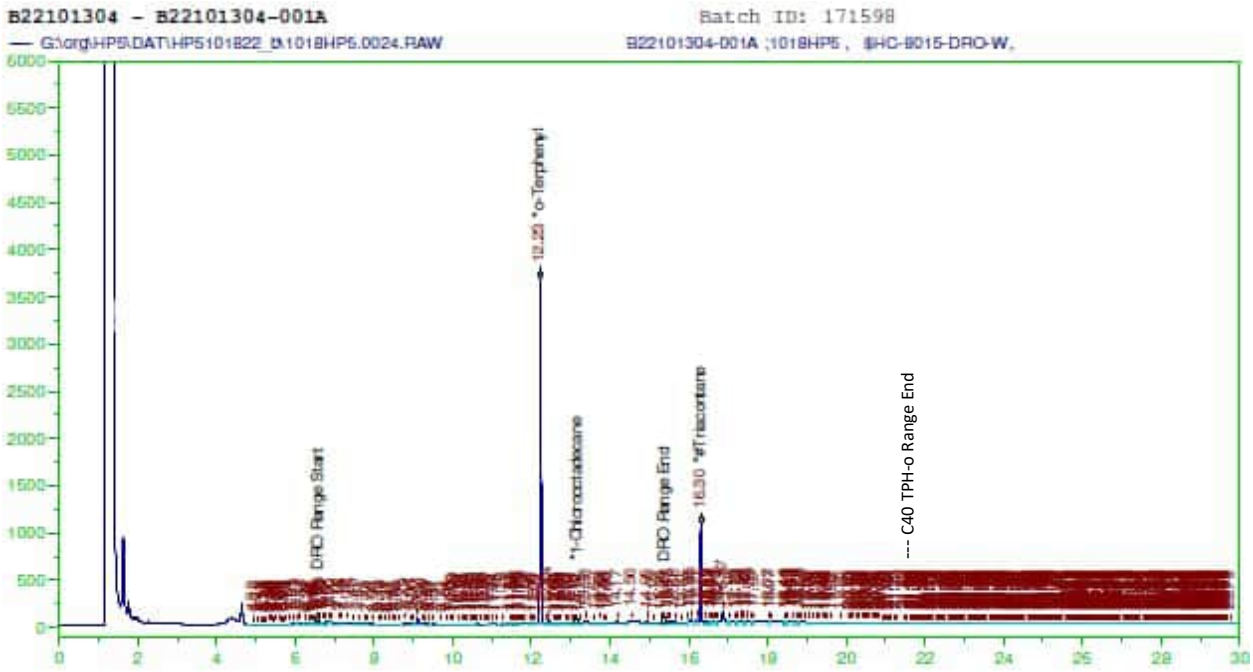


No Silica Gel Cleanup performed.

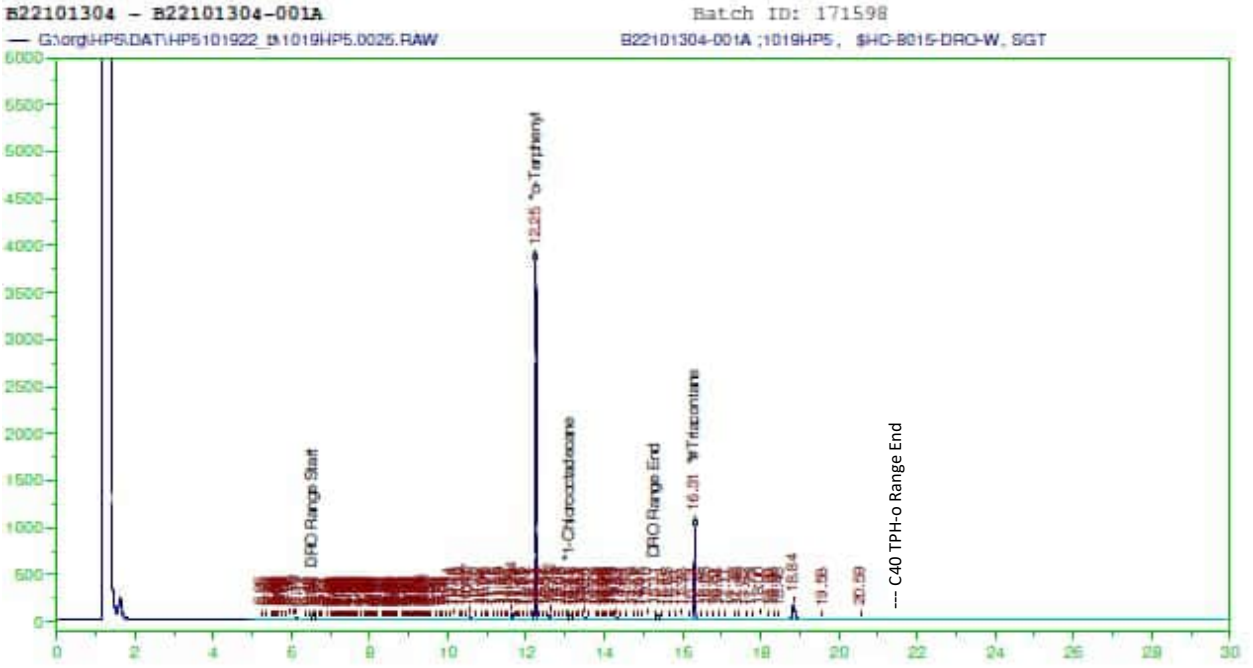
Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2210WK2 Sample Date: 10/13/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 209 J** **TPH-o (C24 to C40) 346**



Results (ug/L): **TPH-d SGC (C10 to C24) <150 U** **TPH-o SGC (C24 to C40) <150 U**



Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2210WK3 Sample Date: 10/17/2022

Lab: Eurofins Seattle

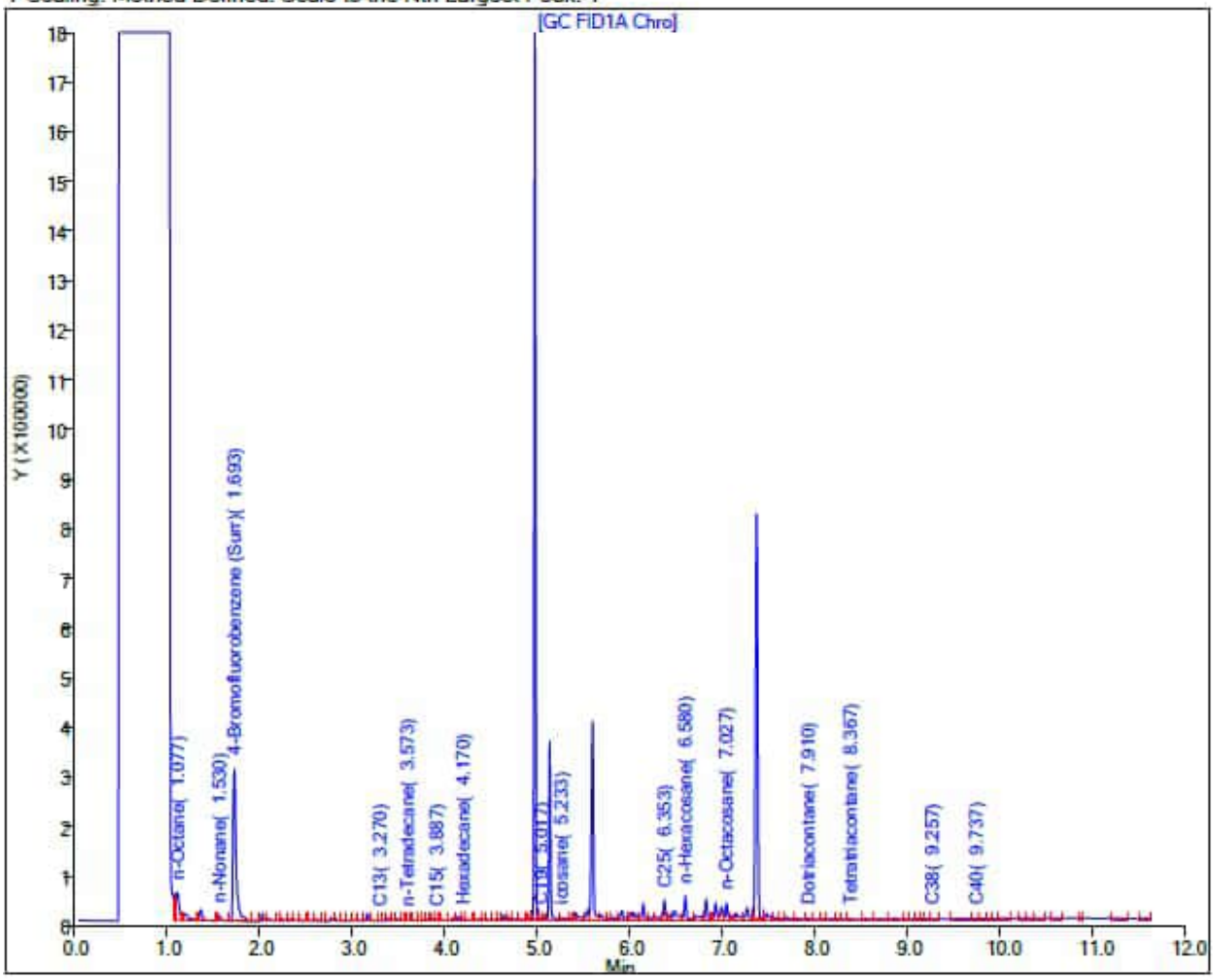
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Oct-2022 12:12:07 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A026.D				
Injection Date:	24-Oct-2022 21:23:39	Instrument ID:	TAC129		
Lims ID:	580-118964-O-14-A	Lab Sample ID:	580-118964-14		
Client ID:	RHMW11-05-WGN01G-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2210WK3 Sample Date: 10/21/2022

Lab: Eurofins Seattle

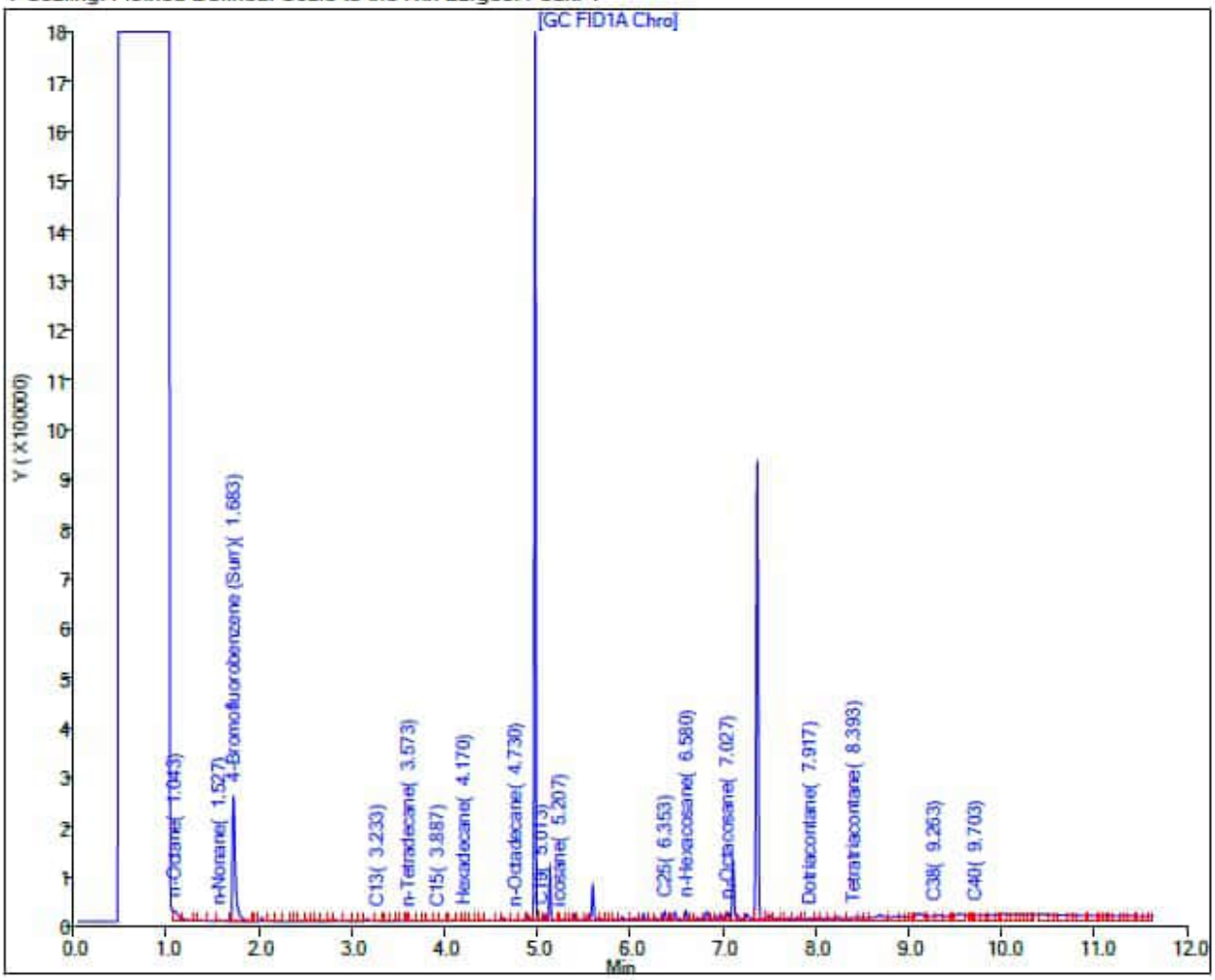
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:50:22 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A030.D				
Injection Date:	28-Oct-2022 23:59:25	Instrument ID:	TAC129		
Lims ID:	580-119163-O-1-A	Lab Sample ID:	580-119163-1		
Client ID:	RHMW11-05-WGN02G-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2210WK4 Sample Date: 10/24/2022

Lab: Eurofins Seattle

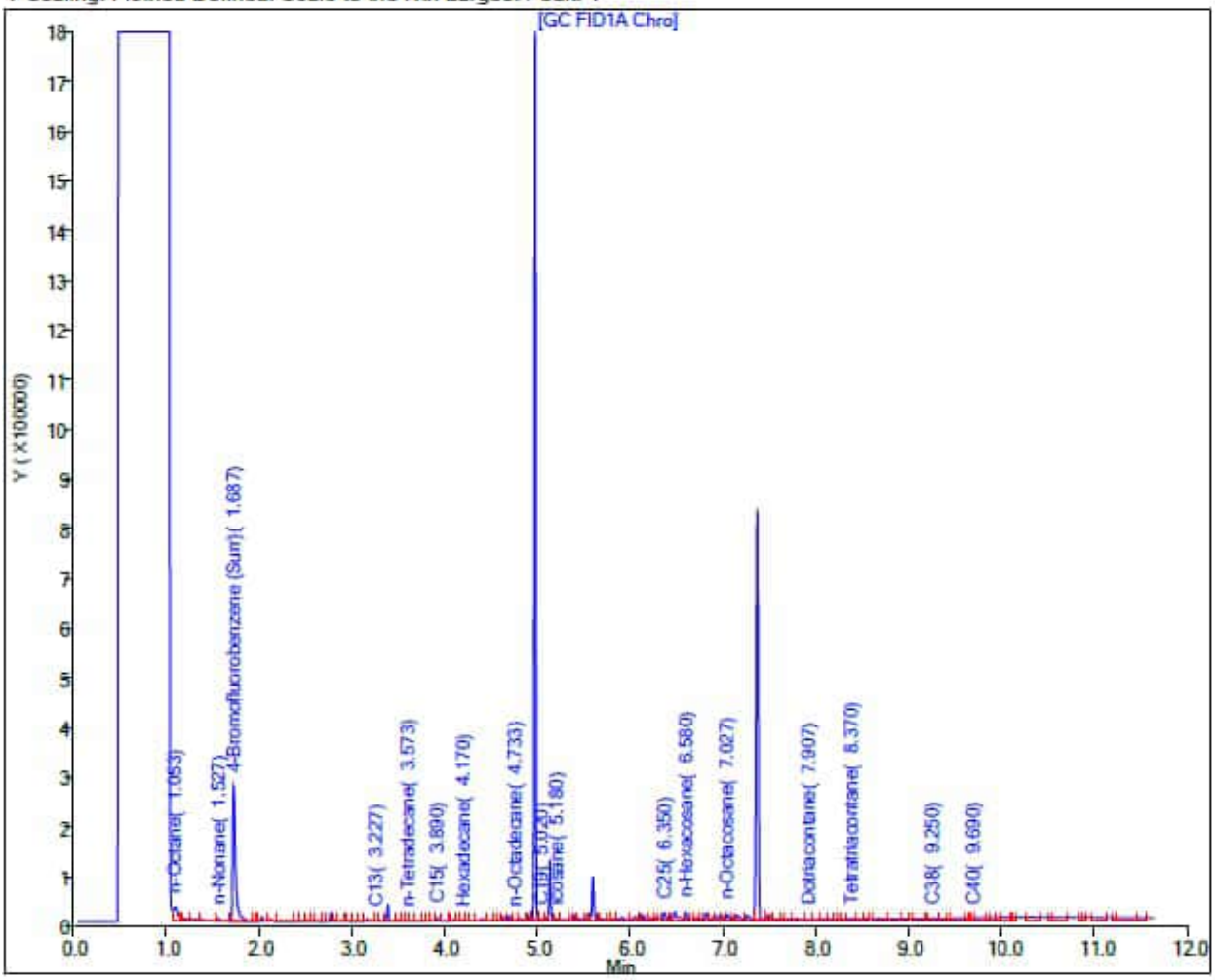
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:50:09 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A022.D				
Injection Date:	28-Oct-2022 22:45:29	Instrument ID:	TAC129		
Lims ID:	580-119293-O-3-A	Lab Sample ID:	580-119293-3		
Client ID:	RHMW11-05-WGN01G-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2210WK4 Sample Date: 10/28/2022

Lab: Eurofins Seattle

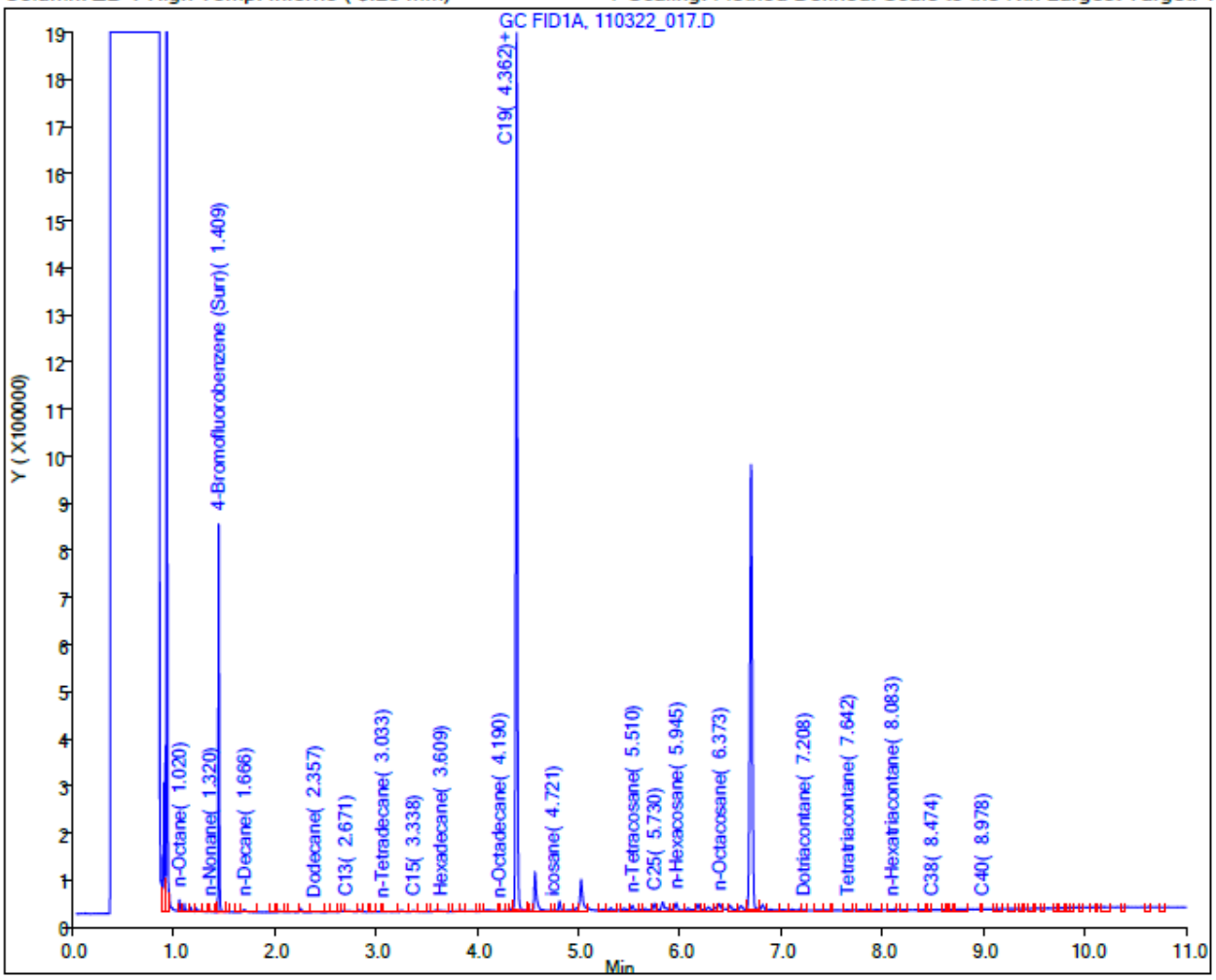
Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <290 U**

Report Date: 04-Nov-2022 13:44:02 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_017.D				
Injection Date:	03-Nov-2022 20:13:30	Instrument ID:	TAC020		
Lims ID:	580-119483-O-21-A	Lab Sample ID:	580-119483-21		
Client ID:	RHMW11-05-WGN02G-2210WK4				
Operator ID:	DH	ALS Bottle#:	16	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2210WK5 Sample Date: 11/2/2022

Lab: Eurofins Seattle

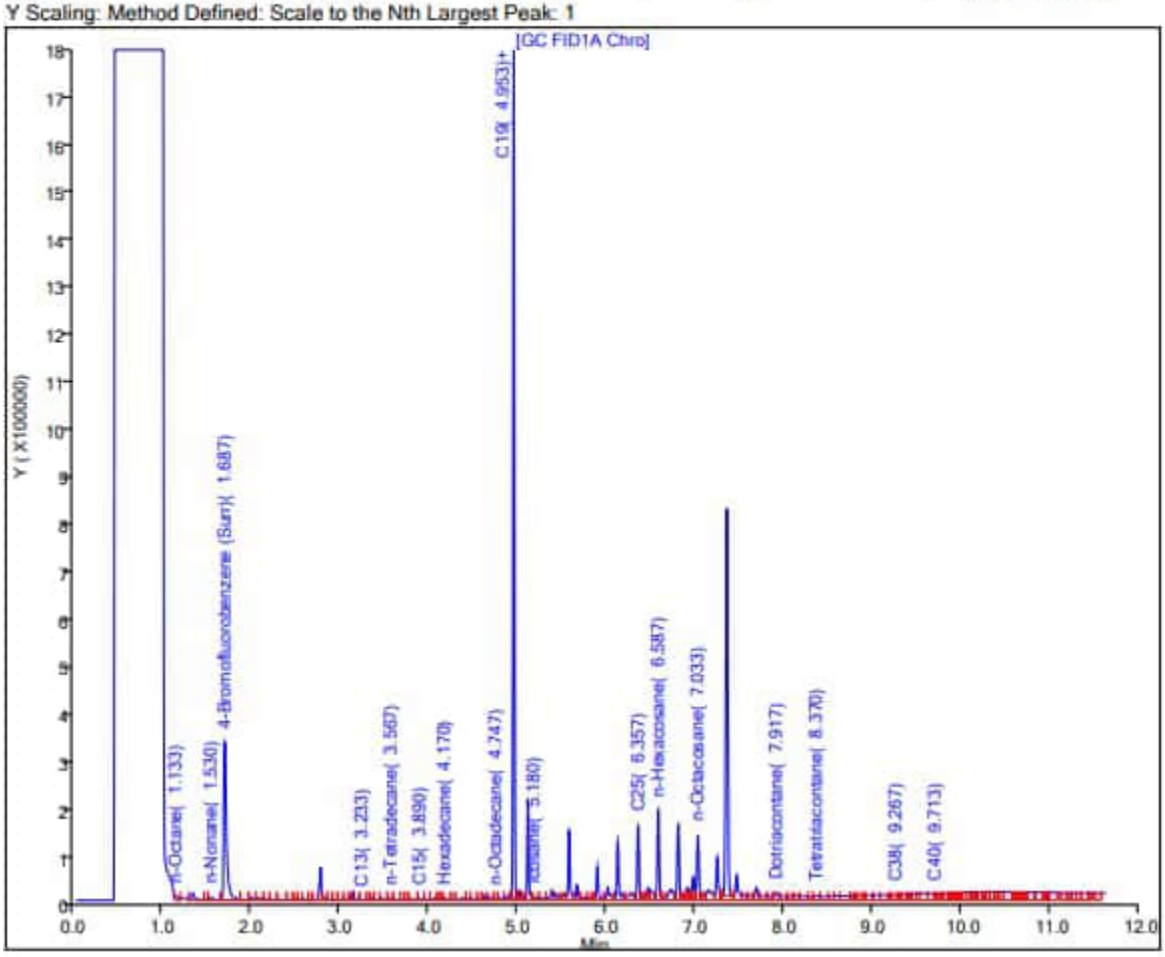
Results (ug/L): **TPH-d (C10 to C24) <87 U** **TPH-o (C24 to C40) <260 U**

Report Date: 10-Nov-2022 20:58:07 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221110-85722.b\1110a22A008.D		
Injection Date:	10-Nov-2022 19:29:44	Instrument ID:	TAC129
Lims ID:	580-119659-E-13-A	Lab Sample ID:	580-119659-13
Client ID:	RHMW11-05-WGN01G-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2210WK5 Sample Date: 11/4/2022

Lab: Eurofins Seattle

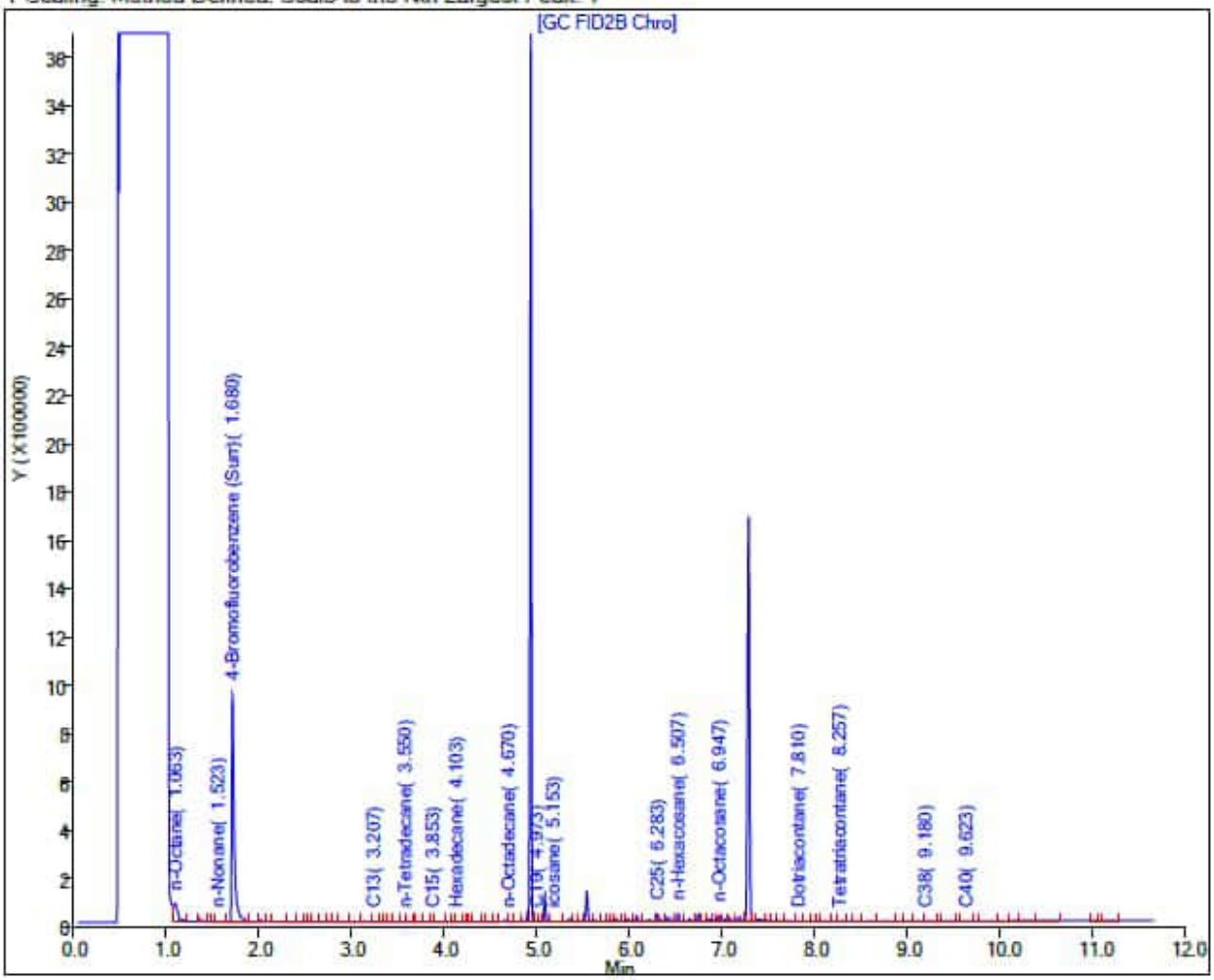
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 14-Nov-2022 13:32:40 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A039.D				
Injection Date:	12-Nov-2022 05:18:58	Instrument ID:	TAC129_R		
Lims ID:	580-119804-O-7-A	Lab Sample ID:	580-119804-7		
Client ID:	RHMW11-05-WGN02G-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2211WK1 Sample Date: 11/11/2022

Lab: Eurofins Seattle

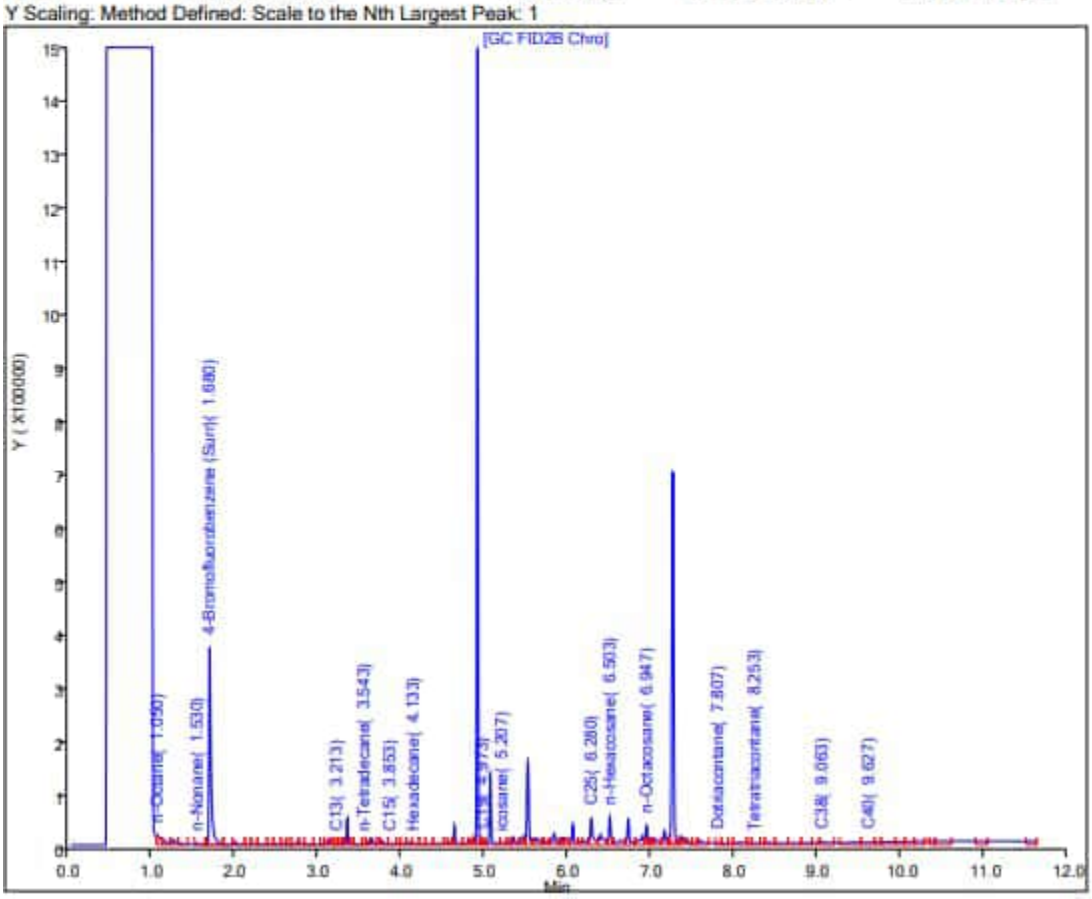
Results (ug/L): **TPH-d (C10 to C24) 66 J** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Nov-2022 12:12:03 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85807.b\091522A045.D		
Injection Date:	16-Nov-2022 06:10:39	Instrument ID:	TAC129_R
Lims ID:	580-120006-N-4-A	Lab Sample ID:	580-120006-4
Client ID:	RHMW11-05-WGN02G-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



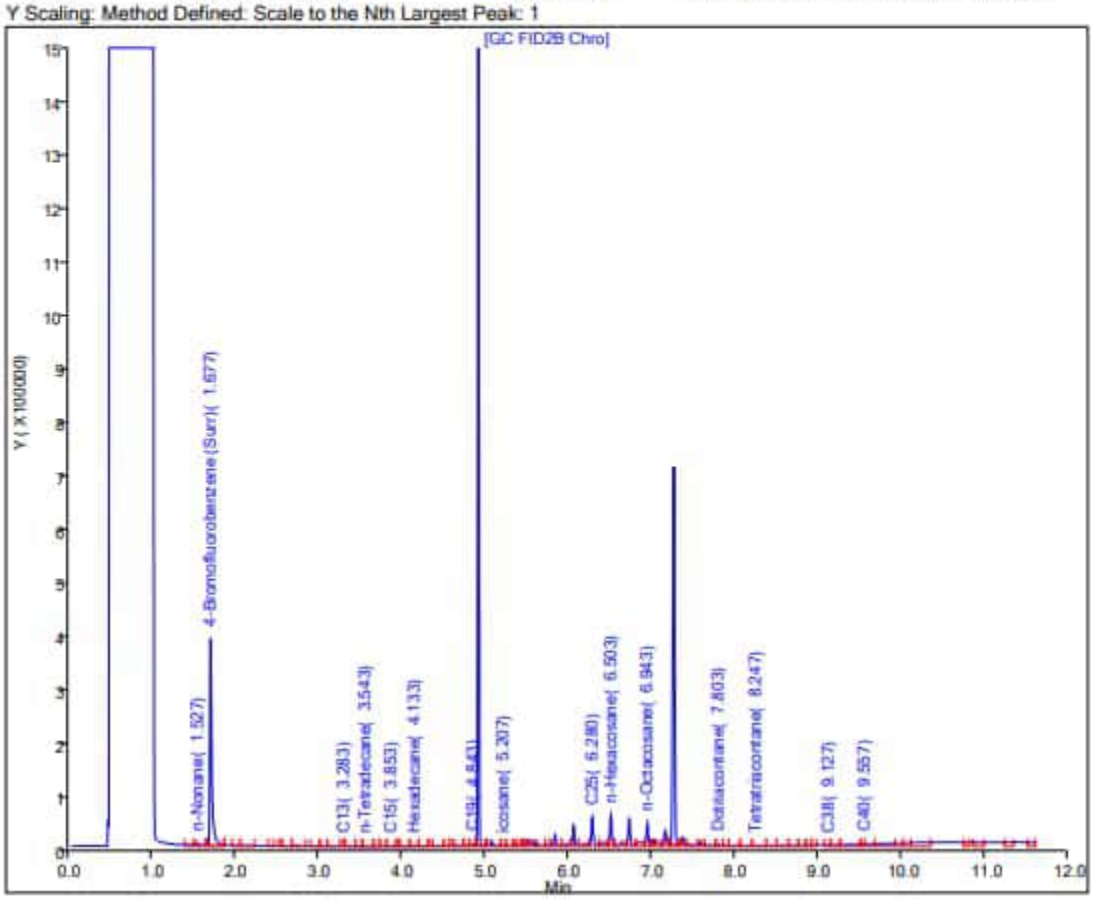
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 21-Nov-2022 13:06:34 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221118-85872.b\1118a22A023.D		
Injection Date:	18-Nov-2022 18:34:19	Instrument ID:	TAC129_R
Lims ID:	580-120006-N-4-B	Lab Sample ID:	580-120006-4
Client ID:	RHMW11-05-WGN02G-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2211WK2 Sample Date: 11/18/2022

Lab: Eurofins Seattle

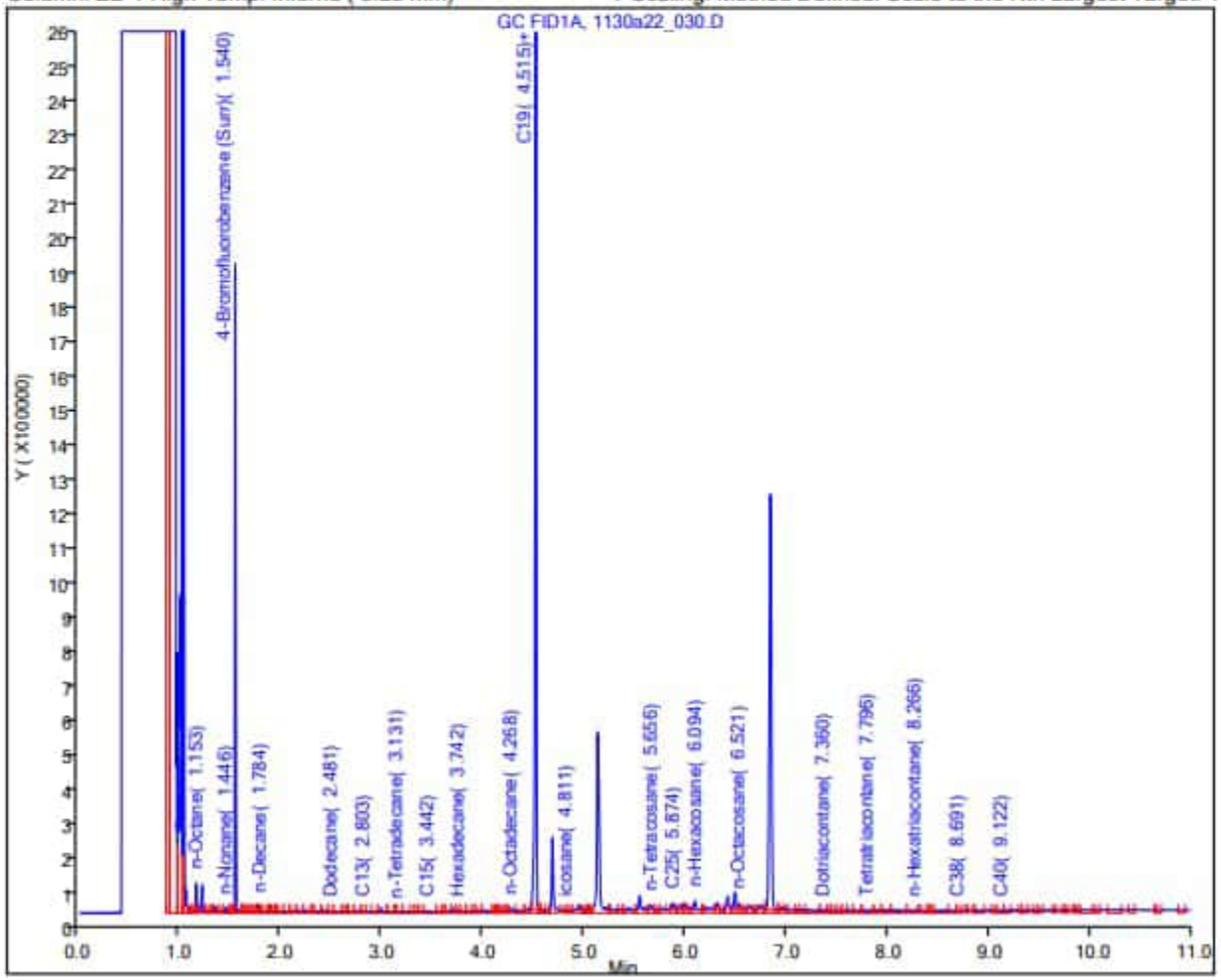
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Dec-2022 15:42:00 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86038.b\1130a22_030.D				
Injection Date:	01-Dec-2022 06:50:30	Instrument ID:	TAC020		
Lims ID:	580-120243-N-4-A	Lab Sample ID:	580-120243-4		
Client ID:	RHMW11-05-WGN02G-2211WK2				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN01G-2211WK3 Sample Date 11/21/2022

Lab: Eurofins Seattle

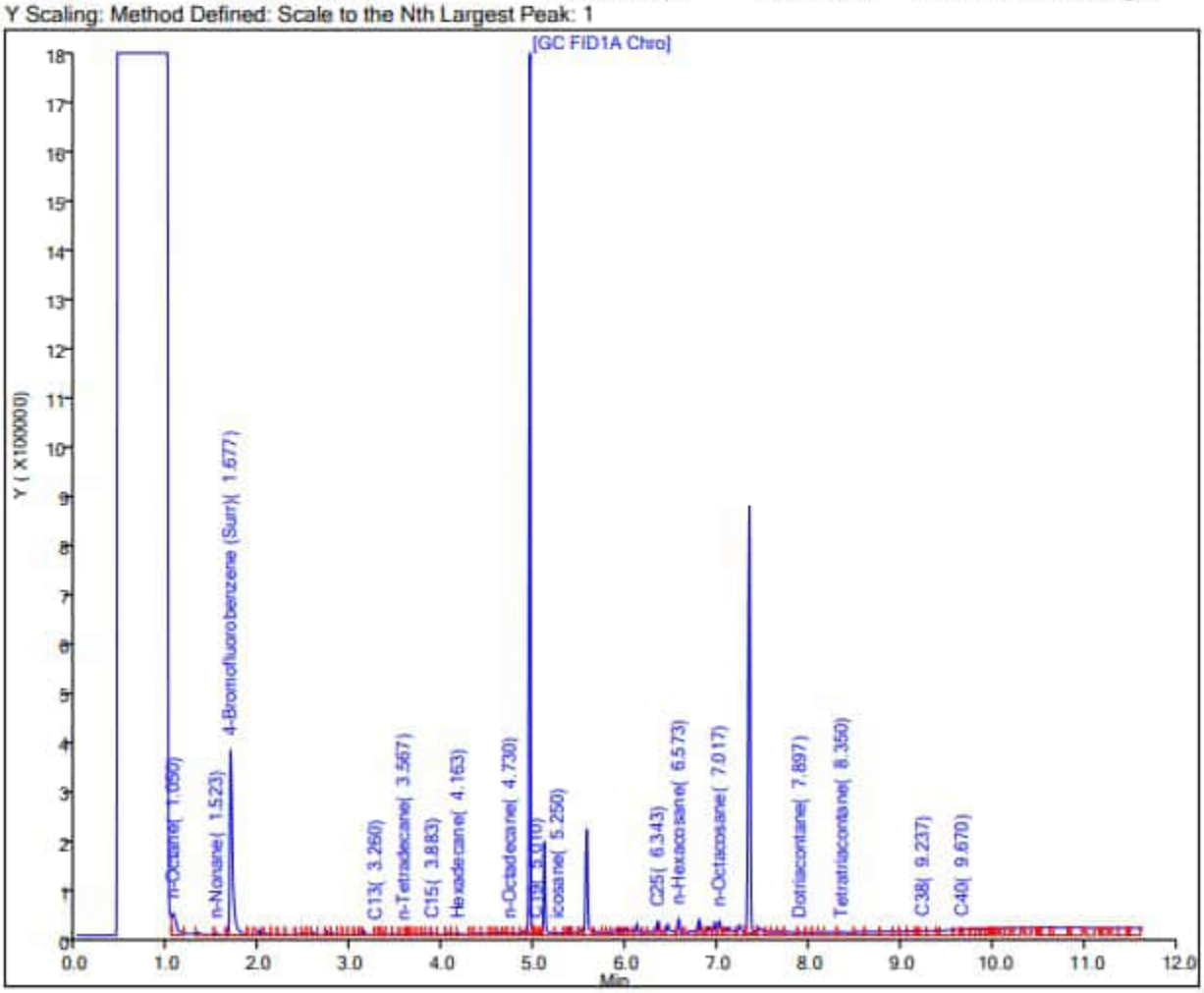
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:18:13 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A016.D				
Injection Date:	29-Nov-2022 20:15:50	Instrument ID:	TAC129		
Lims ID:	580-120344-N-10-A	Lab Sample ID:	580-120344-10		
Client ID:	RHMW11-05-WGN01G-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW11-05** Sample ID: RHMW11-05-WGN02G-2211WK4 Sample Date 11/30/2022

Lab: Eurofins Seattle

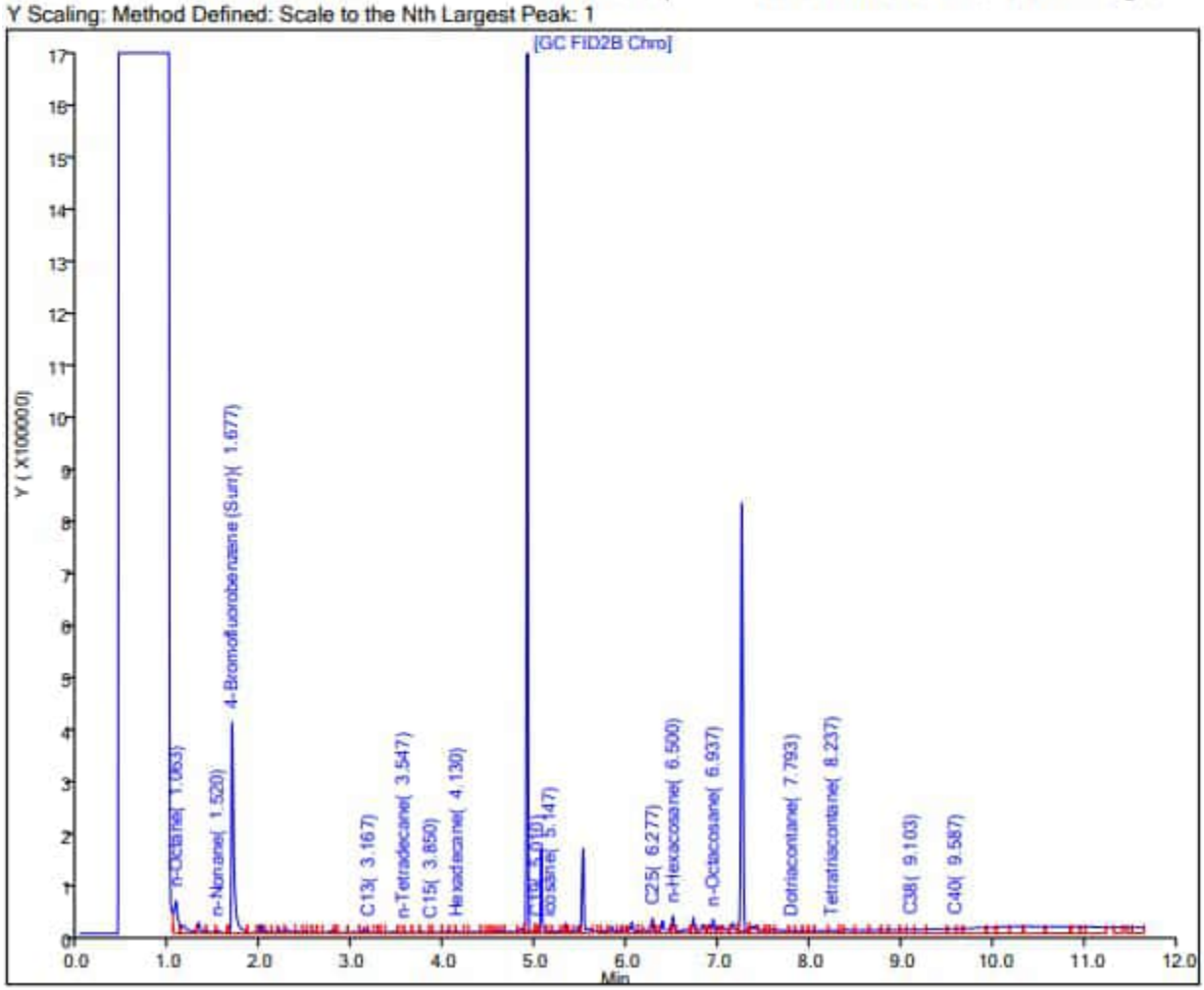
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 06-Dec-2022 13:59:12 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A021.D				
Injection Date:	05-Dec-2022 22:21:05	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-5-A	Lab Sample ID:	580-120678-5		
Client ID:	RHMW11-05-WGN02G-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2208WK4 Sample Date: 8/25/2022

Lab: Eurofins Seattle

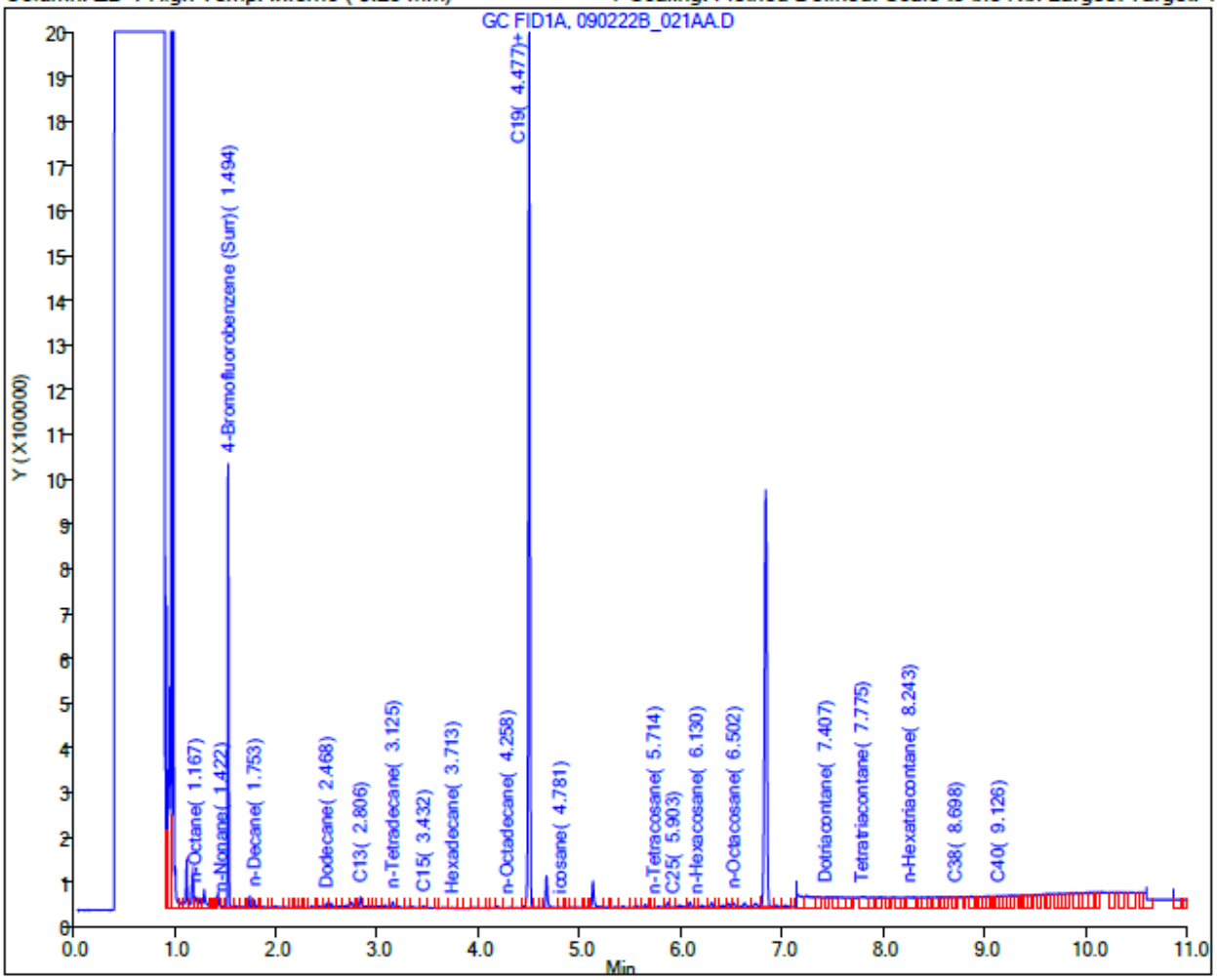
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 06-Sep-2022 14:18:06 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_021AA.D		
Injection Date:	03-Sep-2022 05:01:30	Instrument ID:	TAC020
Lims ID:	580-117347-C-10-A	Lab Sample ID:	580-117347-10
Client ID:	RHMW12A-WGN01LF-2208WK4		
Operator ID:	DH	ALS Bottle#:	20 Worklist Smp#: 78
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2209WK1 Sample Date: 9/7/2022

Lab: Eurofins Seattle

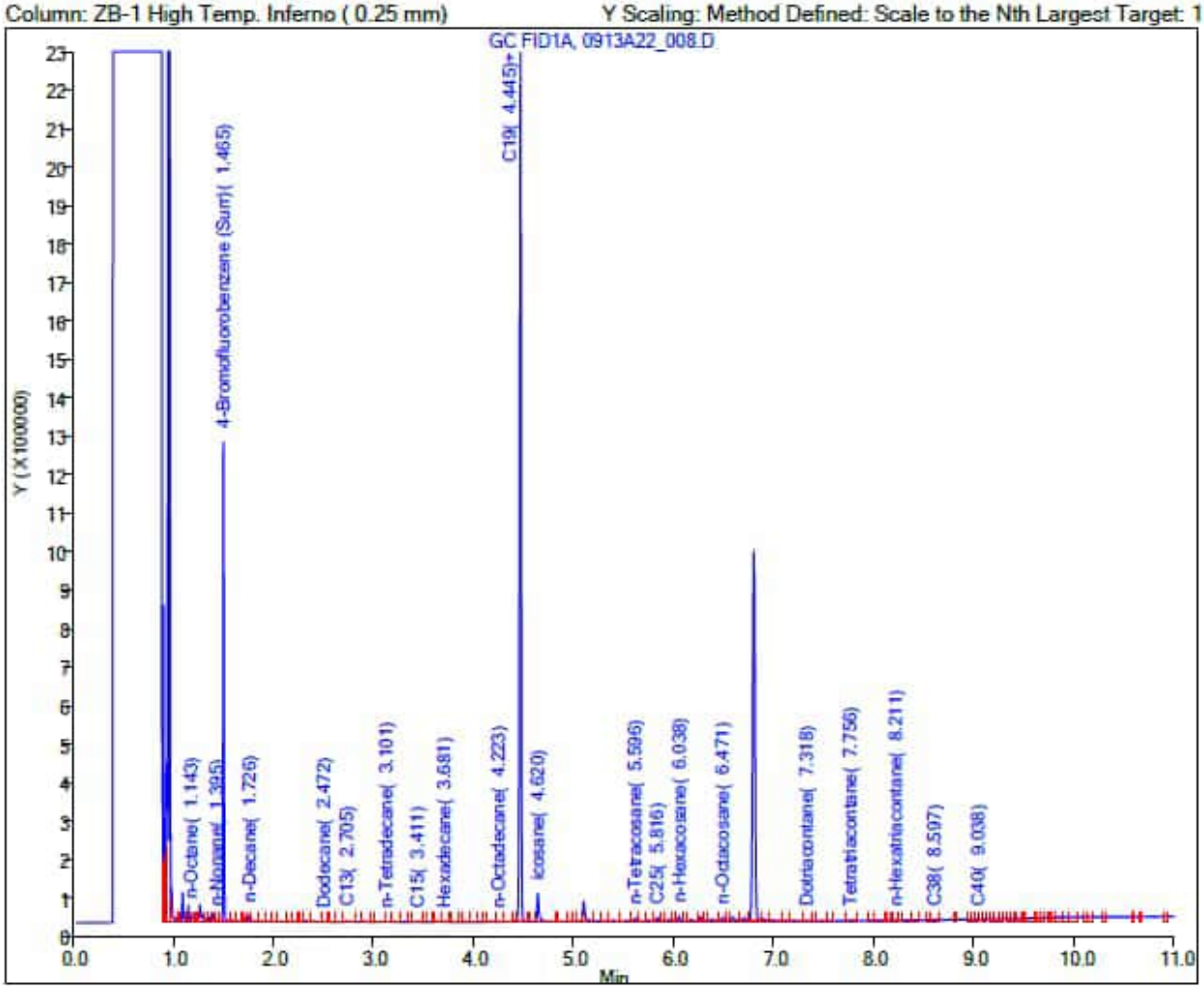
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 14-Sep-2022 13:58:04 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_008.D				
Injection Date:	13-Sep-2022 22:00:30	Instrument ID:	TAC020		
Lims ID:	580-117675-E-1-A	Lab Sample ID:	580-117675-1		
Client ID:	RHMW12A-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2209WK2 Sample Date: 9/13/2022

Lab: Eurofins Seattle

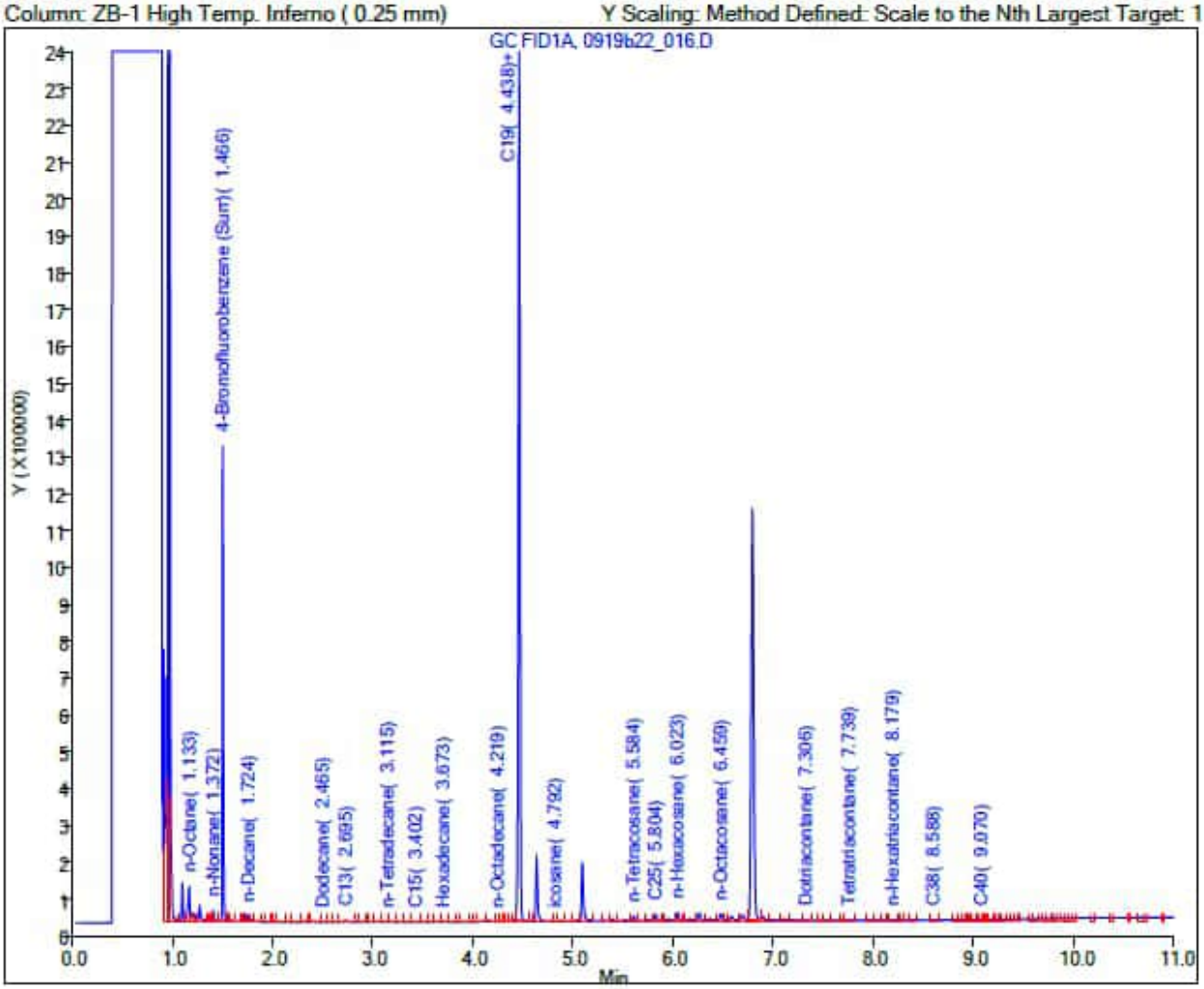
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Sep-2022 11:50:53 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_016.D				
Injection Date:	19-Sep-2022 21:28:30	Instrument ID:	TAC020		
Lims ID:	580-117880-F-1-A	Lab Sample ID:	580-117880-1		
Client ID:	RHMW12A-WGN01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2210WK1 Sample Date: 10/4/2022

Lab: Eurofins Seattle

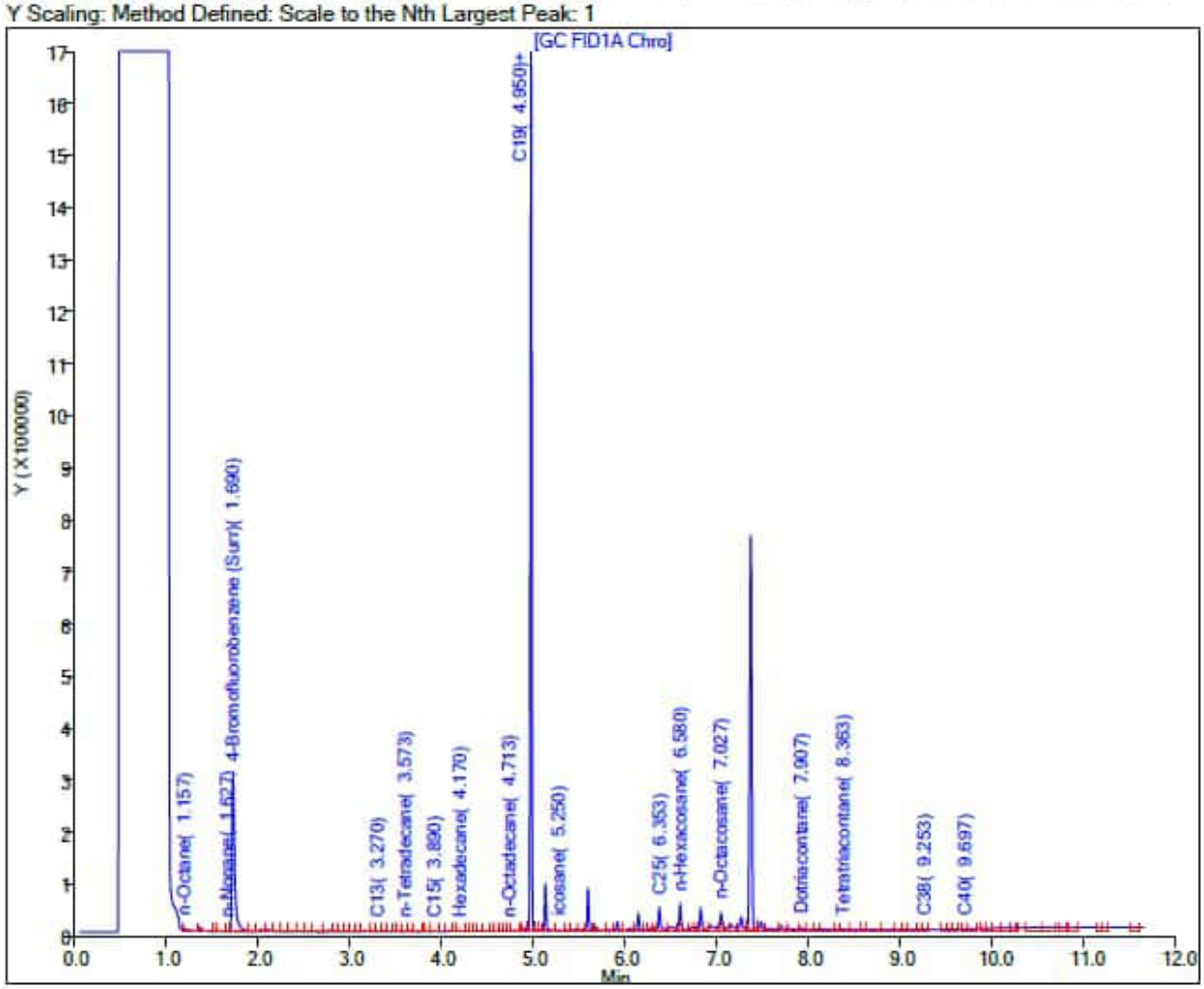
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 10-Oct-2022 02:27:58 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221007-85244.b\100722A018.D				
Injection Date:	07-Oct-2022 21:56:16	Instrument ID:	TAC129		
Lims ID:	580-118575-E-6-A	Lab Sample ID:	580-118575-6		
Client ID:	RHMW12A-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

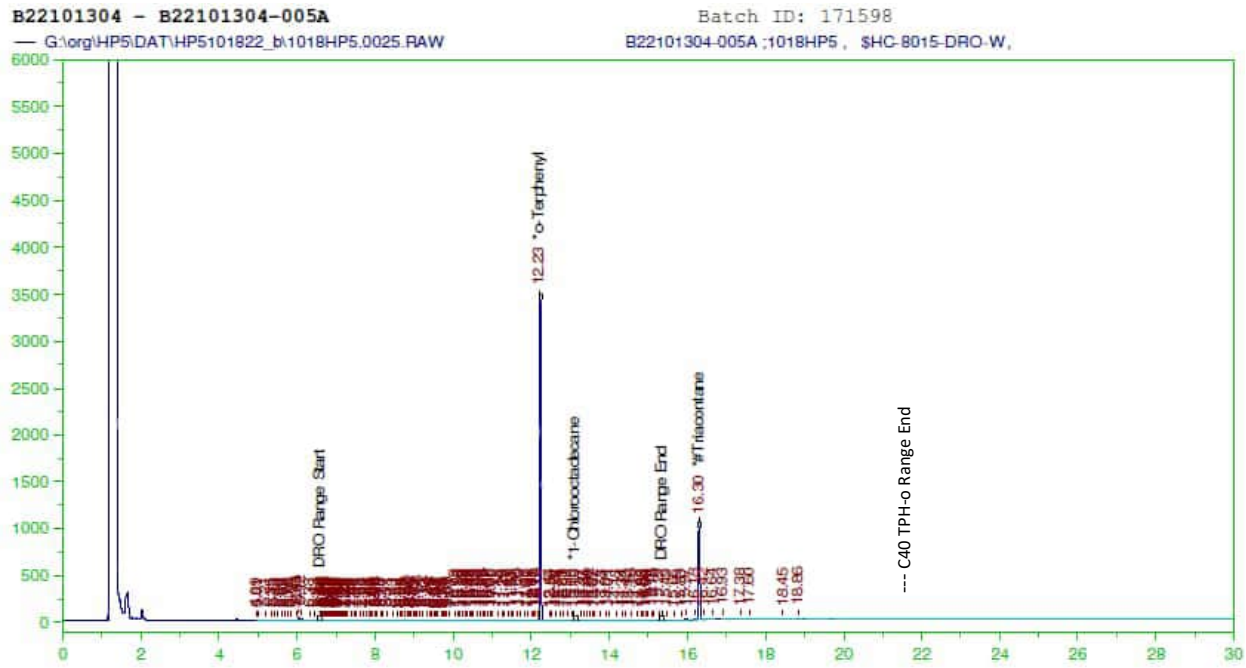


No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2210WK2 Sample Date: 10/13/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) <150 U** **TPH-o (C24 to C40) <150 U**



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2210WK3 Sample Date: 10/18/2022

Lab: Eurofins Seattle

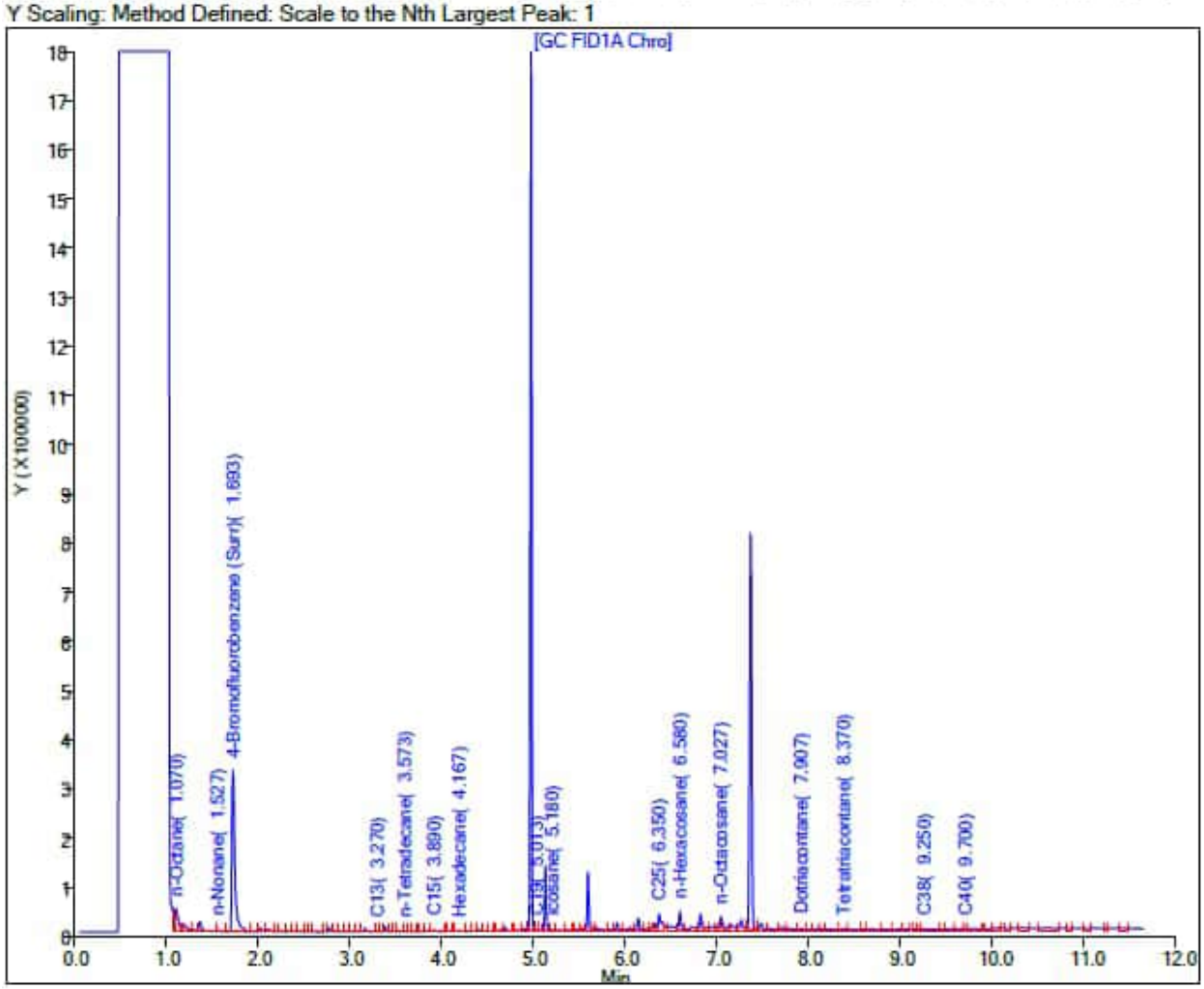
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Oct-2022 12:12:25 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A034.D				
Injection Date:	24-Oct-2022 22:38:13	Instrument ID:	TAC129		
Lims ID:	580-118961-O-1-A	Lab Sample ID:	580-118961-1		
Client ID:	RHMW12A-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN02LF-2210WK3 Sample Date: 10/20/2022

Lab: Eurofins Seattle

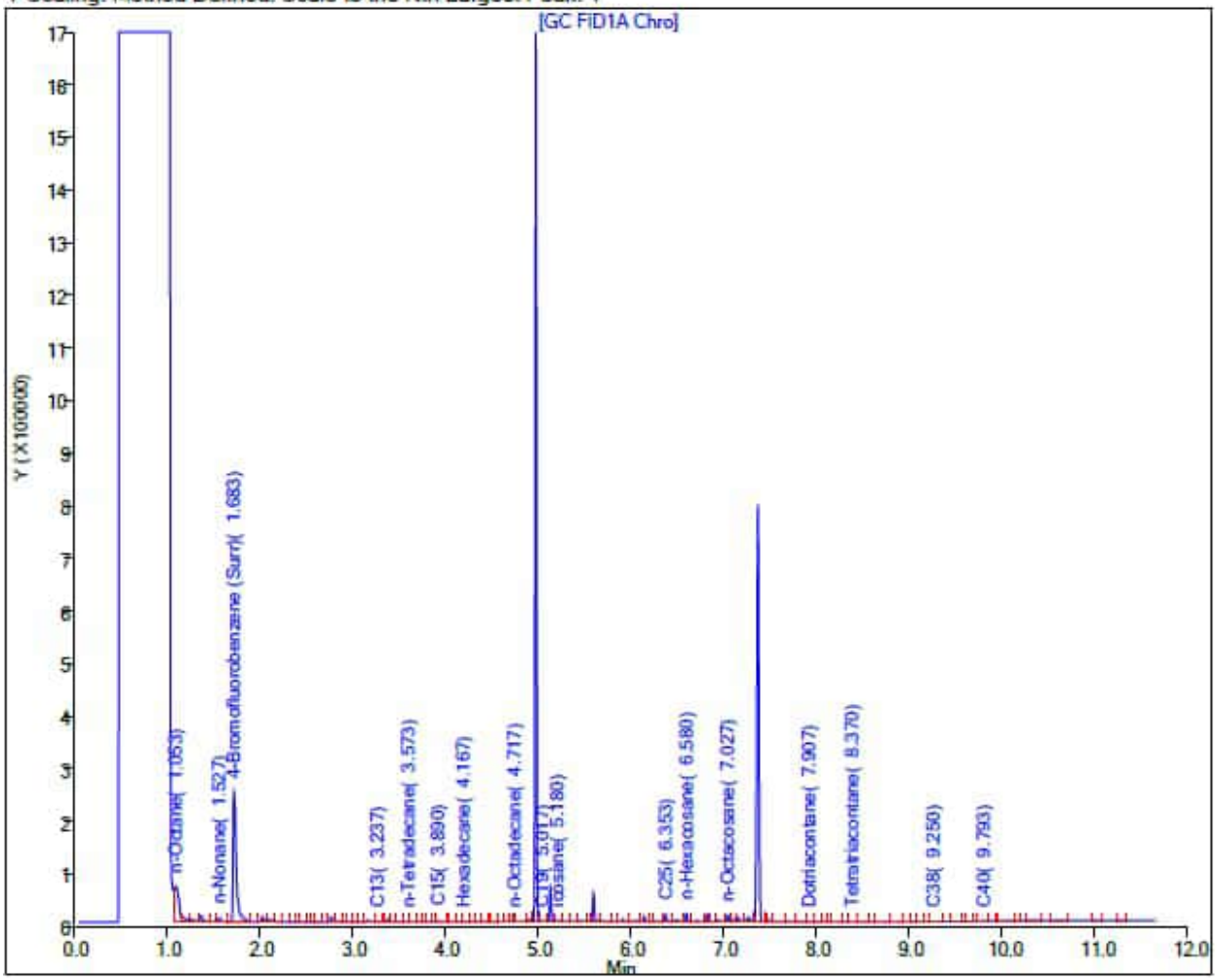
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 28-Oct-2022 14:34:55 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A024.D				
Injection Date:	27-Oct-2022 19:31:01	Instrument ID:	TAC129		
Lims ID:	580-119078-F-13-A	Lab Sample ID:	580-119078-13		
Client ID:	RHMW12A-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2210WK4 Sample Date: 10/24/2022

Lab: Eurofins Seattle

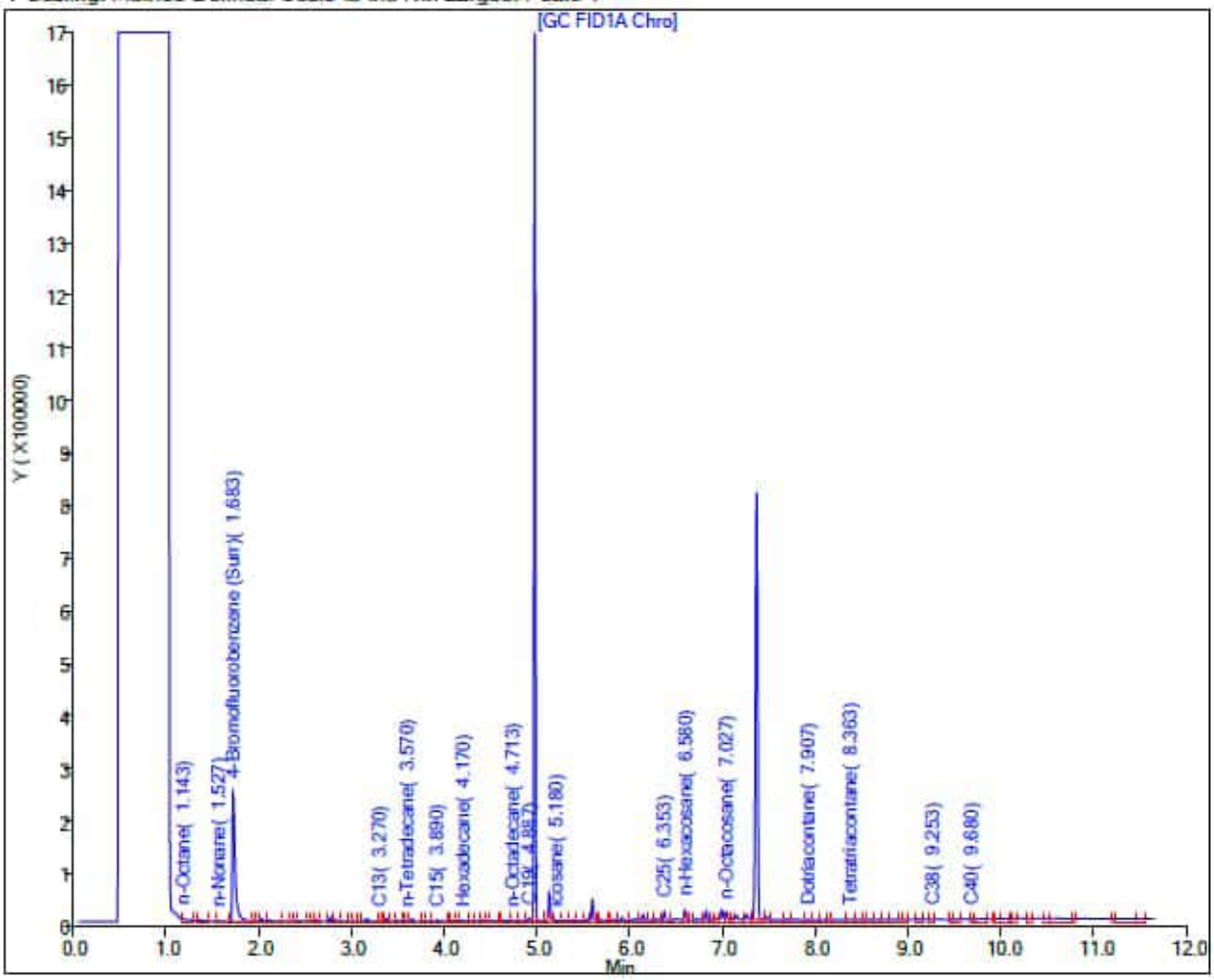
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:51:20 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A056.D				
Injection Date:	29-Oct-2022 03:59:44	Instrument ID:	TAC129		
Lims ID:	580-119162-N-20-A	Lab Sample ID:	580-119162-20		
Client ID:	RHMW12A-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN02LF-2210WK4 Sample Date: 10/27/2022

Lab: Eurofins Seattle

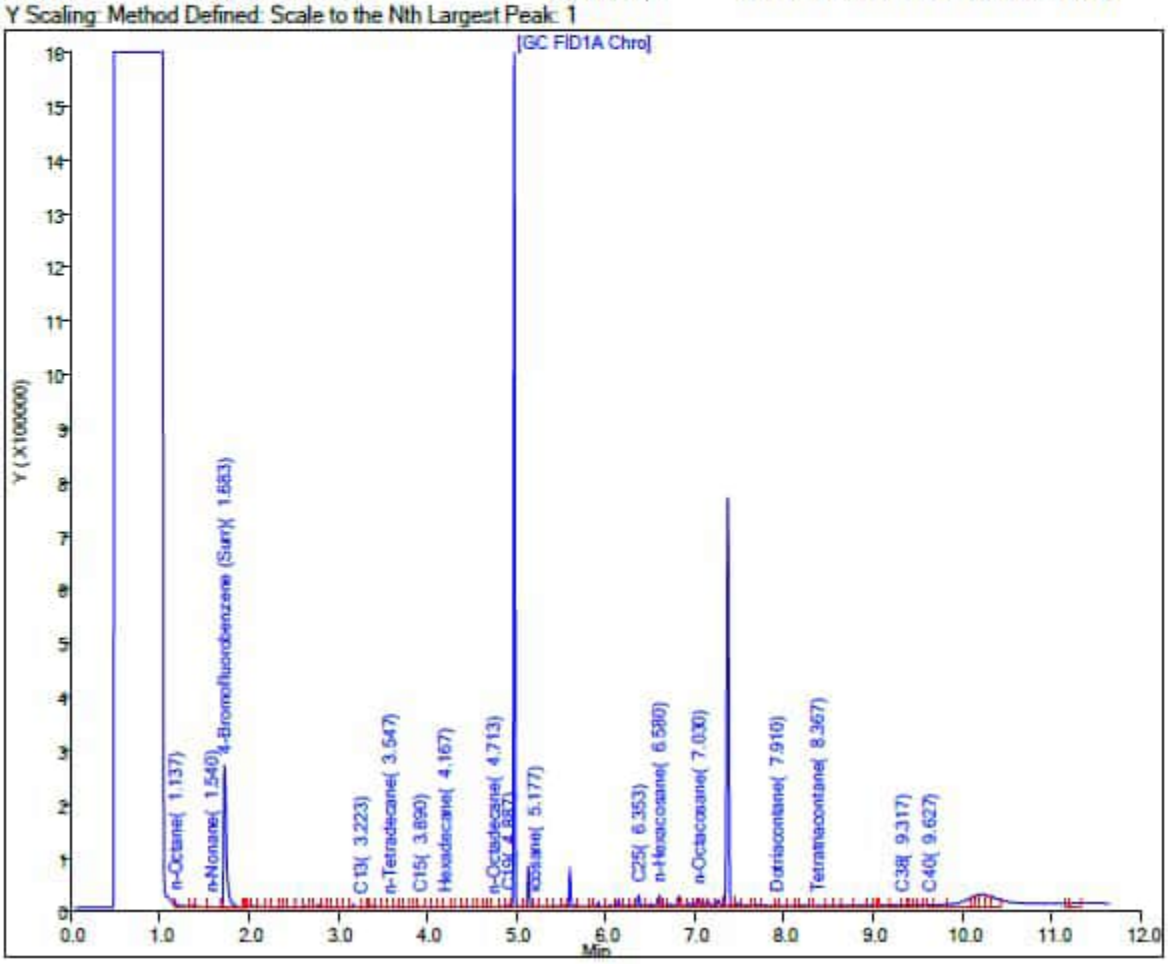
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:12:09 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A046.D		
Injection Date:	03-Nov-2022 00:03:20	Instrument ID:	TAC129
Lims ID:	580-119363-D-9-A	Lab Sample ID:	580-119363-9
Client ID:	RHMW12A-WGN02LF-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2210WK5 Sample Date: 11/1/2022

Lab: Eurofins Seattle

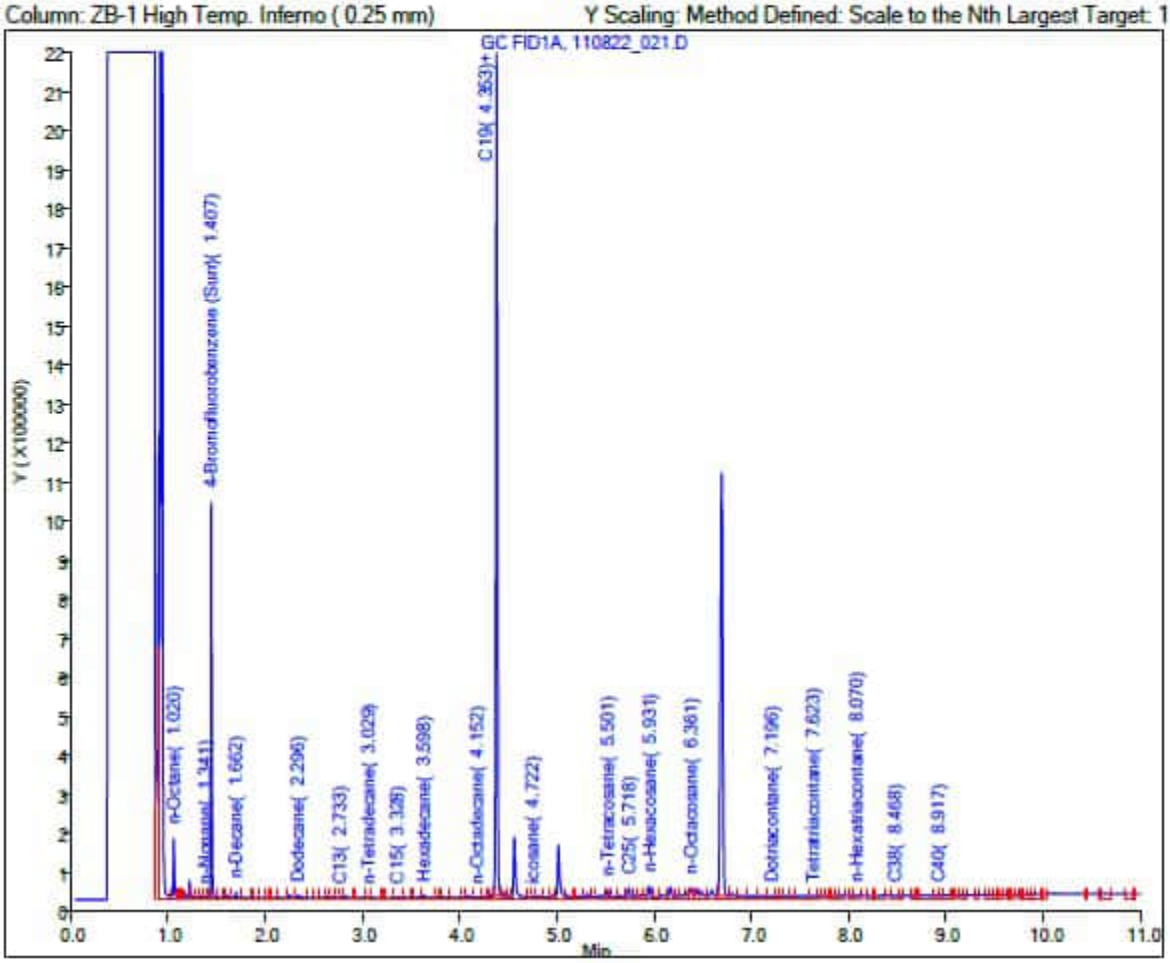
Results (ug/L): **TPH-d (C10 to C24) <83 U** **TPH-o (C24 to C40) <250 U**

Report Date: 09-Nov-2022 13:54:54 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_021.D		
Injection Date:	09-Nov-2022 00:13:30	Instrument ID:	TAC020
Lims ID:	580-119528-N-10-A	Lab Sample ID:	580-119528-10
Client ID:	RHMW12A-WGN01LF-2210WK5		
Operator ID:	DH	ALS Bottle#:	20 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN02LF-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) 76 J** **TPH-o (C24 to C40) 210 J**

Report Date: 10-Nov-2022 14:19:26 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_018.D

Injection Date: 10-Nov-2022 03:29:30 Instrument ID: TAC020

Lims ID: 580-119659-E-11-A Lab Sample ID: 580-119659-11

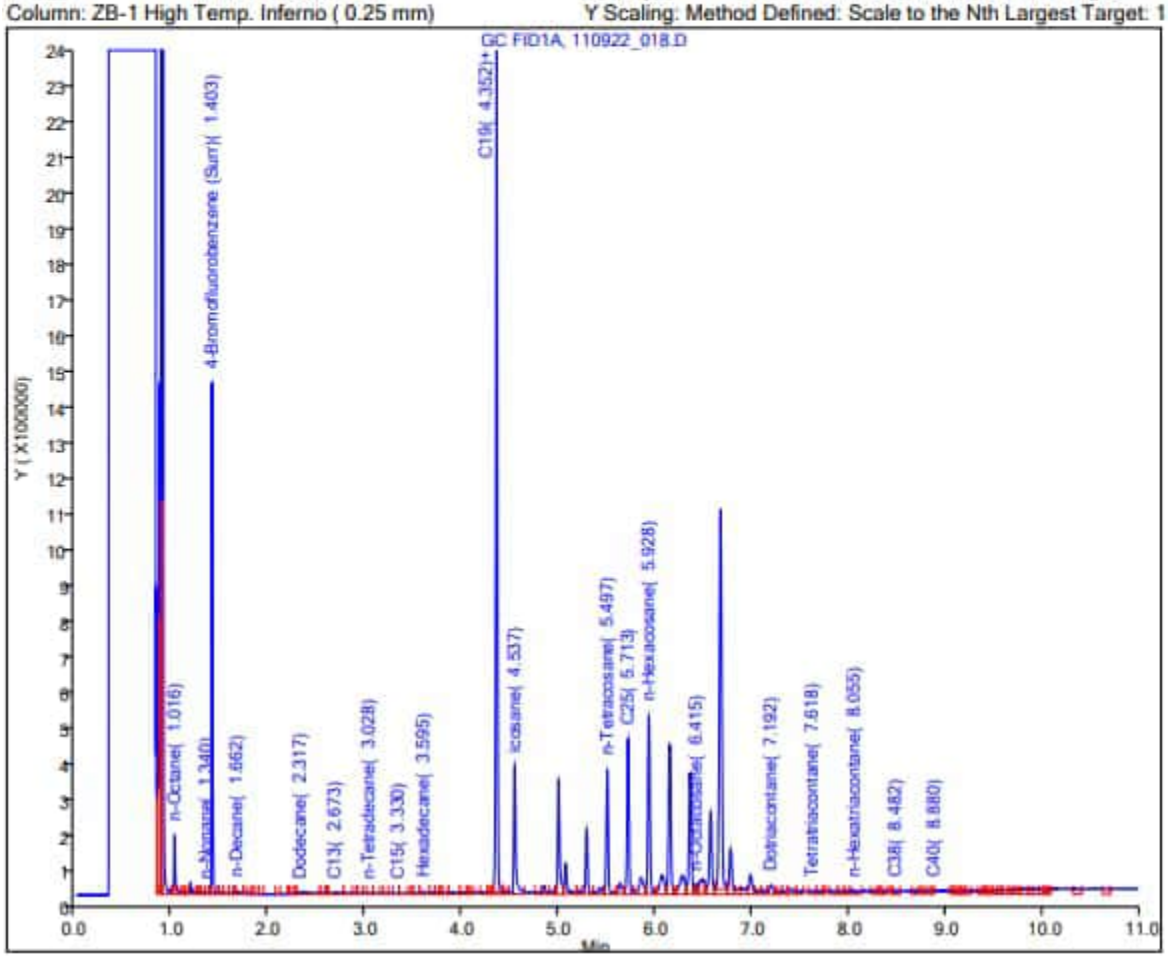
Client ID: RHMW12A-WGN02LF-2210WK5

Operator ID: DH ALS Bottle#: 17 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <83 UJ** **TPH-o SGC (C24 to C40) <250 UJ**

Report Date: 15-Nov-2022 18:14:36 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221115-85787.b\1115a22_019.D

Injection Date: 15-Nov-2022 17:12:30 Instrument ID: TAC020

Lims ID: 580-119659-F-11-B Lab Sample ID: 580-119659-11

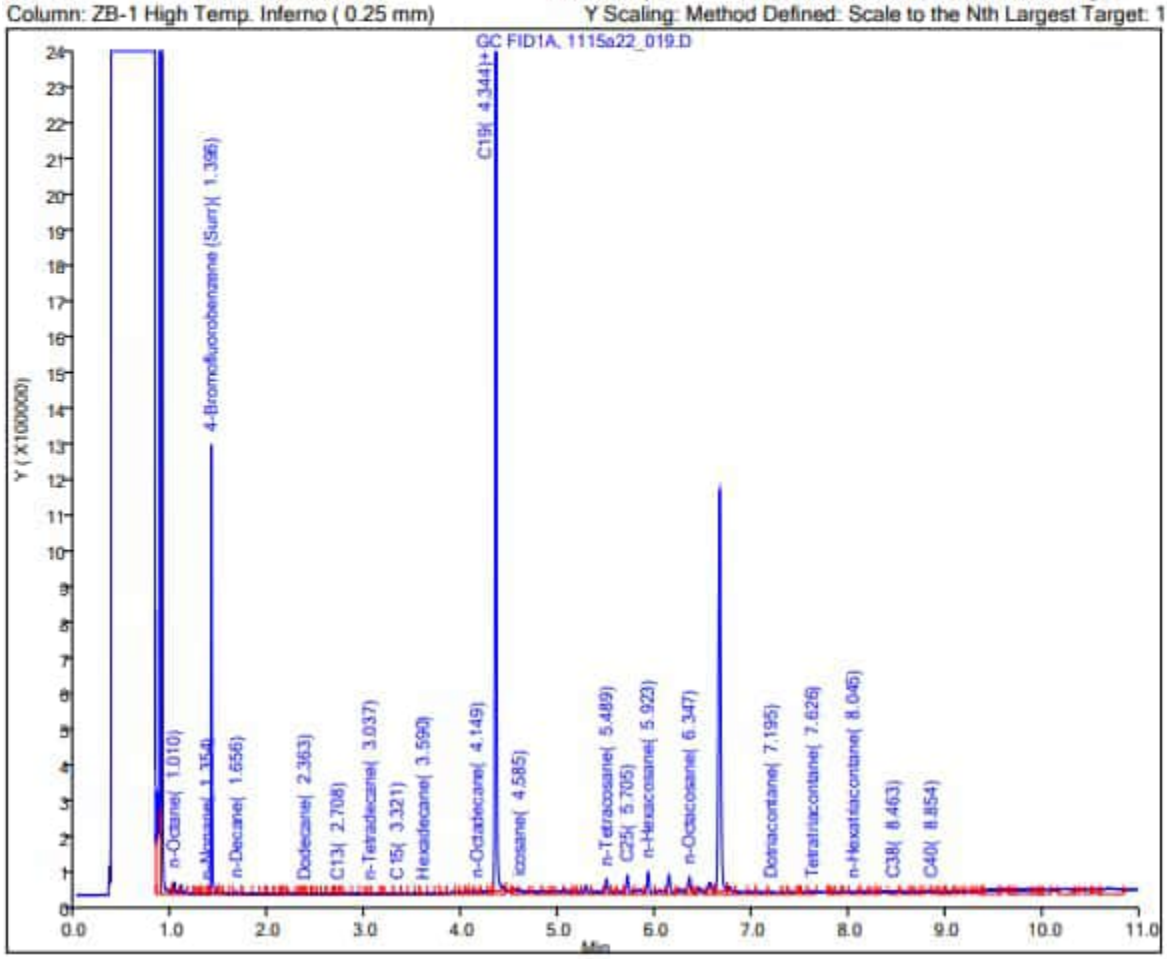
Client ID: RHMW12A-WGN02LF-2210WK5

Operator ID: ar ALS Bottle#: 18 Worklist Smp#: 19

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW12A** Sample ID: RHMW12A-WGN01LF-2211WK1 Sample Date: 11/7/2022

Lab: Eurofins Seattle

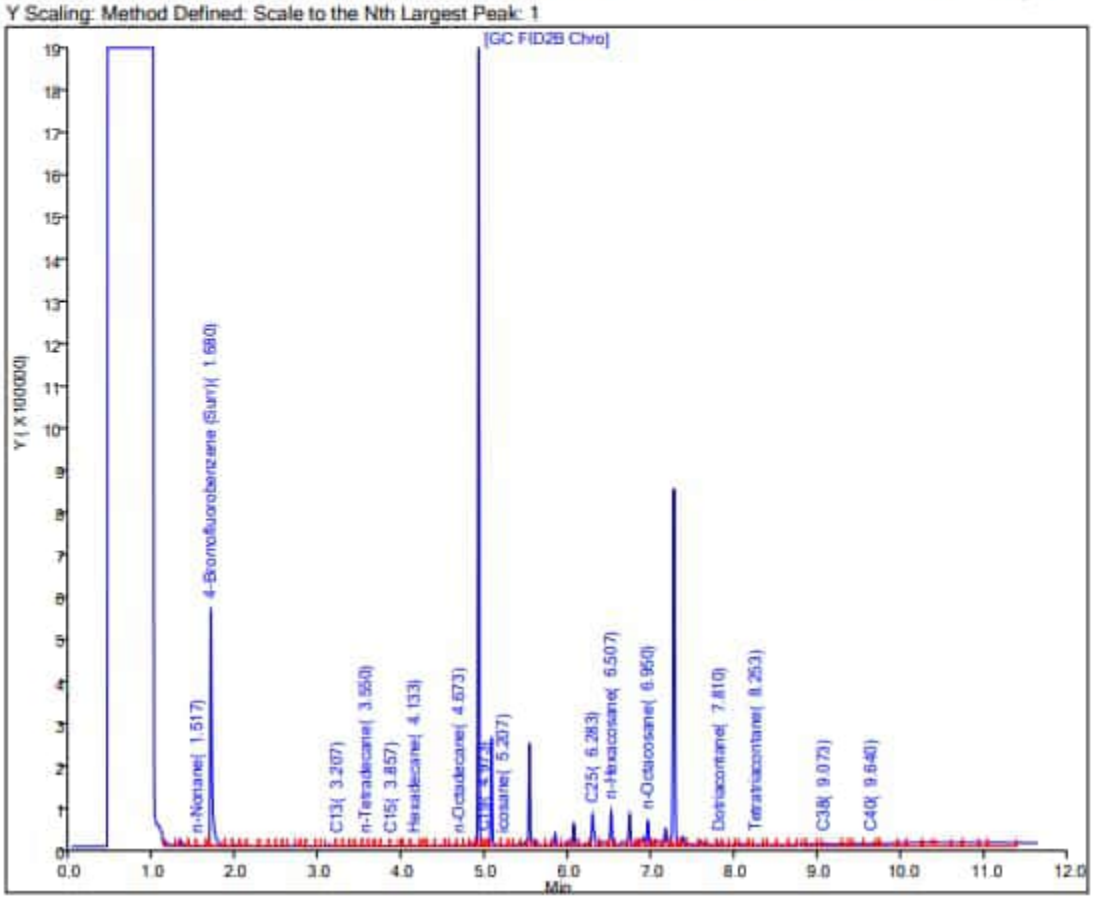
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Nov-2022 13:32:28 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A031.D		
Injection Date:	12-Nov-2022 04:05:02	Instrument ID:	TAC129_R
Lims ID:	580-119804-N-16-A	Lab Sample ID:	580-119804-16
Client ID:	RHMW12A-WGN01LF-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN02LF-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

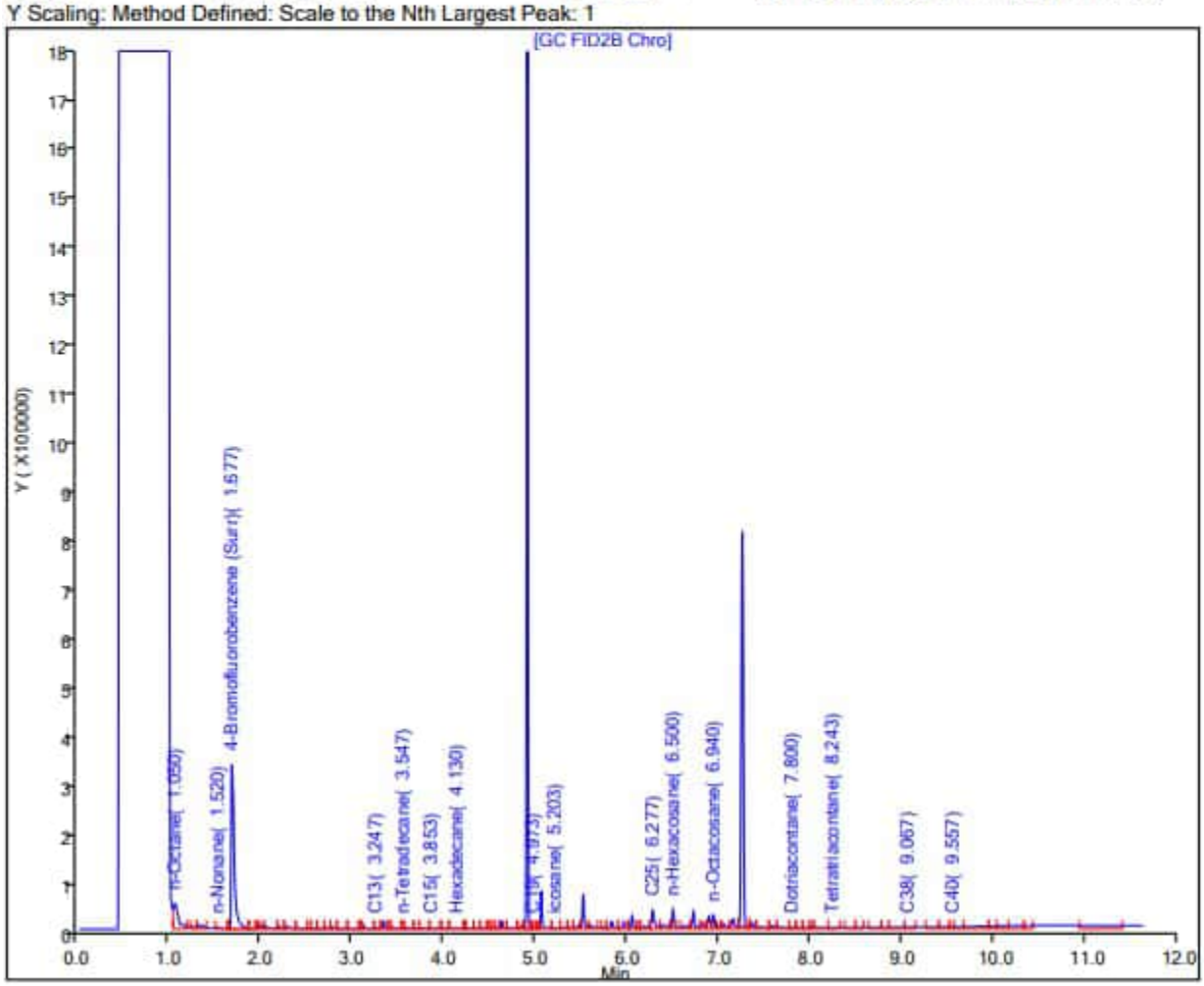
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:32:57 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A039.D				
Injection Date:	29-Nov-2022 23:59:16	Instrument ID:	TAC129_R		
Lims ID:	580-120410-F-1-A	Lab Sample ID:	580-120410-1		
Client ID:	RHMW12A-WGN02LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	66
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW12A** Sample ID: RHMW12A-WGN02LF-2211WK4 Sample Date: 12/1/2022

Lab: Eurofins Seattle

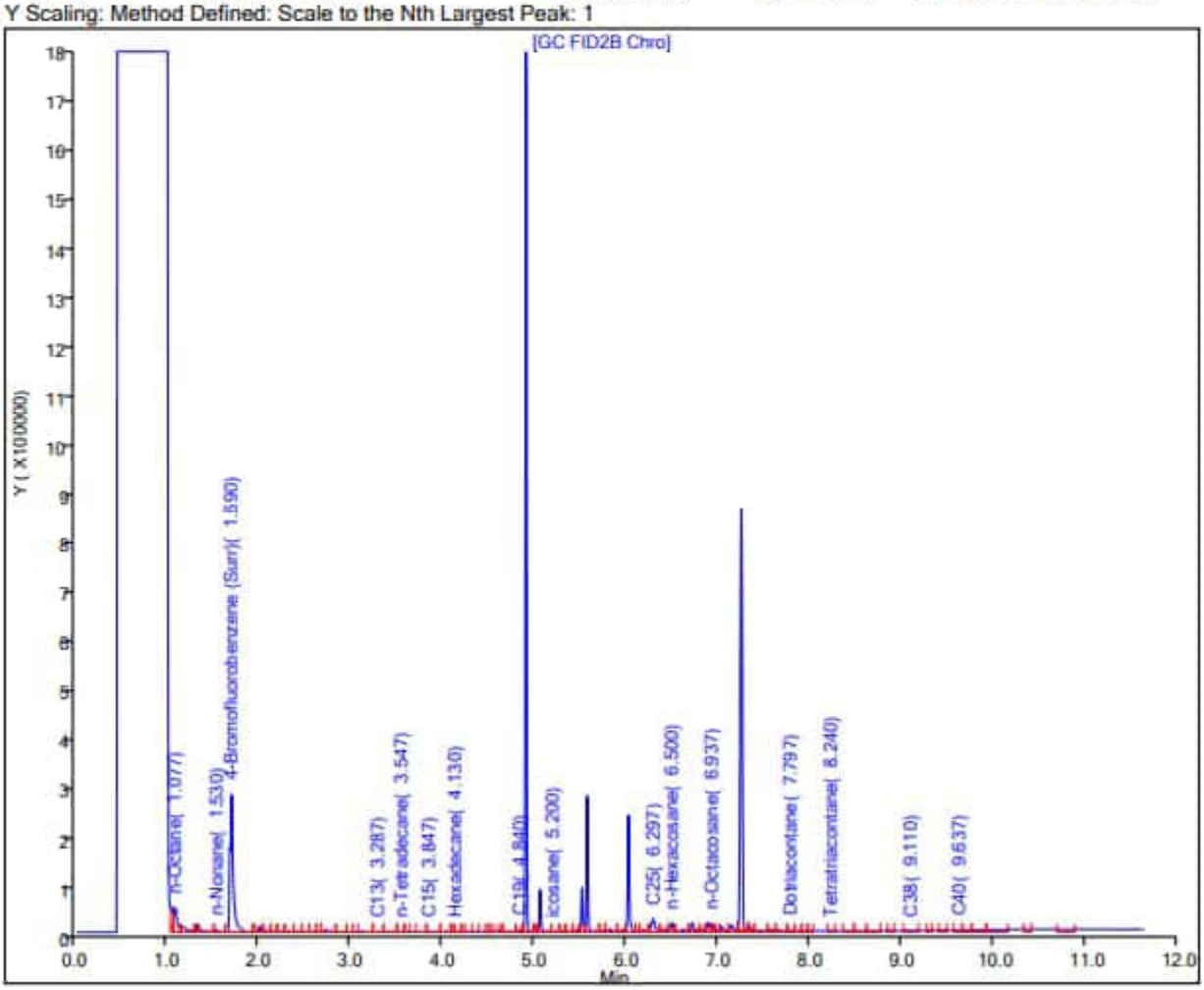
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 07-Dec-2022 13:00:15 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A045.D		
Injection Date:	07-Dec-2022 03:19:10	Instrument ID:	TAC129_R
Lims ID:	580-120678-N-1-A	Lab Sample ID:	580-120678-1
Client ID:	RHMW12A-WGN02LF-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2208WK3 Sample Date: 8/18/2022

Lab: Eurofins Seattle

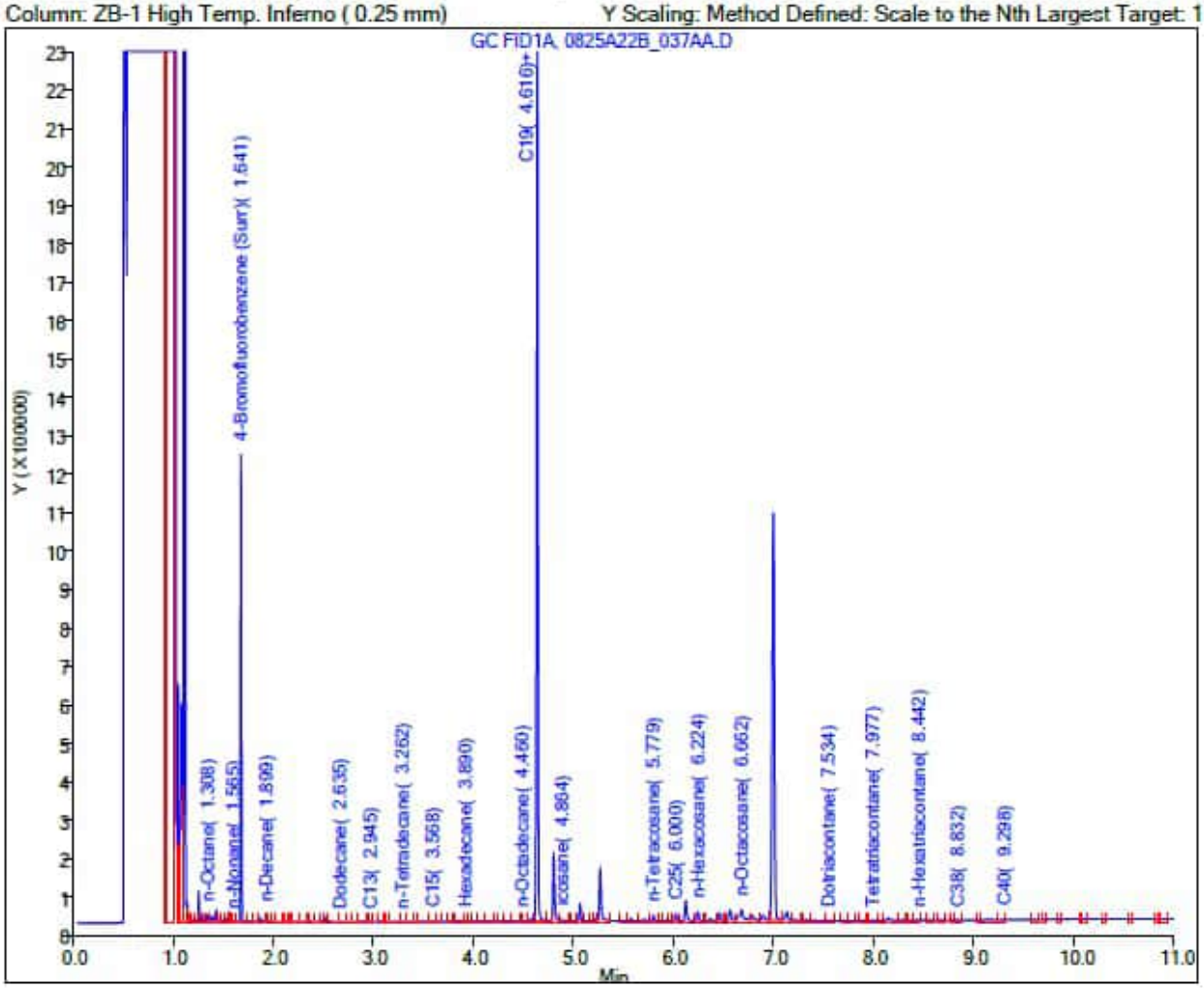
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 28-Aug-2022 22:42:44 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_037AA.D				
Injection Date:	26-Aug-2022 12:04:30	Instrument ID:	TAC020		
Lims ID:	580-117140-D-3-C	Lab Sample ID:	580-117140-3		
Client ID:	RHMW13-05-WGN01G-2208WK3				
Operator ID:	DH	ALS Bottle#:	36	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2208WK4 Sample Date: 8/24/2022

Lab: Eurofins Seattle

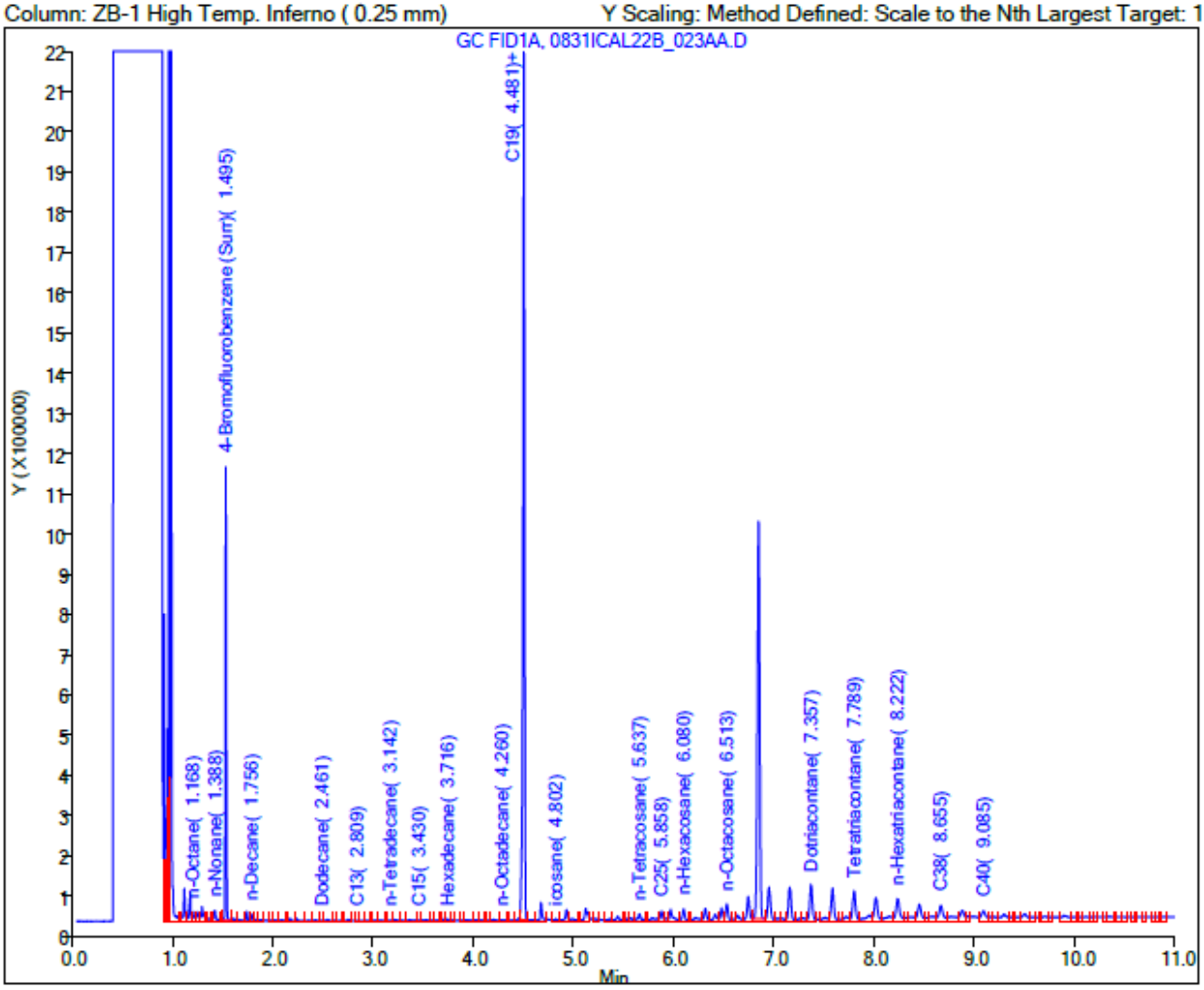
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Sep-2022 14:04:39 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_023AA.D		
Injection Date:	01-Sep-2022 06:46:30	Instrument ID:	TAC020
Lims ID:	580-117295-O-8-A	Lab Sample ID:	580-117295-8
Client ID:	RHMW13-05-WGN01G-2208WK4		
Operator ID:	DH	ALS Bottle#:	11 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2209WK3 Sample Date: 9/21/2022

Lab: Eurofins Seattle

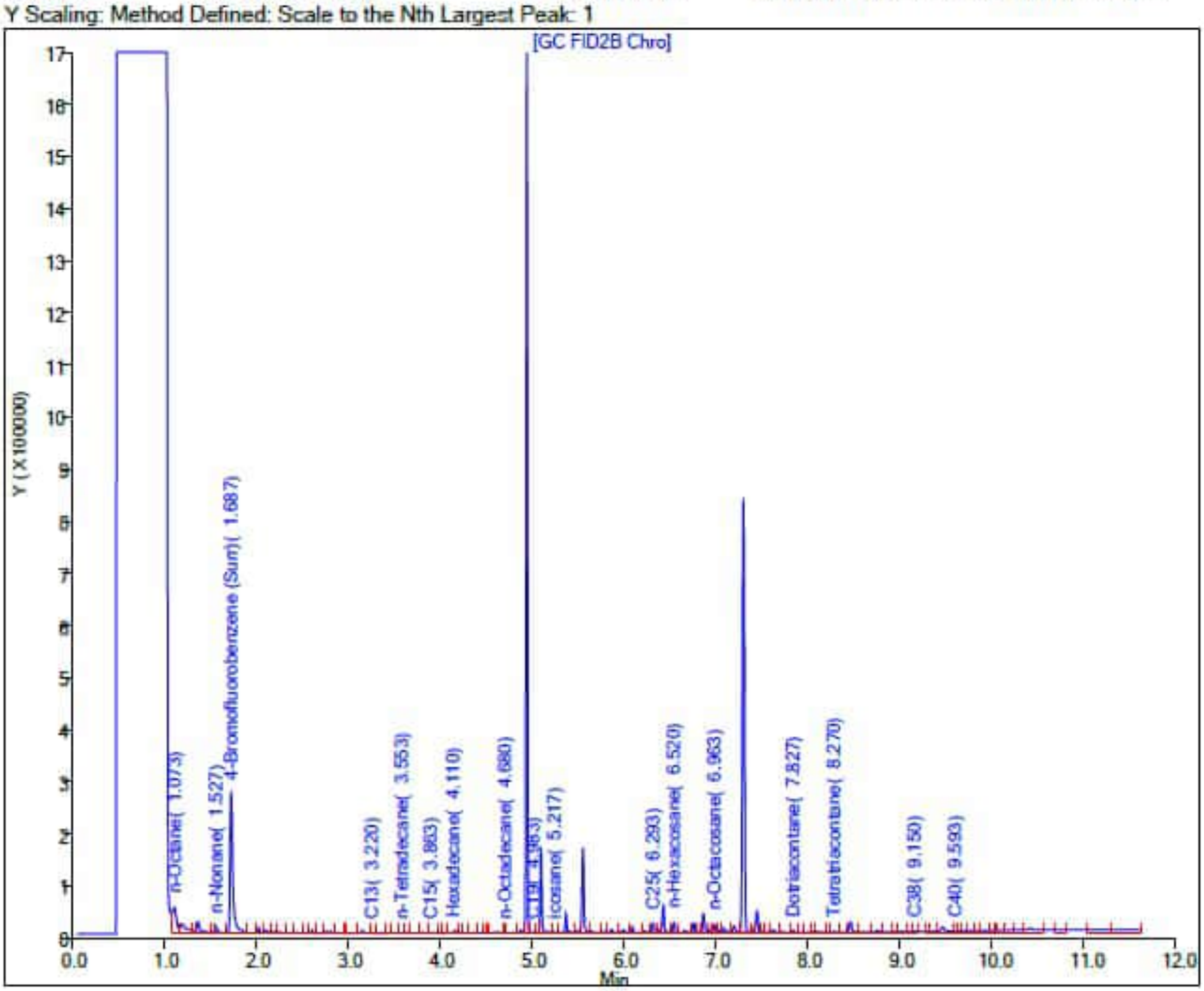
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Sep-2022 14:38:59 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A031.D				
Injection Date:	27-Sep-2022 20:32:05	Instrument ID:	TAC129_R		
Lims ID:	580-118158-R-13-A	Lab Sample ID:	580-118158-13		
Client ID:	RHMW13-05-WGN01G-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

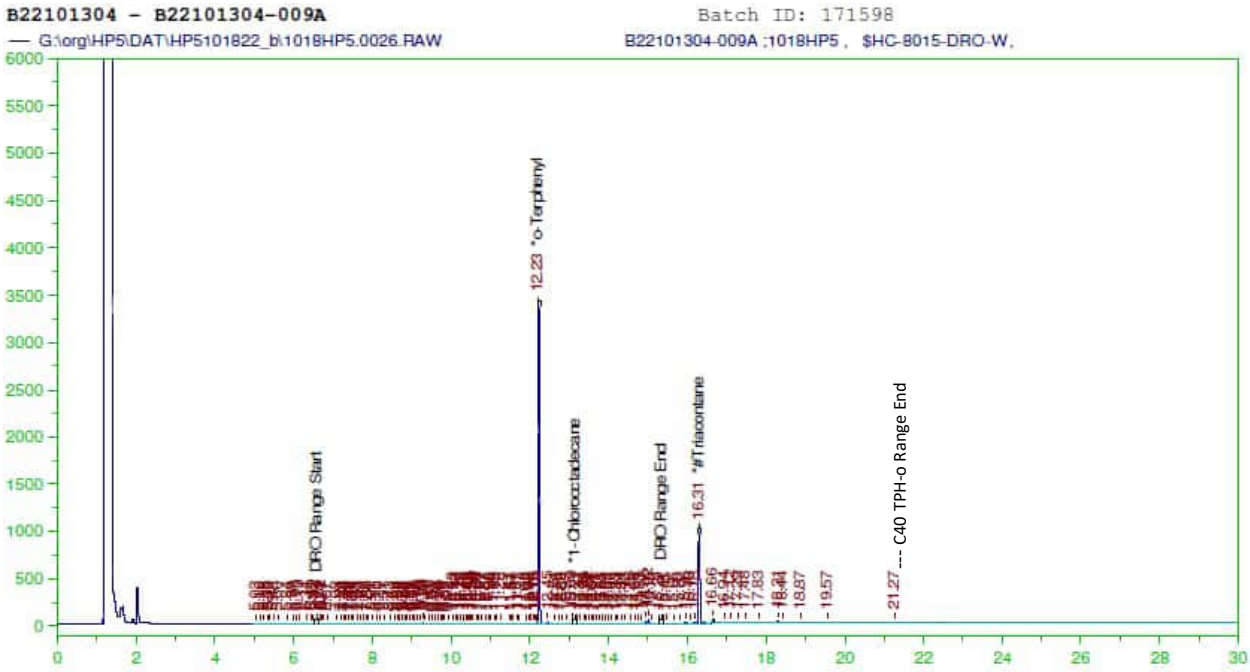


No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2210WK2 Sample Date: 10/12/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) <150 U** **TPH-o (C24 to C40) <150 U**



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2210WK3 Sample Date: 10/19/2022

Lab: Eurofins Seattle

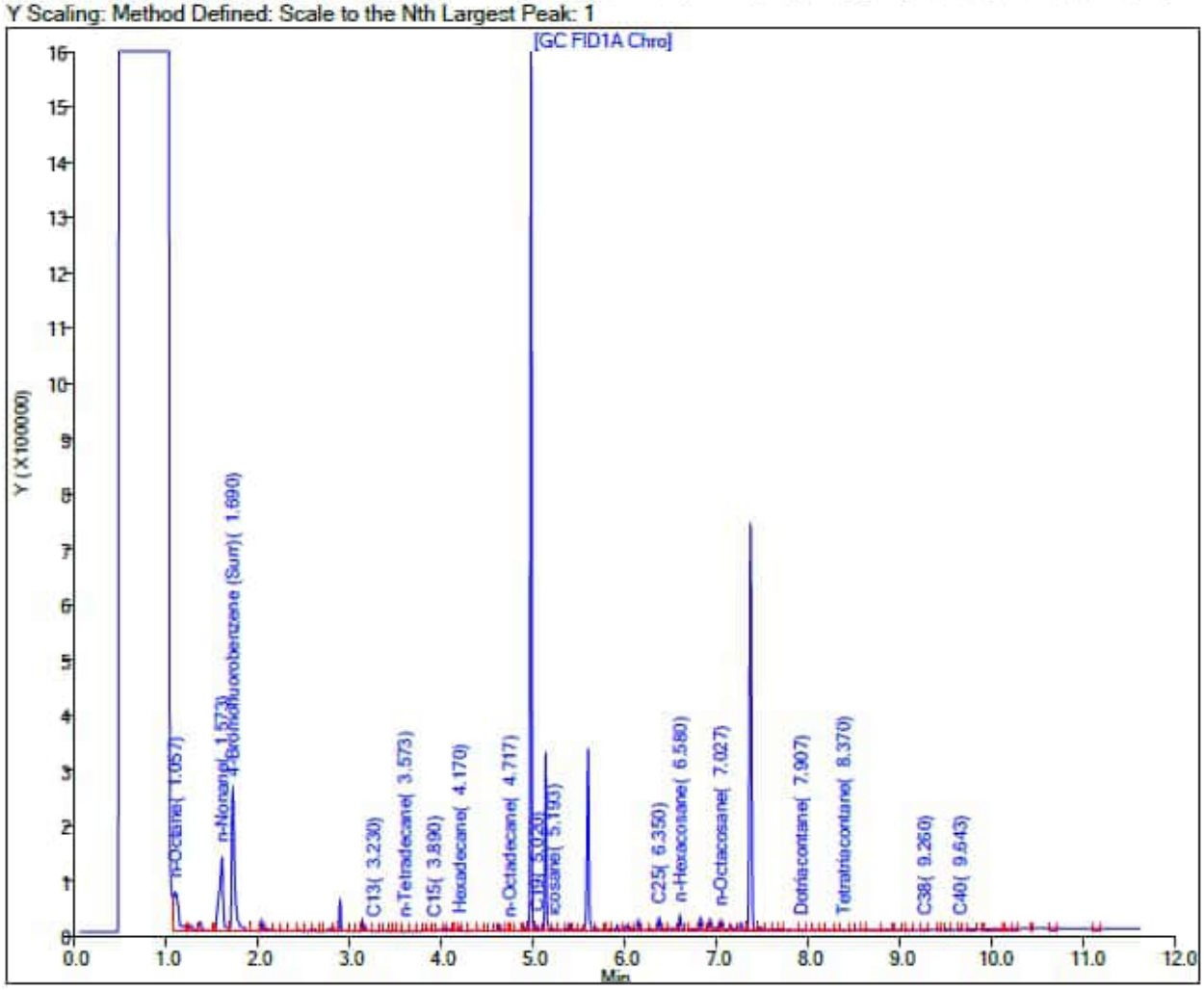
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 21:11:11 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221026-85490.b\102622A020.D				
Injection Date:	26-Oct-2022 20:48:54	Instrument ID:	TAC129		
Lims ID:	580-119078-F-3-A	Lab Sample ID:	580-119078-3		
Client ID:	RHMW13-05-WGN01G-2210WK3				
Operator ID:	DH/CC	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN02G-2210WK3 Sample Date: 10/21/2022

Lab: Eurofins Seattle

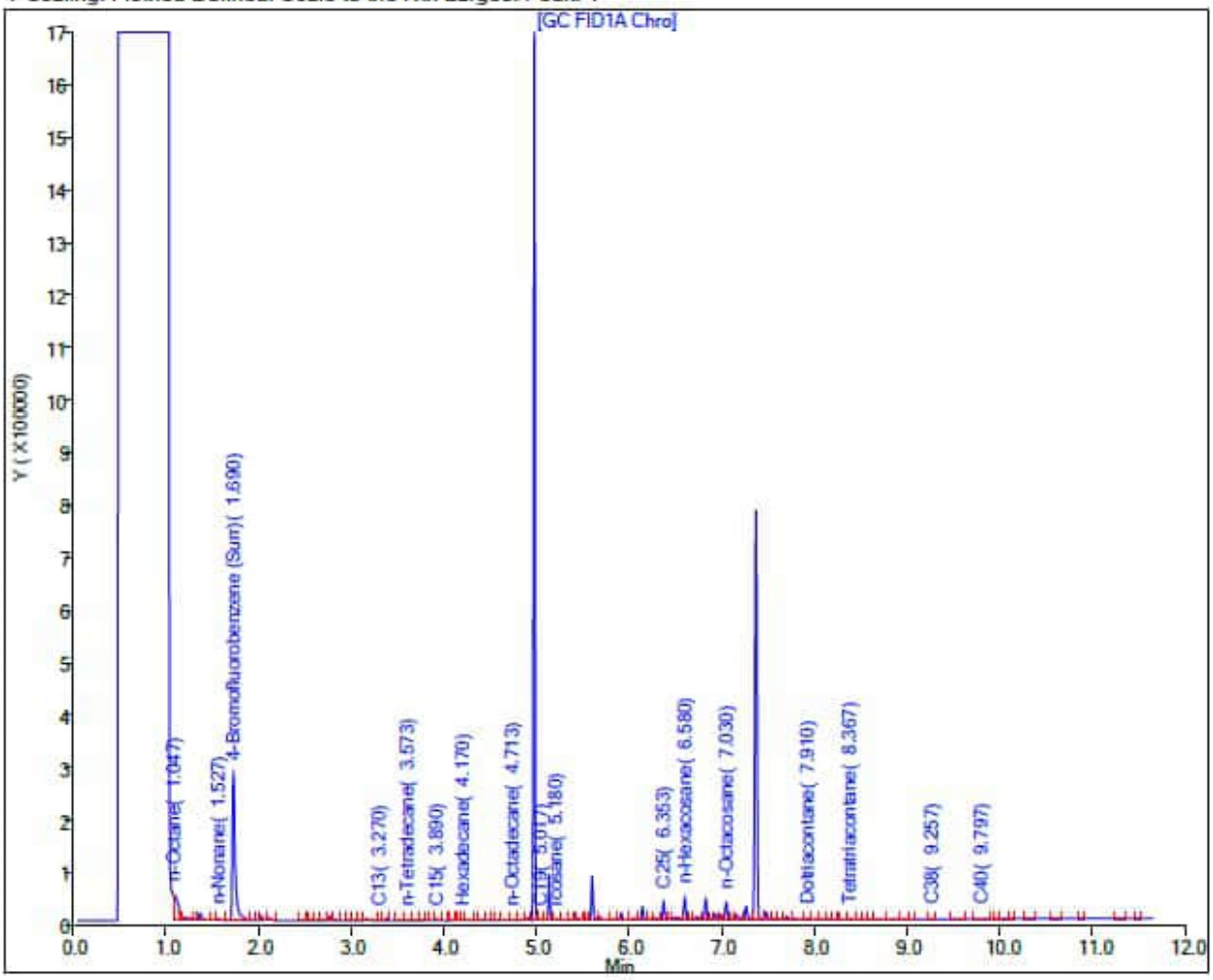
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 28-Oct-2022 14:35:30 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A048.D				
Injection Date:	27-Oct-2022 23:19:51	Instrument ID:	TAC129		
Lims ID:	580-119111-N-11-A	Lab Sample ID:	580-119111-11		
Client ID:	RHMW13-05-WGN02G-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2210WK4 Sample Date: 10/26/2022

Lab: Eurofins Seattle

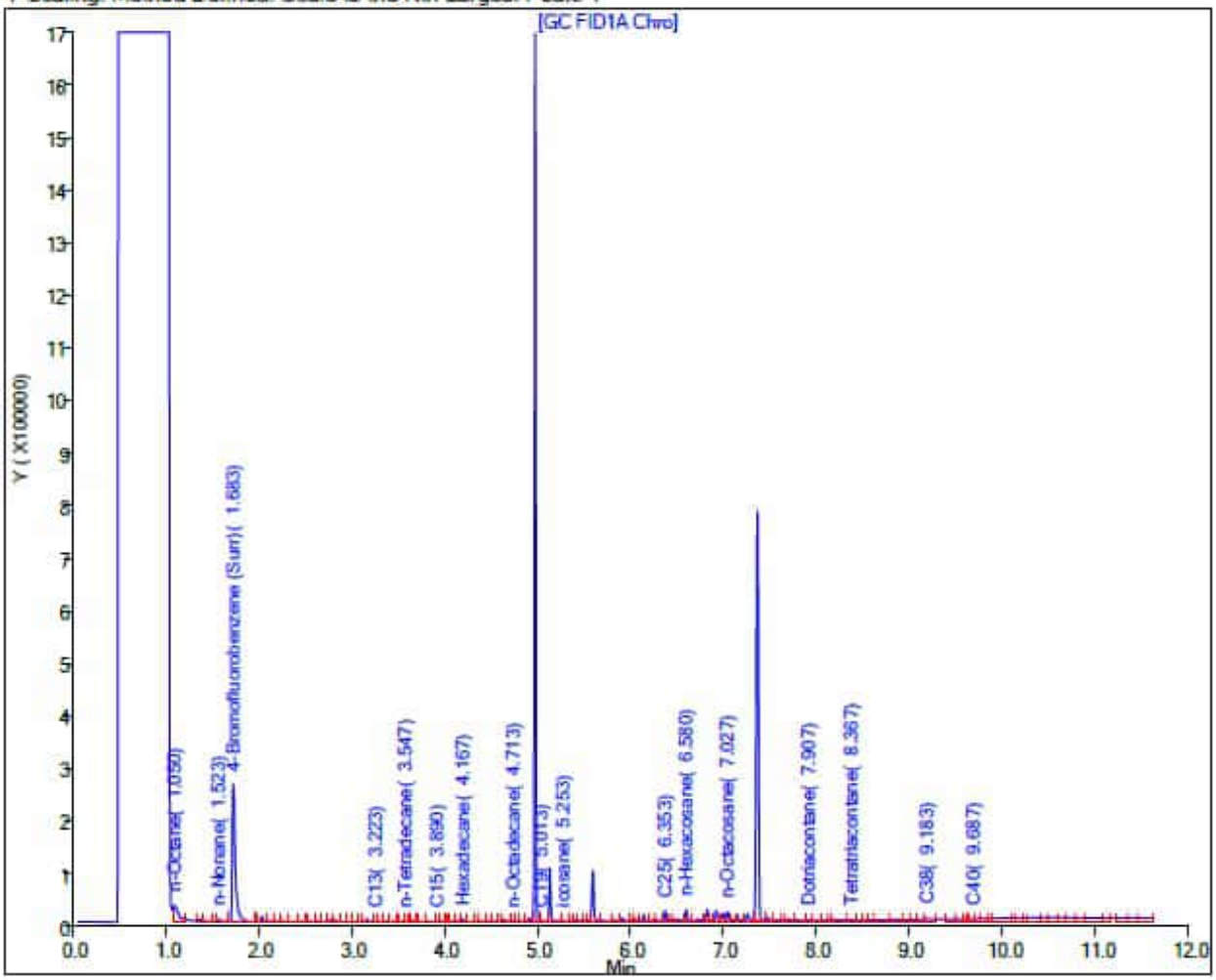
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <330 U**

Report Date: 03-Nov-2022 14:11:59 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A040.D				
Injection Date:	02-Nov-2022 23:08:03	Instrument ID:	TAC129		
Lims ID:	580-119371-C-15-A	Lab Sample ID:	580-119371-15		
Client ID:	RHMW13-05-WGN01G-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN02G-2210WK4 Sample Date: 10/28/2022

Lab: Eurofins Seattle

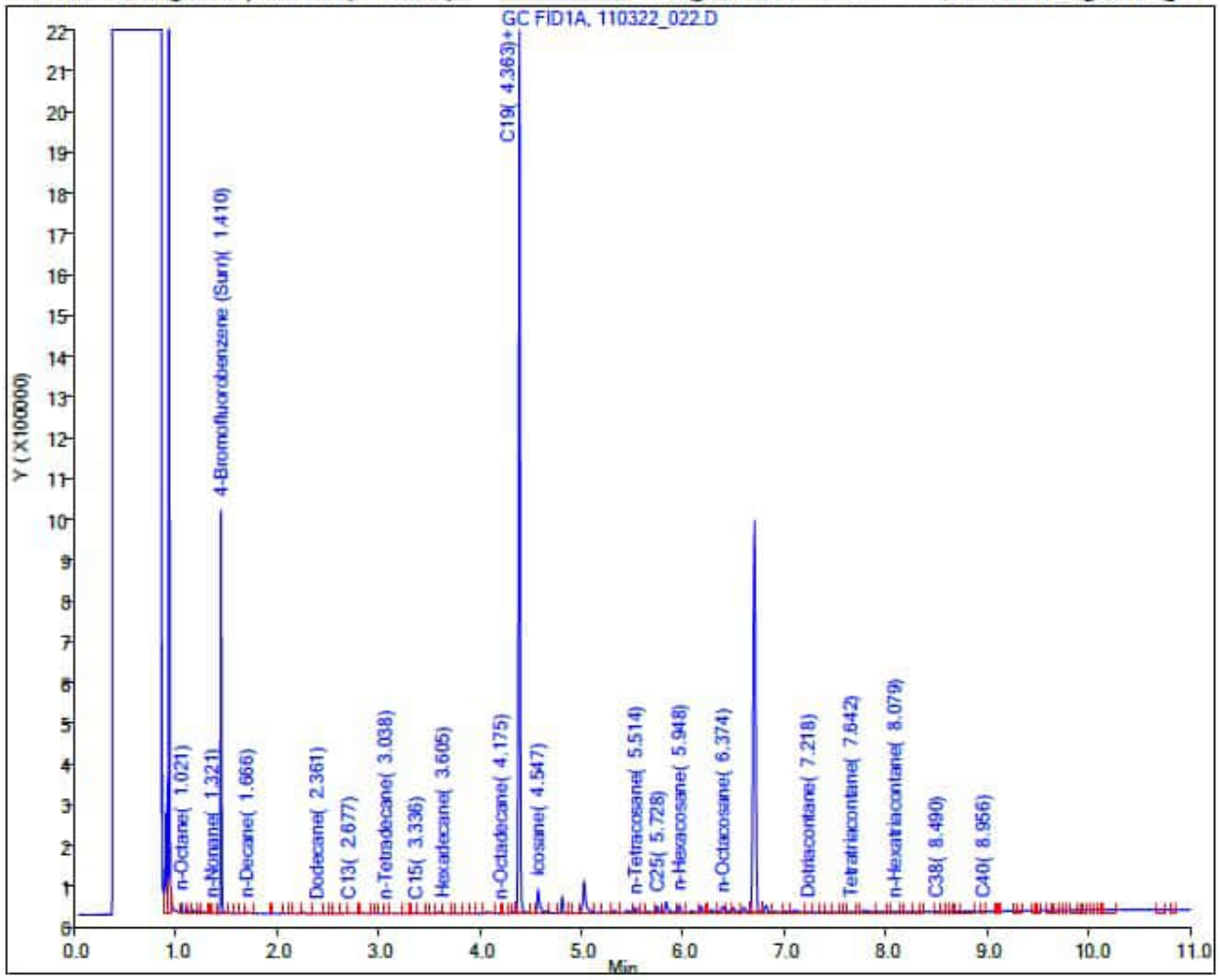
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 04-Nov-2022 13:44:25 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_022.D				
Injection Date:	03-Nov-2022 21:53:30	Instrument ID:	TAC020		
Lims ID:	580-119483-O-17-A	Lab Sample ID:	580-119483-17		
Client ID:	RHMW13-05-WGN02G-2210WK4				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2210WK5 Sample Date: 10/31/2022

Lab: Eurofins Seattle

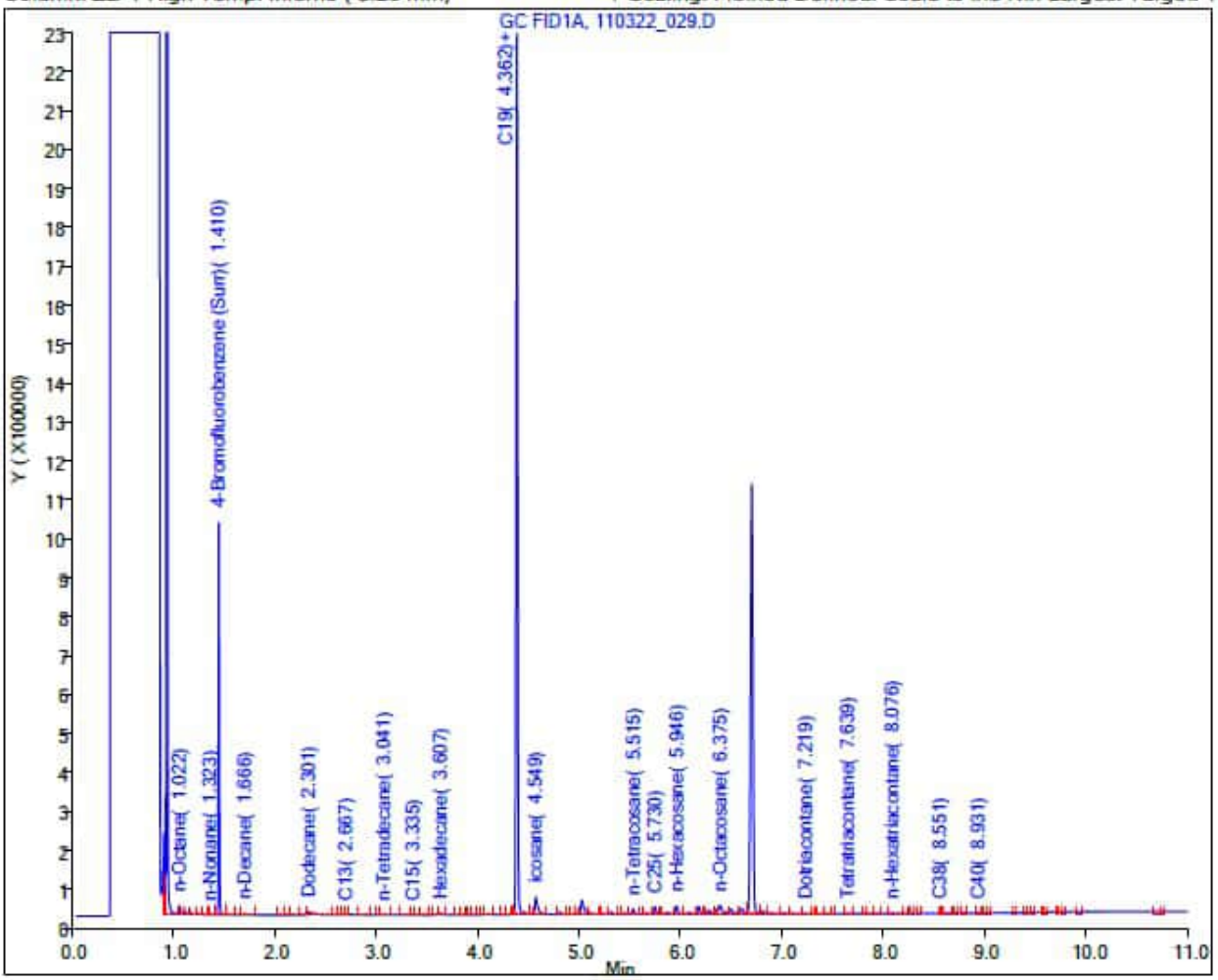
Results (ug/L): **TPH-d (C10 to C24) <82 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 15:21:59 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_029.D				
Injection Date:	04-Nov-2022 00:15:30	Instrument ID:	TAC020		
Lims ID:	580-119483-O-23-A	Lab Sample ID:	580-119483-23		
Client ID:	RHMW13-05-WGN01G-2210WK5				
Operator ID:	DH	ALS Bottle#:	28	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN02G-2210WK5 Sample Date: 11/4/2022

Lab: Eurofins Seattle

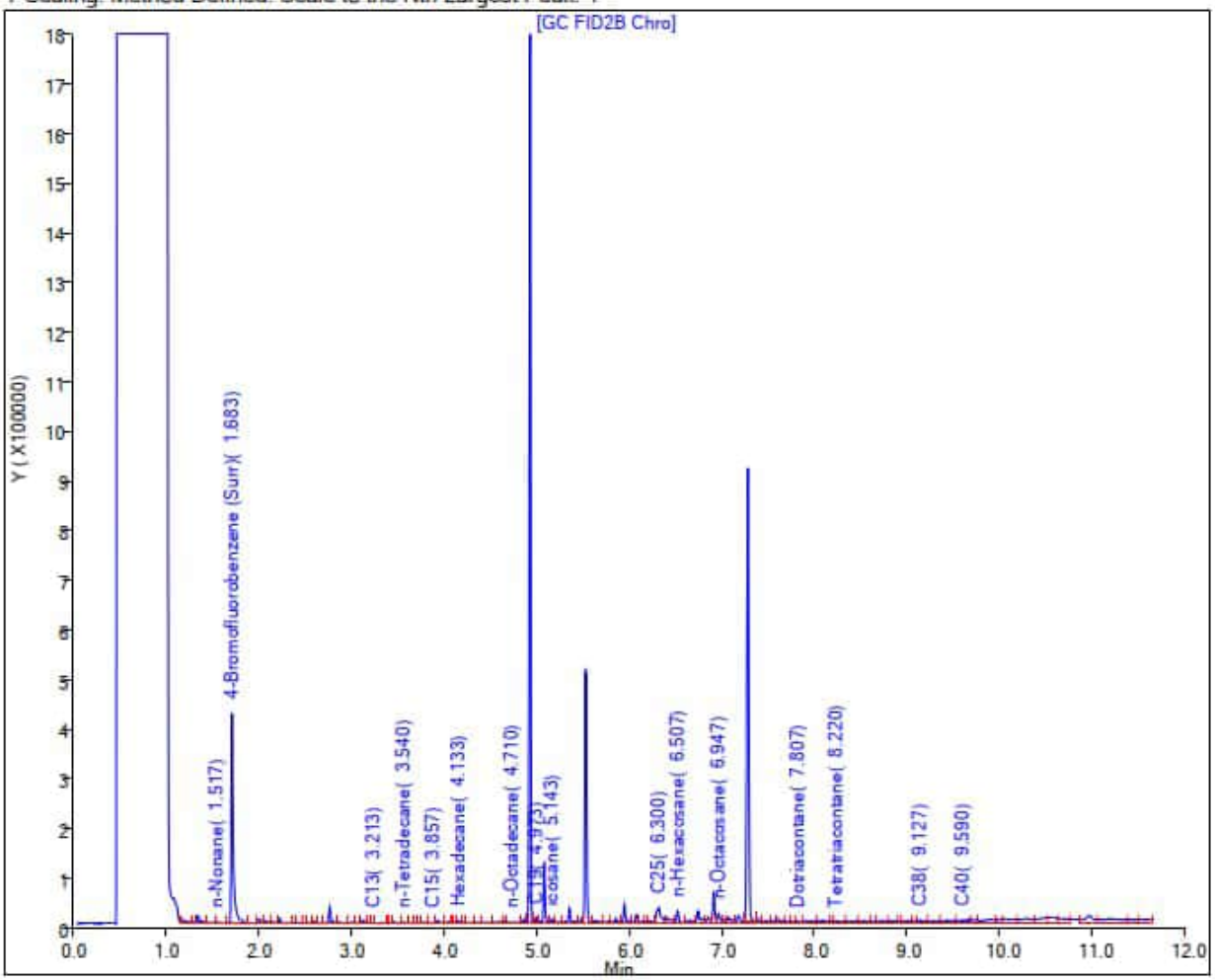
Results (ug/L): **TPH-d (C10 to C24) 62 J** **TPH-o (C24 to C40) <250 U**

Report Date: 14-Nov-2022 13:32:37 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A037.D				
Injection Date:	12-Nov-2022 05:00:35	Instrument ID:	TAC129_R		
Lims ID:	580-119804-O-5-A	Lab Sample ID:	580-119804-5		
Client ID:	RHMW13-05-WGN02G-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



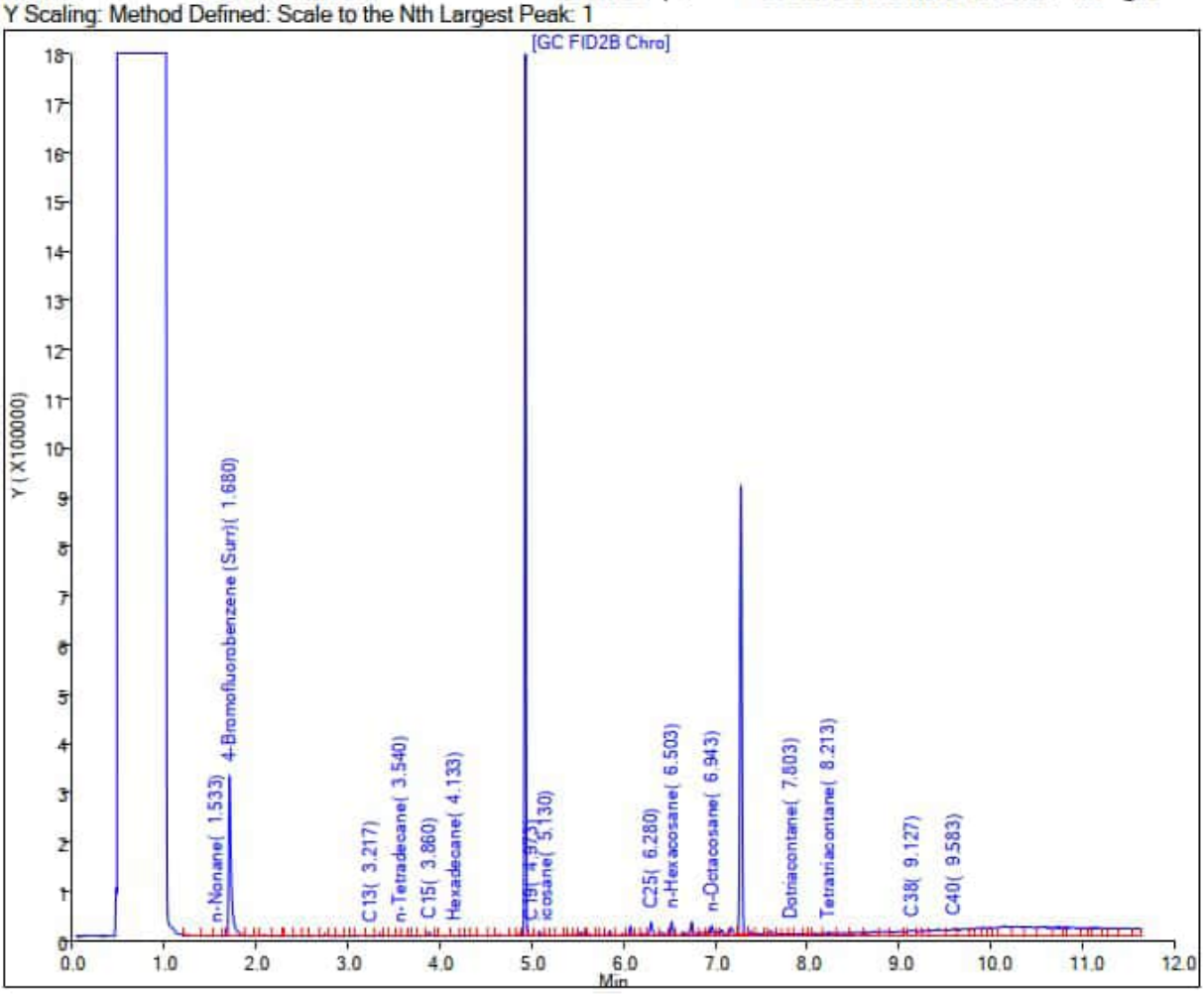
Results (ug/L): **TPH-d SGC (C10 to C24) <83 U** **TPH-o SGC (C24 to C40) <250 U**

Report Date: 17-Nov-2022 11:55:21 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221116-85834.b\1116z22A063.D				
Injection Date:	17-Nov-2022 07:39:07	Instrument ID:	TAC129_R		
Lims ID:	580-119804-O-5-B	Lab Sample ID:	580-119804-5		
Client ID:	RHMW13-05-WGN02G-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2211WK1 Sample Date: 11/7/2022

Lab: Eurofins Seattle

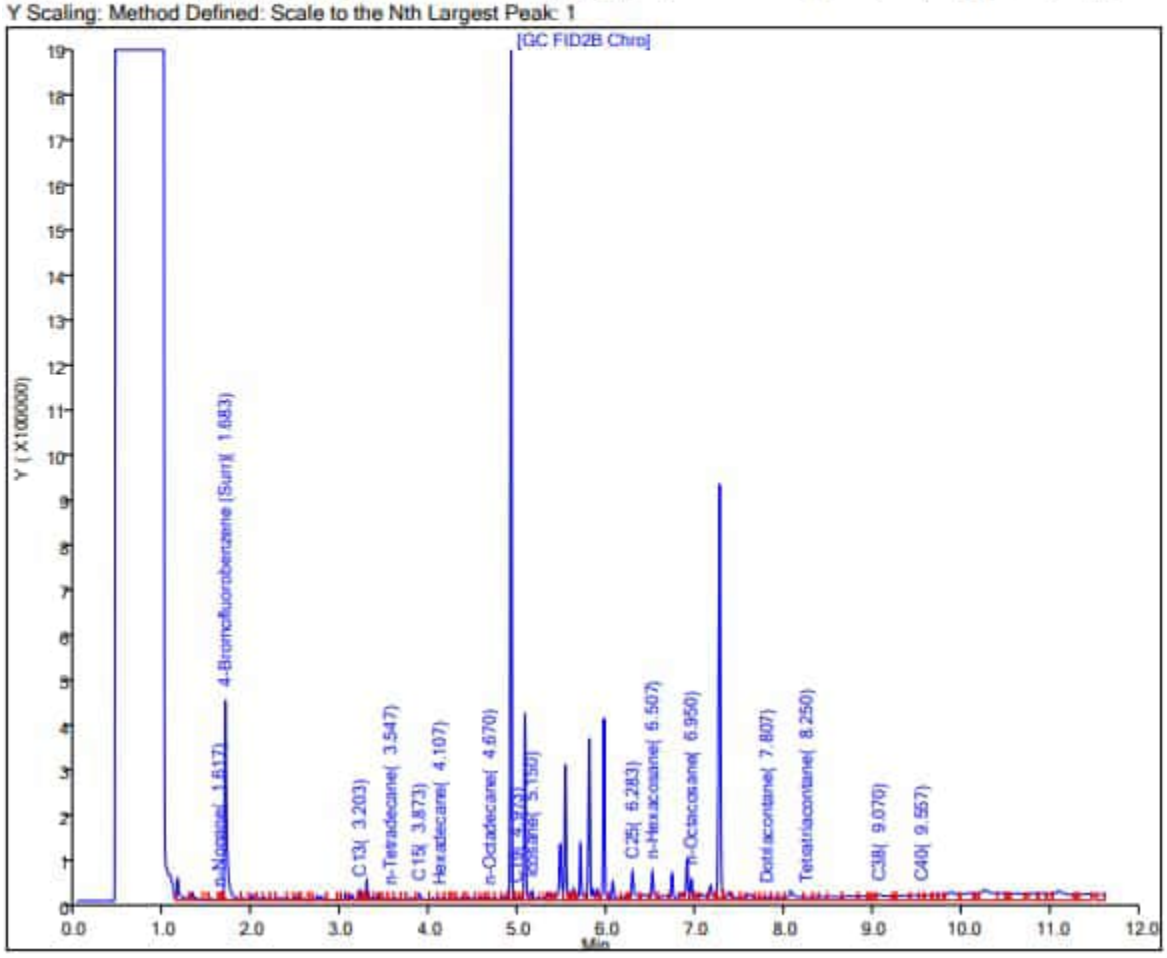
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <290 U**

Report Date: 14-Nov-2022 13:32:59 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A051.D				
Injection Date:	12-Nov-2022 07:09:49	Instrument ID:	TAC129_R		
Lims ID:	580-119804-N-22-A	Lab Sample ID:	580-119804-22		
Client ID:	RHMW13-05-WGN01G-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN02G-2211WK1 Sample Date: 11/11/2022

Lab: Eurofins Seattle

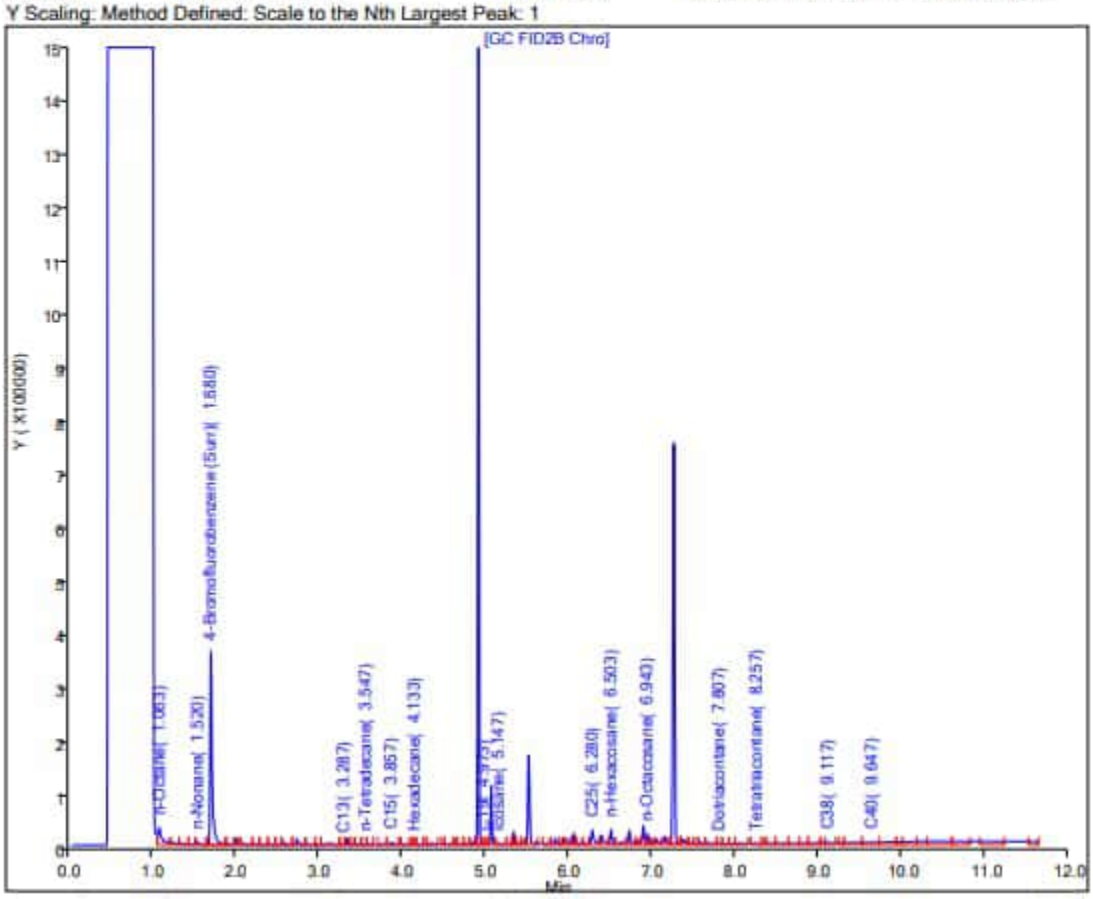
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Nov-2022 12:12:06 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85807.b\091522A047.D		
Injection Date:	16-Nov-2022 06:29:04	Instrument ID:	TAC129_R
Lims ID:	580-120006-O-6-A	Lab Sample ID:	580-120006-6
Client ID:	RHMW13-05-WGN02G-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2211WK2 Sample Date: 11/14/2022

Lab: Eurofins Seattle

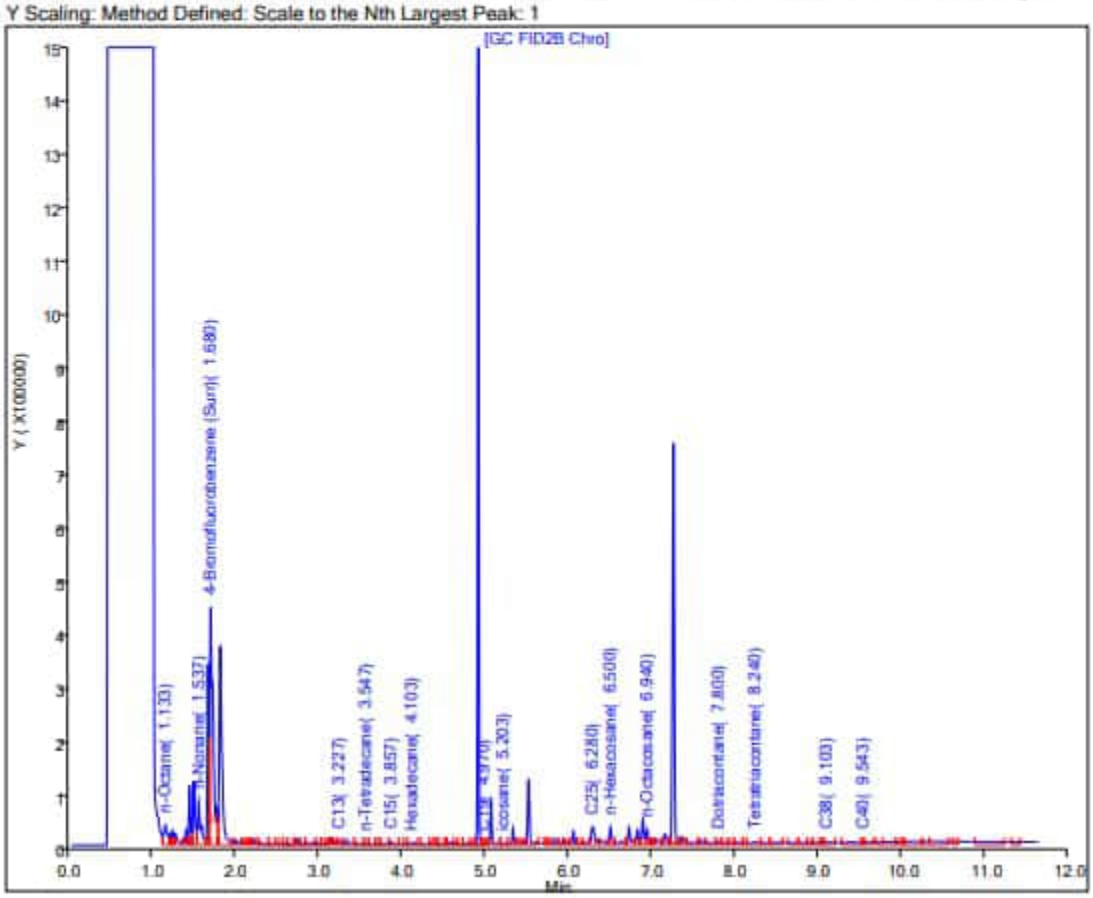
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <310 U**

Report Date: 23-Nov-2022 17:52:24 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221123-85945.b\112322A009.D		
Injection Date:	23-Nov-2022 15:47:33	Instrument ID:	TAC129_R
Lims ID:	580-120022-O-4-A	Lab Sample ID:	580-120022-4
Client ID:	RHMW13-05-WGN01G-2211WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN02G-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

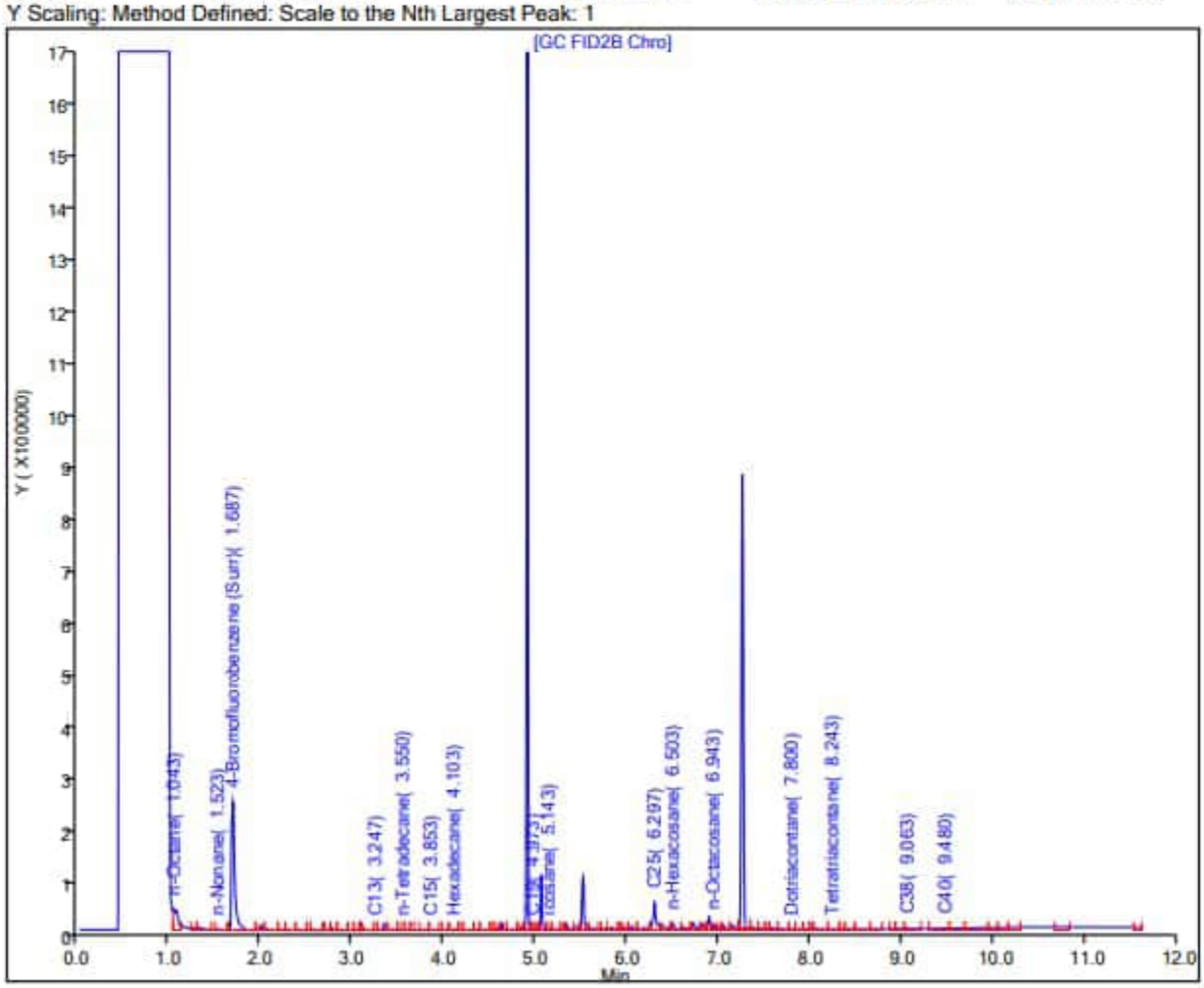
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:33:00 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A041.D				
Injection Date:	30-Nov-2022 00:17:57	Instrument ID:	TAC129_R		
Lims ID:	580-120410-F-3-A	Lab Sample ID:	580-120410-3		
Client ID:	RHMW13-05-WGN02G-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW13-05** Sample ID: RHMW13-05-WGN01G-2211WK4 Sample Date: 11/30/2022

Lab: Eurofins Seattle

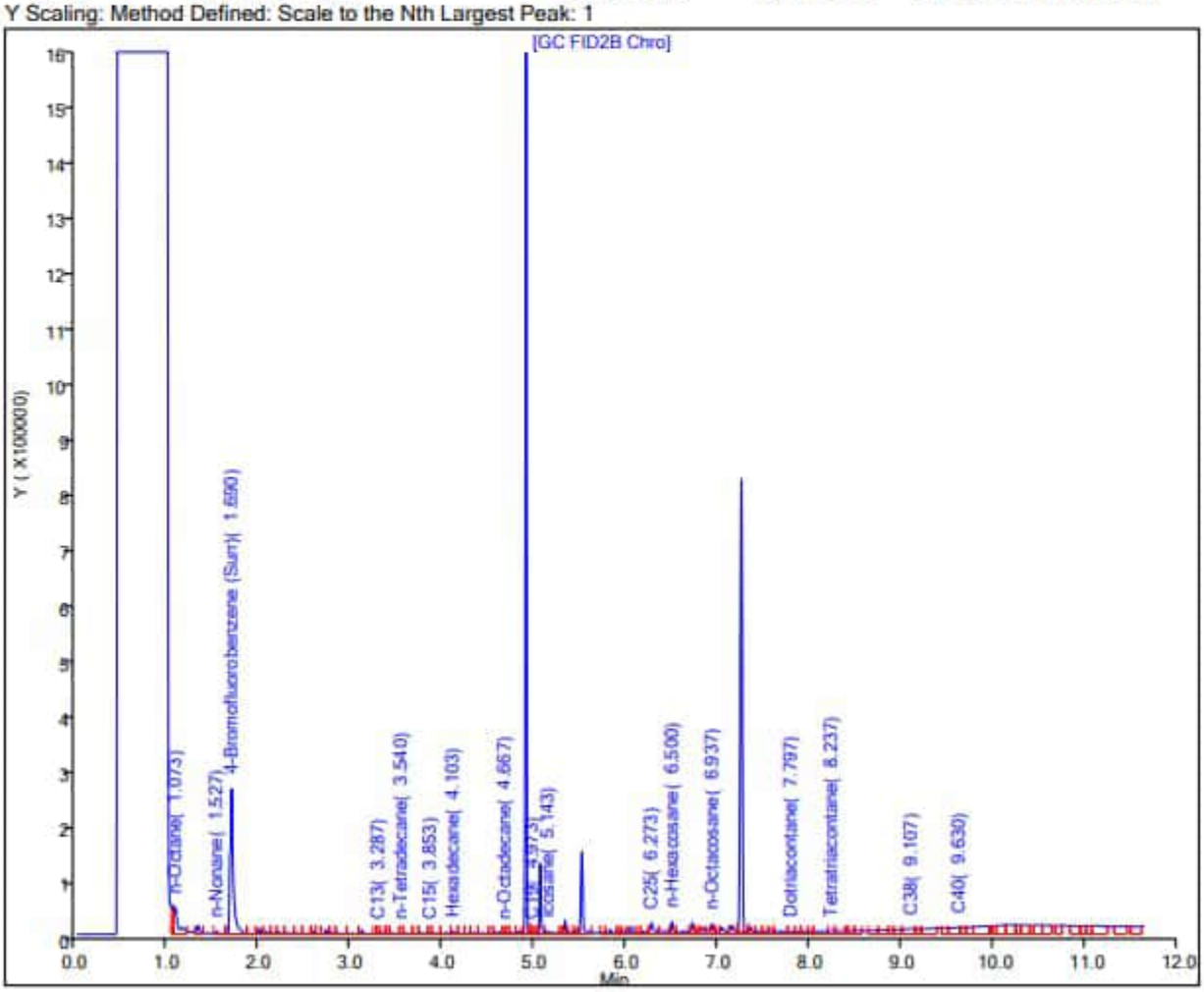
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 07-Dec-2022 12:59:04 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A033.D		
Injection Date:	07-Dec-2022 01:28:27	Instrument ID:	TAC129_R
Lims ID:	580-120703-O-12-A	Lab Sample ID:	580-120703-12
Client ID:	RHMW13-05-WGN01G-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2209WK1 Sample Date: 9/7/2022

Lab: Eurofins Seattle

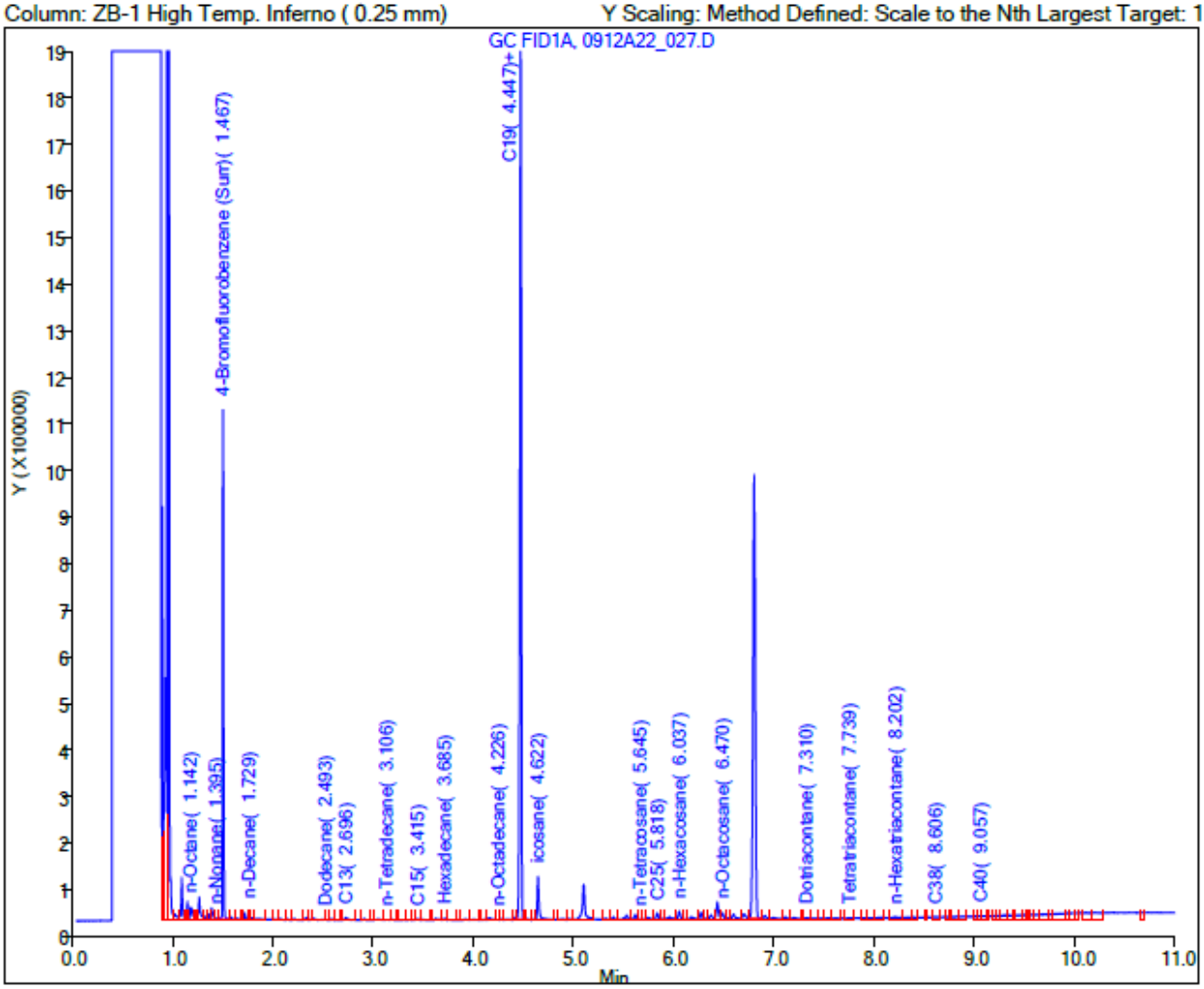
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 13-Sep-2022 12:03:15 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_027.D				
Injection Date:	13-Sep-2022 02:02:30	Instrument ID:	TAC020		
Lims ID:	580-117706-F-5-A	Lab Sample ID:	580-117706-5		
Client ID:	RHMW14-03-WGN01G-2209WK1				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2209WK2 Sample Date: 9/13/2022

Lab: Eurofins Seattle

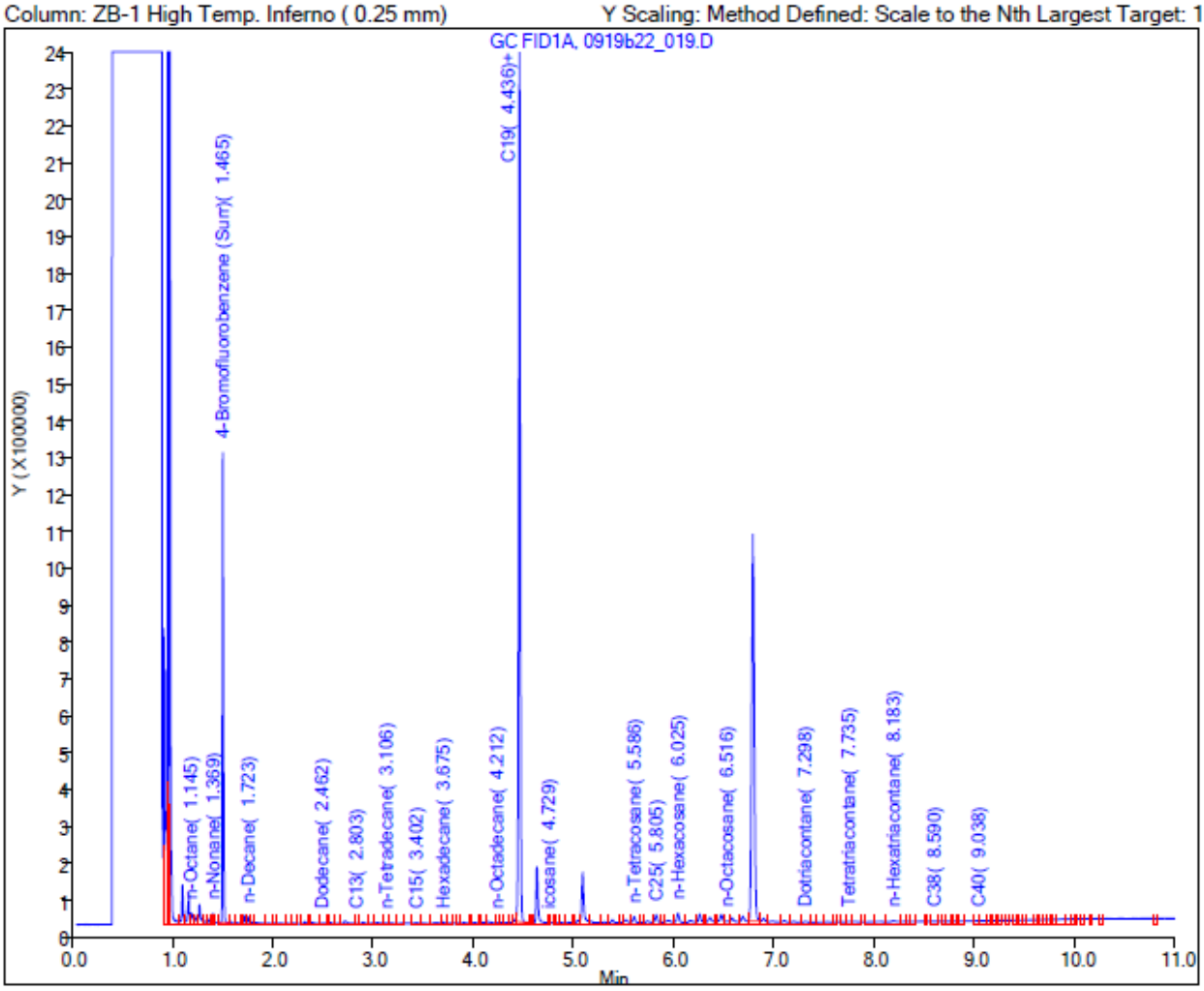
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Sep-2022 11:53:35 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_019.D				
Injection Date:	19-Sep-2022 22:29:30	Instrument ID:	TAC020		
Lims ID:	580-117880-F-9-A	Lab Sample ID:	580-117880-9		
Client ID:	RHMW14-03-WGN01G-2209WK2				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2210WK1 Sample Date: 10/5/2022

Lab: Eurofins Seattle

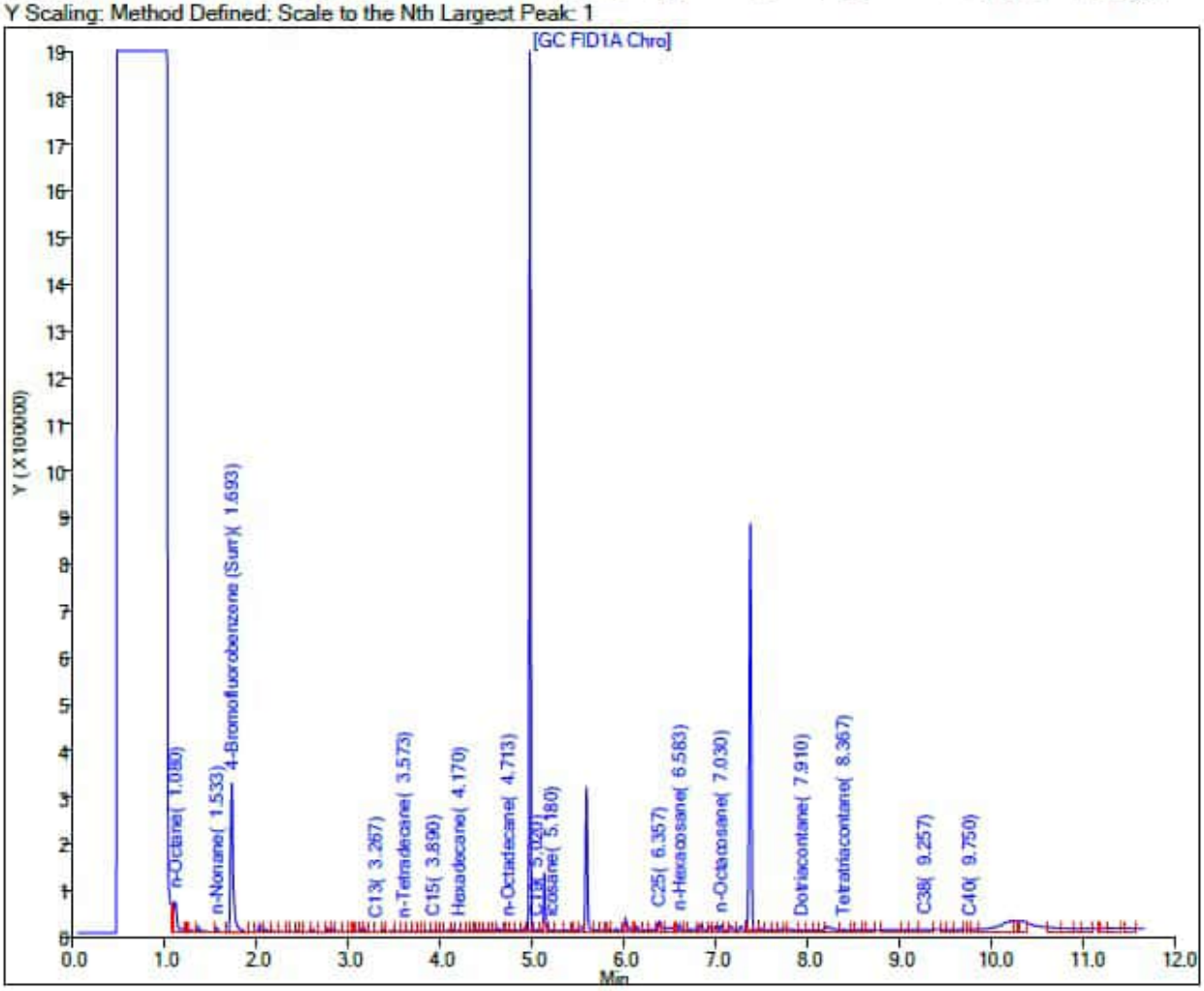
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:55:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A042.D				
Injection Date:	10-Oct-2022 23:25:54	Instrument ID:	TAC129		
Lims ID:	580-118612-E-8-A	Lab Sample ID:	580-118612-8		
Client ID:	RHMW14-03-WGN01G-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

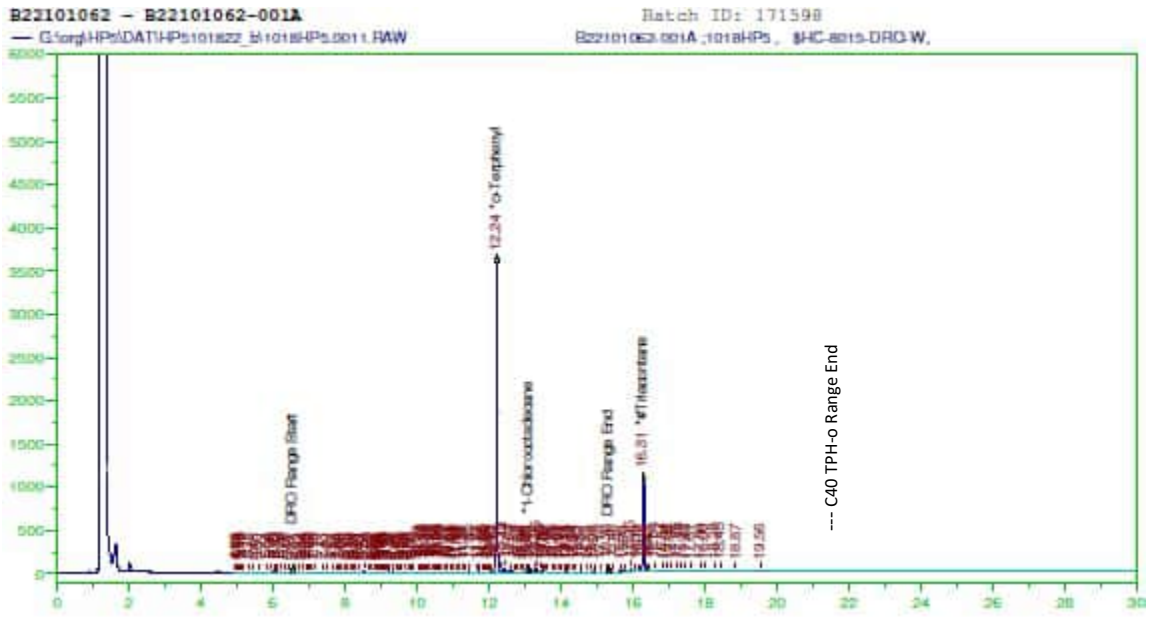


No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2210WK2 Sample Date: 10/11/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) <152 U** **TPH-o (C24 to C40) <152 U**



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2210WK3 Sample Date: 10/17/2022

Lab: Eurofins Seattle

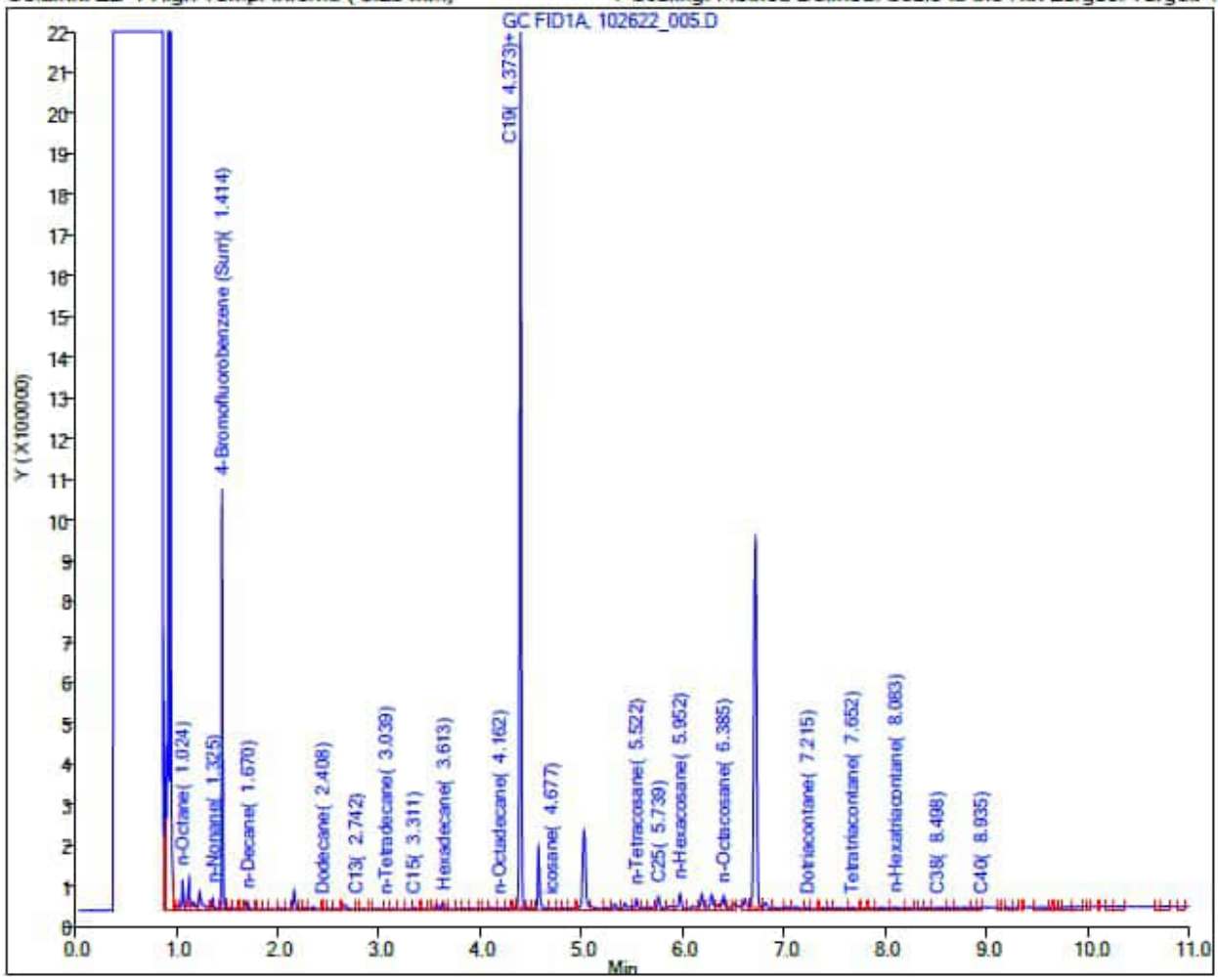
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 22:30:19 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_005.D		
Injection Date:	26-Oct-2022 15:36:30	Instrument ID:	TAC020
Lims ID:	580-118964-O-3-A	Lab Sample ID:	580-118964-3
Client ID:	RHMW14-03-WGN01G-2210WK3		
Operator ID:	DH	ALS Bottle#:	4 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN02G-2210WK3 Sample Date: 10/19/2022

Lab: Eurofins Seattle

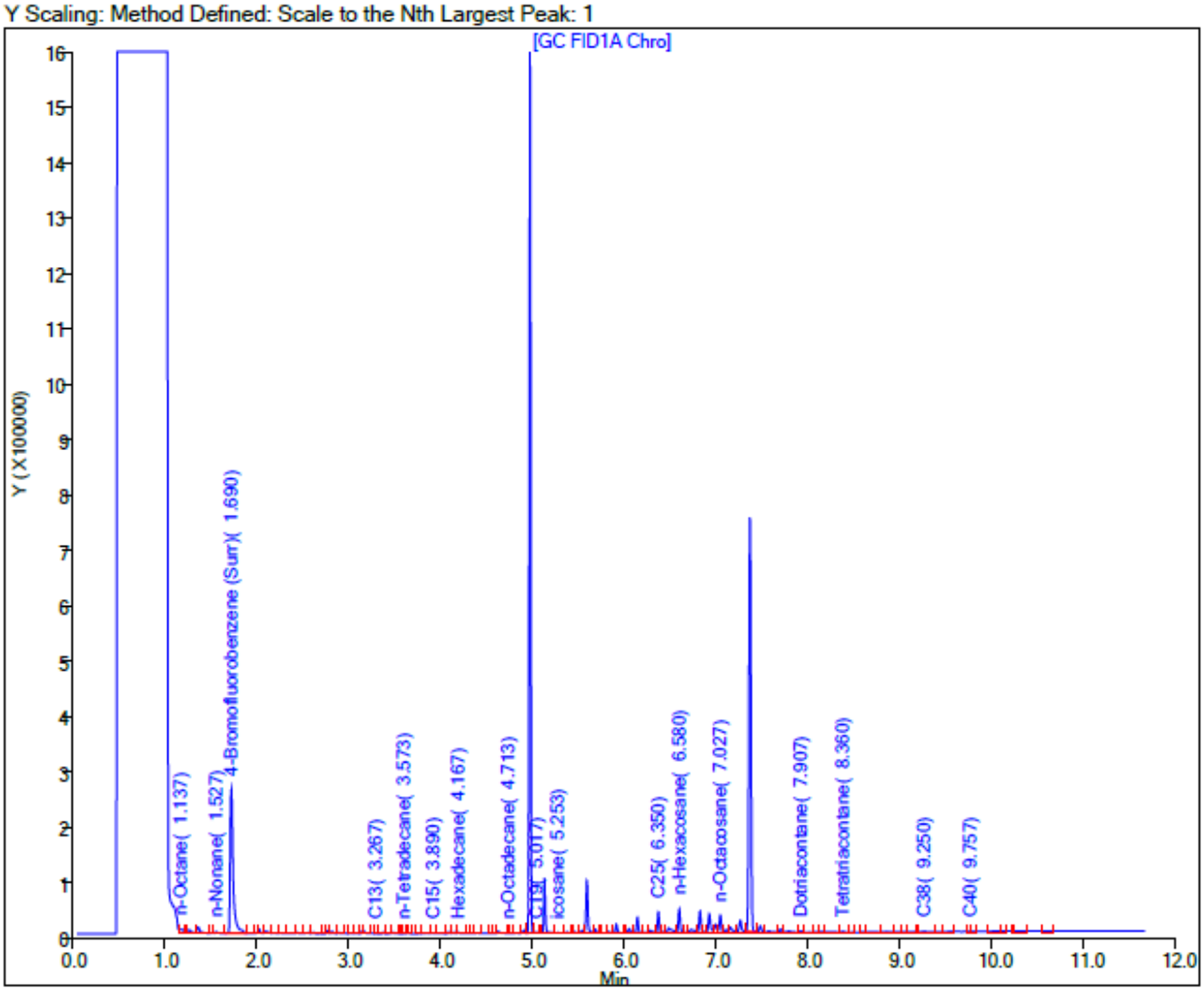
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 22:55:13 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221026-85490.b\102622A026.D				
Injection Date:	26-Oct-2022 21:44:56	Instrument ID:	TAC129		
Lims ID:	580-119078-E-9-A	Lab Sample ID:	580-119078-9		
Client ID:	RHMW14-03-WGN02G-2210WK3				
Operator ID:	DH/CC	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2210WK4 Sample Date: 10/24/2022

Lab: Eurofins Seattle

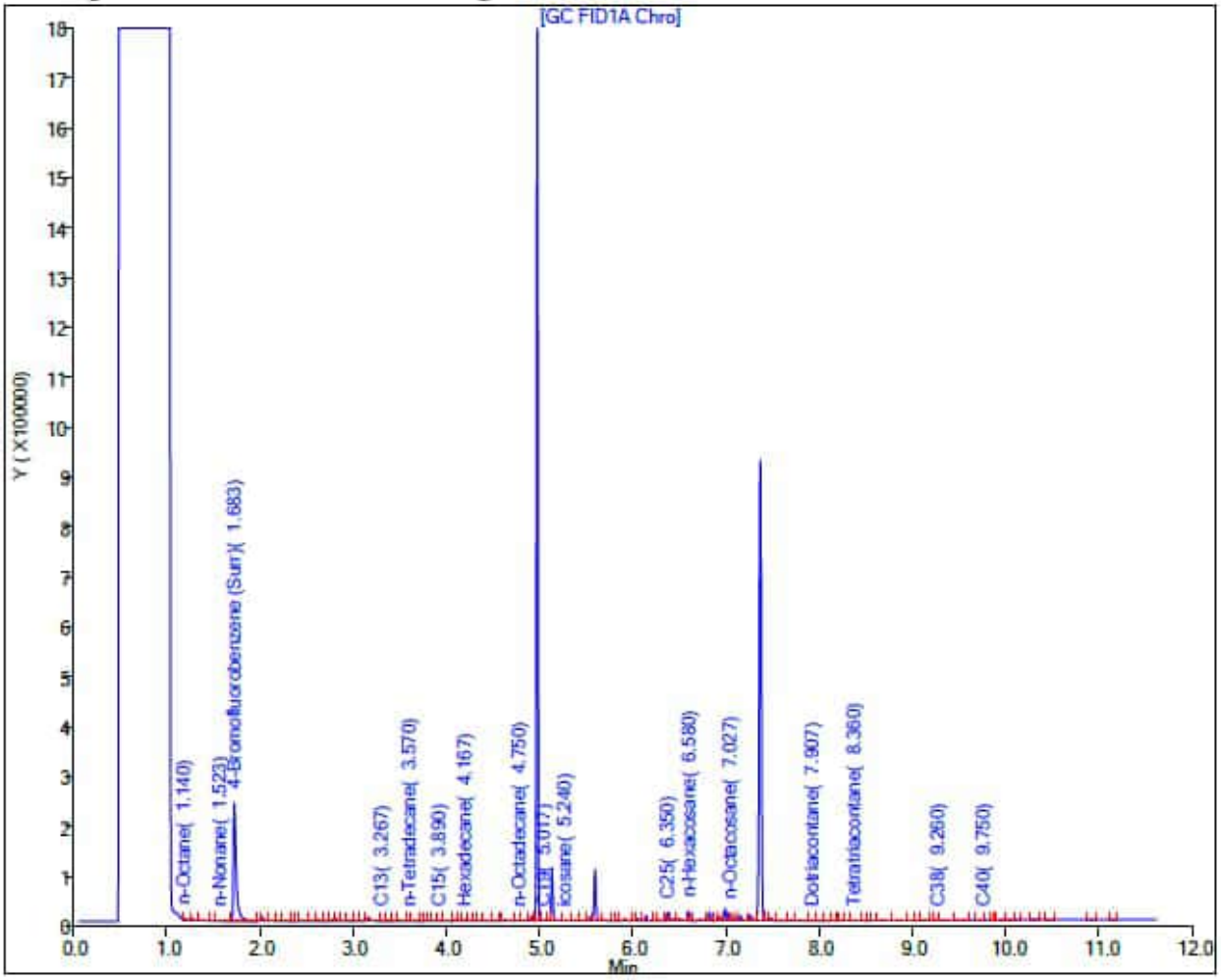
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:51:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A048.D				
Injection Date:	29-Oct-2022 02:45:48	Instrument ID:	TAC129		
Lims ID:	580-119162-N-12-A	Lab Sample ID:	580-119162-12		
Client ID:	RHMW14-03-WGN01G-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN02G-2210WK4 Sample Date: 10/26/2022

Lab: Eurofins Seattle

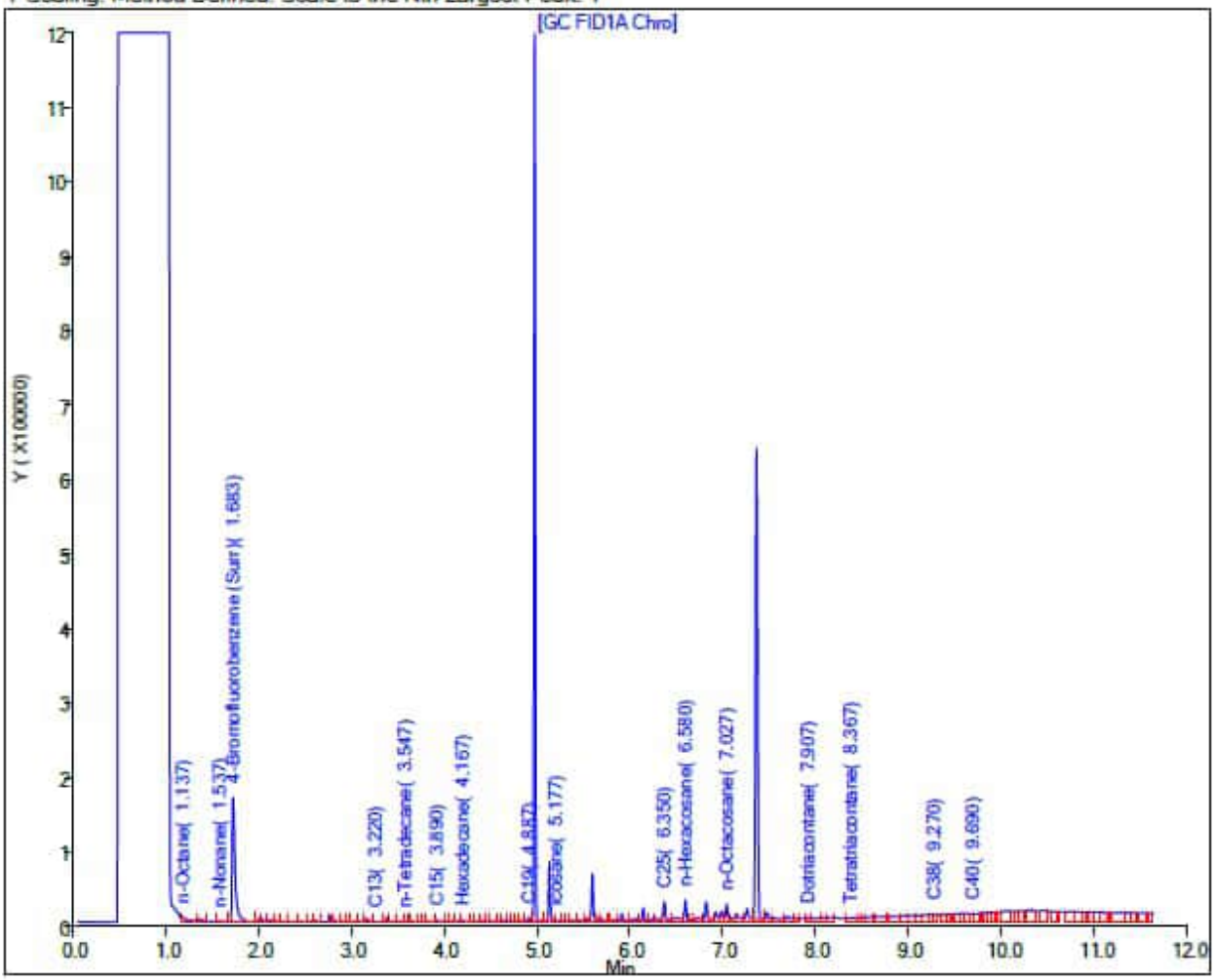
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 03-Nov-2022 18:02:53 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A038.D				
Injection Date:	02-Nov-2022 22:49:29	Instrument ID:	TAC129		
Lims ID:	580-119371-D-13-A	Lab Sample ID:	580-119371-13		
Client ID:	RHMW14-03-WGN02G-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2210WK5 Sample Date: 10/31/2022

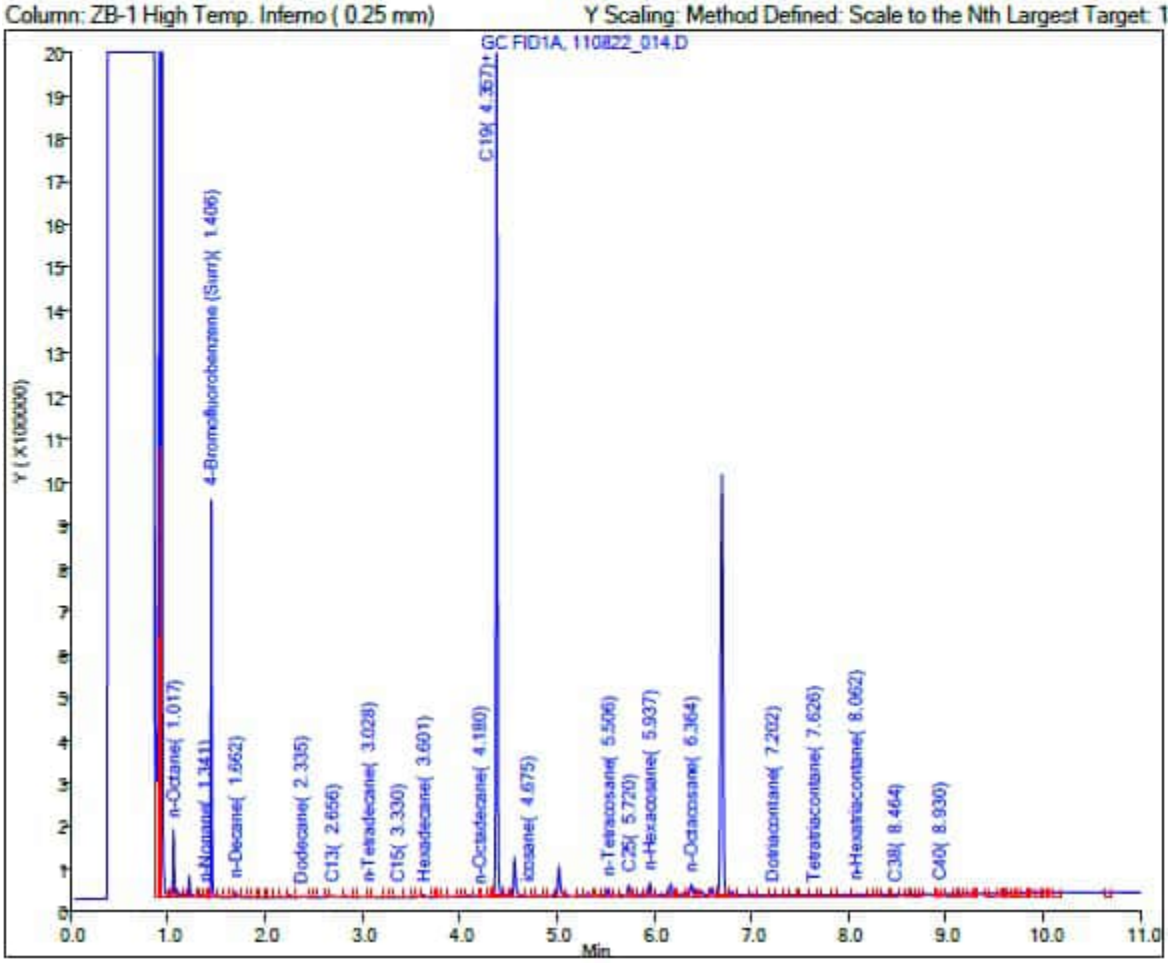
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 08-Nov-2022 22:59:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85575.b\110822_014.D
Injection Date: 08-Nov-2022 21:52:30 Instrument ID: TAC020
Lims ID: 580-119523-O-8-A Lab Sample ID: 580-119523-8
Client ID: RHMW14-03-WGN01G-2210WK5
Operator ID: DH ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN02G-2210WK5 Sample Date: 11/2/2022

Lab: Eurofins Seattle

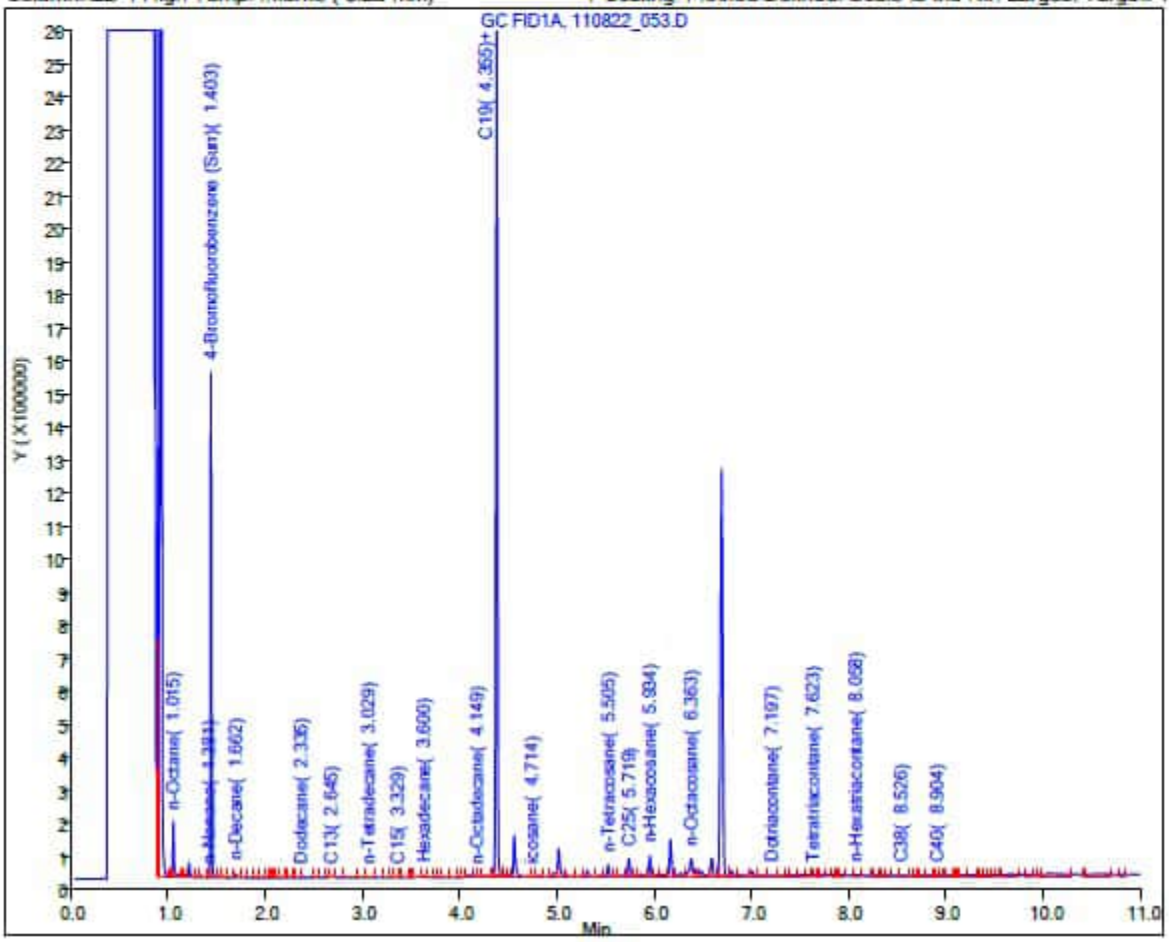
Results (ug/L): **TPH-d (C10 to C24) <86 U** **TPH-o (C24 to C40) <260 U**

Report Date: 09-Nov-2022 14:00:42 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_053.D				
Injection Date:	09-Nov-2022 10:58:30	Instrument ID:	TAC020		
Lims ID:	580-119623-N-8-A	Lab Sample ID:	580-119623-8		
Client ID:	RHMW14-03-WGN02G-2210WK5				
Operator ID:	DH	ALS Bottle#:	52	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2211WK1 Sample Date: 11/7/2022

Lab: Eurofins Seattle

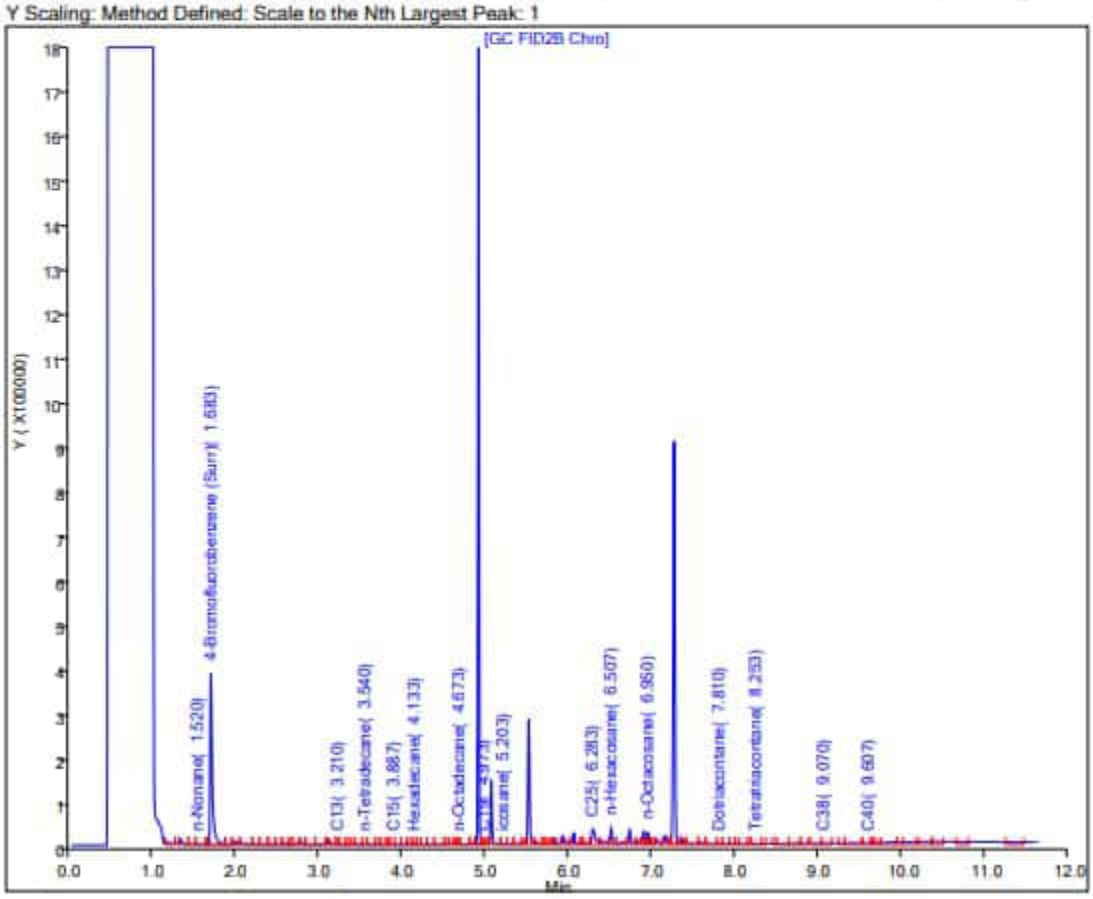
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Nov-2022 13:32:16 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A025.D		
Injection Date:	12-Nov-2022 03:09:44	Instrument ID:	TAC129_R
Lims ID:	580-119804-O-9-A	Lab Sample ID:	580-119804-9
Client ID:	RHMW14-03-WGN01G-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2211WK3 Sample Date: 11/21/2022

Lab: Eurofins Seattle

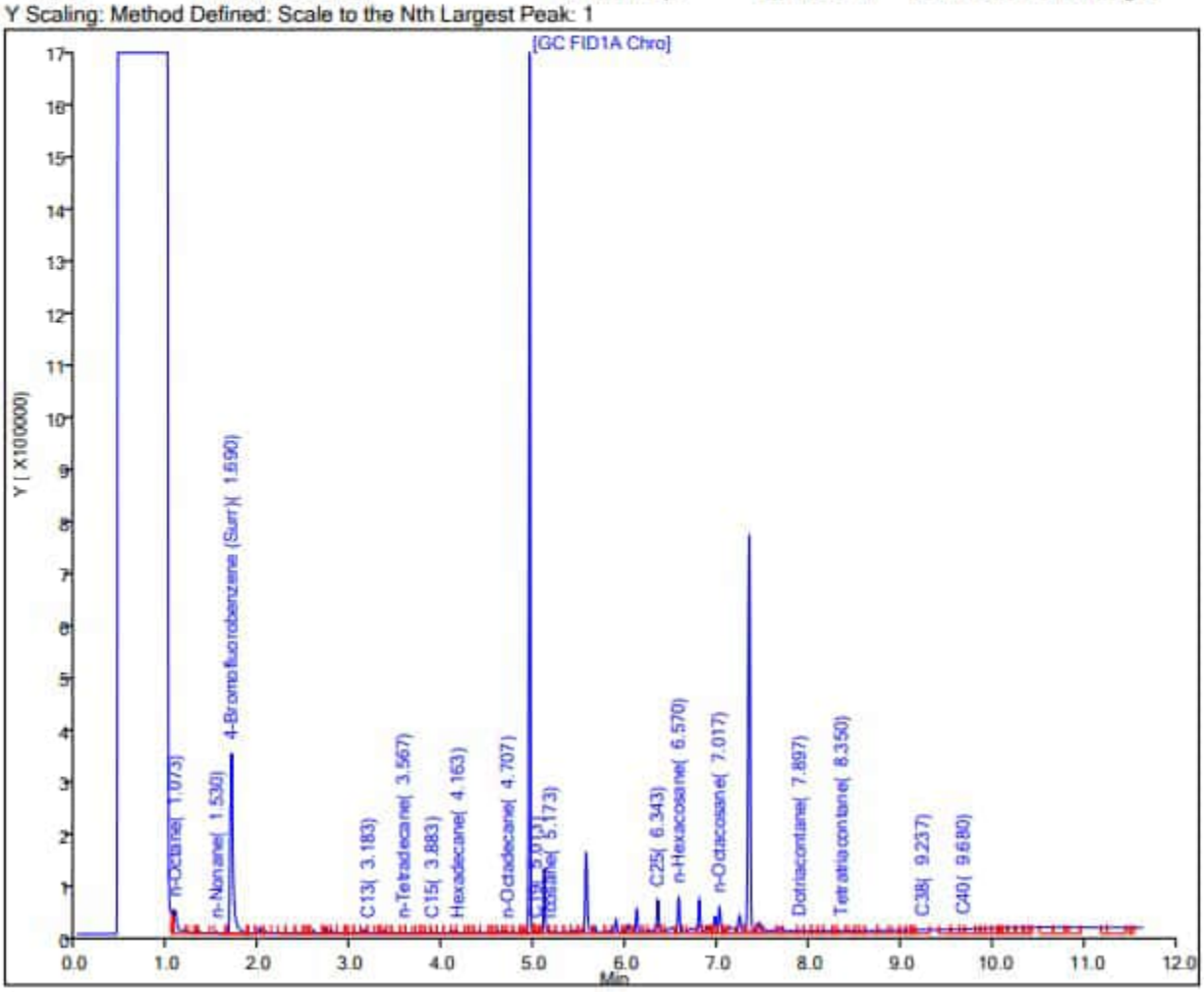
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:16 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A018.D				
Injection Date:	29-Nov-2022 20:34:43	Instrument ID:	TAC129		
Lims ID:	580-120344-O-12-A	Lab Sample ID:	580-120344-12		
Client ID:	RHMW14-03-WGN01G-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW14-03** Sample ID: RHMW14-03-WGN01G-2211WK4 Sample Date: 12/1/2022

Lab: Eurofins Seattle

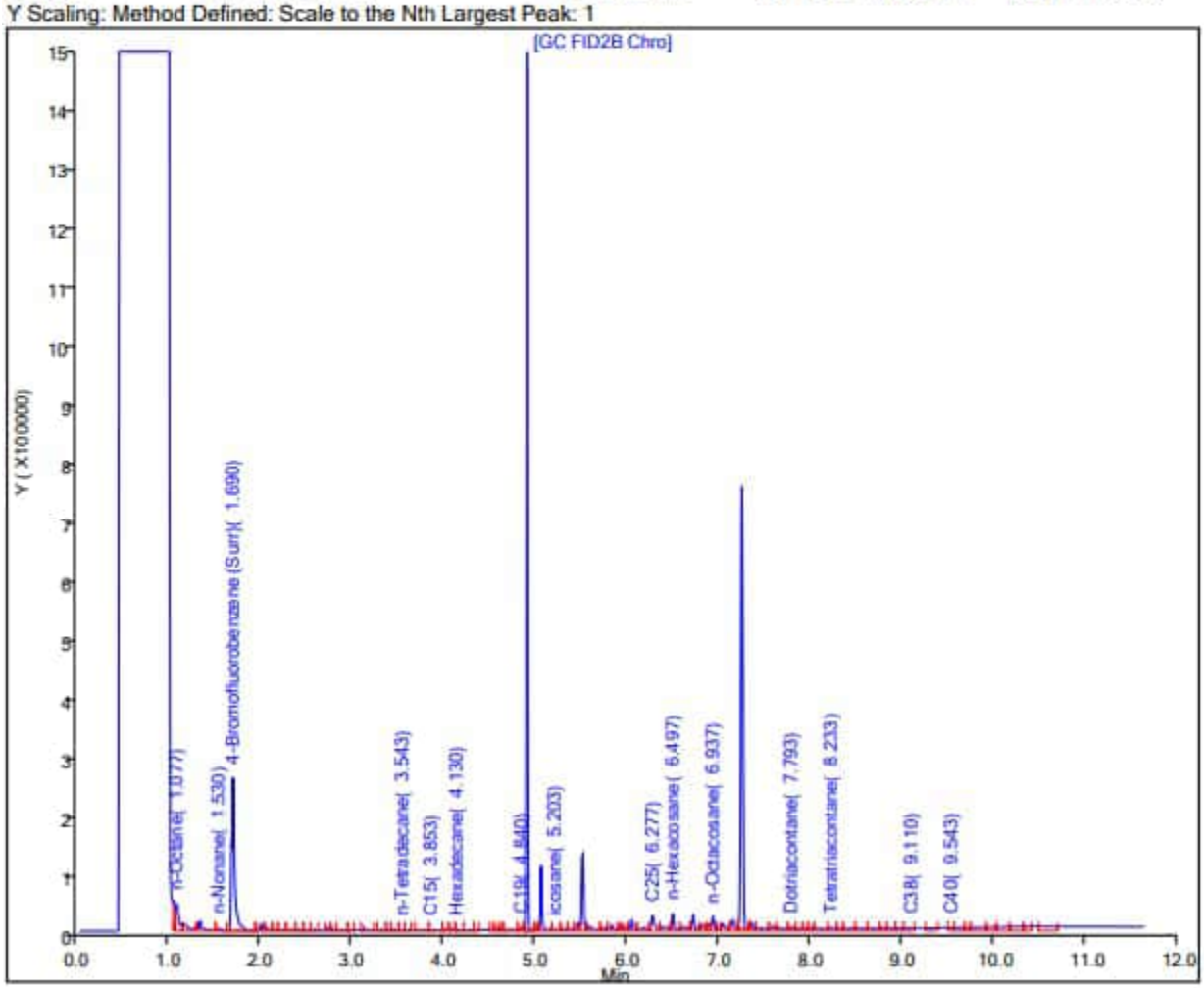
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 07-Dec-2022 13:00:09 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A043.D		
Injection Date:	07-Dec-2022 03:00:43	Instrument ID:	TAC129_R
Lims ID:	580-120703-N-8-A	Lab Sample ID:	580-120703-8
Client ID:	RHMW14-03-WGN01G-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2209WK1 Sample Date: 9/6/2022

Lab: Eurofins Seattle

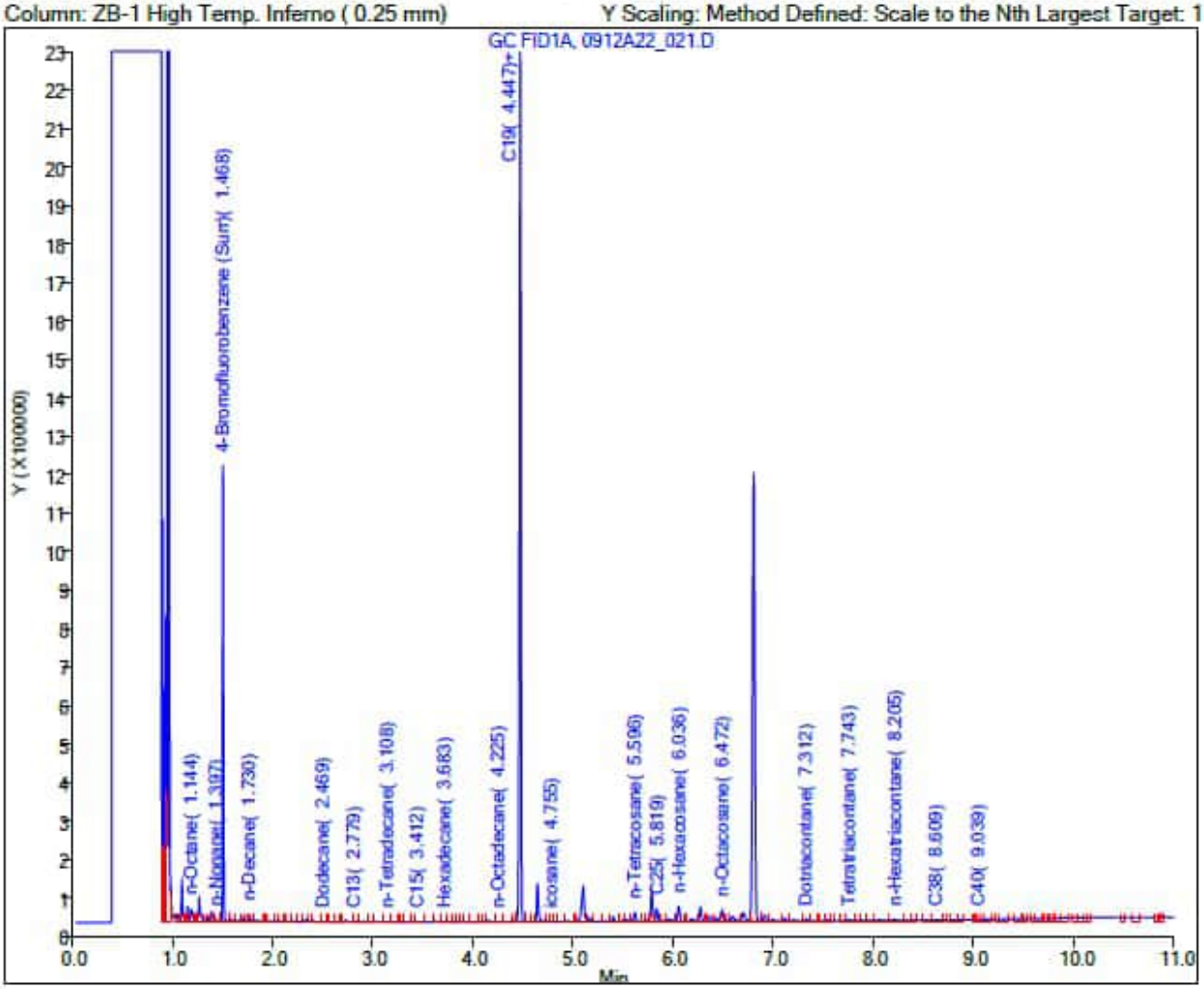
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 13-Sep-2022 12:01:51 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_021.D				
Injection Date:	13-Sep-2022 00:01:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-1-A	Lab Sample ID:	580-117667-1		
Client ID:	RHMW15-05-WGN01G-2209WK1				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2209WK3 Sample Date: 9/19/2022

Lab: Eurofins Seattle

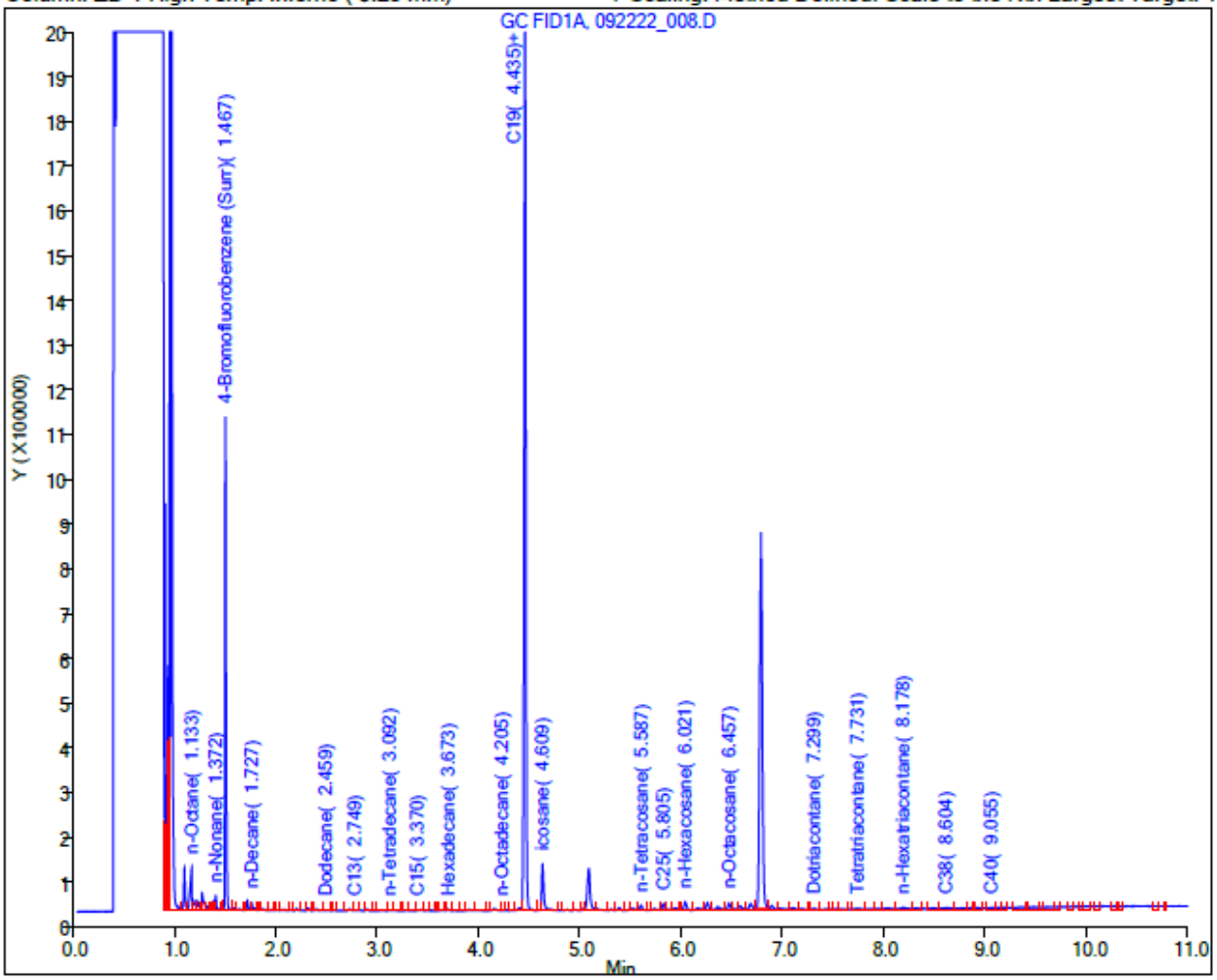
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 23-Sep-2022 12:23:27 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220922-84977.b\092222_008.D				
Injection Date:	22-Sep-2022 22:18:30	Instrument ID:	TAC020		
Lims ID:	580-118064-N-1-A	Lab Sample ID:	580-118064-1		
Client ID:	RHMW15-05-WGN01G-2209WK3				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: MW15-05-WGN01G-2209WK4 Sample Date: 9/26/2022

Lab: Eurofins Seattle

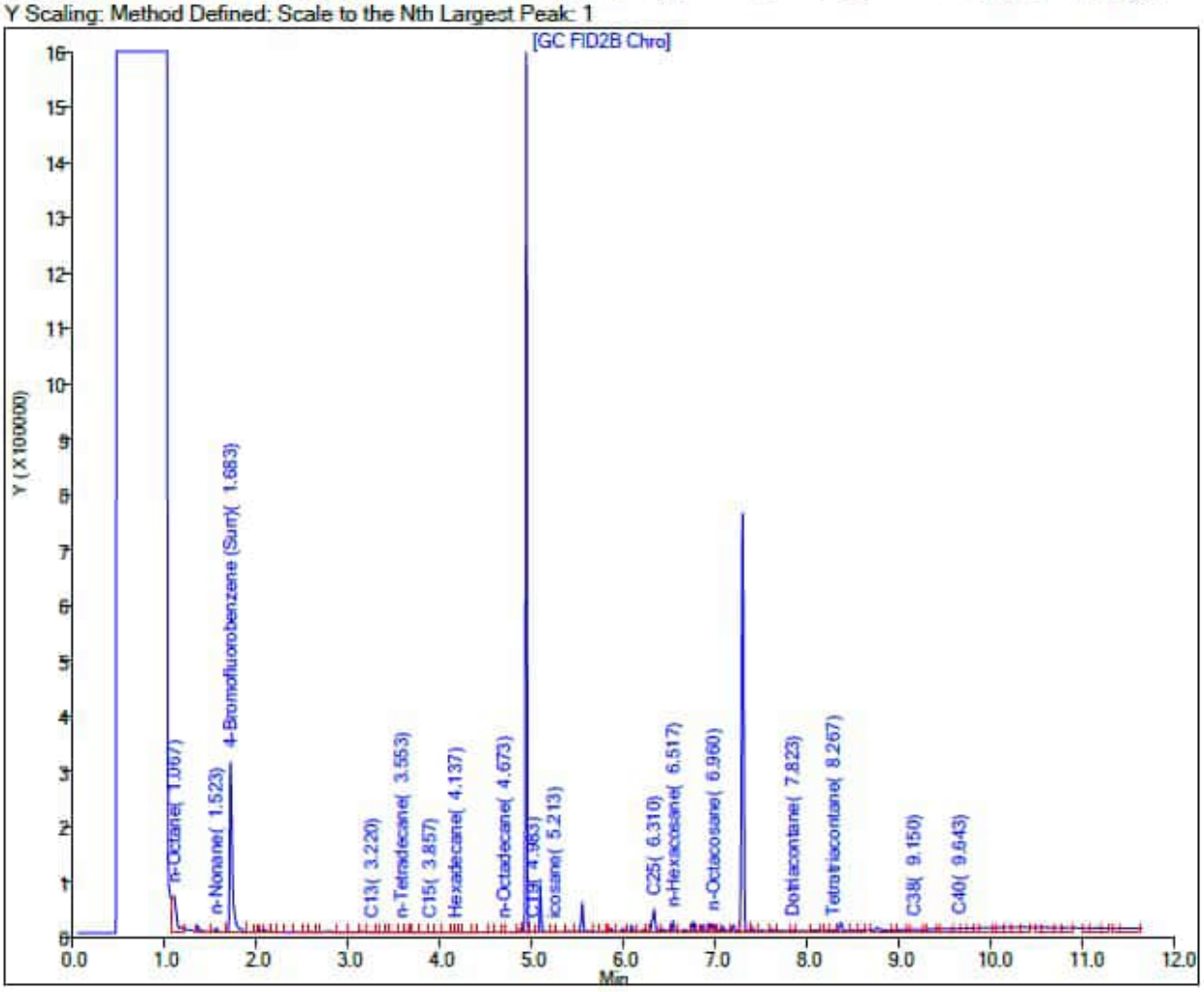
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 03-Oct-2022 16:41:41 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220930-85133.b\093022A007.D				
Injection Date:	30-Sep-2022 20:25:29	Instrument ID:	TAC129_R		
Lims ID:	580-118257-C-1-A	Lab Sample ID:	580-118257-1		
Client ID:	RHMW15-05-WGN01G-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2210WK1 Sample Date: 10/4/2022

Lab: Eurofins Seattle

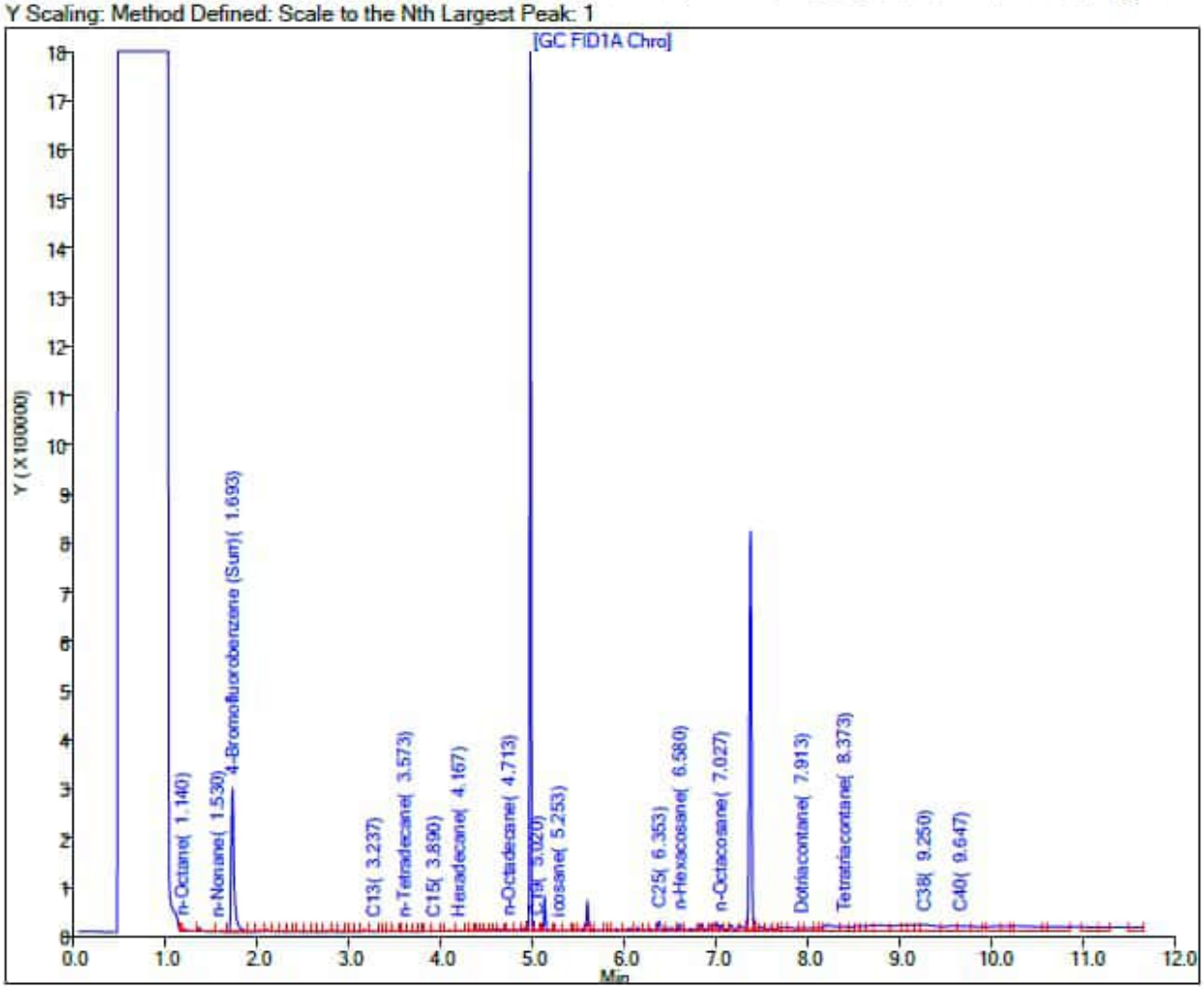
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 11-Oct-2022 13:55:46 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A040.D				
Injection Date:	10-Oct-2022 23:06:53	Instrument ID:	TAC129		
Lims ID:	580-118612-E-6-A	Lab Sample ID:	580-118612-6		
Client ID:	RHMW15-05-WGN01G-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

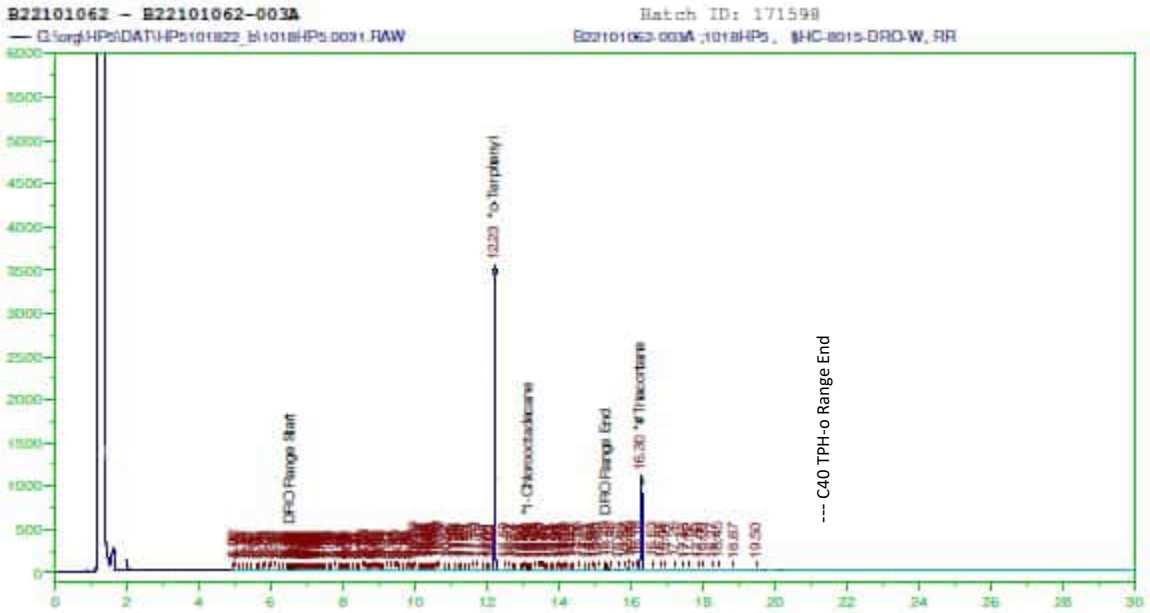


No Silica Gel Cleanup performed.

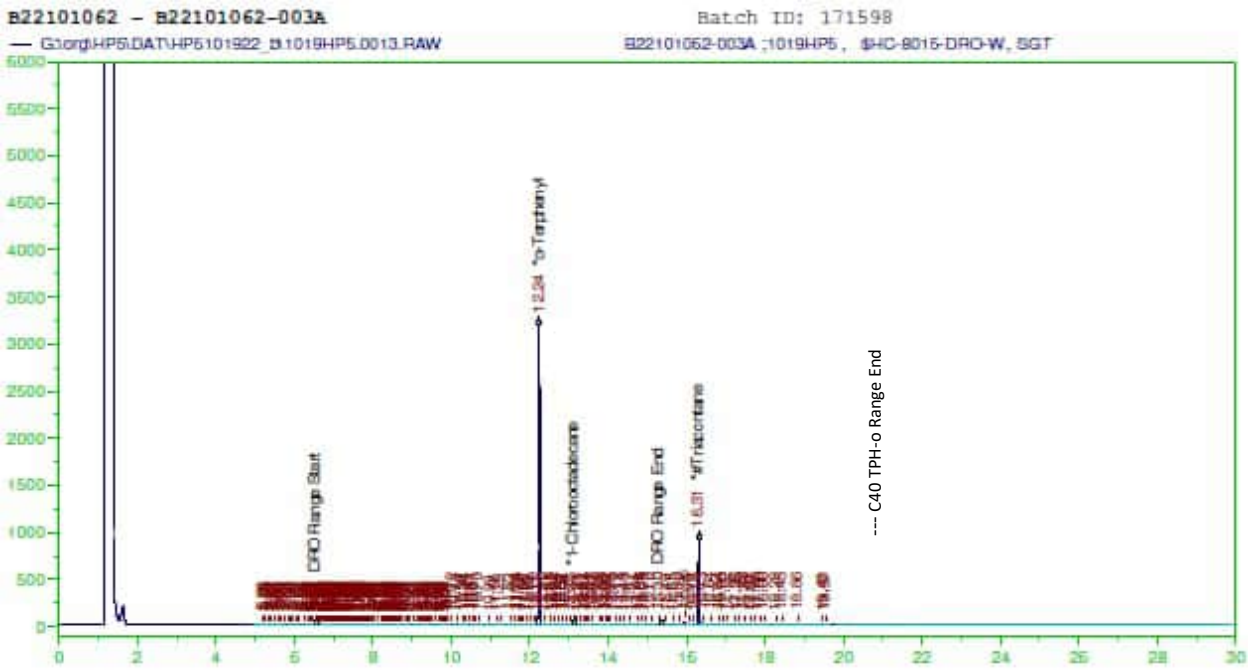
Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2210WK2 Sample Date: 10/10/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) <150 U** **TPH-o (C24 to C40) <150 U**



Results (ug/L): **TPH-d SGC (C10 to C24) <150 U** **TPH-o SGC (C24 to C40) <150 U**



Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2210WK3 Sample Date: 10/18/2022

Lab: Eurofins Seattle

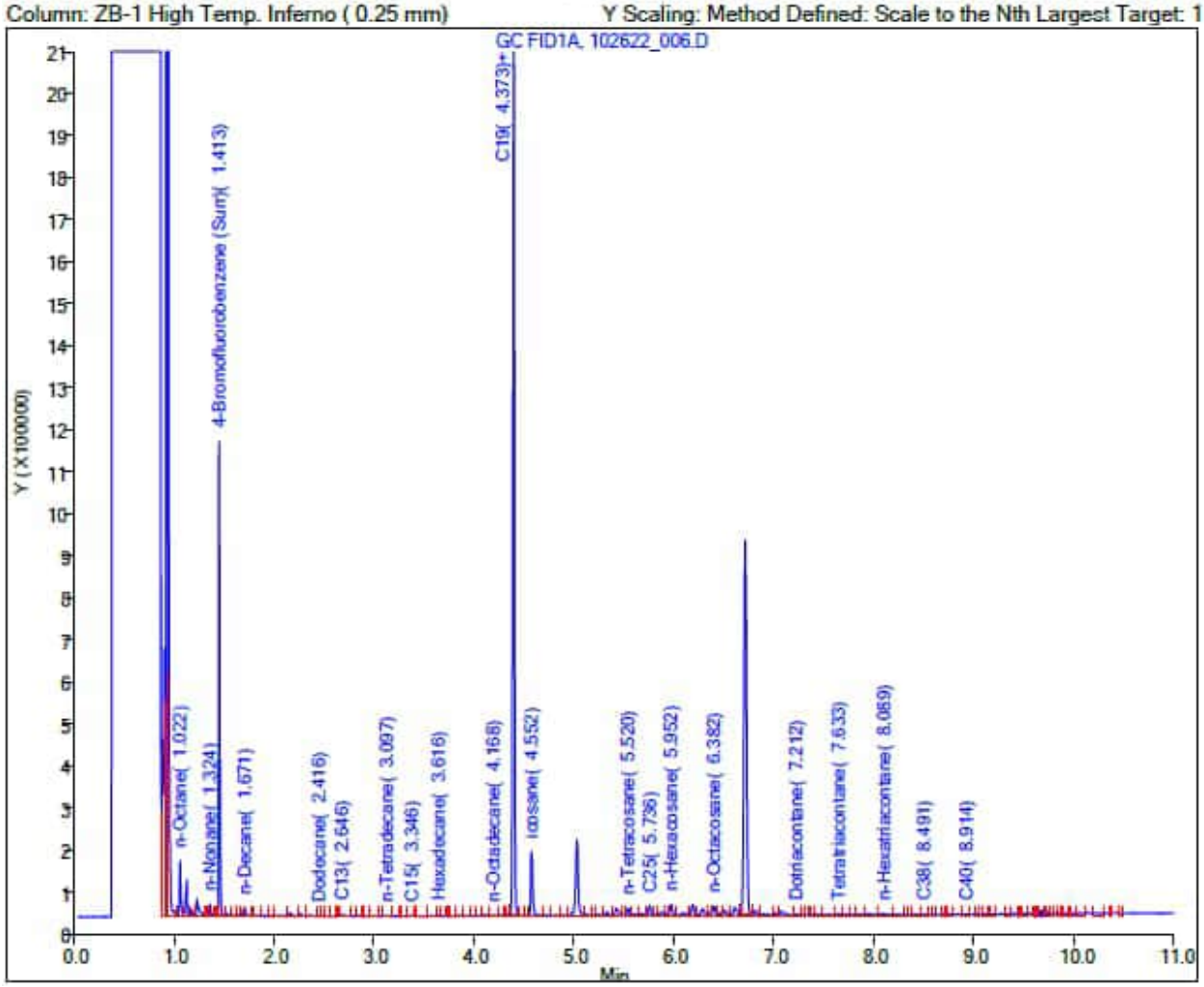
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 27-Oct-2022 13:31:54 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_006.D				
Injection Date:	26-Oct-2022 15:56:30	Instrument ID:	TAC020		
Lims ID:	580-119027-N-9-A	Lab Sample ID:	580-119027-9		
Client ID:	RHMW15-05-WGN01G-2210WK3				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN02G-2210WK3 Sample Date: 10/20/2022

Lab: Eurofins Seattle

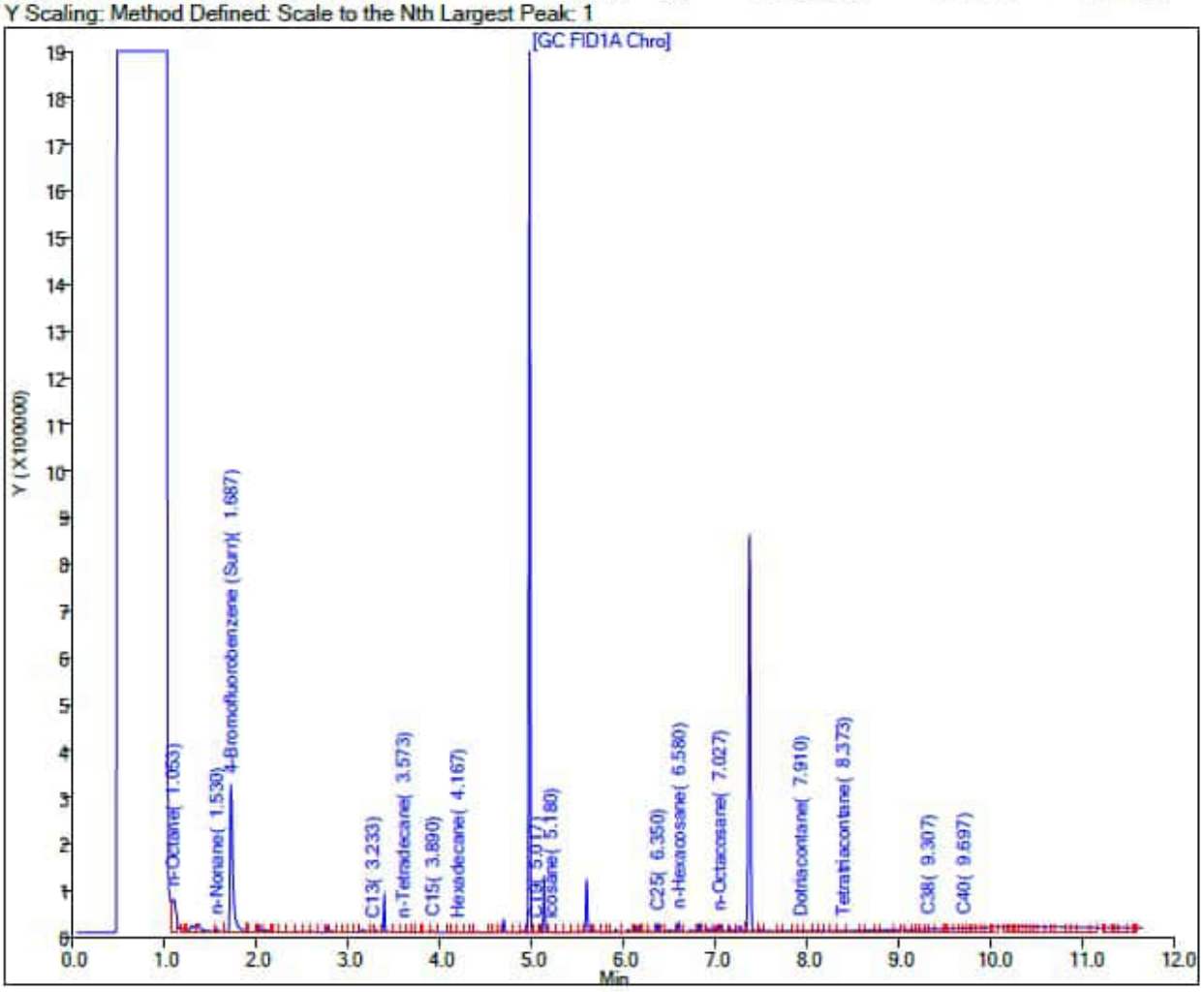
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 28-Oct-2022 14:34:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A014.D				
Injection Date:	27-Oct-2022 17:56:36	Instrument ID:	TAC129		
Lims ID:	580-119078-E-1-A	Lab Sample ID:	580-119078-1		
Client ID:	RHMW15-05-WGN02G-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	7
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2210WK4 Sample Date: 10/25/2022

Lab: Eurofins Seattle

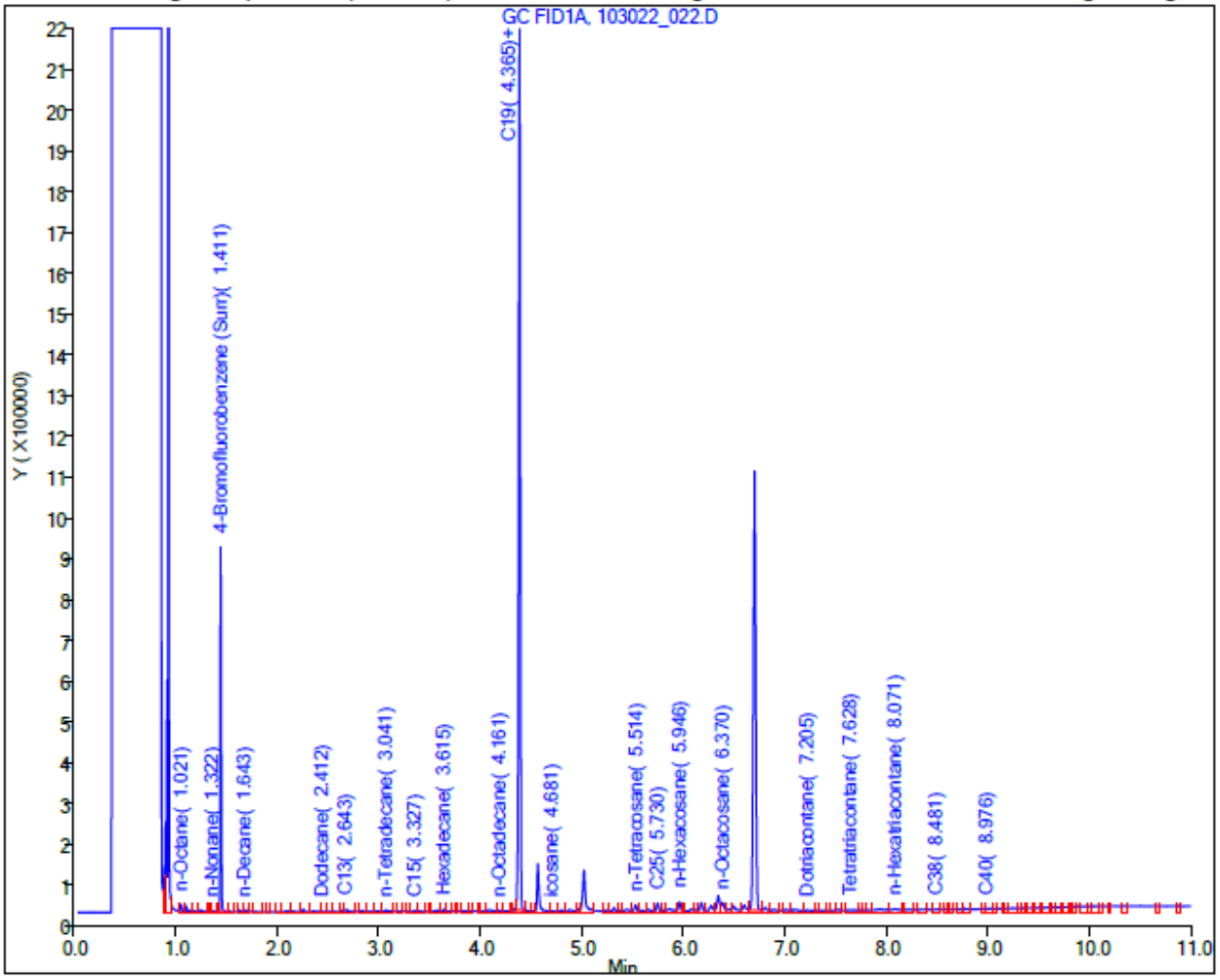
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Nov-2022 13:46:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_022.D				
Injection Date:	01-Nov-2022 00:10:30	Instrument ID:	TAC020		
Lims ID:	580-119316-N-11-A	Lab Sample ID:	580-119316-11		
Client ID:	RHMW15-05-WGN01G-2210WK4				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	71
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN02G-2210WK4 Sample Date: 10/27/2022

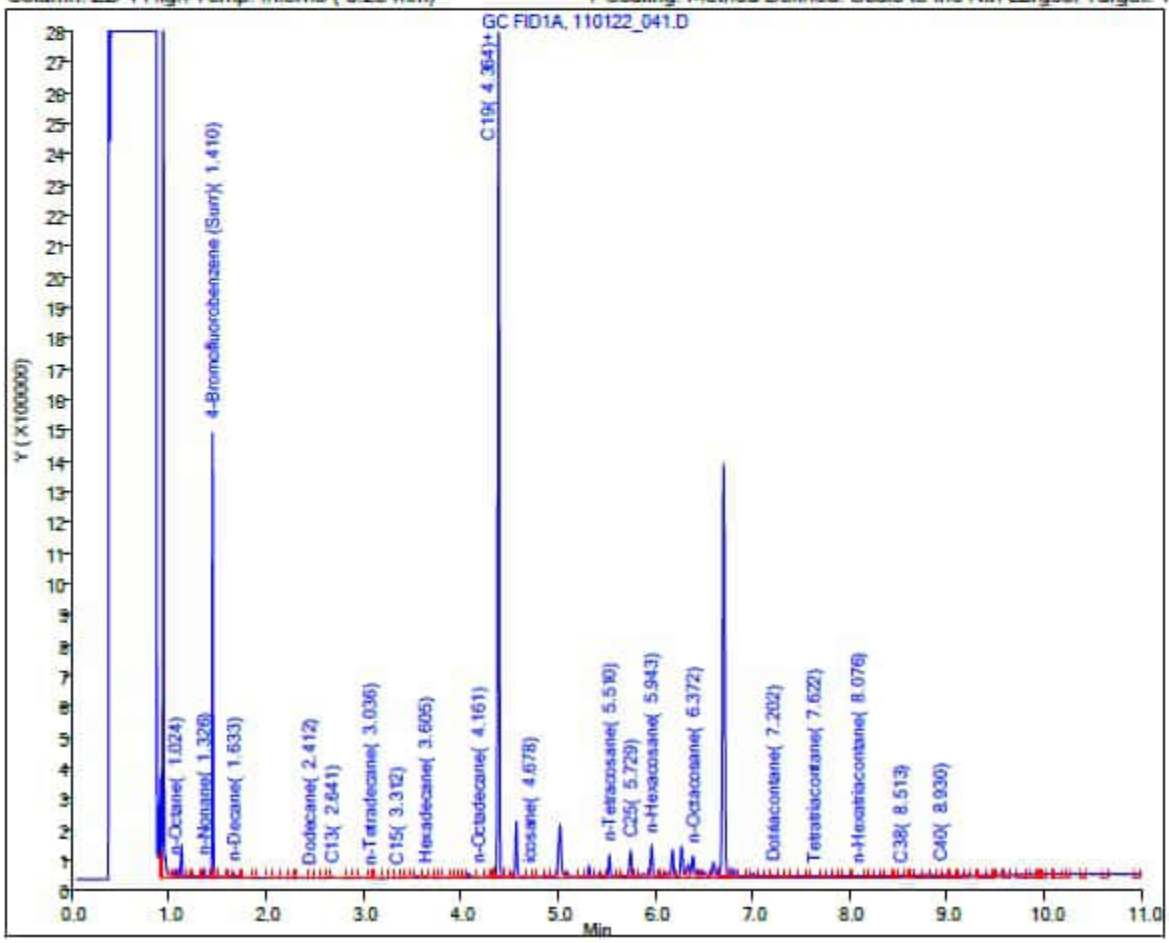
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <120 U** **TPH-o (C24 to C40) <350 U**

Report Date: 02-Nov-2022 14:00:32 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_041.D
Injection Date: 02-Nov-2022 05:05:30 Instrument ID: TAC020
Lims ID: 580-119363-C-5-A Lab Sample ID: 580-119363-5
Client ID: RHMW15-05-WGN02G-2210WK4
Operator ID: DH ALS Bottle#: 40 Worklist Smp#: 78
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2210WK5 Sample Date: 11/1/2022

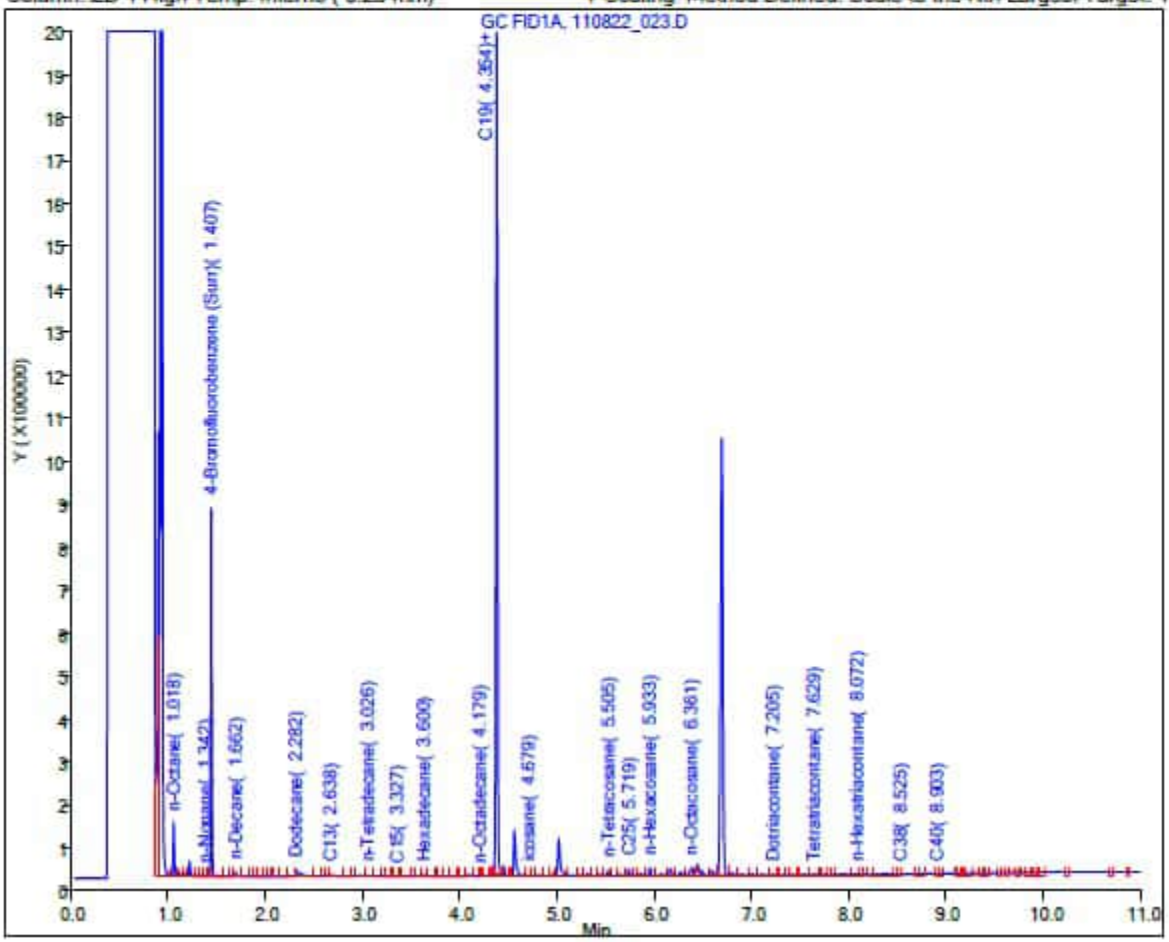
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <81 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:55:27 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_023.D
Injection Date: 09-Nov-2022 00:54:30 Instrument ID: TAC020
Lims ID: 580-119528-N-16-A Lab Sample ID: 580-119528-16
Client ID: RHMW15-05-WGN01G-2210WK5
Operator ID: DH ALS Bottle#: 22 Worklist Smp#: 22
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN02G-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

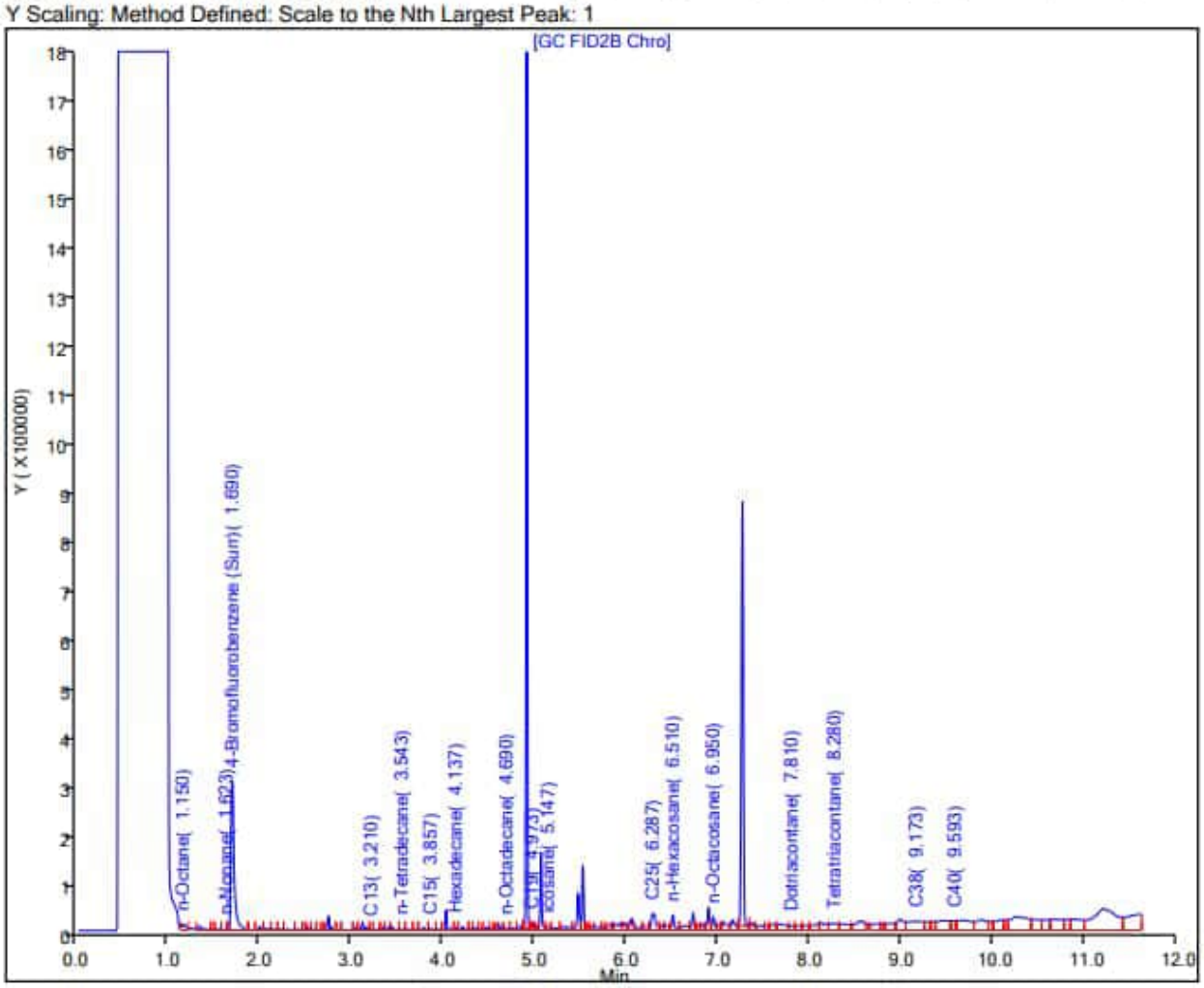
Results (ug/L): **TPH-d (C10 to C24) 59 J** **TPH-o (C24 to C40) 150 J**

Report Date: 11-Nov-2022 16:00:58 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A019.D				
Injection Date:	10-Nov-2022 21:21:27	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-7-A	Lab Sample ID:	580-119733-7		
Client ID:	RHMW15-05-WGN02G-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



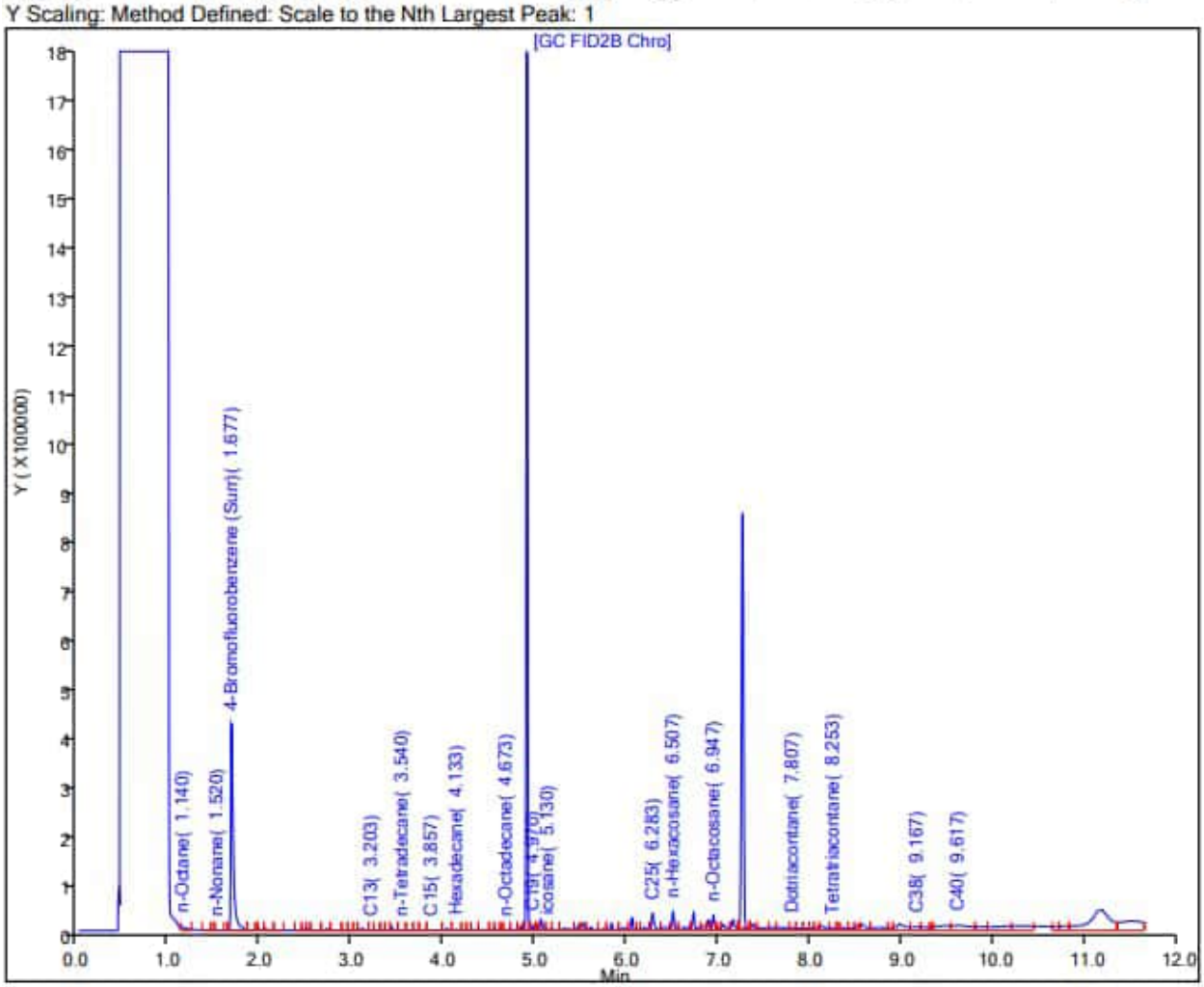
Results (ug/L): **TPH-d SGC (C10 to C24) <77 U** **TPH-o SGC (C24 to C40) <230 U**

Report Date: 15-Nov-2022 22:32:00 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A023.D				
Injection Date:	15-Nov-2022 20:29:45	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-7-B	Lab Sample ID:	580-119733-7		
Client ID:	RHMW15-05-WGN02G-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2211WK1 Sample Date: 11/8/2022

Lab: Eurofins Seattle

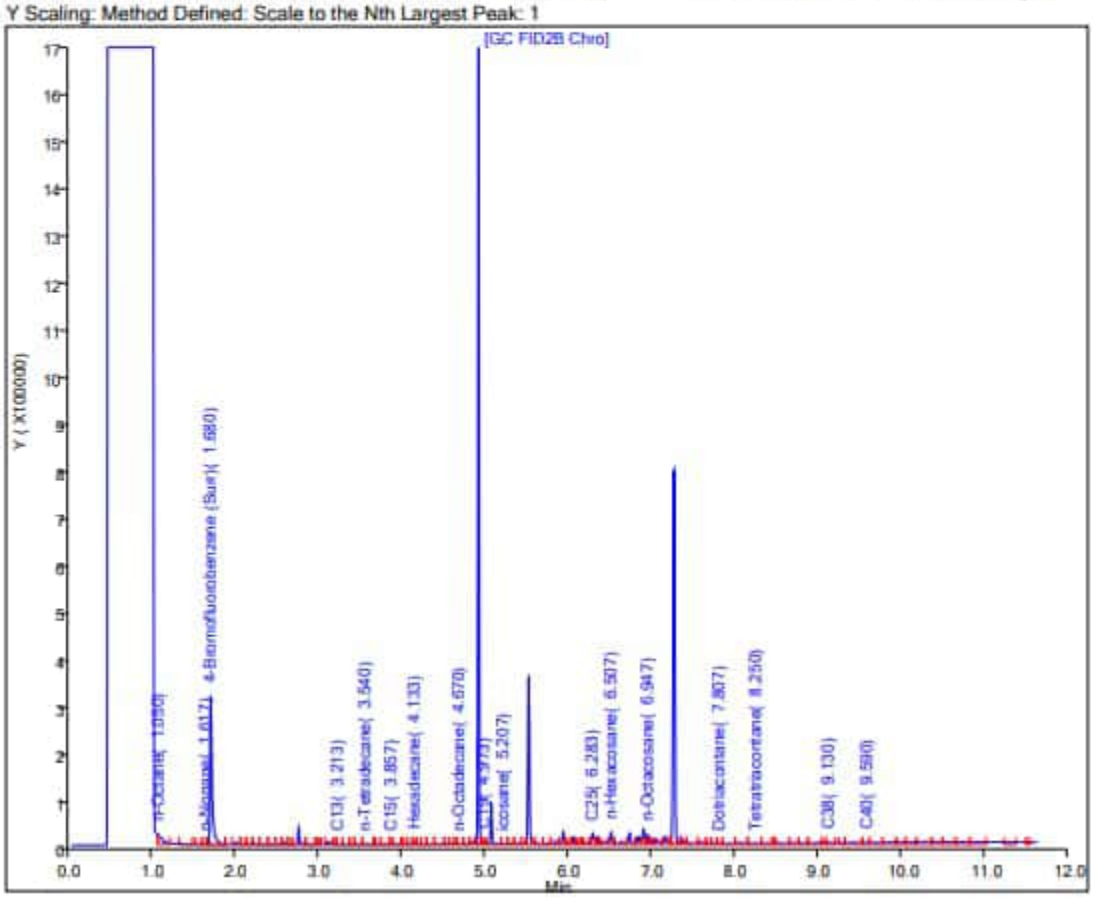
Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 15-Nov-2022 19:16:15 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A043.D				
Injection Date:	15-Nov-2022 05:10:40	Instrument ID:	TAC129_R		
Lims ID:	580-119919-N-6-A	Lab Sample ID:	580-119919-6		
Client ID:	RHMW15-05-WGN01G-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN02G-2211WK2 Sample Date: 11/17/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) 67 J** **TPH-o (C24 to C40) <300 U**

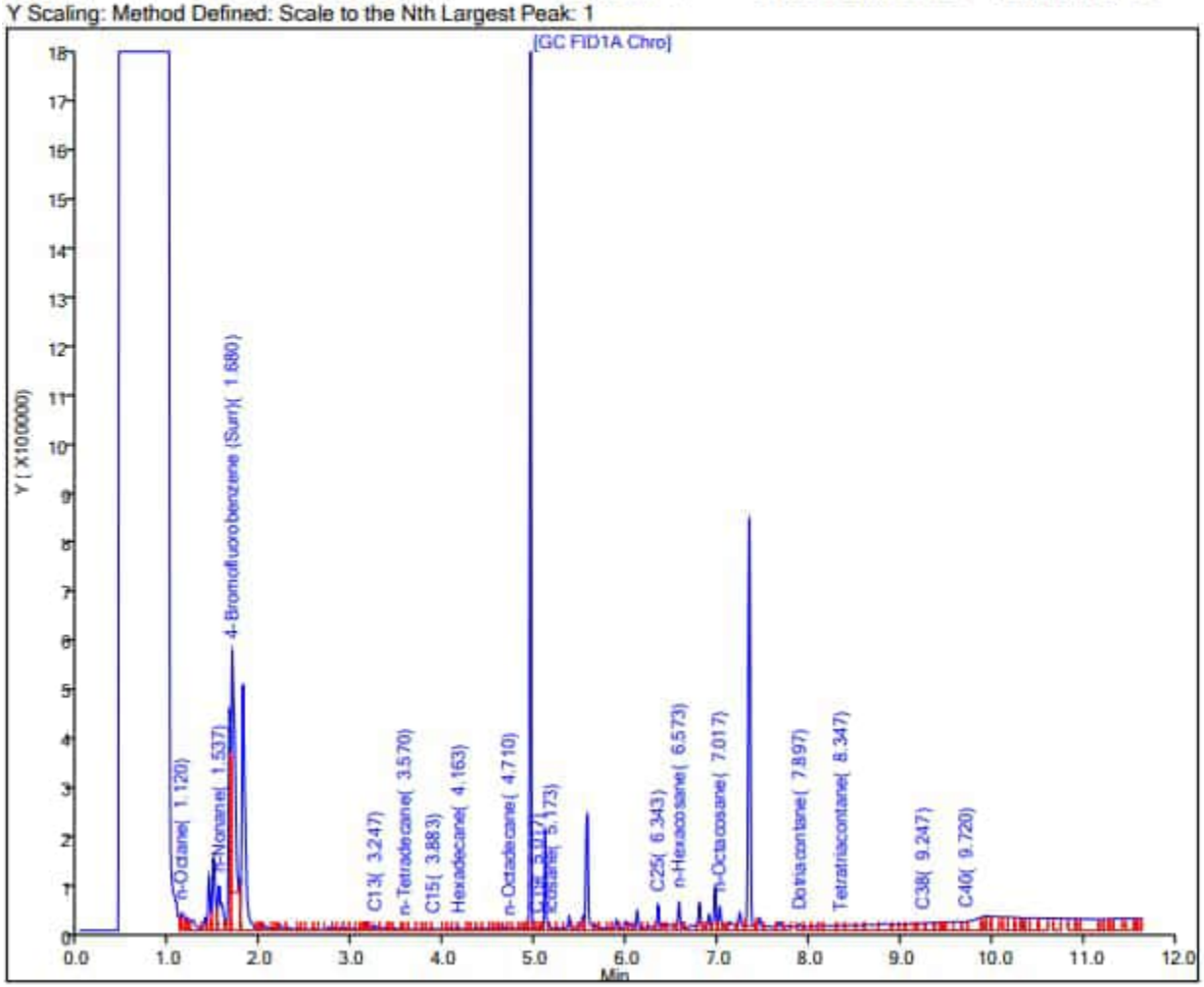
Report Date: 23-Nov-2022 12:55:37 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221122-85931.b\1122ab22A076.D

Injection Date:	23-Nov-2022 04:10:53	Instrument ID:	TAC129		
Lims ID:	580-120243-O-10-A	Lab Sample ID:	580-120243-10		
Client ID:	RHMW15-05-WGN02G-2211WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



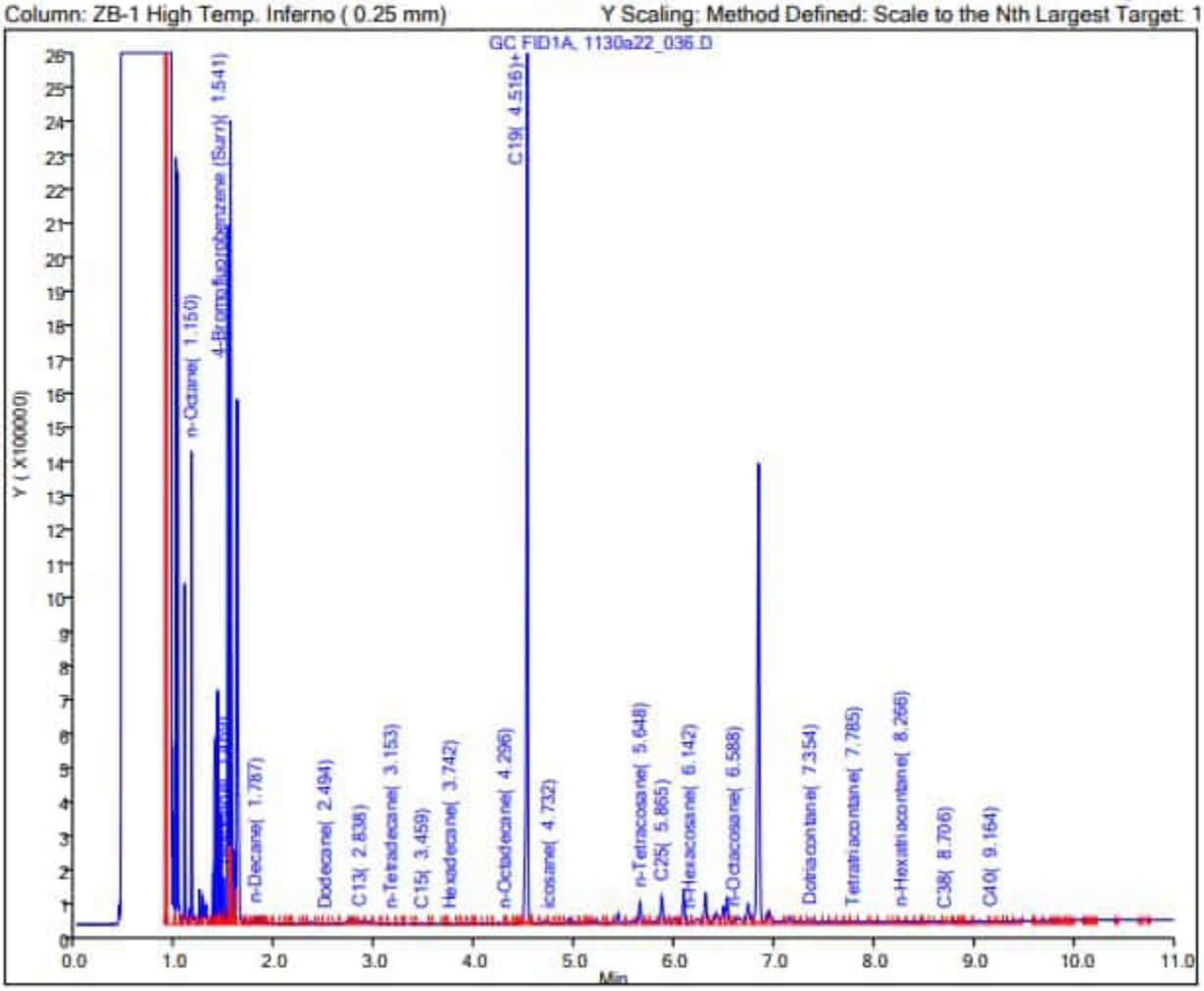
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 01-Dec-2022 15:43:21 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86038.b\1130a22_036.D				
Injection Date:	01-Dec-2022 08:51:30	Instrument ID:	TAC020		
Lims ID:	580-120243-O-10-B	Lab Sample ID:	580-120243-10		
Client ID:	RHMW15-05-WGN02G-2211WK2				
Operator ID:	DH	ALS Bottle#:	36	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW15-05** Sample ID: RHMW15-05-WGN02G-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

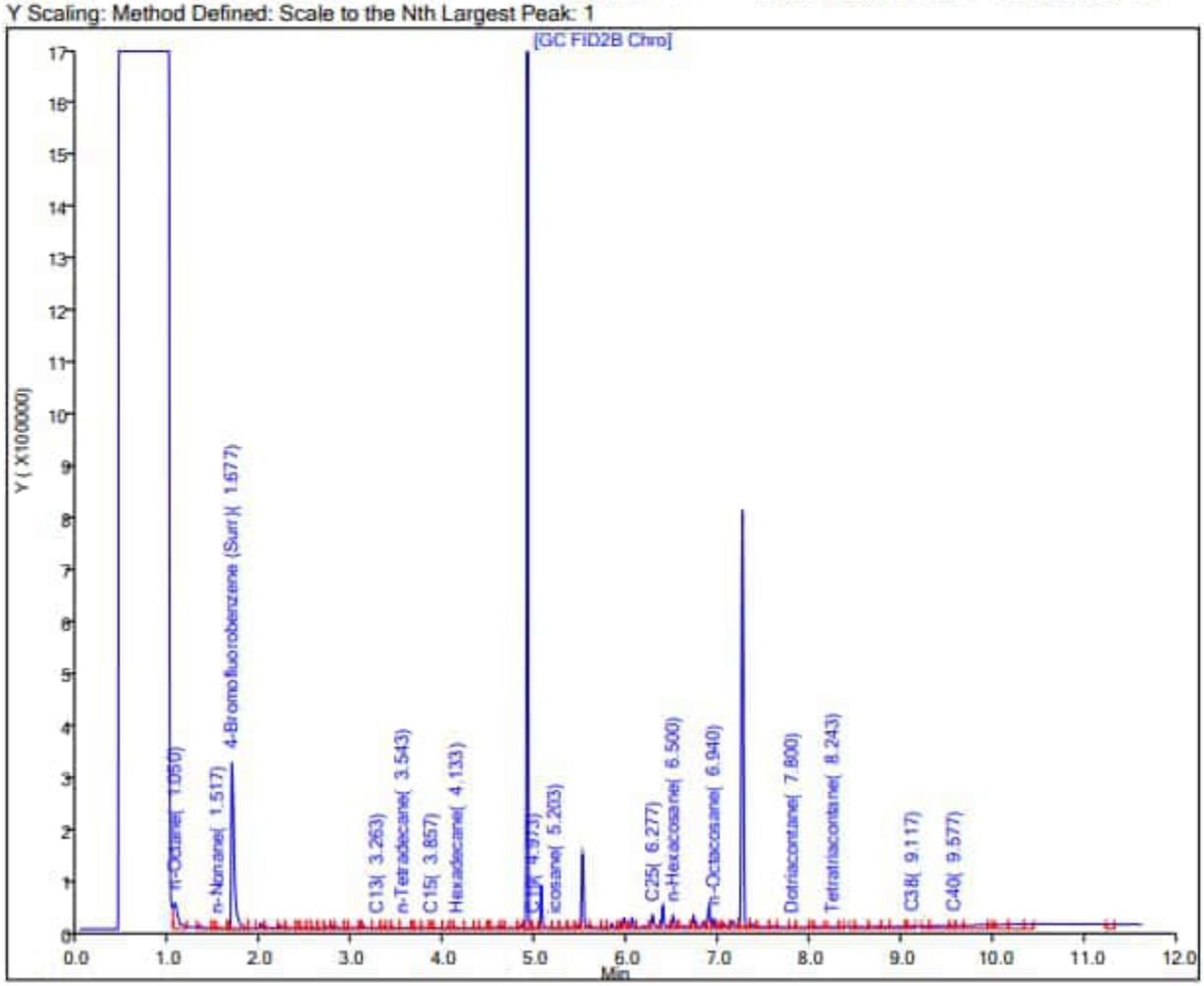
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:32:44 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A033.D		
Injection Date:	29-Nov-2022 23:03:42	Instrument ID:	TAC129_R
Lims ID:	580-120405-E-9-A	Lab Sample ID:	580-120405-9
Client ID:	RHMW15-05-WGN02G-2211WK3		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW15-05** Sample ID: RHMW15-05-WGN01G-2211WK4 Sample Date: 11/28/2022

Lab: Eurofins Seattle

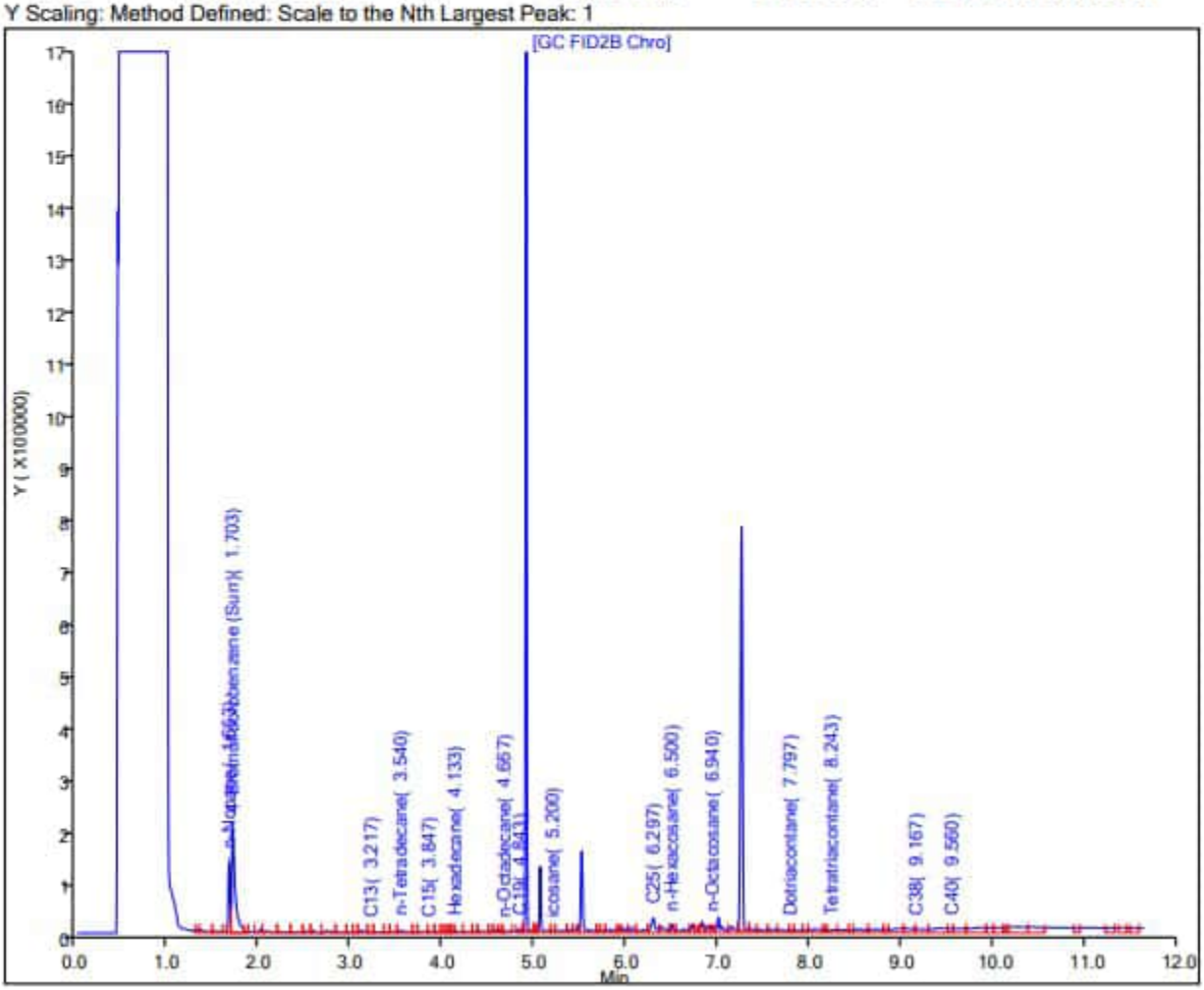
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 02-Dec-2022 17:20:14 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221201-86064.b\1201A22A015.D				
Injection Date:	02-Dec-2022 01:31:05	Instrument ID:	TAC129_R		
Lims ID:	580-120490-O-1-A	Lab Sample ID:	580-120490-1		
Client ID:	RHMW15-05-WGN01G-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2208WK4 Sample Date: 8/25/2022

Lab: Eurofins Seattle

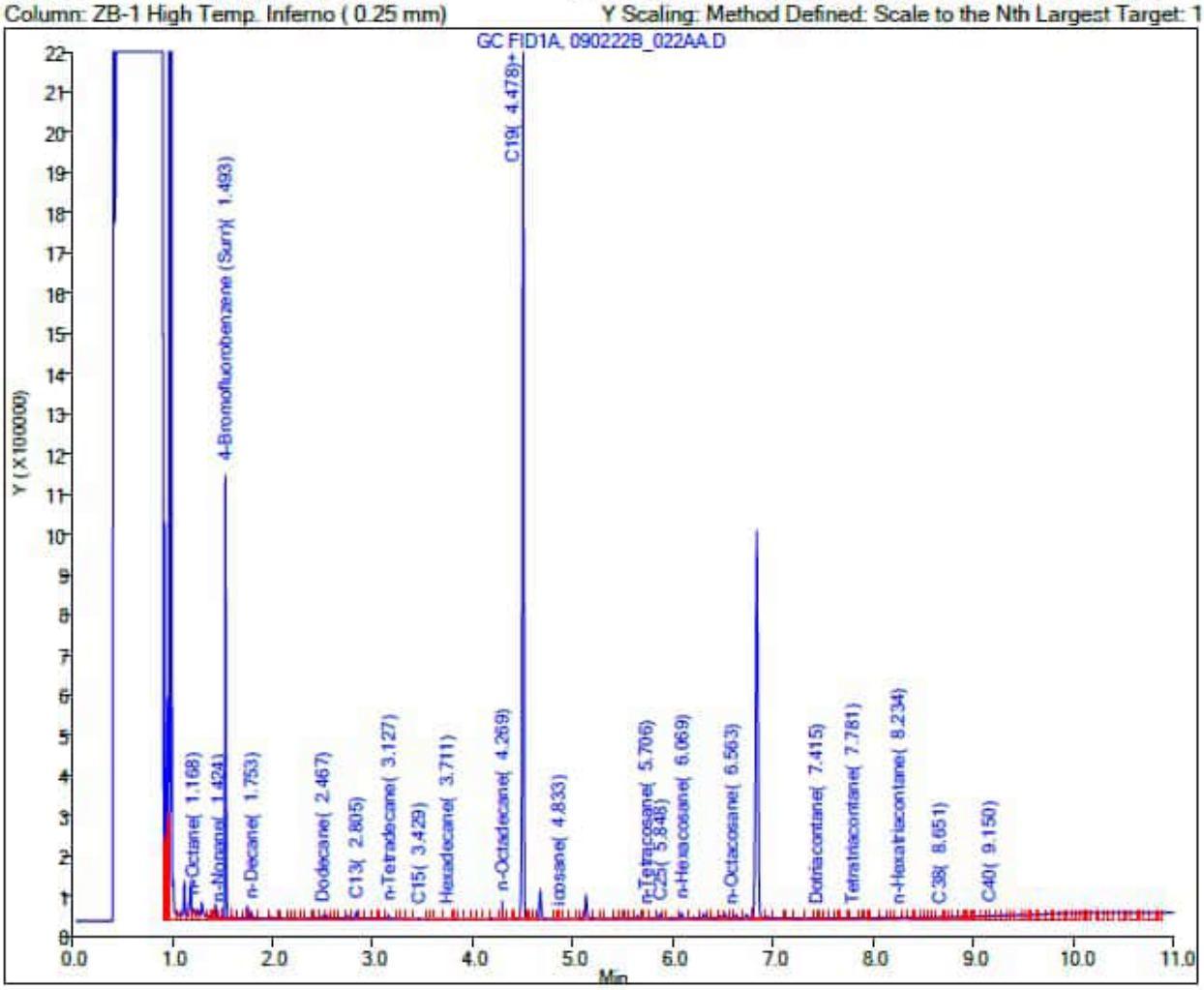
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 06-Sep-2022 14:18:12 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_022AA.D		
Injection Date:	03-Sep-2022 05:21:30	Instrument ID:	TAC020
Lims ID:	580-117347-D-14-A	Lab Sample ID:	580-117347-14
Client ID:	RHMW16-WGN01LF-2208WK4		
Operator ID:	DH	ALS Bottle#:	21 Worklist Smp#: 79
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2209WK1 Sample Date: 9/7/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 14-Sep-2022 13:58:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_009.D

Injection Date: 13-Sep-2022 22:20:30 Instrument ID: TAC020

Lims ID: 580-117675-F-5-A Lab Sample ID: 580-117675-5

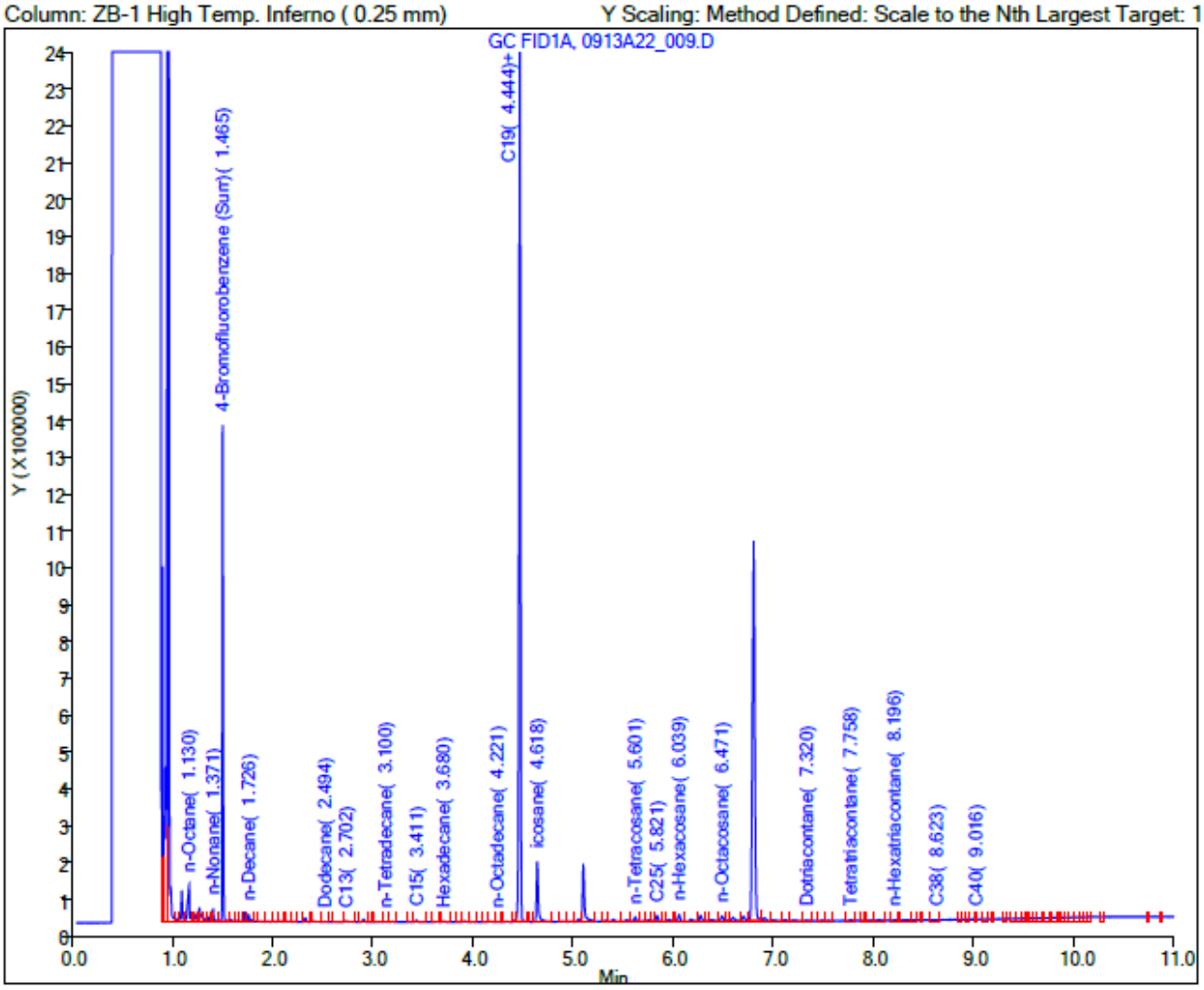
Client ID: RHMW16-WGN01LF-2209WK1

Operator ID: DH ALS Bottle#: 8 Worklist Smp#: 8

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2209WK2 Sample Date: 9/13/2022

Lab: Eurofins Seattle

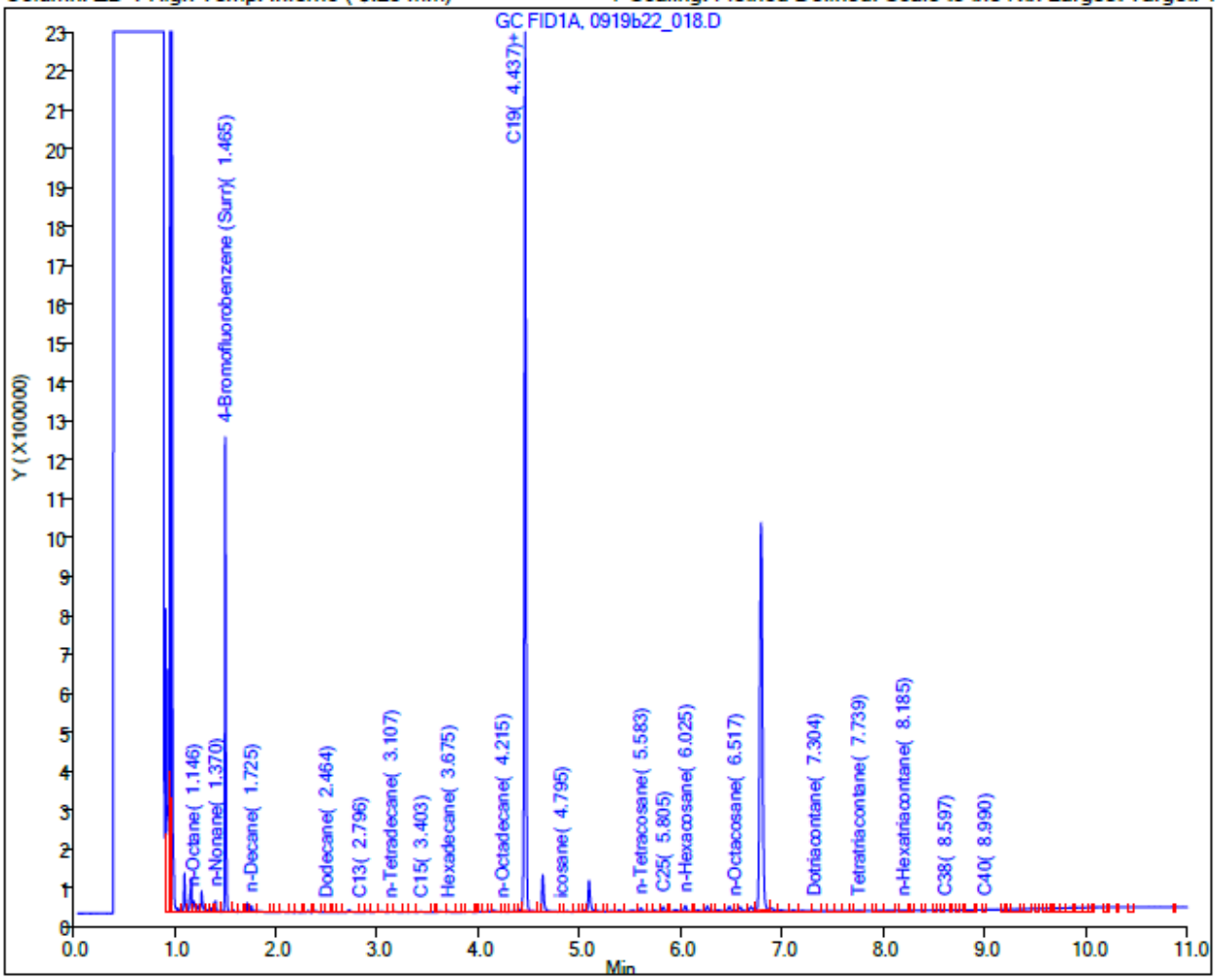
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Sep-2022 11:51:14 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_018.D				
Injection Date:	19-Sep-2022 22:08:30	Instrument ID:	TAC020		
Lims ID:	580-117880-F-7-A	Lab Sample ID:	580-117880-7		
Client ID:	RHMW16-WGN01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2210WK1 Sample Date: 10/4/2022

Lab: Eurofins Seattle

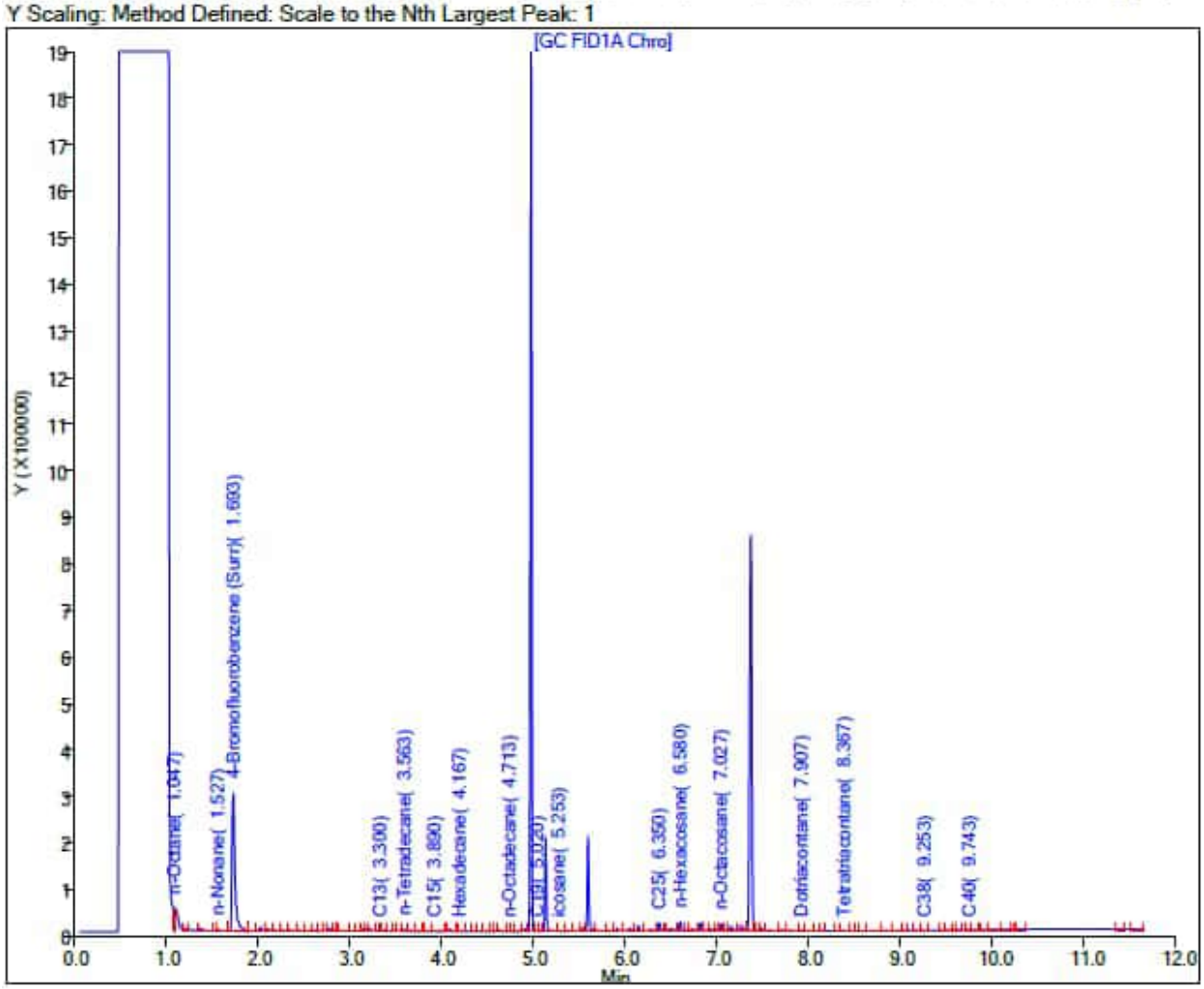
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 10-Oct-2022 02:28:02 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221007-85244.b\100722A020.D		
Injection Date:	07-Oct-2022 22:15:11	Instrument ID:	TAC129
Lims ID:	580-118575-E-10-A	Lab Sample ID:	580-118575-10
Client ID:	RHMW16-WGN01LF-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1

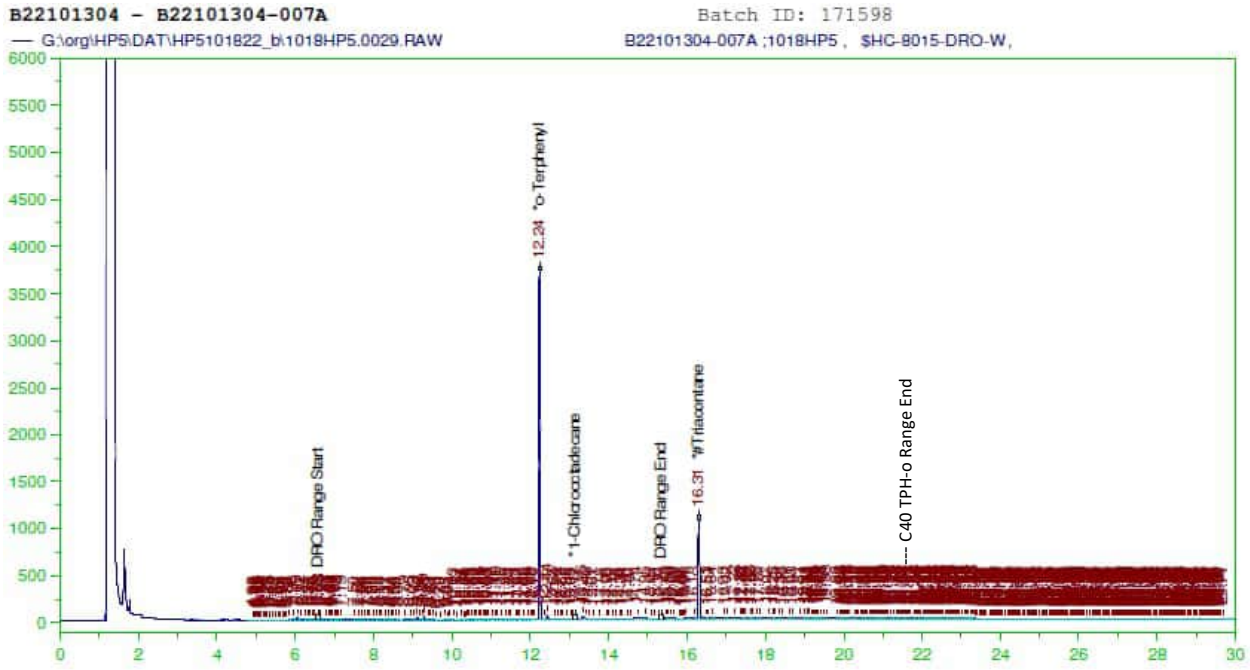


No Silica Gel Cleanup performed.

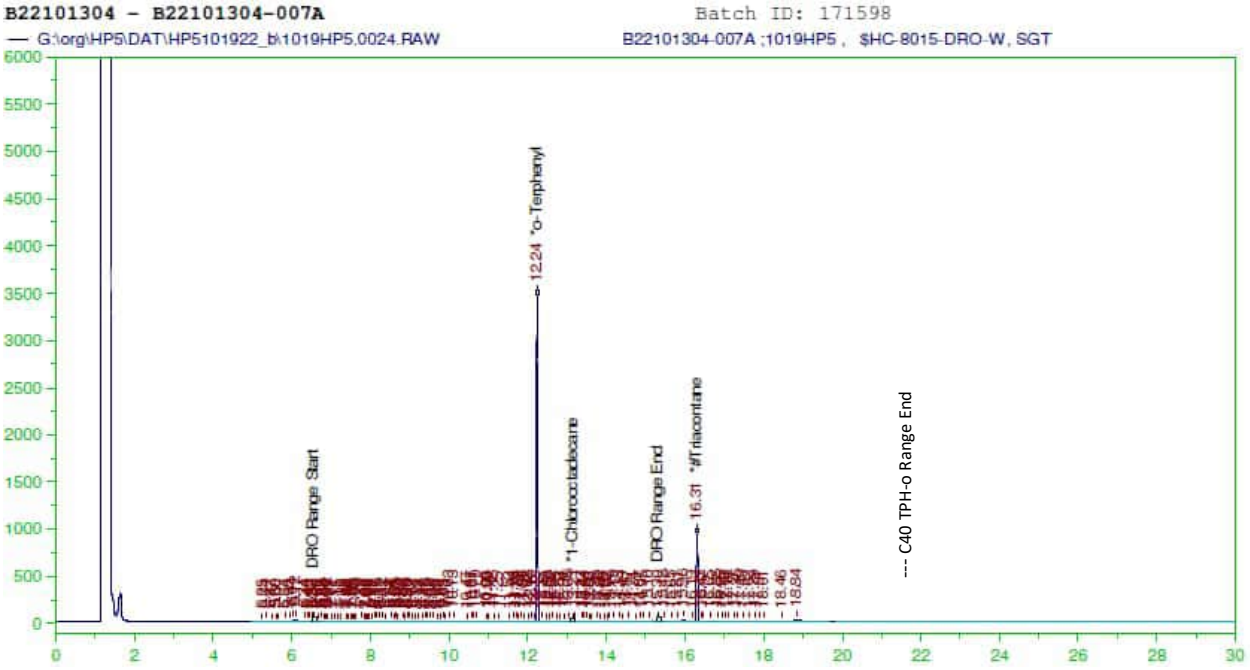
Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2210WK2 Sample Date: 10/12/2022

Lab: Energy

Results (ug/L): **TPH-d (C10 to C24) 128 J** **TPH-o (C24 to C40) 252 J**



Results (ug/L): **TPH-d SGC (C10 to C24) <153 U** **TPH-o SGC (C24 to C40) <153 U**



Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2210WK3 Sample Date: 10/18/2022

Lab: Eurofins Seattle

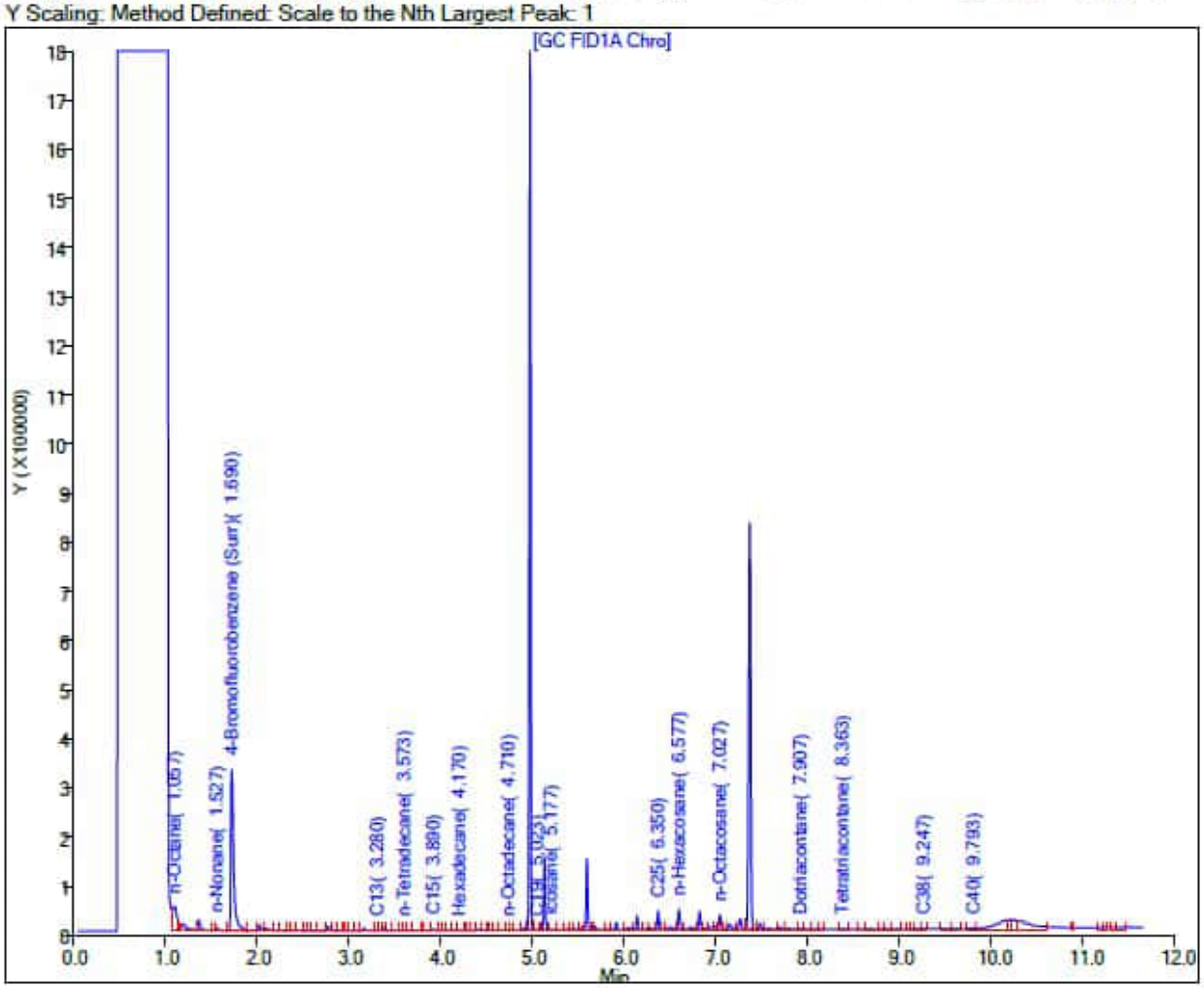
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Oct-2022 12:12:35 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A040.D				
Injection Date:	24-Oct-2022 23:33:53	Instrument ID:	TAC129		
Lims ID:	580-118961-O-12-A	Lab Sample ID:	580-118961-12		
Client ID:	RHMW16-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN02LF-2210WK3 Sample Date: 10/20/2022

Lab: Eurofins Seattle

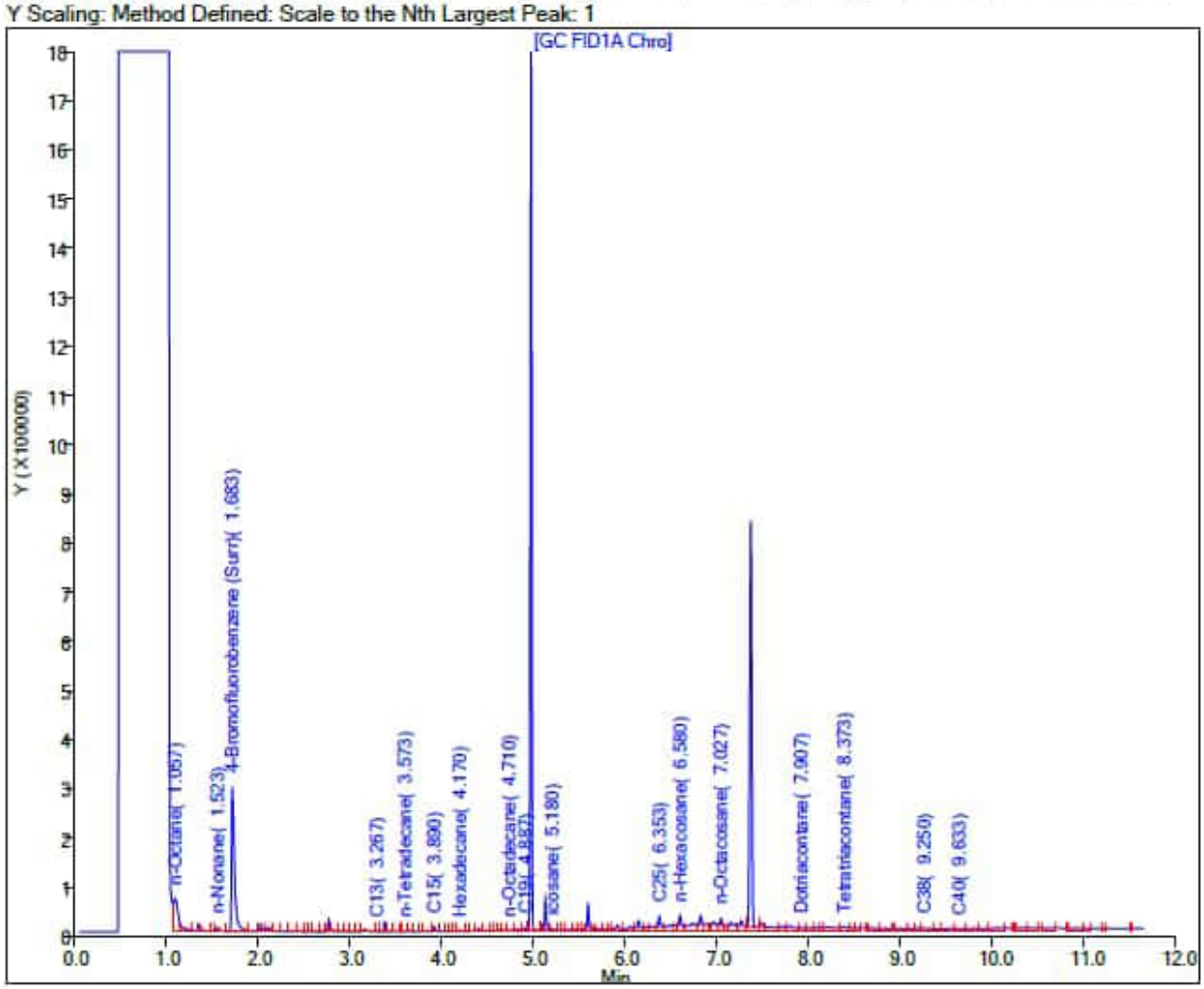
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 28-Oct-2022 14:34:41 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A018.D				
Injection Date:	27-Oct-2022 18:34:27	Instrument ID:	TAC129		
Lims ID:	580-119078-E-5-A	Lab Sample ID:	580-119078-5		
Client ID:	RHMW16-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2210WK4 Sample Date: 10/24/2022

Lab: Eurofins Seattle

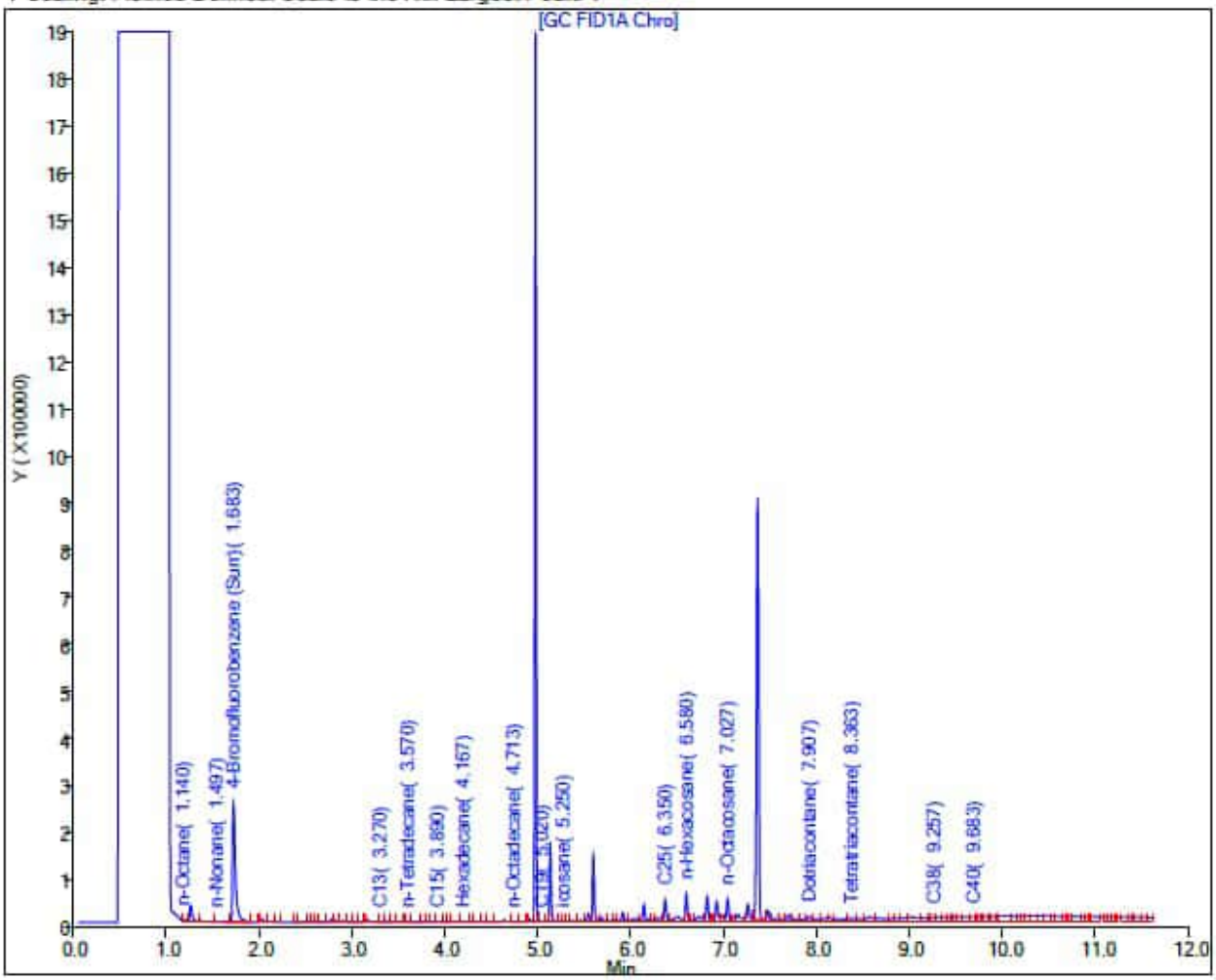
Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:51:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A052.D				
Injection Date:	29-Oct-2022 03:22:51	Instrument ID:	TAC129		
Lims ID:	580-119162-O-16-A	Lab Sample ID:	580-119162-16		
Client ID:	RHMW16-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN02LF-2210WK4 Sample Date: 10/27/2022

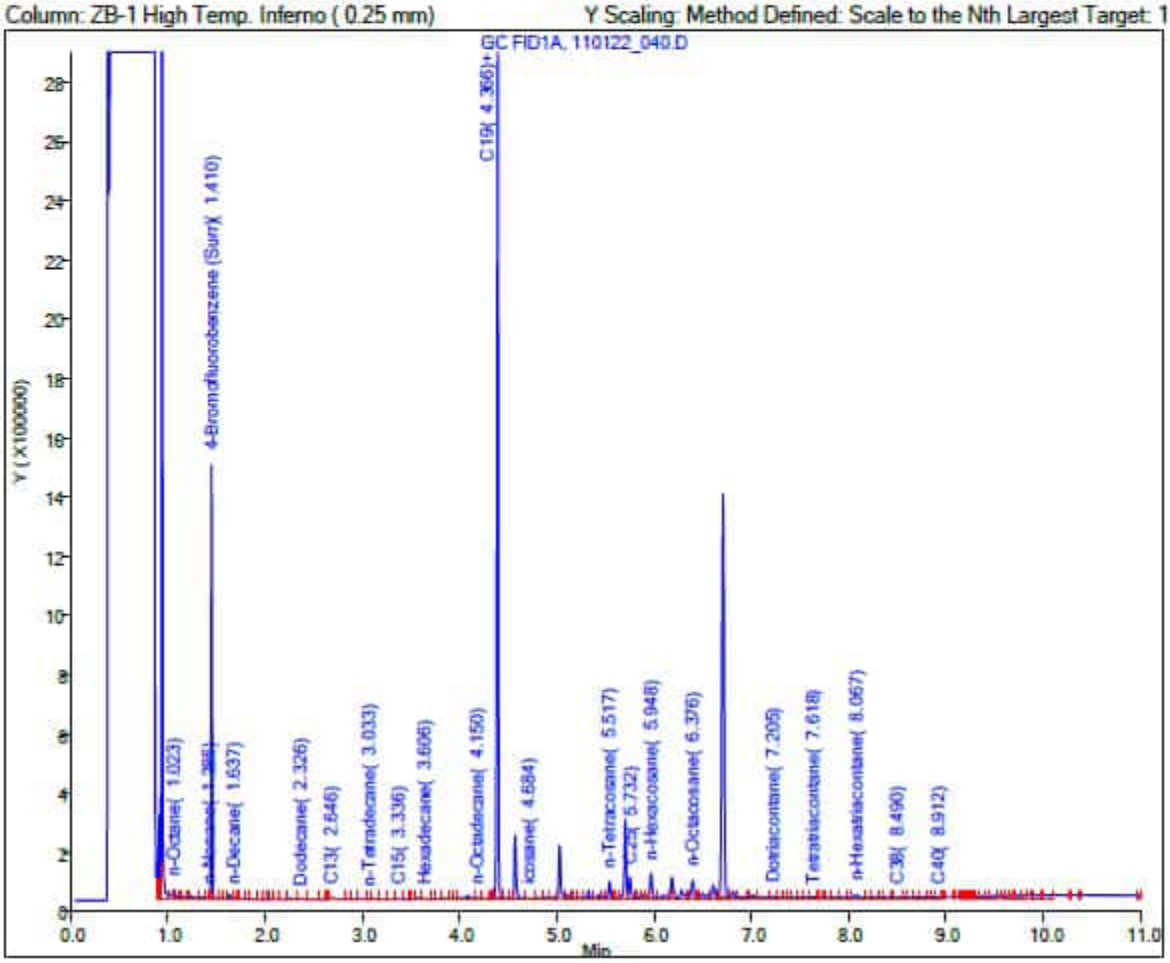
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <97 U** **TPH-o (C24 to C40) <290 U**

Report Date: 02-Nov-2022 14:00:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_040.D
Injection Date: 02-Nov-2022 04:45:30 Instrument ID: TAC020
Lims ID: 580-119363-D-3-A Lab Sample ID: 580-119363-3
Client ID: RHMW16-WGN02LF-2210WK4
Operator ID: DH ALS Bottle#: 39 Worklist Smp#: 77
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2210WK5 Sample Date: 11/1/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <81 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:54:39 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_019.D

Injection Date: 08-Nov-2022 23:33:30 Instrument ID: TAC020

Lims ID: 580-119528-O-5-A Lab Sample ID: 580-119528-5

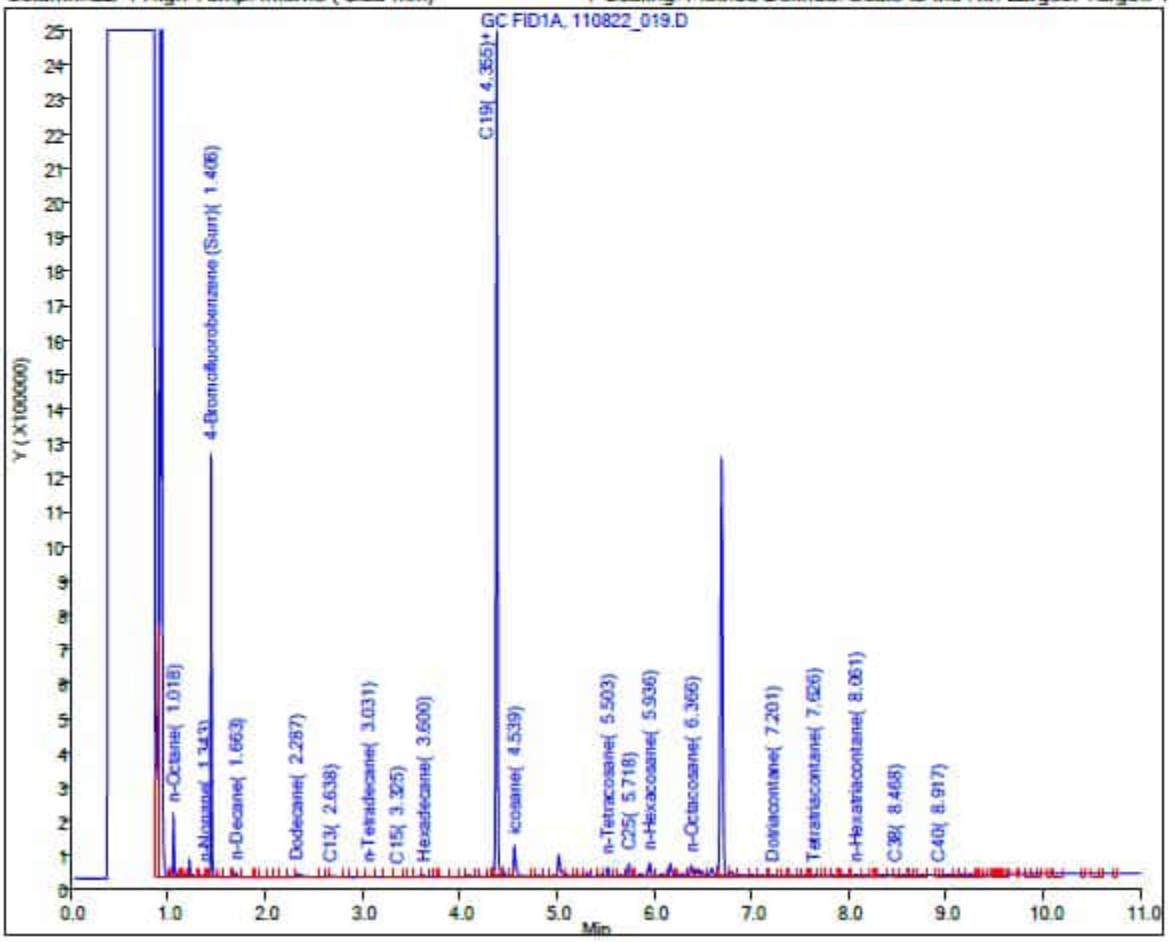
Client ID: RHMW16-WGN01LF-2210WK5

Operator ID: DH ALS Bottle#: 18 Worklist Smp#: 18

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN02LF-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

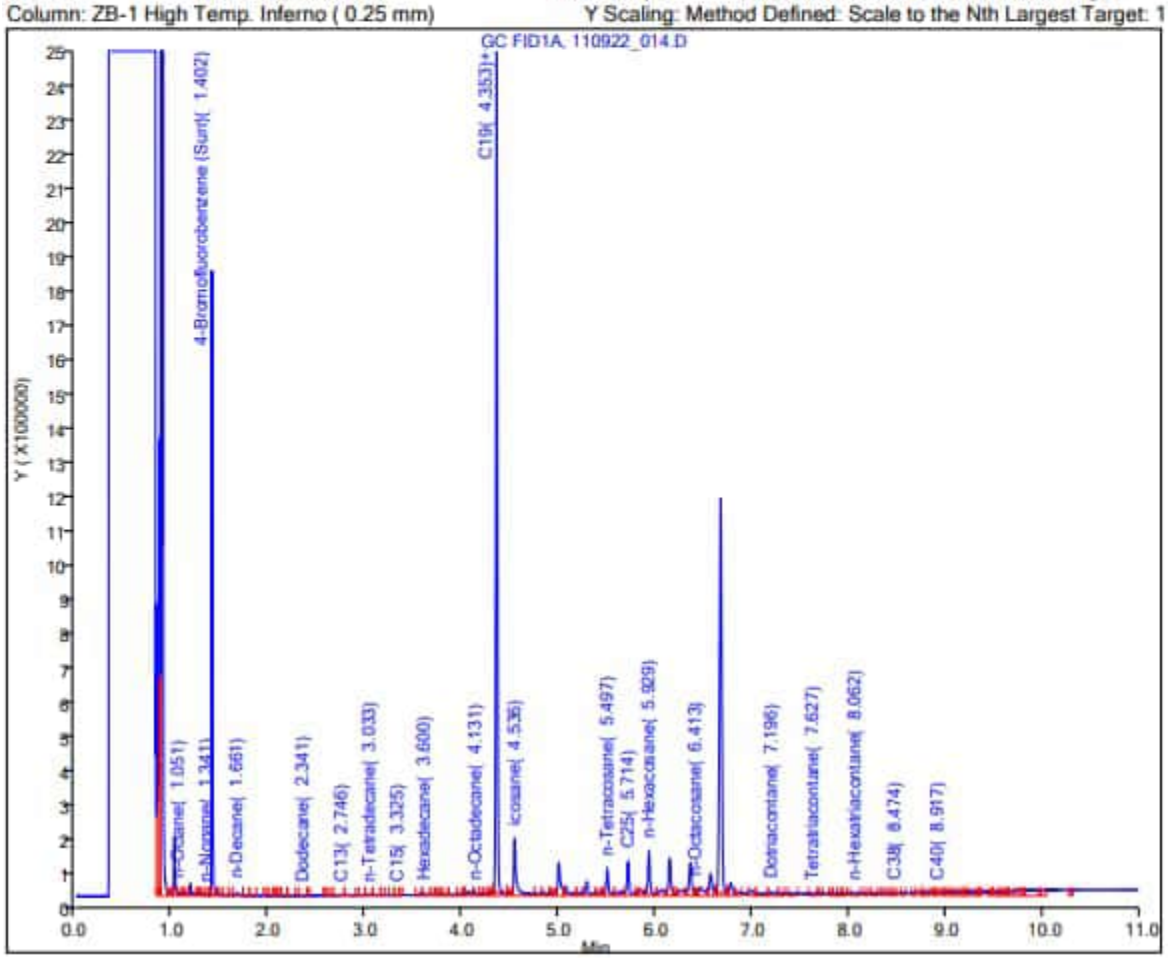
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 10-Nov-2022 14:18:56 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_014.D				
Injection Date:	10-Nov-2022 02:08:30	Instrument ID:	TAC020		
Lims ID:	580-119659-F-5-A	Lab Sample ID:	580-119659-5		
Client ID:	RHMW16-WGN02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2211WK1 Sample Date: 11/7/2022

Lab: Eurofins Seattle

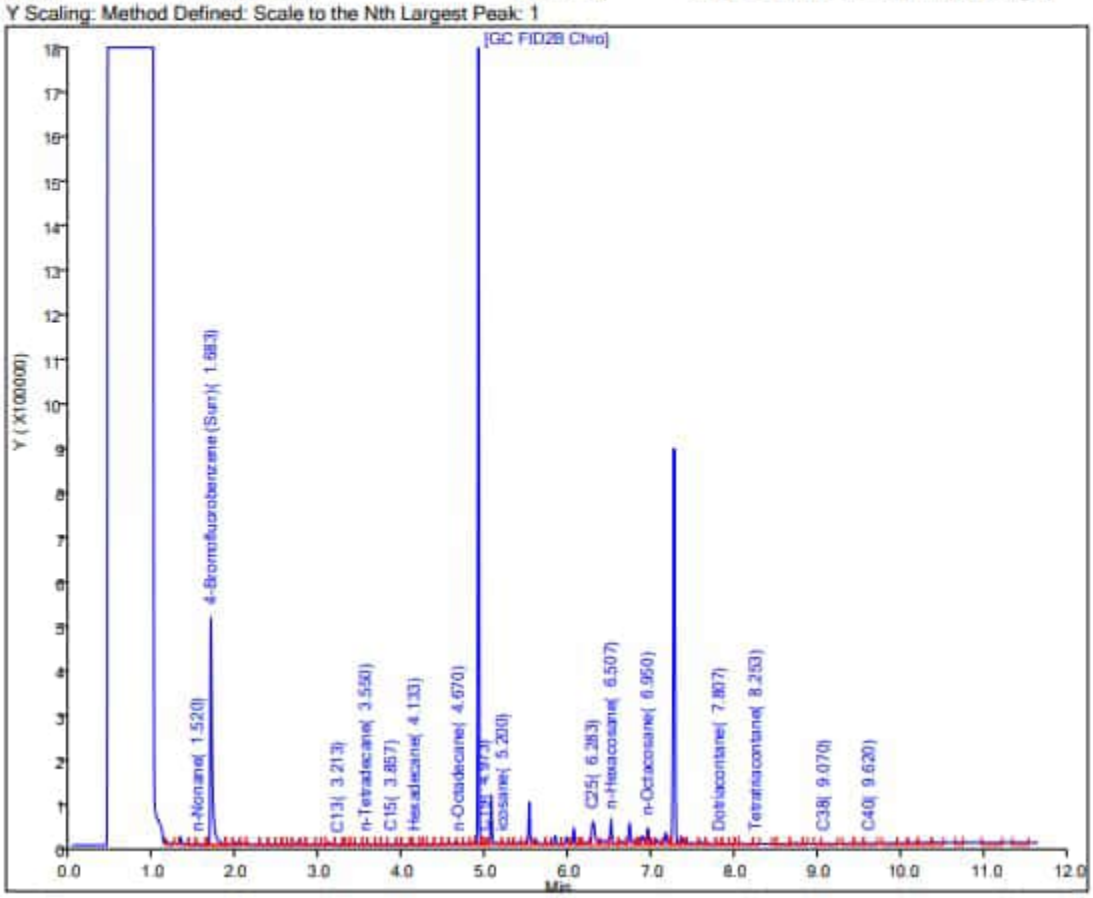
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Nov-2022 13:32:49 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A045.D		
Injection Date:	12-Nov-2022 06:14:25	Instrument ID:	TAC129_R
Lims ID:	580-119804-N-1-A	Lab Sample ID:	580-119804-1
Client ID:	RHMW16-WGN01LF-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN01LF-2211WK3 Sample Date: 11/19/2022

Lab: Eurofins Seattle

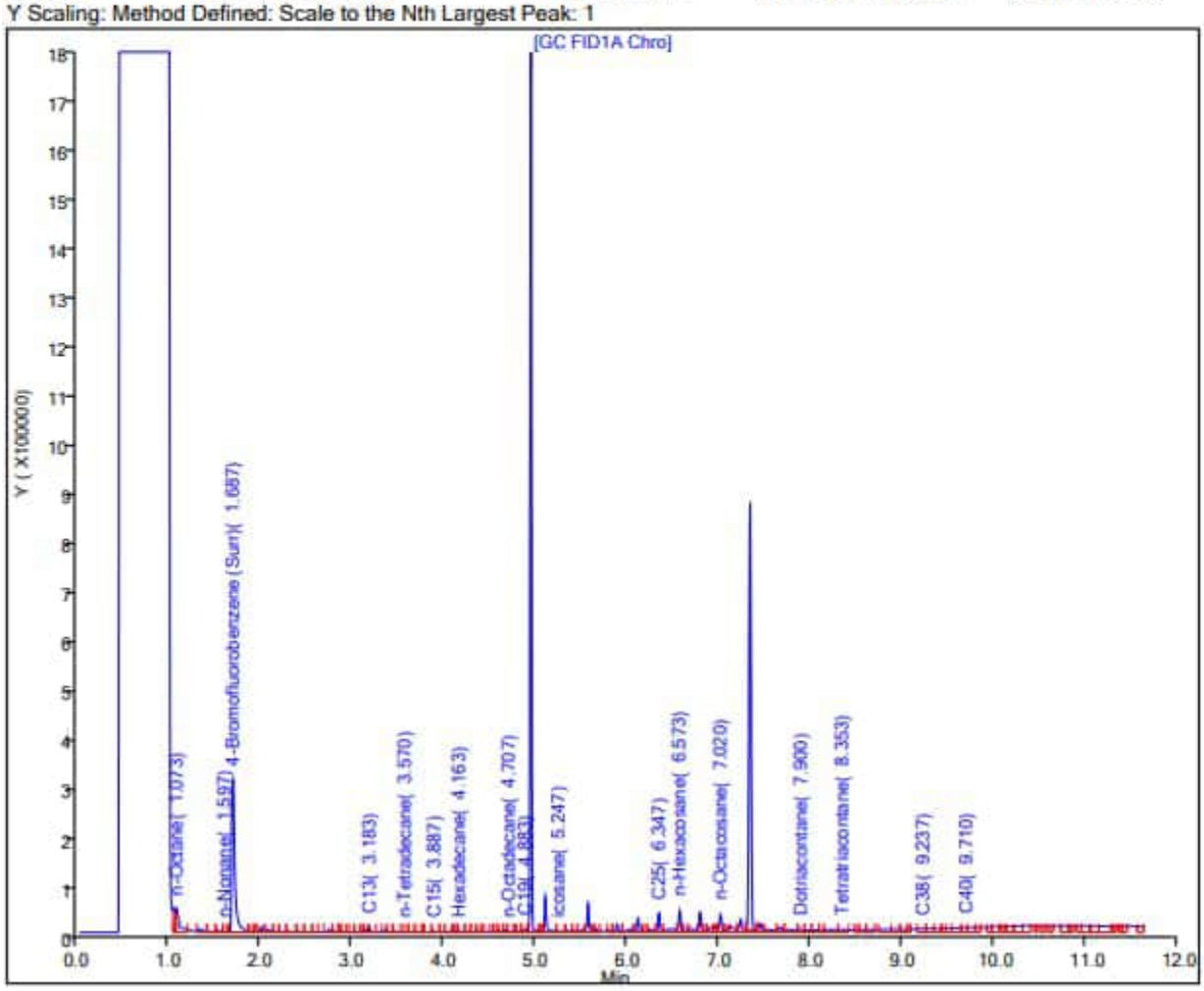
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:12:21 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221128-85982.b\1128AA22A032.D				
Injection Date:	28-Nov-2022 20:50:52	Instrument ID:	TAC129		
Lims ID:	580-120344-O-1-B	Lab Sample ID:	580-120344-1		
Client ID:	RHMW16-WGN01LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	16
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW16** Sample ID: RHMW16-WGN02LF-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

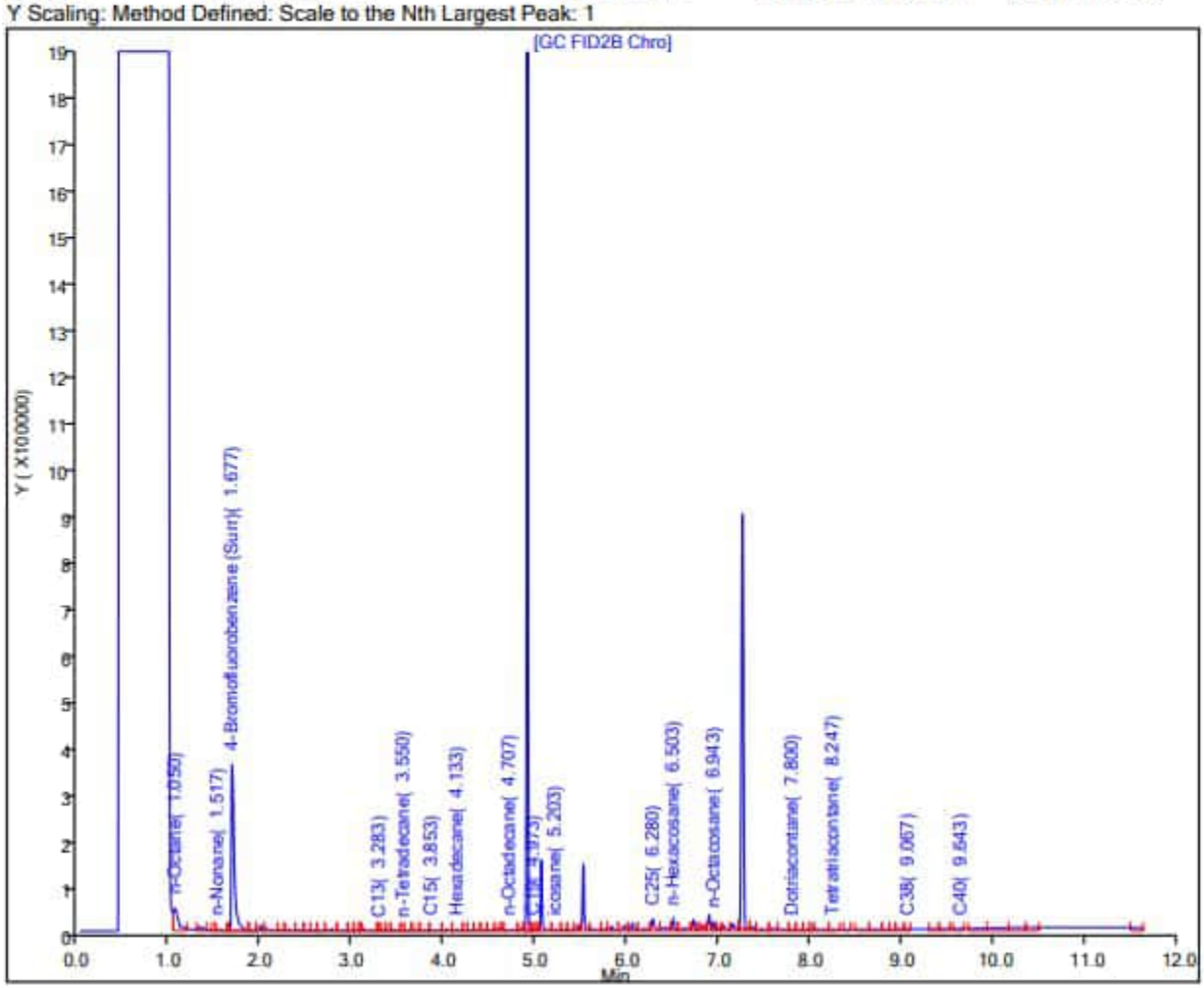
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:32:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A037.D				
Injection Date:	29-Nov-2022 23:40:44	Instrument ID:	TAC129_R		
Lims ID:	580-120405-F-13-A	Lab Sample ID:	580-120405-13		
Client ID:	RHMW16-WGN02LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	65
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2208WK3 Sample Date: 8/17/2022

Lab: Eurofins Seattle

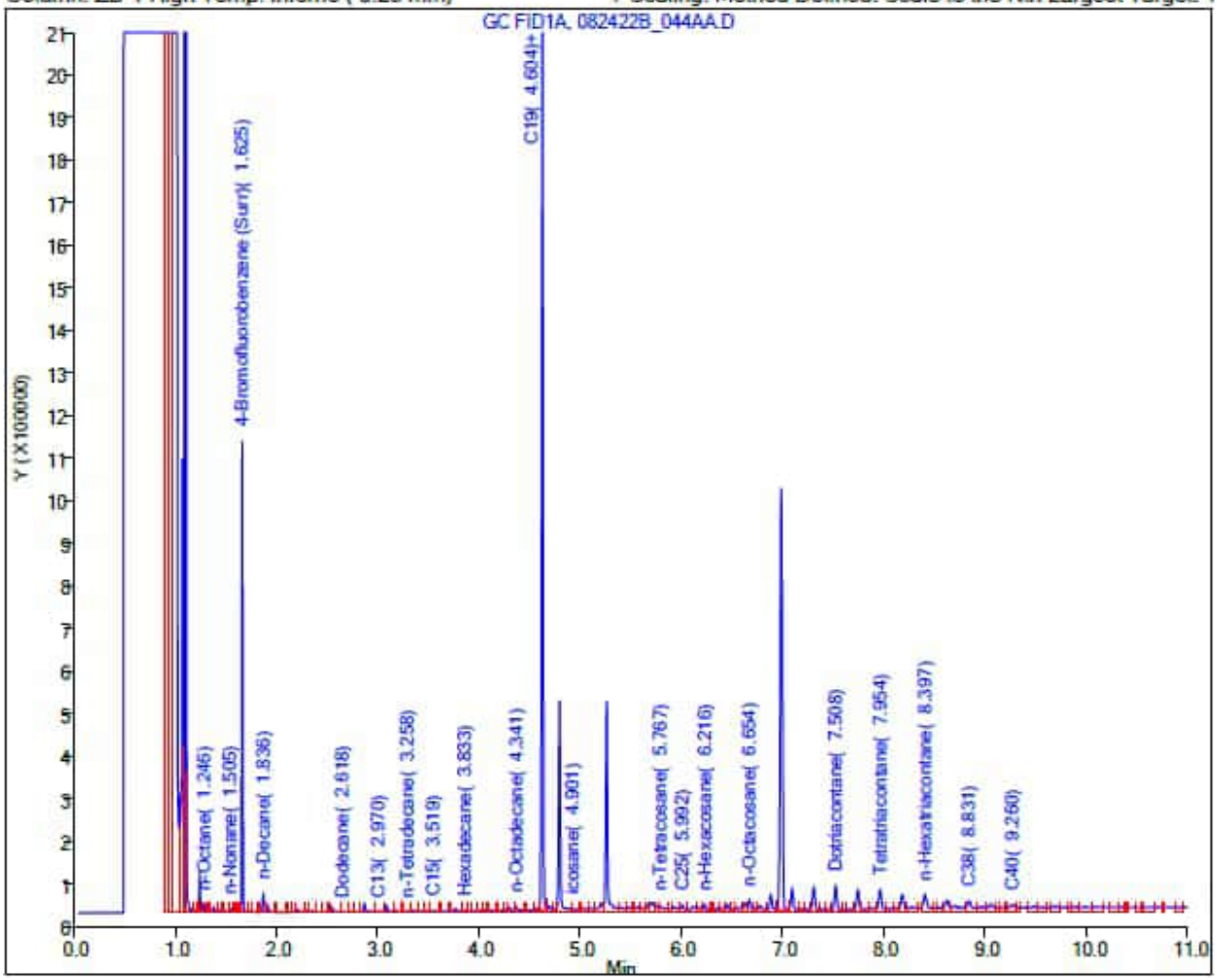
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 25-Aug-2022 13:46:23 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_044AA.D				
Injection Date:	25-Aug-2022 11:08:30	Instrument ID:	TAC020		
Lims ID:	580-117085-E-6-A	Lab Sample ID:	580-117085-6		
Client ID:	RHMW17-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	43	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2208WK4 Sample Date: 8/24/2022

Lab: Eurofins Seattle

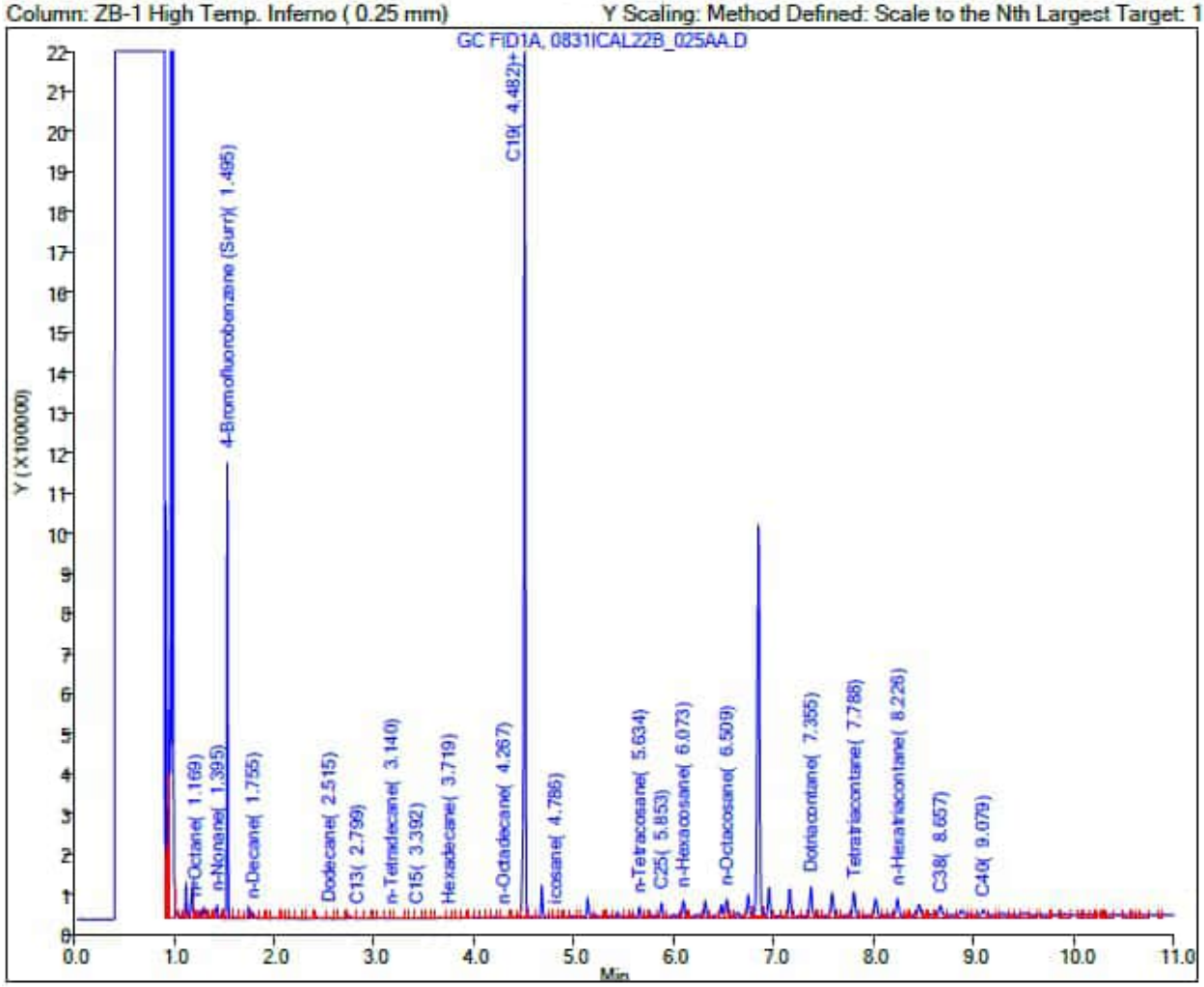
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Sep-2022 14:05:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_025AA.D		
Injection Date:	01-Sep-2022 07:27:30	Instrument ID:	TAC020
Lims ID:	580-117295-N-12-A	Lab Sample ID:	580-117295-12
Client ID:	RHMW17-WGN01B-2208WK4		
Operator ID:	DH	ALS Bottle#:	13 Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2209WK1 Sample Date: 9/9/2022

Lab: Eurofins Seattle

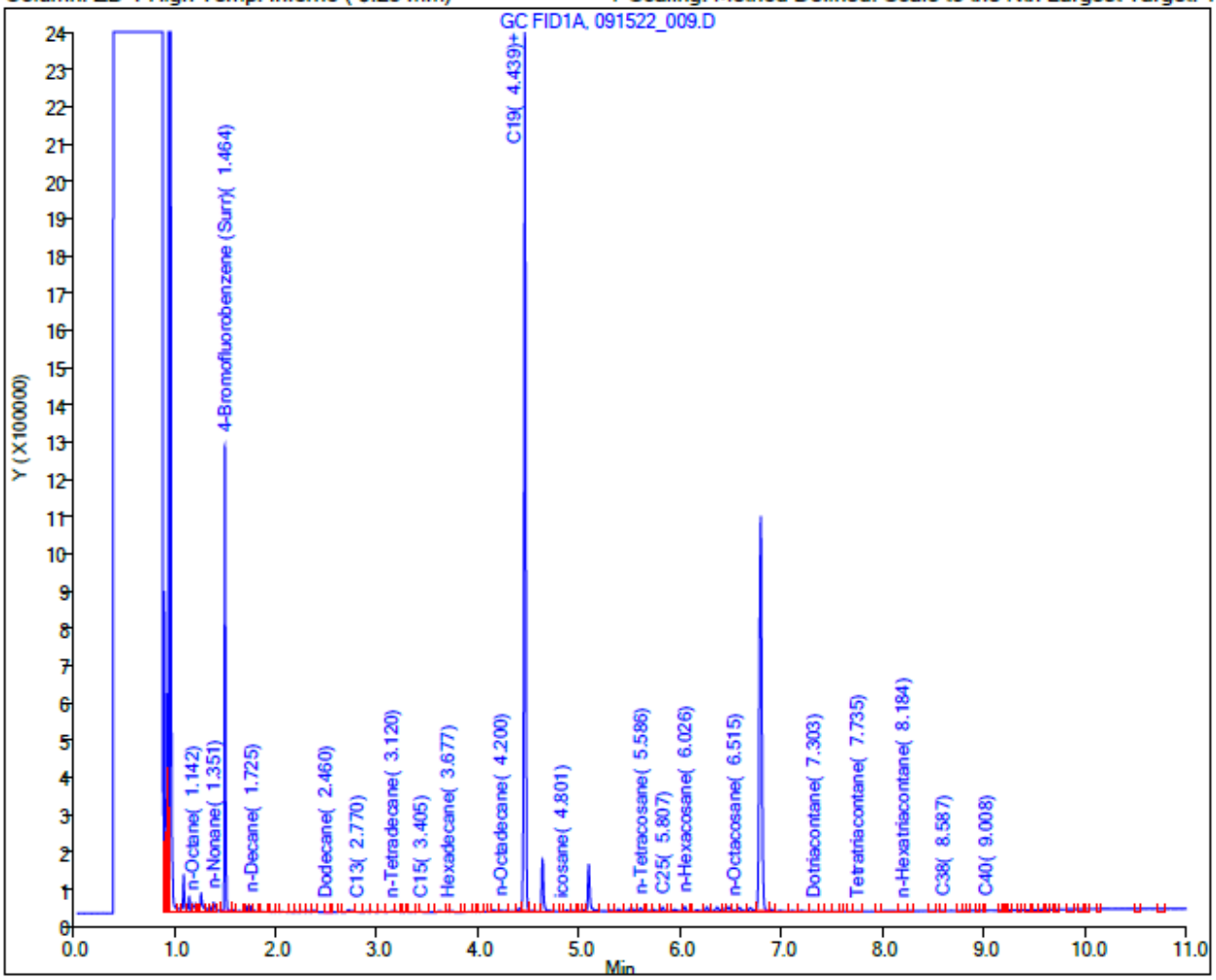
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Sep-2022 14:26:07 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_009.D		
Injection Date:	15-Sep-2022 20:25:30	Instrument ID:	TAC020
Lims ID:	580-117801-E-4-A	Lab Sample ID:	580-117801-4
Client ID:	RHMW17-WGN01B-2209WK1		
Operator ID:	DH	ALS Bottle#:	8 Worklist Smp#: 8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2209WK3 Sample Date: 9/21/2022

Lab: Eurofins Seattle

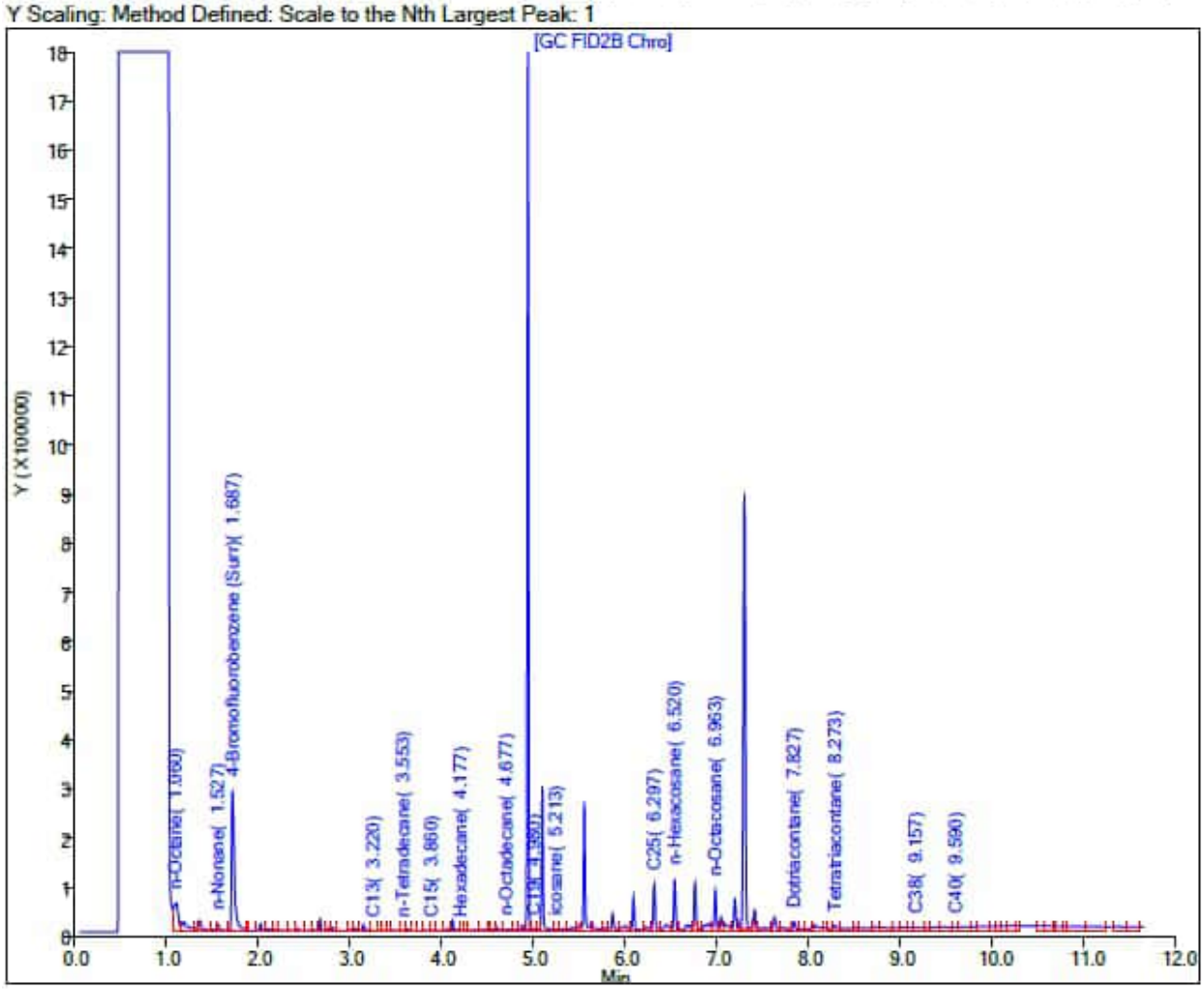
Results (ug/L): **TPH-d (C10 to C24) 86 J** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Sep-2022 14:38:55 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A029.D				
Injection Date:	27-Sep-2022 20:13:05	Instrument ID:	TAC129_R		
Lims ID:	580-118158-R-11-A	Lab Sample ID:	580-118158-11		
Client ID:	RHMW17-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



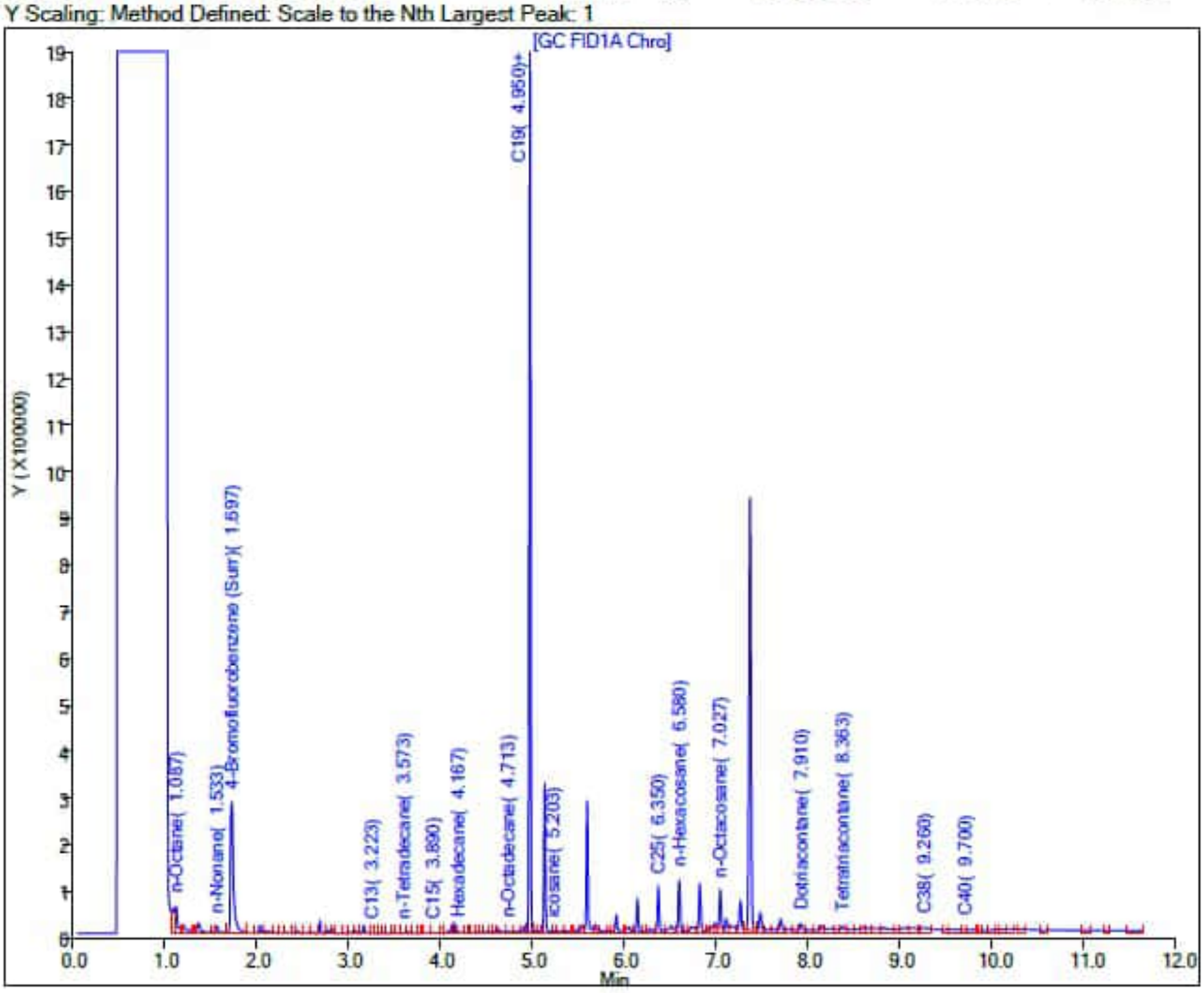
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 29-Sep-2022 14:44:10 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220928-85071.b\092822A022.D				
Injection Date:	28-Sep-2022 20:45:29	Instrument ID:	TAC129		
Lims ID:	580-118158-R-11-B	Lab Sample ID:	580-118158-11		
Client ID:	RHMW17-WGN01B-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW17** Sample ID: RHMW17-WGN01B-2210WK1 Sample Date: 10/5/2022

Lab: Eurofins Seattle

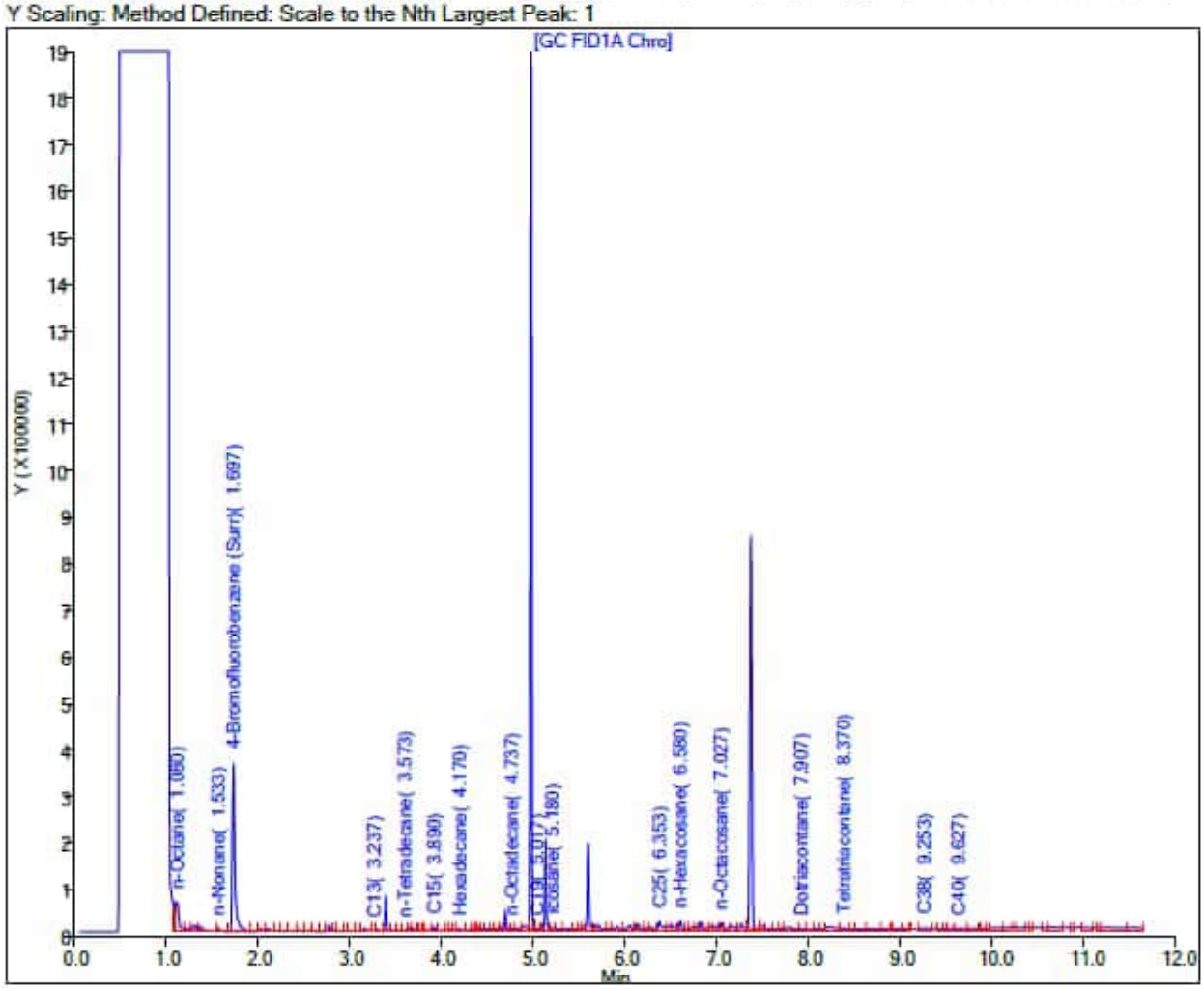
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:55:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A024.D		
Injection Date:	10-Oct-2022 20:34:58	Instrument ID:	TAC129
Lims ID:	580-118648-E-4-A	Lab Sample ID:	580-118648-4
Client ID:	RHMW17-WGN01B-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2210WK2 Sample Date: 10/15/2022

Lab: Eurofins Seattle

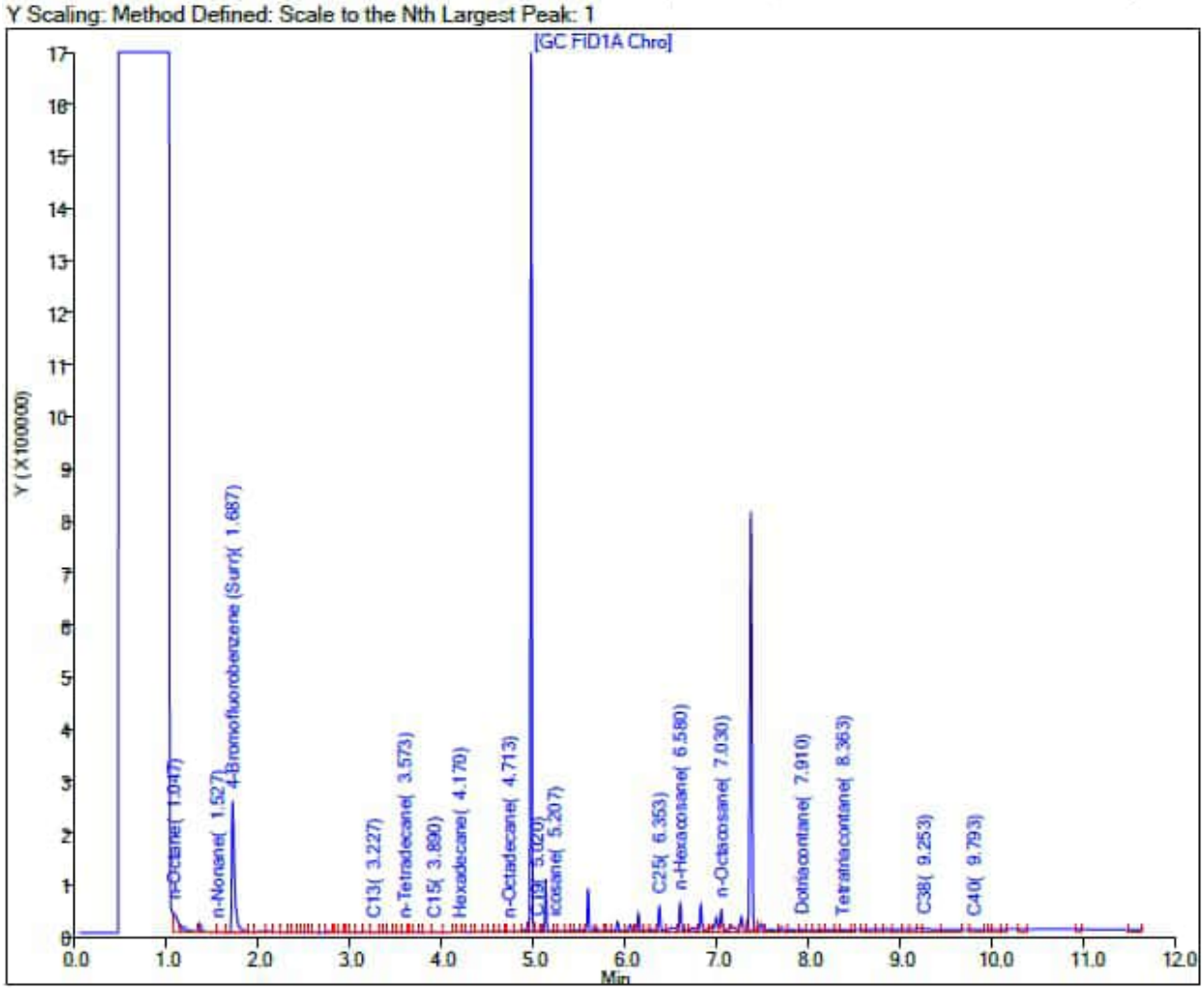
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:38:32 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A052.D				
Injection Date:	22-Oct-2022 01:26:22	Instrument ID:	TAC129		
Lims ID:	580-118920-N-7-A	Lab Sample ID:	580-118920-7		
Client ID:	RHMW17-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2210WK3 Sample Date: 10/19/2022

Lab: Eurofins Seattle

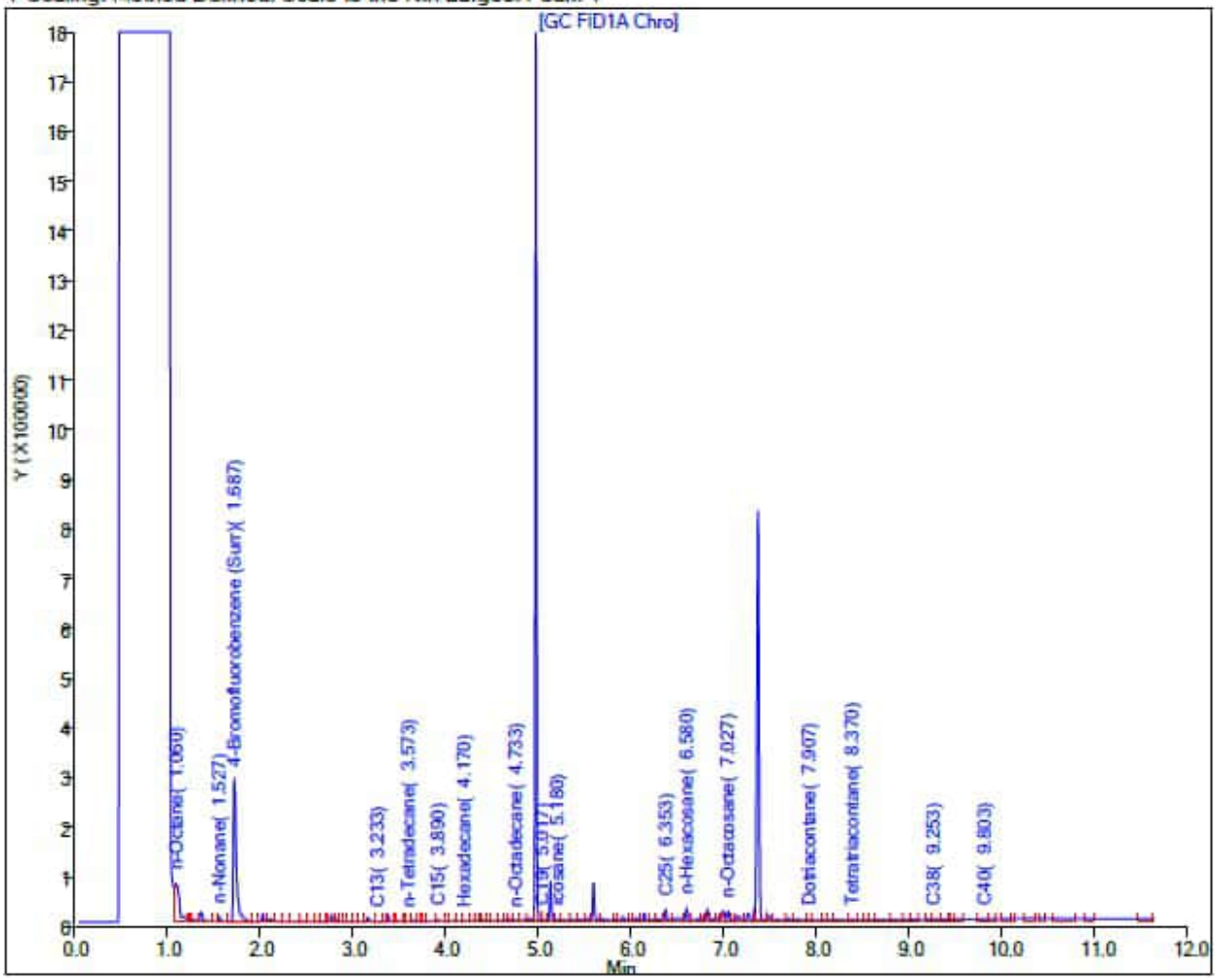
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 26-Oct-2022 13:36:42 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A024.D		
Injection Date:	25-Oct-2022 23:23:39	Instrument ID:	TAC129
Lims ID:	580-119014-N-15-A	Lab Sample ID:	580-119014-15
Client ID:	RHMW17-WGN01B-2210WK3		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN02B-2210WK3 Sample Date: 10/21/2022

Lab: Eurofins Seattle

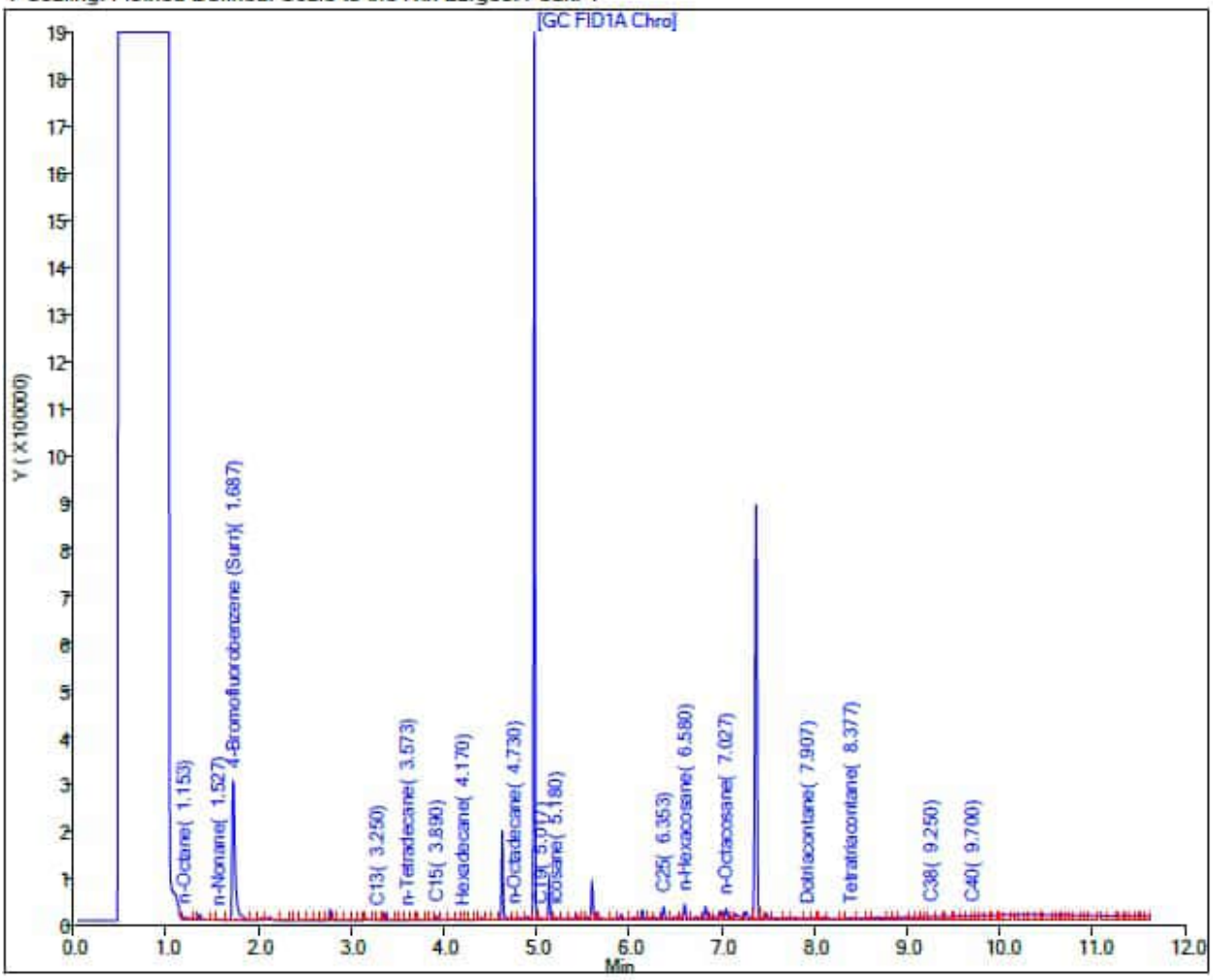
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 28-Oct-2022 14:35:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A052.D		
Injection Date:	27-Oct-2022 23:57:14	Instrument ID:	TAC129
Lims ID:	580-119111-N-13-A	Lab Sample ID:	580-119111-13
Client ID:	RHMW17-WGN02B-2210WK3		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2210WK4 Sample Date: 10/25/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <290 U**

Report Date: 01-Nov-2022 13:46:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_019.D

Injection Date: 31-Oct-2022 23:10:30 Instrument ID: TAC020

Lims ID: 580-119316-O-3-A Lab Sample ID: 580-119316-3

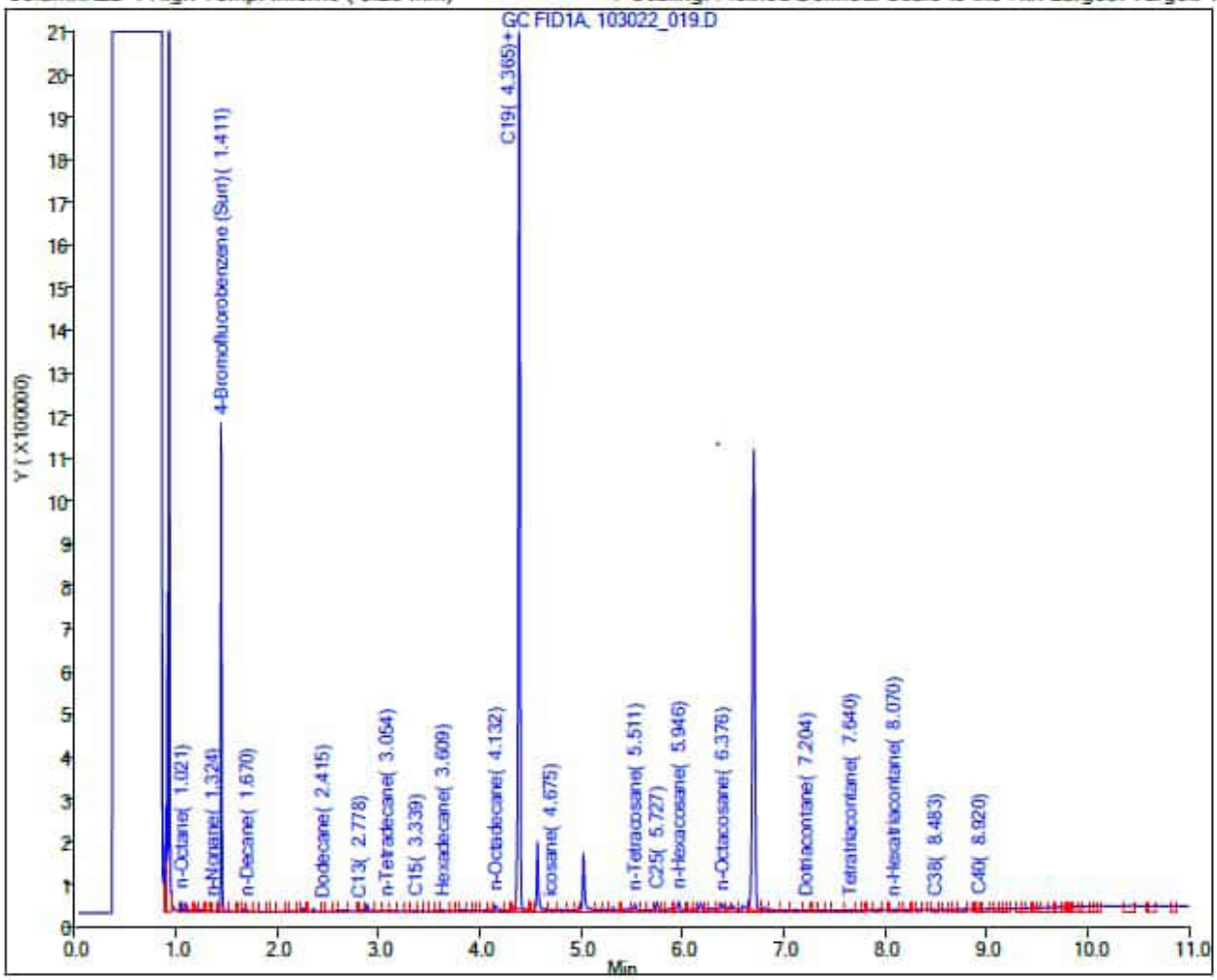
Client ID: RHMW17-WGN01B-2210WK4

Operator ID: DH ALS Bottle#: 18 Worklist Smp#: 68

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN02B-2210WK4 Sample Date: 10/28/2022

Lab: Eurofins Seattle

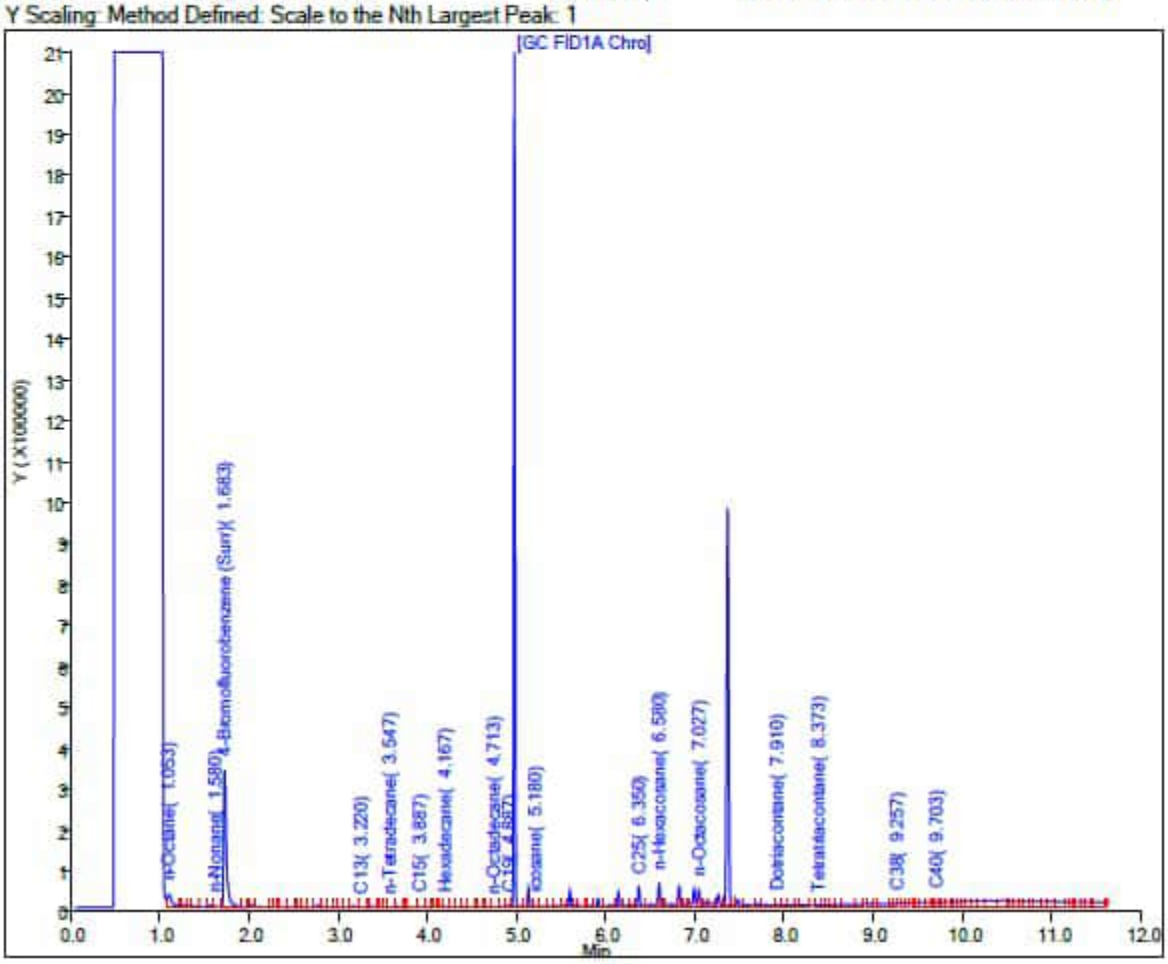
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:12:29 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A060.D				
Injection Date:	03-Nov-2022 02:12:29	Instrument ID:	TAC129		
Lims ID:	580-119430-D-9-A	Lab Sample ID:	580-119430-9		
Client ID:	RHMW17-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN01B-2210WK5 Sample Date: 11/1/2022

Lab: Eurofins Seattle

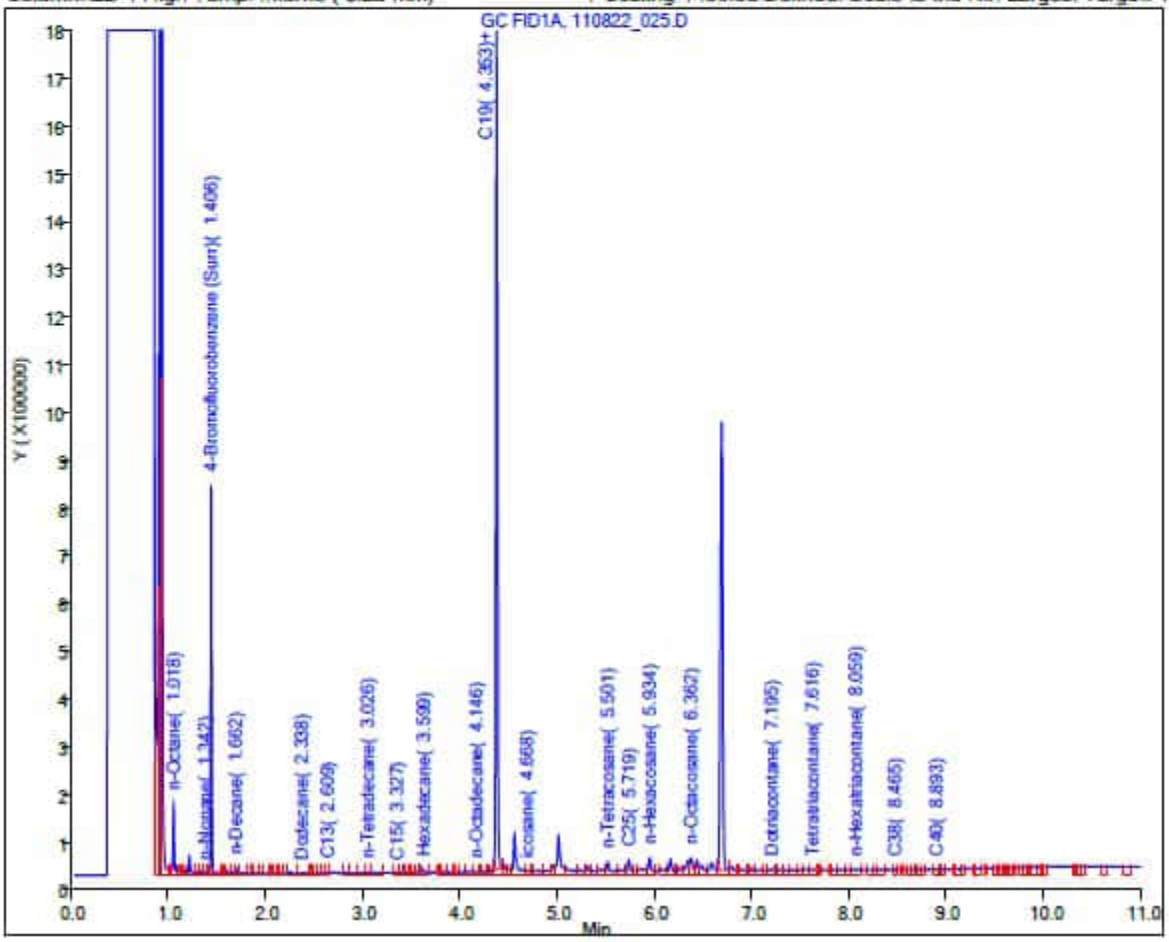
Results (ug/L): **TPH-d (C10 to C24) <79 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:55:42 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_025.D		
Injection Date:	09-Nov-2022 01:34:30	Instrument ID:	TAC020
Lims ID:	580-119618-N-3-A	Lab Sample ID:	580-119618-3
Client ID:	RHMW17-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#: 24	Worklist Smp#: 24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN02B-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <110 UJ** **TPH-o (C24 to C40) <300 UJ**

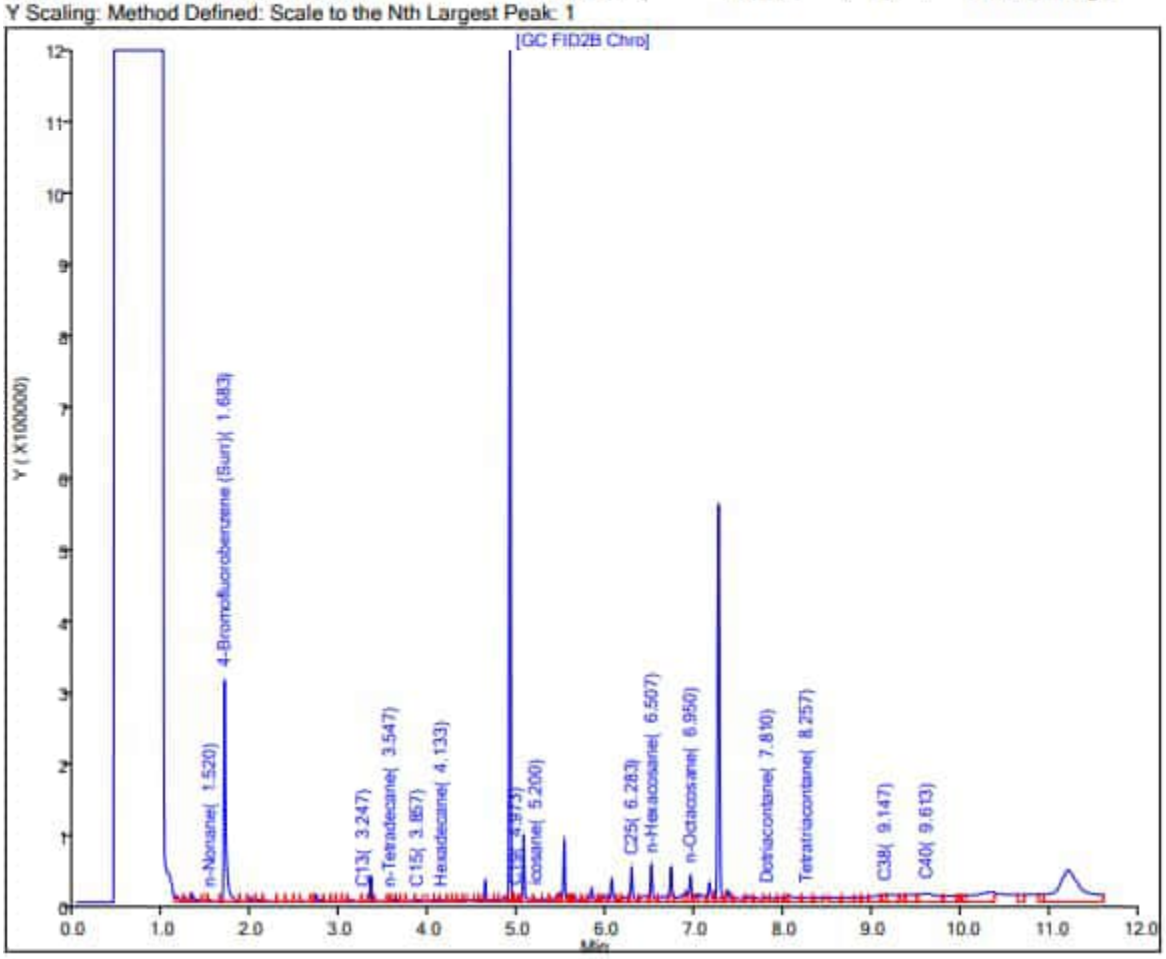
Report Date: 14-Nov-2022 13:33:12 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A059.D

Injection Date:	12-Nov-2022 08:23:33	Instrument ID:	TAC129_R		
Lims ID:	580-119659-E-15-A	Lab Sample ID:	580-119659-15		
Client ID:	RHMW17-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <98 U** **TPH-o SGC (C24 to C40) <290 U**

Report Date: 10-Nov-2022 20:58:27 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221110-85722.b\1110a22A014.D

Injection Date: 10-Nov-2022 20:25:29 Instrument ID: TAC129

Lims ID: 580-119659-F-15-A Lab Sample ID: 580-119659-15

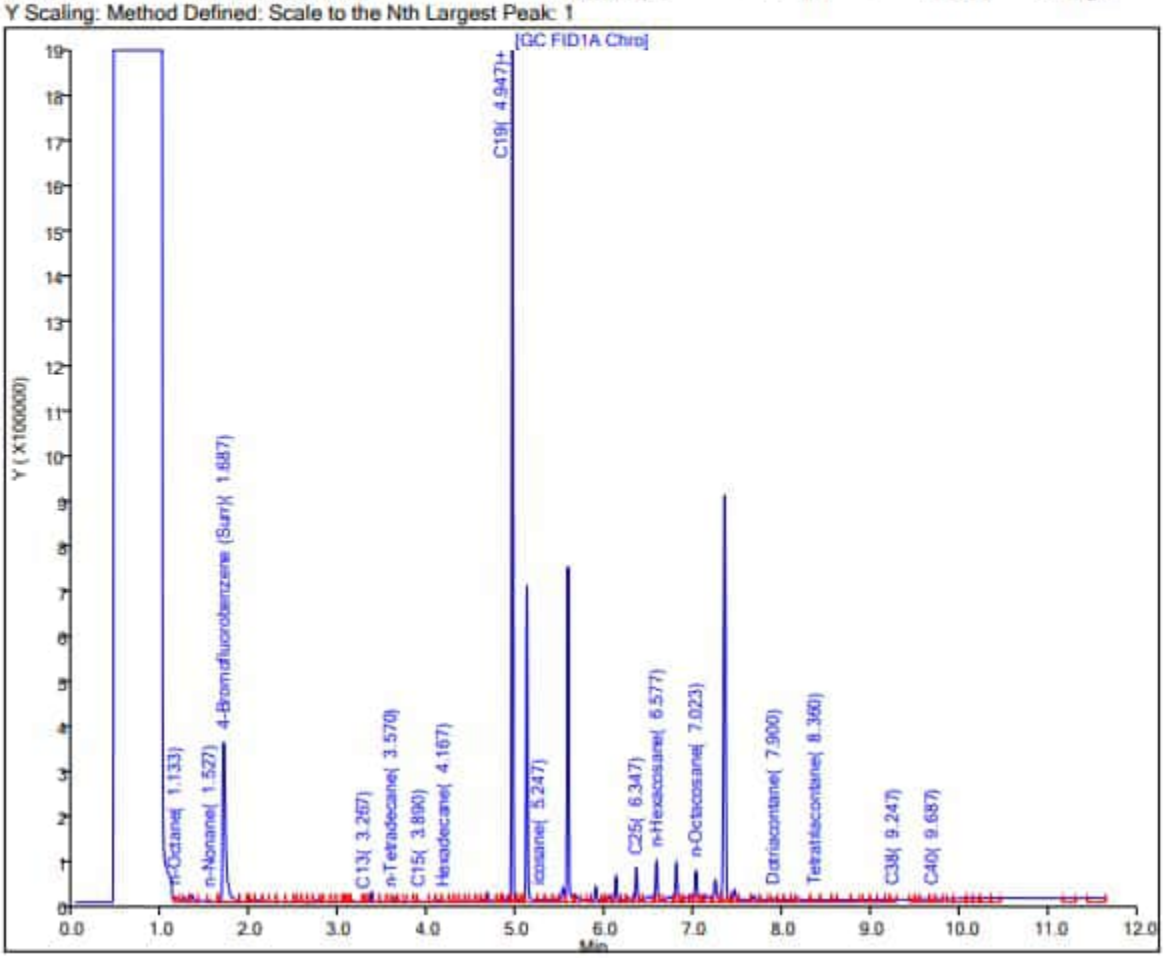
Client ID: RHMW17-WGN02B-2210WK5

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW17** Sample ID: RHMW17-WGN02B-2211WK2 Sample Date: 11/17/2022

Lab: Eurofins Seattle

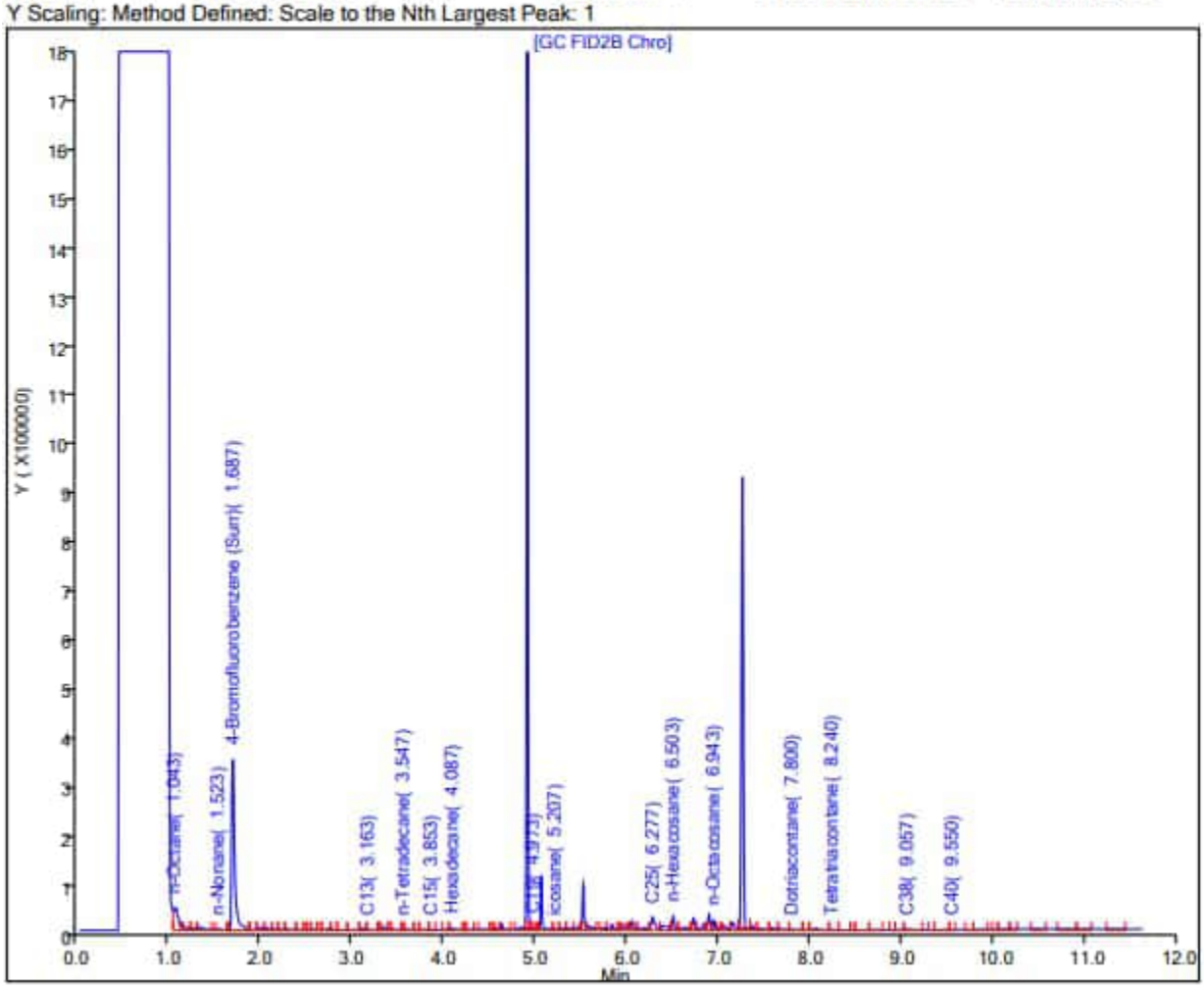
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 29-Nov-2022 13:24:45 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A045.D				
Injection Date:	28-Nov-2022 23:00:31	Instrument ID:	TAC129_R		
Lims ID:	580-120243-N-14-A	Lab Sample ID:	580-120243-14		
Client ID:	RHMW17-WGN02B-2211WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW17** Sample ID: RHMW17-WGN02B-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

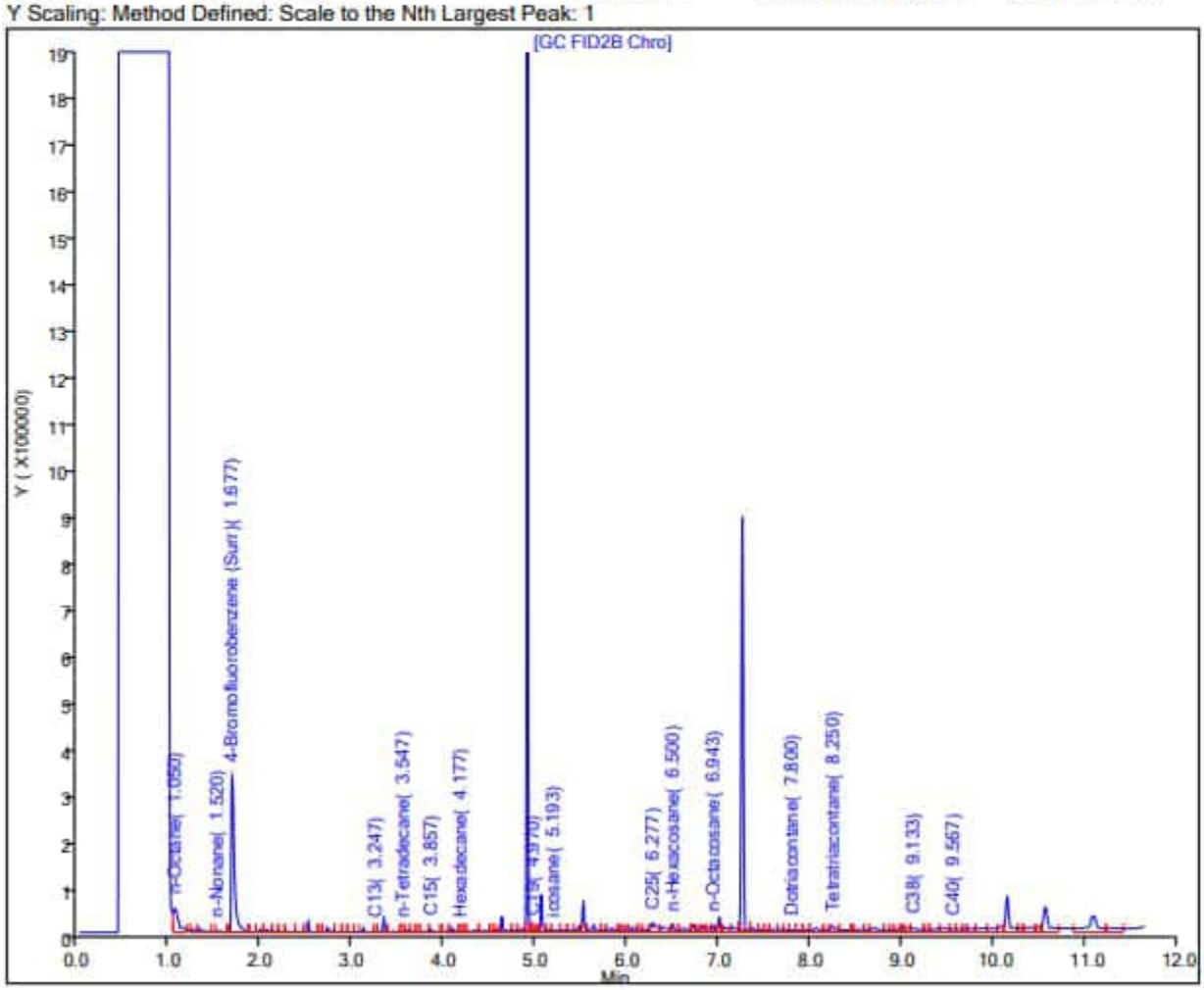
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:32:23 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A023.D				
Injection Date:	29-Nov-2022 21:30:41	Instrument ID:	TAC129_R		
Lims ID:	580-120405-F-1-A	Lab Sample ID:	580-120405-1		
Client ID:	RHMW17-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2208WK2 Sample Date: 8/8/2022

Lab: Eurofins Seattle

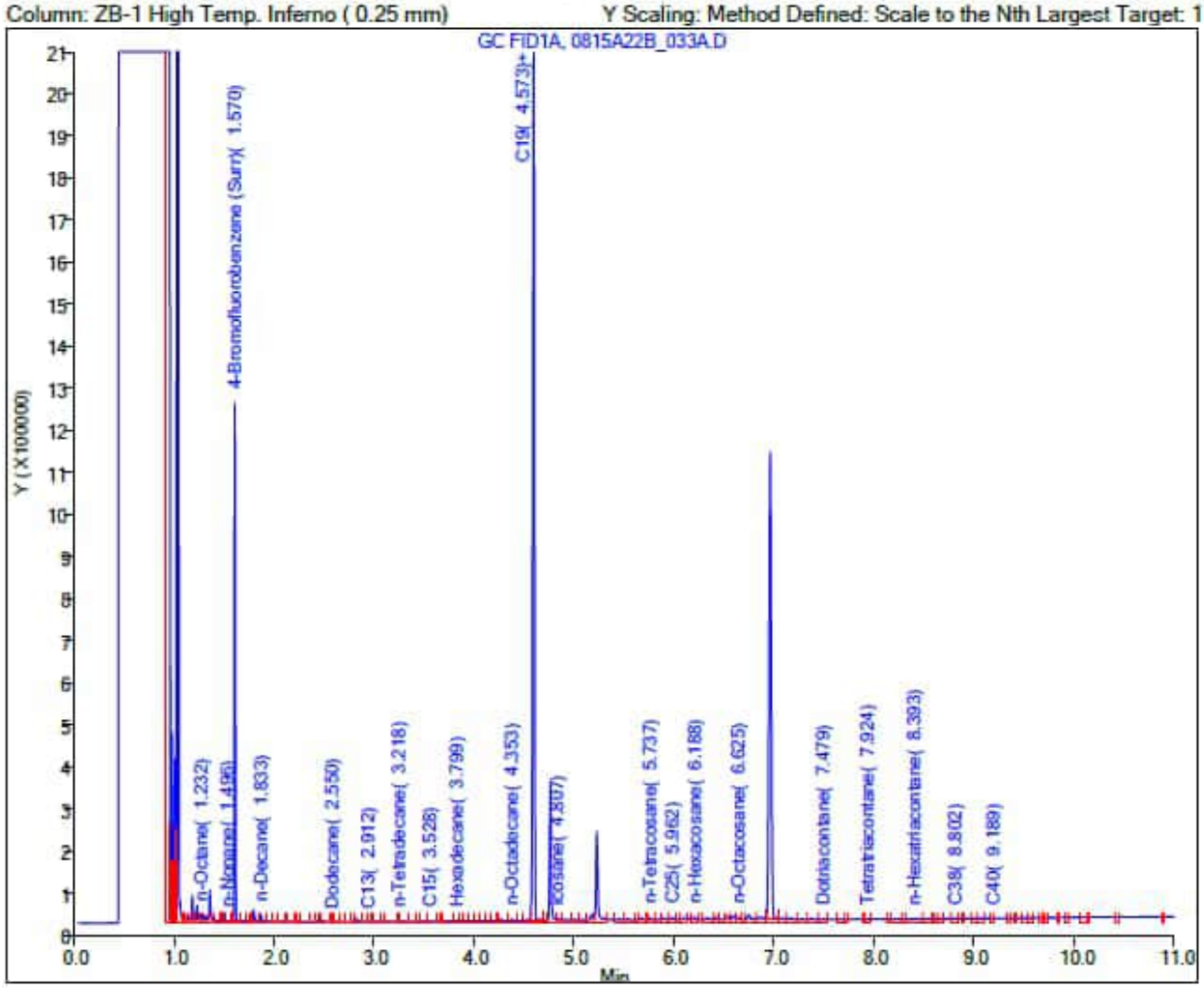
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Aug-2022 07:57:19 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_033A.D		
Injection Date:	16-Aug-2022 05:38:30	Instrument ID:	TAC020
Lims ID:	580-116749-C-1-A	Lab Sample ID:	580-116749-1
Client ID:	RHMW19-WGN01B-2208WK2		
Operator ID:	DH	ALS Bottle#:	33 Worklist Smp#: 35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2209WK1 Sample Date: 9/7/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Sep-2022 13:58:24 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_011.D

Injection Date: 13-Sep-2022 23:00:30 Instrument ID: TAC020

Lims ID: 580-117675-F-10-A Lab Sample ID: 580-117675-10

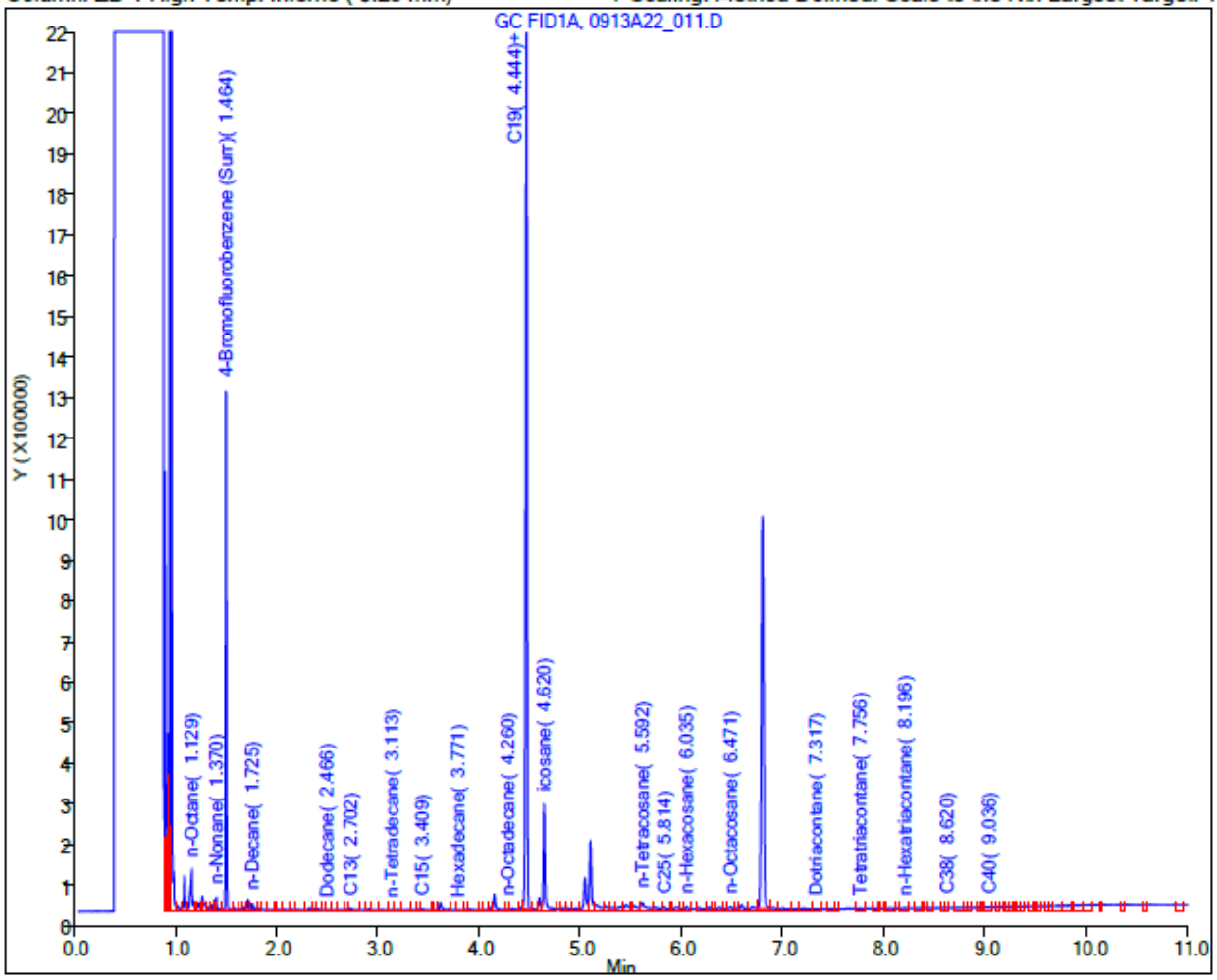
Client ID: RHMW19-WGN01B-2209WK1

Operator ID: DH ALS Bottle#: 10 Worklist Smp#: 10

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2209WK2 Sample Date: 9/12/2022

Lab: Eurofins Seattle

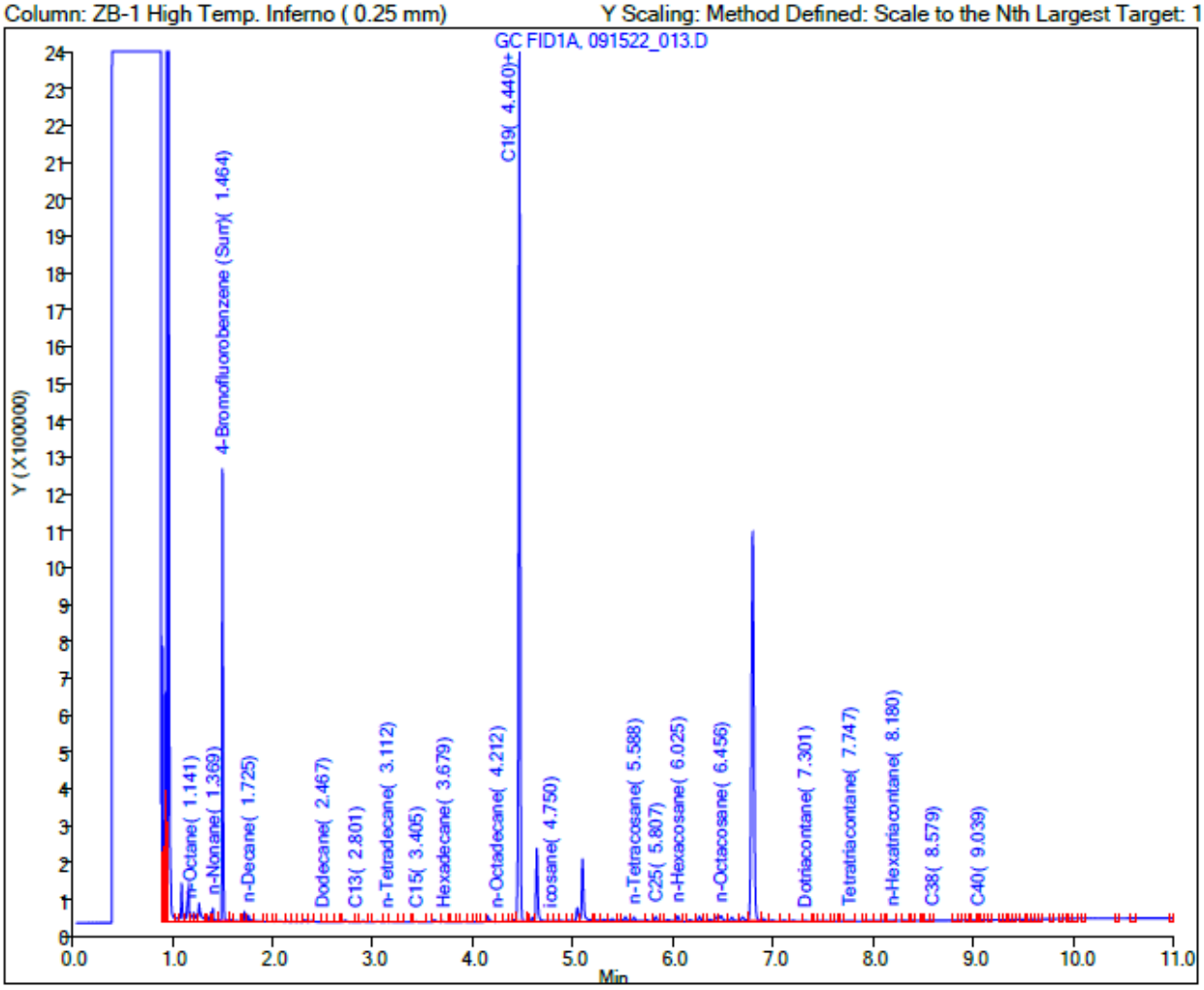
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Sep-2022 14:26:35 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_013.D		
Injection Date:	15-Sep-2022 21:46:30	Instrument ID:	TAC020
Lims ID:	580-117801-E-6-A	Lab Sample ID:	580-117801-6
Client ID:	RHMW19-WGN01B-2209WK2		
Operator ID:	DH	ALS Bottle#:	12 Worklist Smp#: 12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2210WK2 Sample Date: 10/14/2022

Lab: Eurofins Seattle

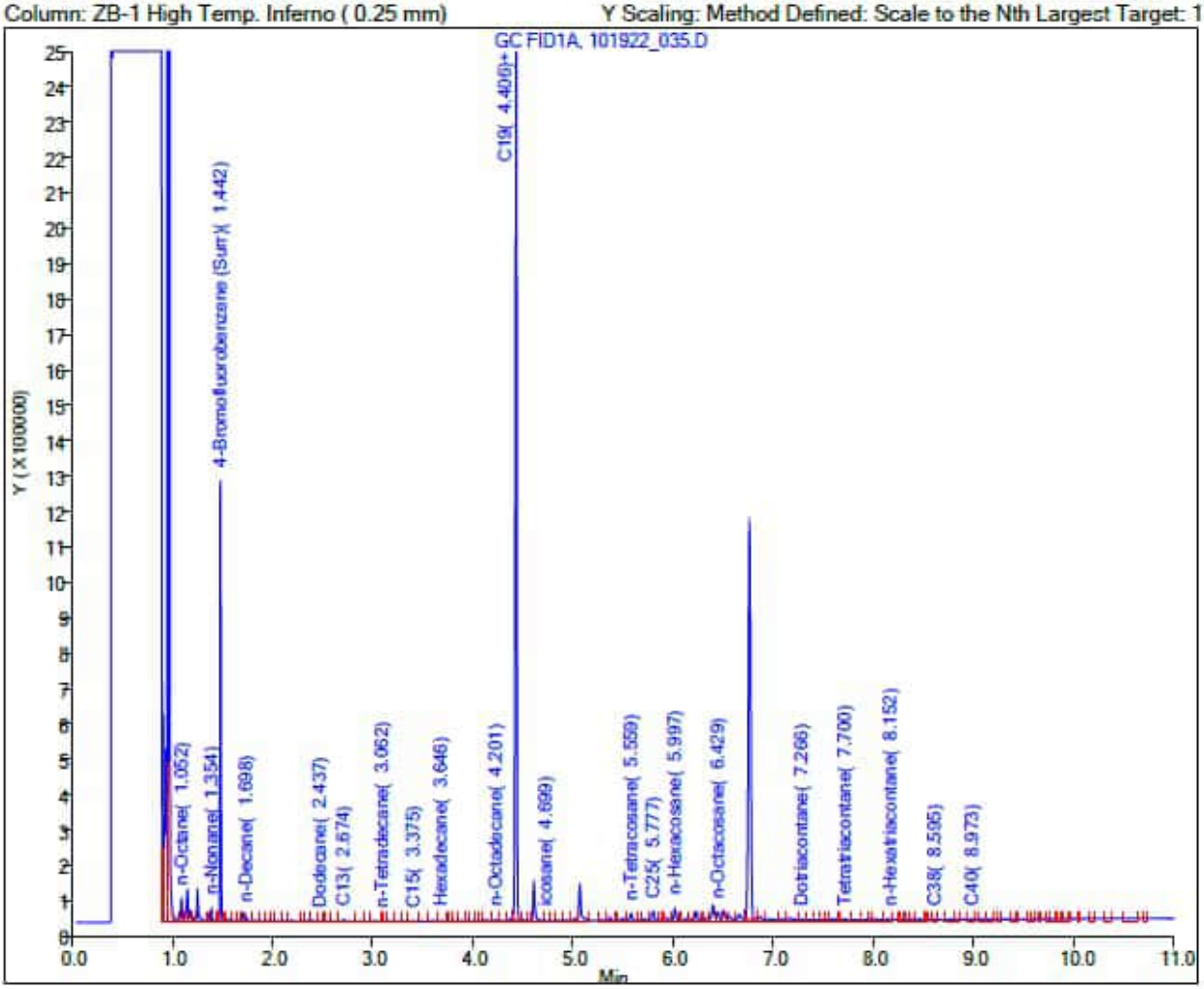
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:42:49 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_035.D		
Injection Date:	20-Oct-2022 03:34:30	Instrument ID:	TAC020
Lims ID:	580-118888-F-6-A	Lab Sample ID:	580-118888-6
Client ID:	RHMW19-WGN01B-2210WK2		
Operator ID:	DH	ALS Bottle#:	34 Worklist Smp#: 62
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2210WK3 Sample Date: 10/17/2022

Lab: Eurofins Seattle

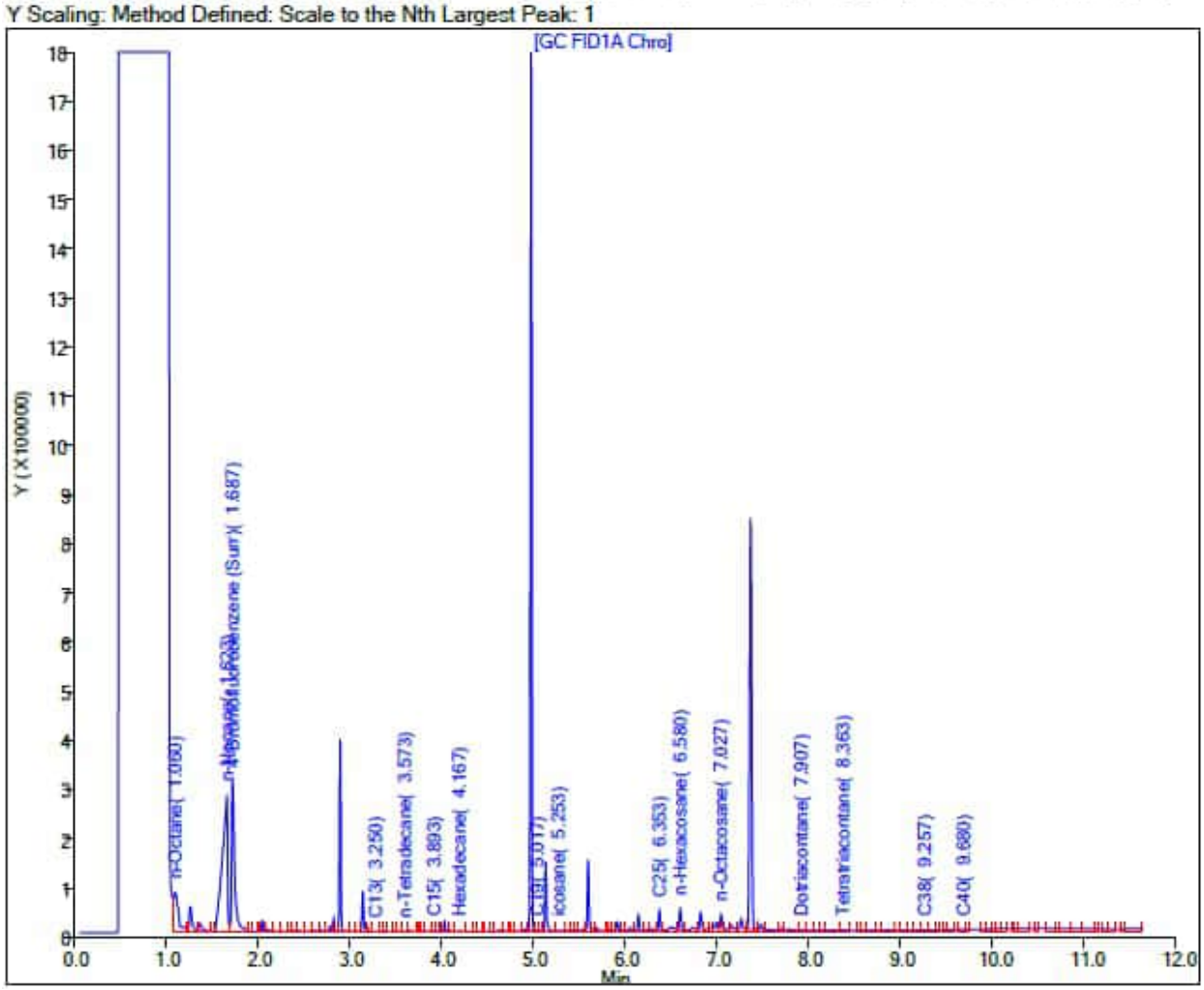
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <310 U**

Report Date: 27-Oct-2022 13:47:01 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221026-85490.b\102622A054.D				
Injection Date:	27-Oct-2022 02:05:29	Instrument ID:	TAC129		
Lims ID:	580-118934-N-1-A	Lab Sample ID:	580-118934-1		
Client ID:	RHMW19-WGN01B-2210WK3				
Operator ID:	DH/CC	ALS Bottle#:	0	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN02B-2210WK3 Sample Date: 10/19/2022

Lab: Eurofins Seattle

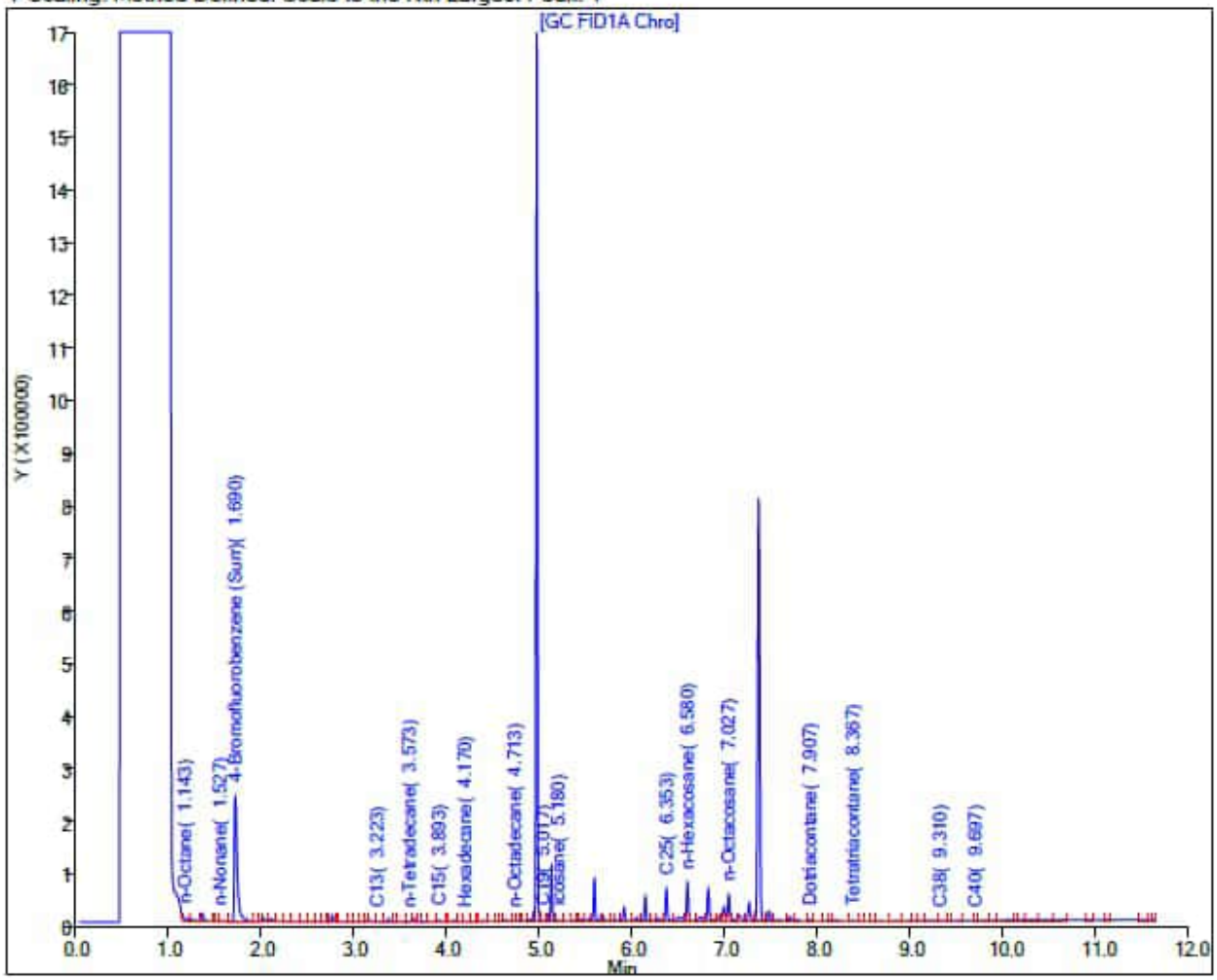
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:37:09 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A036.D				
Injection Date:	26-Oct-2022 01:14:46	Instrument ID:	TAC129		
Lims ID:	580-119014-N-9-A	Lab Sample ID:	580-119014-9		
Client ID:	RHMW19-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2210WK4 Sample Date: 10/24/2022

Lab: Eurofins Seattle

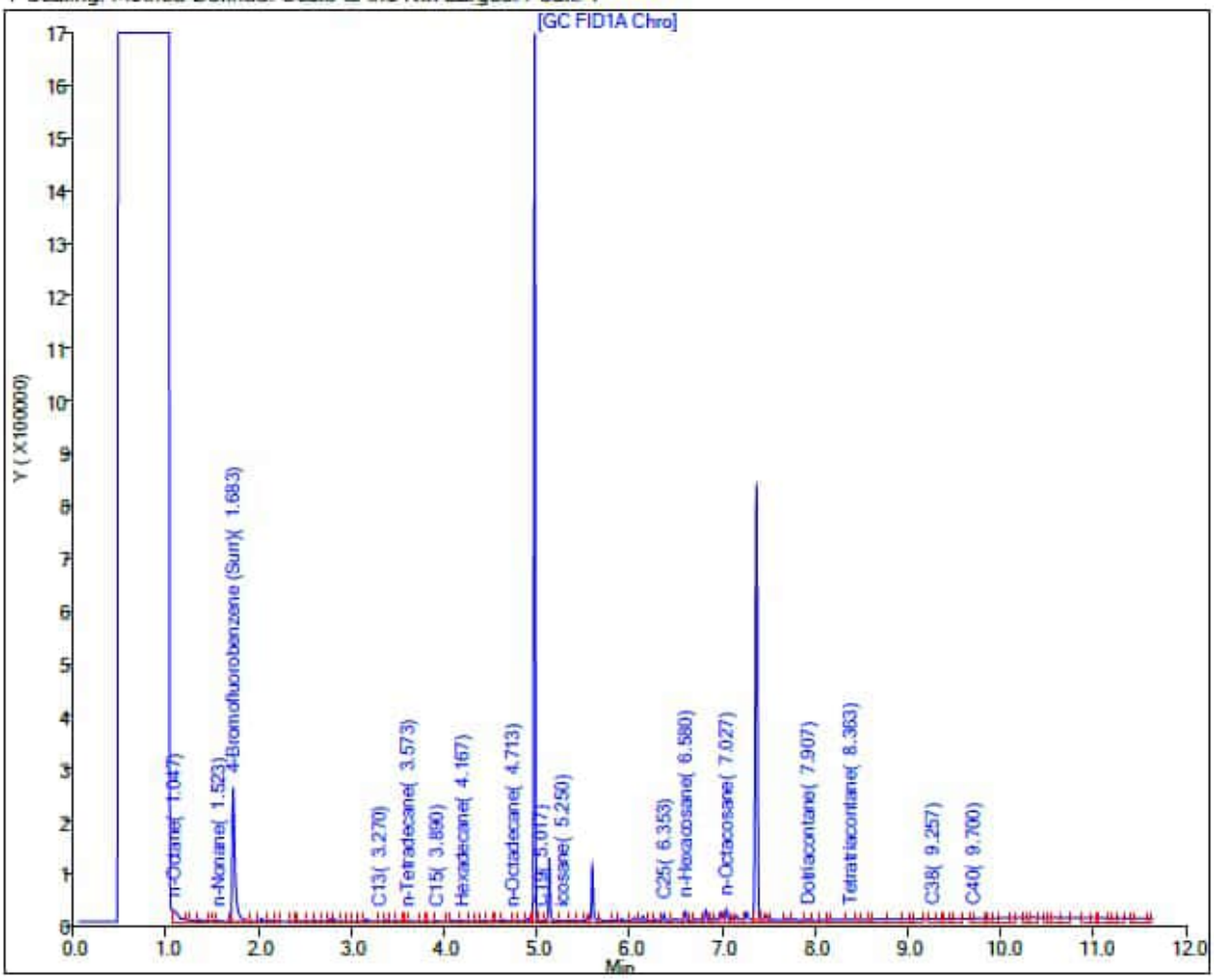
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 31-Oct-2022 14:51:18 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A054.D				
Injection Date:	29-Oct-2022 03:41:15	Instrument ID:	TAC129		
Lims ID:	580-119162-O-18-A	Lab Sample ID:	580-119162-18		
Client ID:	RHMW19-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN02B-2210WK4 Sample Date: 10/26/2022

Lab: Eurofins Seattle

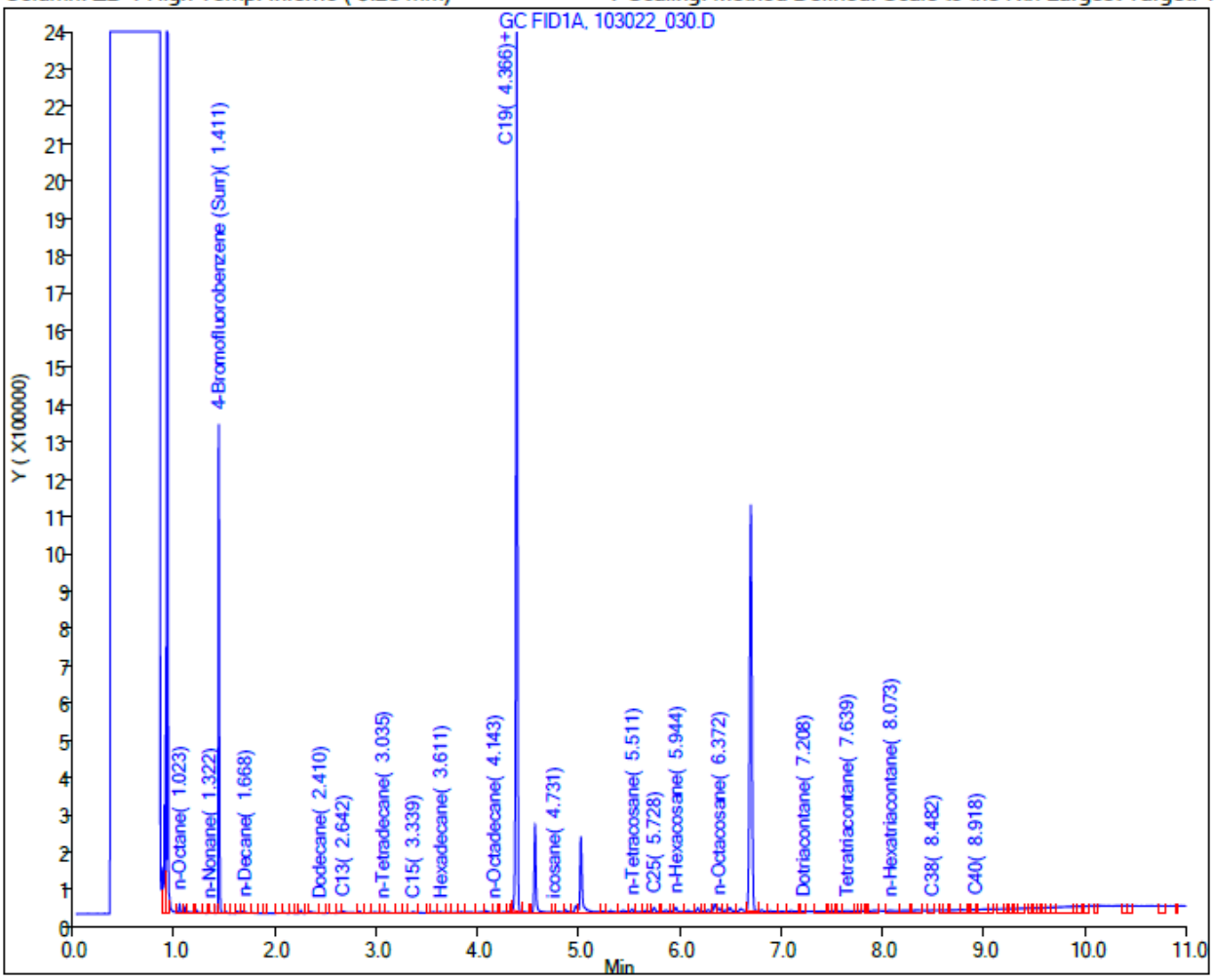
Results (ug/L): **TPH-d (C10 to C24) <96 U** **TPH-o (C24 to C40) <290 U**

Report Date: 01-Nov-2022 13:48:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_030.D		
Injection Date:	01-Nov-2022 02:51:30	Instrument ID:	TAC020
Lims ID:	580-119342-N-3-A	Lab Sample ID:	580-119342-3
Client ID:	RHMW19-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	29 Worklist Smp#: 79
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2210WK5 Sample Date: 10/31/2022

Lab: Eurofins Seattle

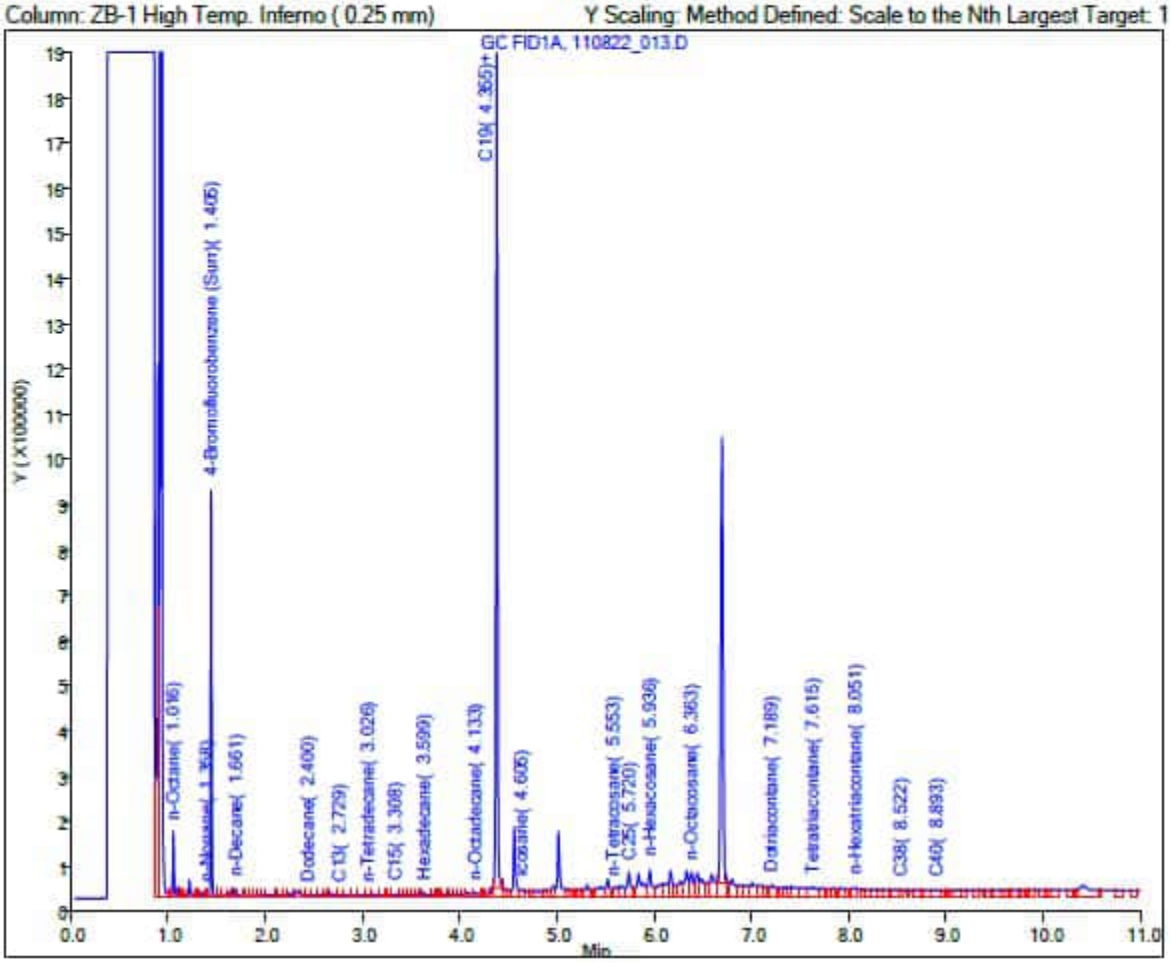
Results (ug/L): **TPH-d (C10 to C24) 73 J** **TPH-o (C24 to C40) 170 J**

Report Date: 08-Nov-2022 23:07:11 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_013.D				
Injection Date:	08-Nov-2022 21:32:30	Instrument ID:	TAC020		
Lims ID:	580-119523-N-4-A	Lab Sample ID:	580-119523-4		
Client ID:	RHMW19-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



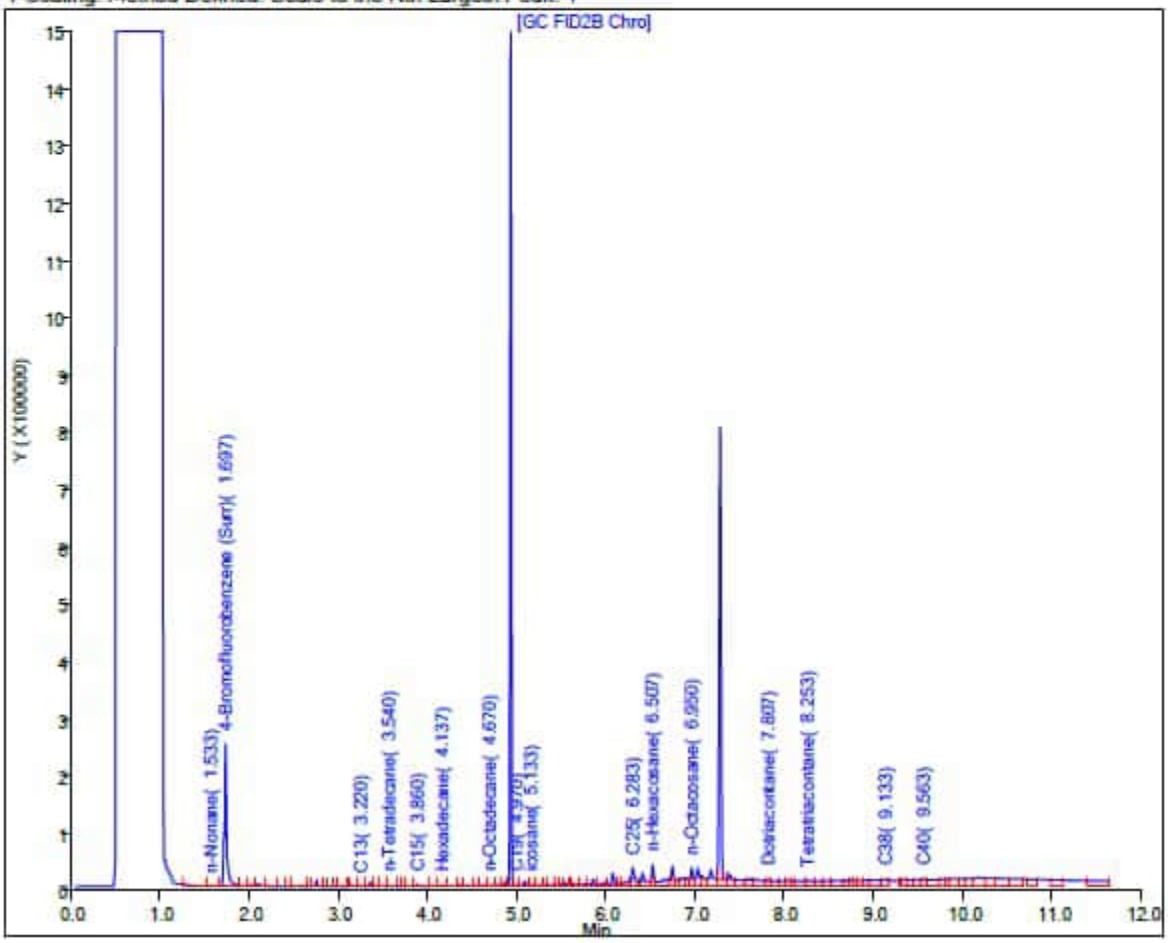
Results (ug/L): **TPH-d SGC (C10 to C24) <81 U** **TPH-o SGC (C24 to C40) <240 U**

Report Date: 11-Nov-2022 19:26:56 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A013.D		
Injection Date:	11-Nov-2022 18:13:56	Instrument ID:	TAC129_R
Lims ID:	580-119523-N-4-B	Lab Sample ID:	580-119523-4
Client ID:	RHMW19-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN02B-2210WK5 Sample Date: 11/2/2022

Lab: Eurofins Seattle

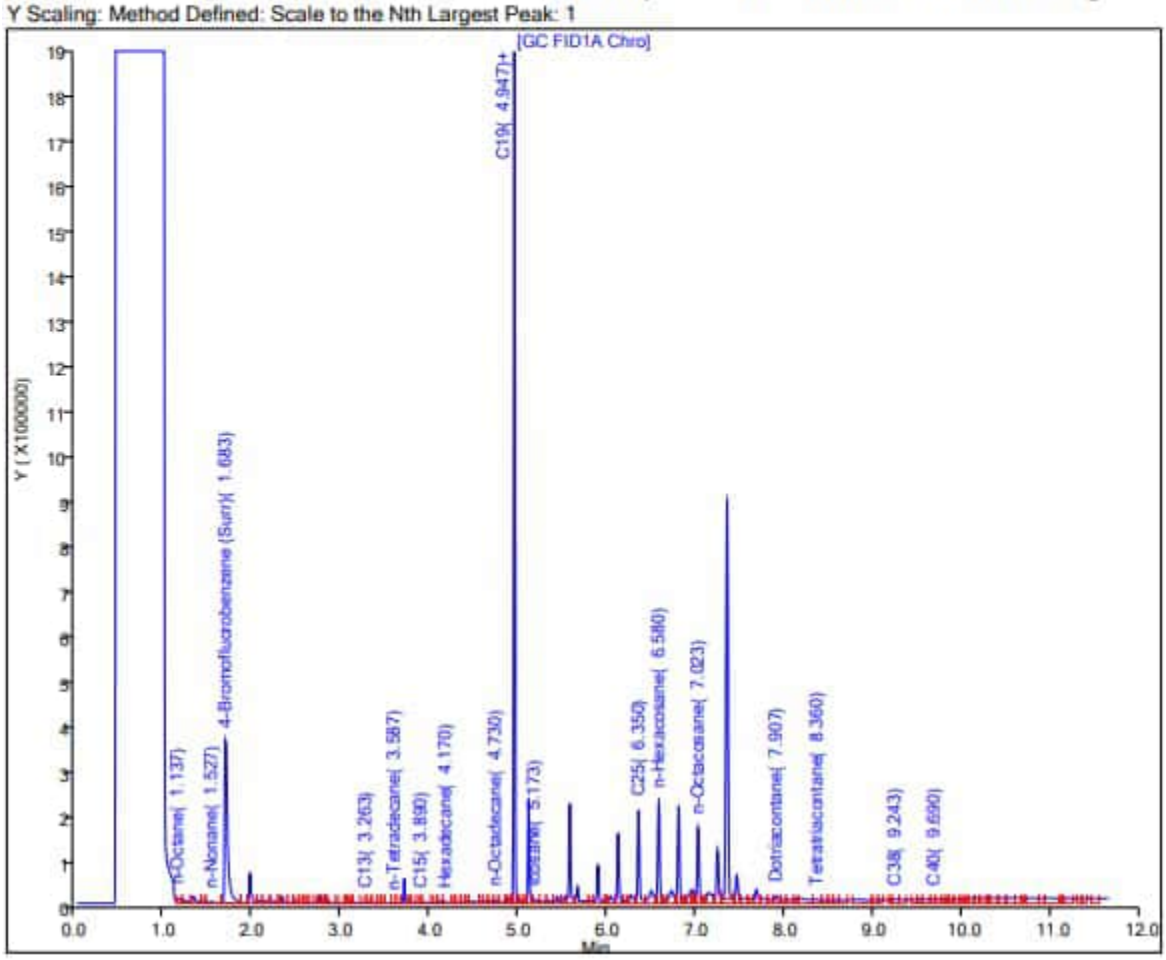
Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 10-Nov-2022 20:58:09 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221110-85722.b\1110a22A010.D				
Injection Date:	10-Nov-2022 19:48:15	Instrument ID:	TAC129		
Lims ID:	580-119659-E-1-A	Lab Sample ID:	580-119659-1		
Client ID:	RHMW19-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2211WK1 Sample Date: 11/7/2022

Lab: Eurofins Seattle

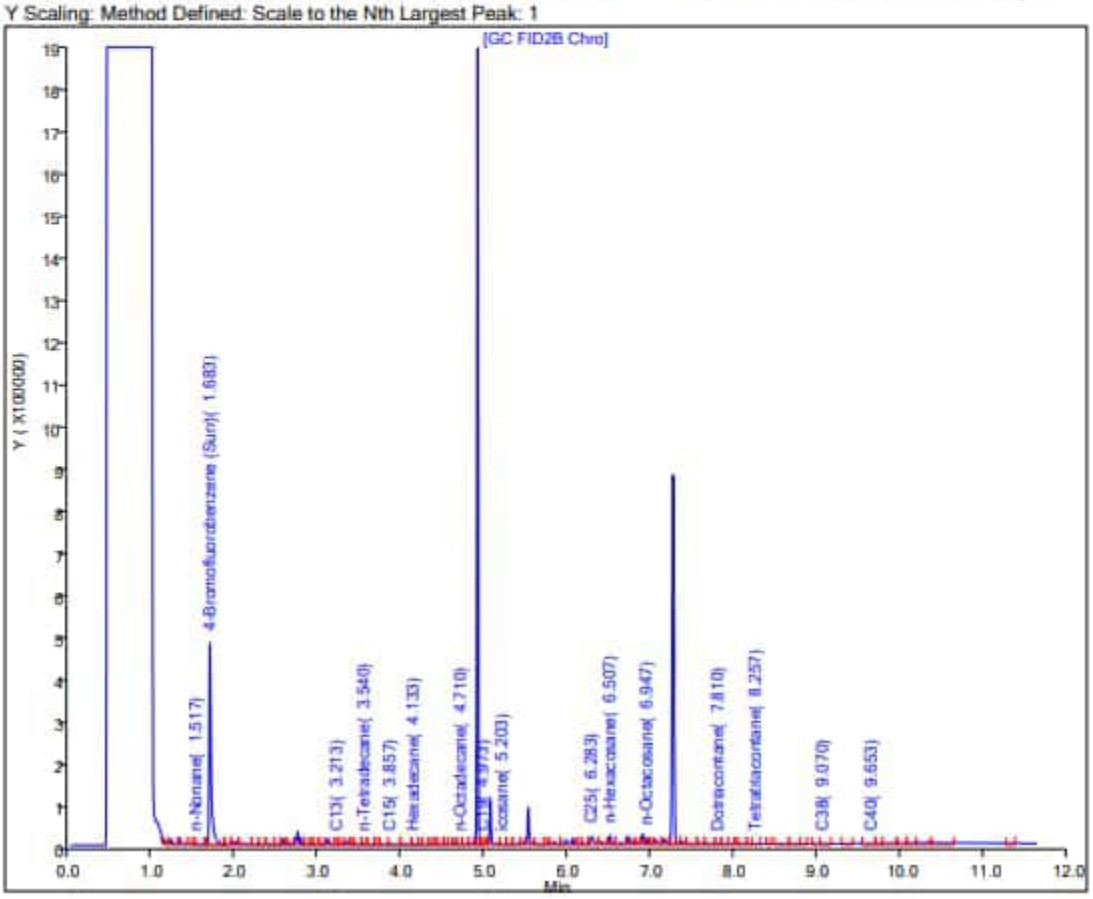
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 14-Nov-2022 13:32:52 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A047.D		
Injection Date:	12-Nov-2022 06:32:52	Instrument ID:	TAC129_R
Lims ID:	580-119804-O-20-A	Lab Sample ID:	580-119804-20
Client ID:	RHMW19-WGN01B-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2211WK2 Sample Date: 11/14/2022

Lab: Eurofins Seattle

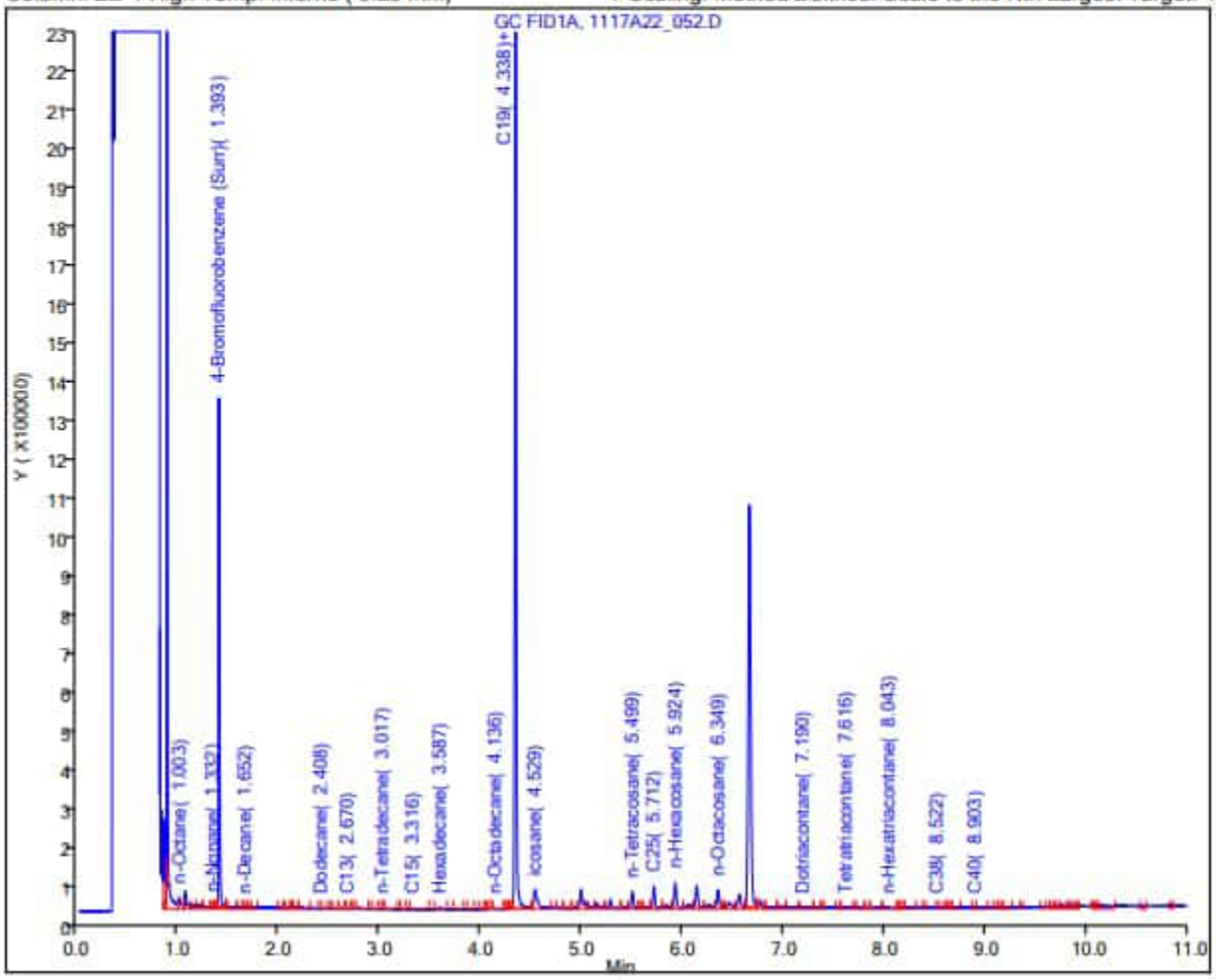
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 20:35:06 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_052.D		
Injection Date:	18-Nov-2022 12:44:30	Instrument ID:	TAC020
Lims ID:	580-120090-N-1-A	Lab Sample ID:	580-120090-1
Client ID:	RHMW19-WGN01B-2211WK2		
Operator ID:	DH/CC	ALS Bottle#:	51 Worklist Smp#: 54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN01B-2211WK3 Sample Date: 11/19/2022

Lab: Eurofins Seattle

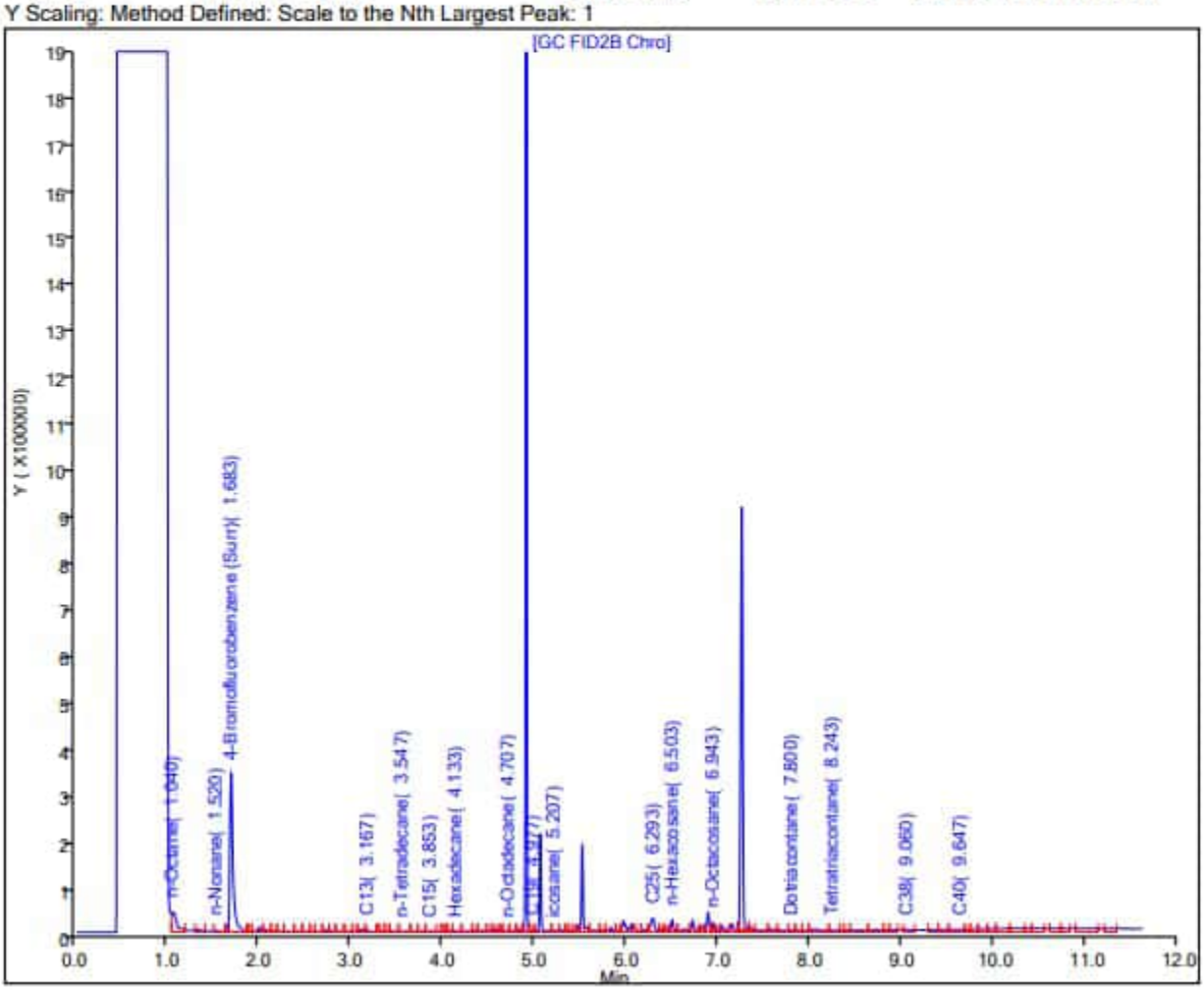
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 29-Nov-2022 13:23:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A023.D				
Injection Date:	28-Nov-2022 19:36:18	Instrument ID:	TAC129_R		
Lims ID:	580-120311-O-11-A	Lab Sample ID:	580-120311-11		
Client ID:	RHMW19-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW19** Sample ID: RHMW19-WGN02B-2211WK3 Sample Date: 11/21/2022

Lab: Eurofins Seattle

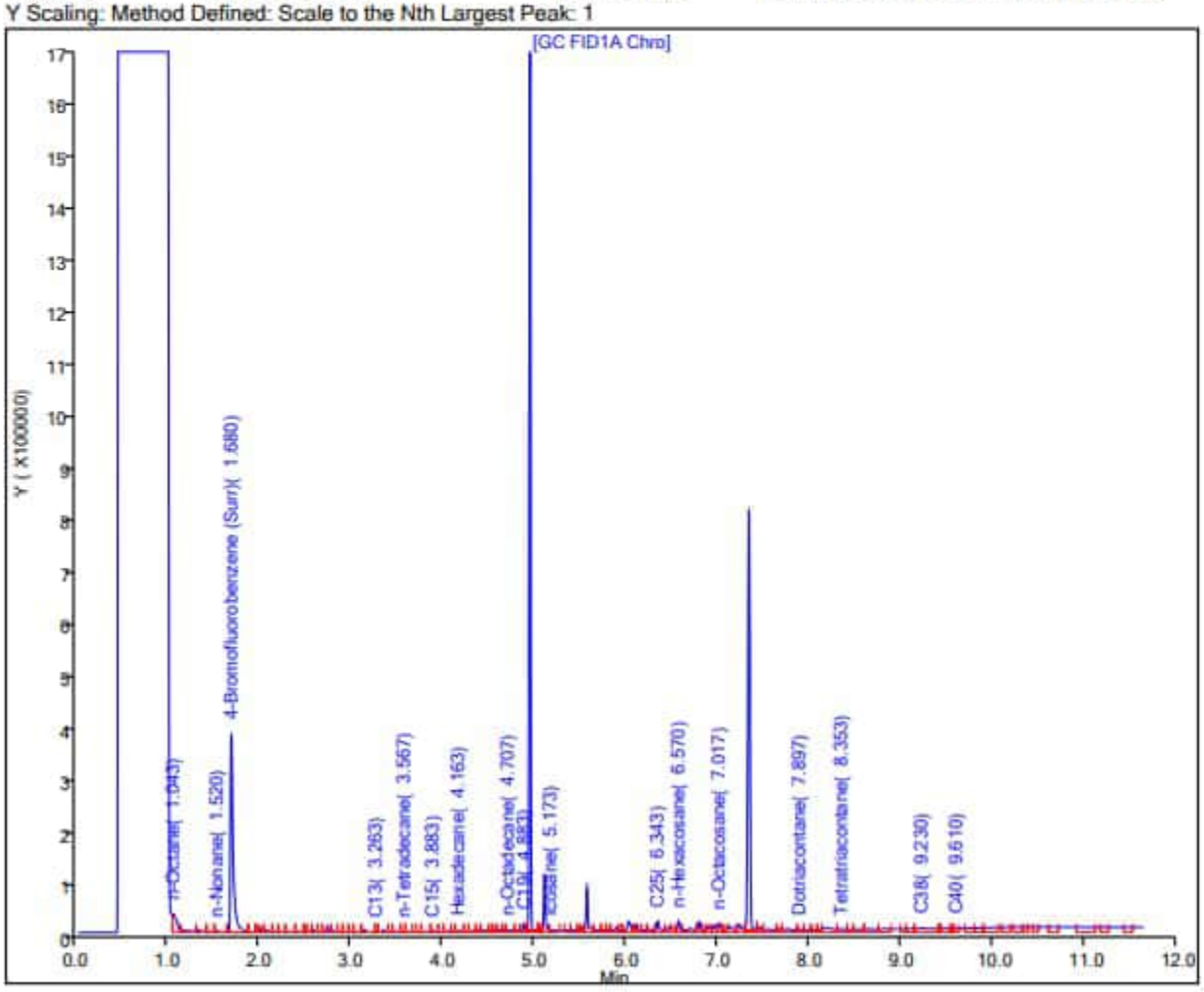
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:31 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A026.D				
Injection Date:	29-Nov-2022 21:49:24	Instrument ID:	TAC129		
Lims ID:	580-120344-O-6-A	Lab Sample ID:	580-120344-6		
Client ID:	RHMW19-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2208WK3 Sample Date: 8/18/2022

Lab: Eurofins Seattle

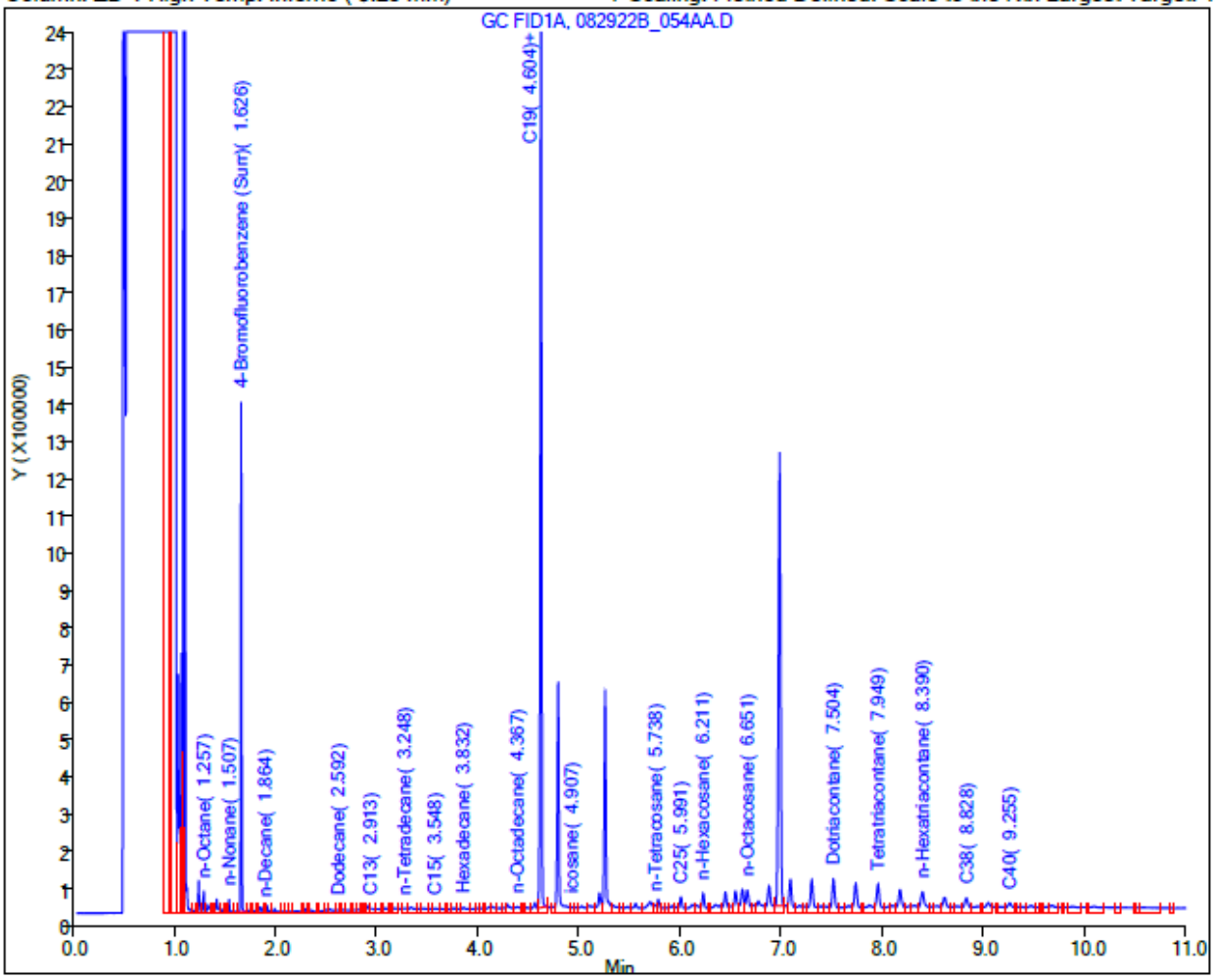
Results (ug/L): **TPH-d (C10 to C24) 110** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Aug-2022 13:41:35 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_054AA.D				
Injection Date:	30-Aug-2022 13:16:30	Instrument ID:	TAC020		
Lims ID:	580-117162-D-3-C	Lab Sample ID:	580-117162-3		
Client ID:	ADIT3-SUMP-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	53	Worklist Smp#:	101
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



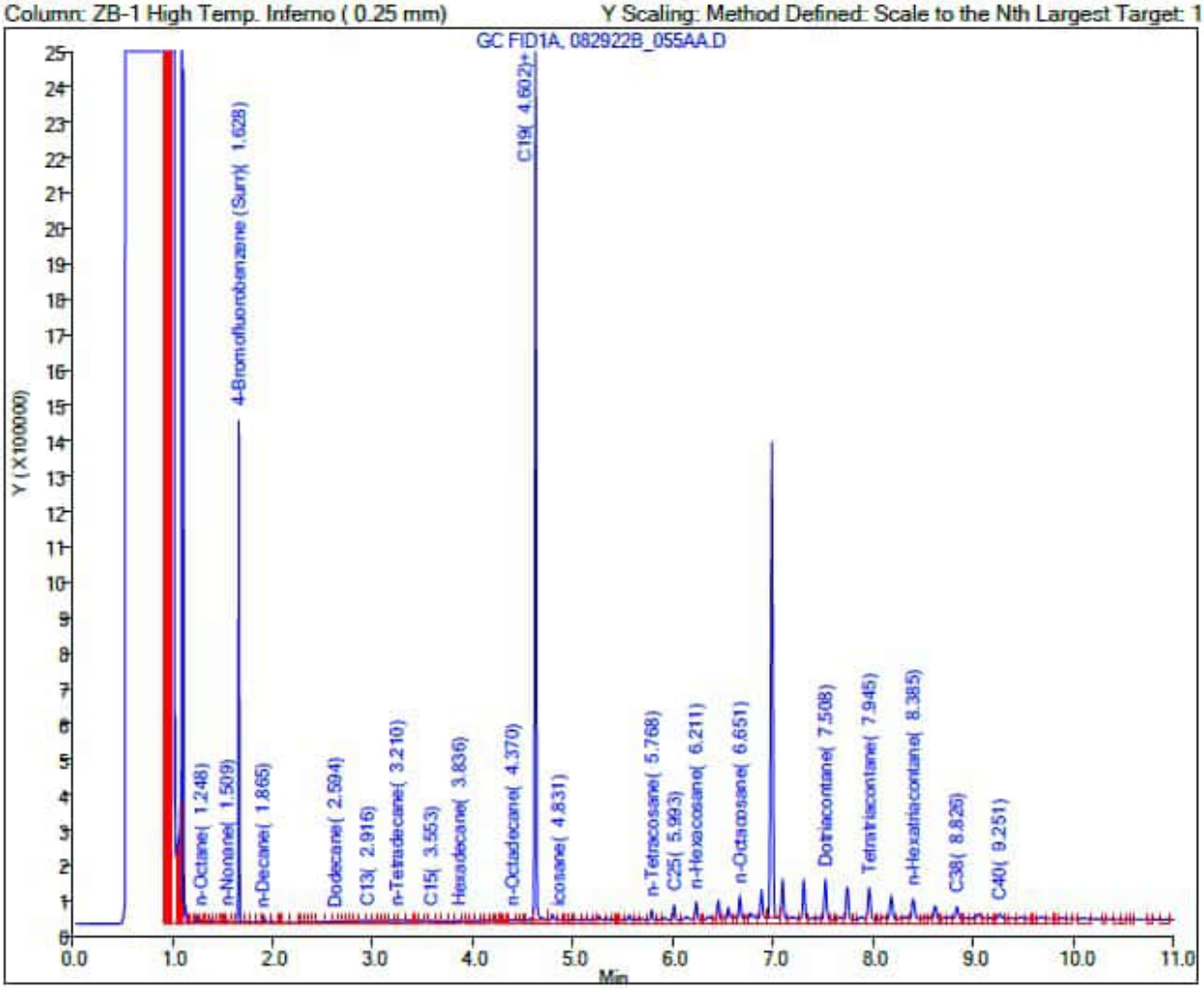
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 30-Aug-2022 14:45:40 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220829-84555.b\082922B_055AA.D				
Injection Date:	30-Aug-2022 13:36:30	Instrument ID:	TAC020		
Lims ID:	580-117162-D-3-B	Lab Sample ID:	580-117162-3		
Client ID:	ADIT3-SUMP-WGN01B-2208WK3				
Operator ID:	DH	ALS Bottle#:	54	Worklist Smp#:	102
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2208WK4 Sample Date: 8/25/2022

Lab: Eurofins Seattle

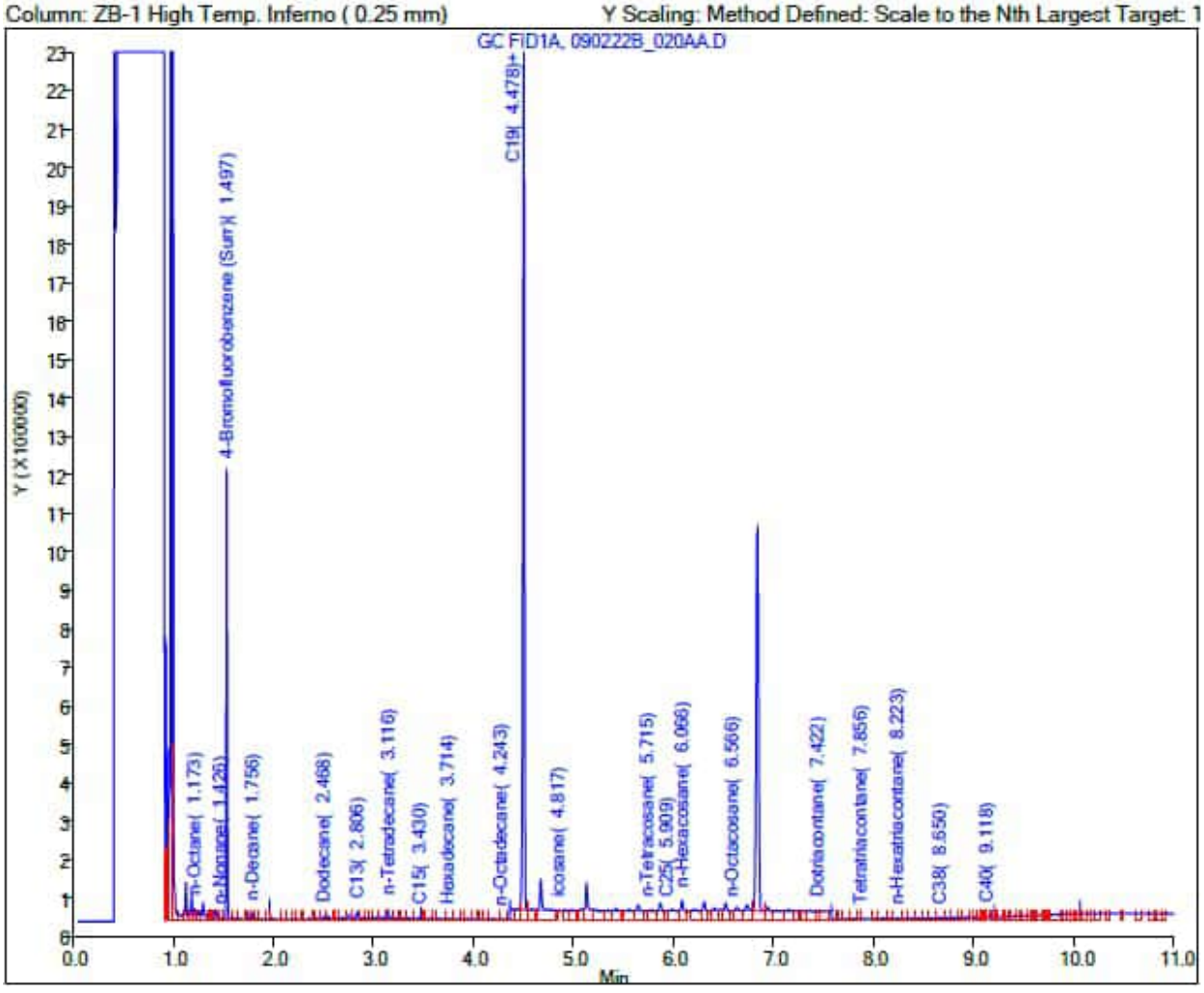
Results (ug/L): **TPH-d (C10 to C24) 110 J** **TPH-o (C24 to C40) <310 UJ**

Report Date: 06-Sep-2022 14:18:02 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_020AA.D				
Injection Date:	03-Sep-2022 04:41:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-6-A	Lab Sample ID:	580-117347-6		
Client ID:	ADIT3-SUMP-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 UJ** **TPH-o SGC (C24 to C40) <310 UJ**

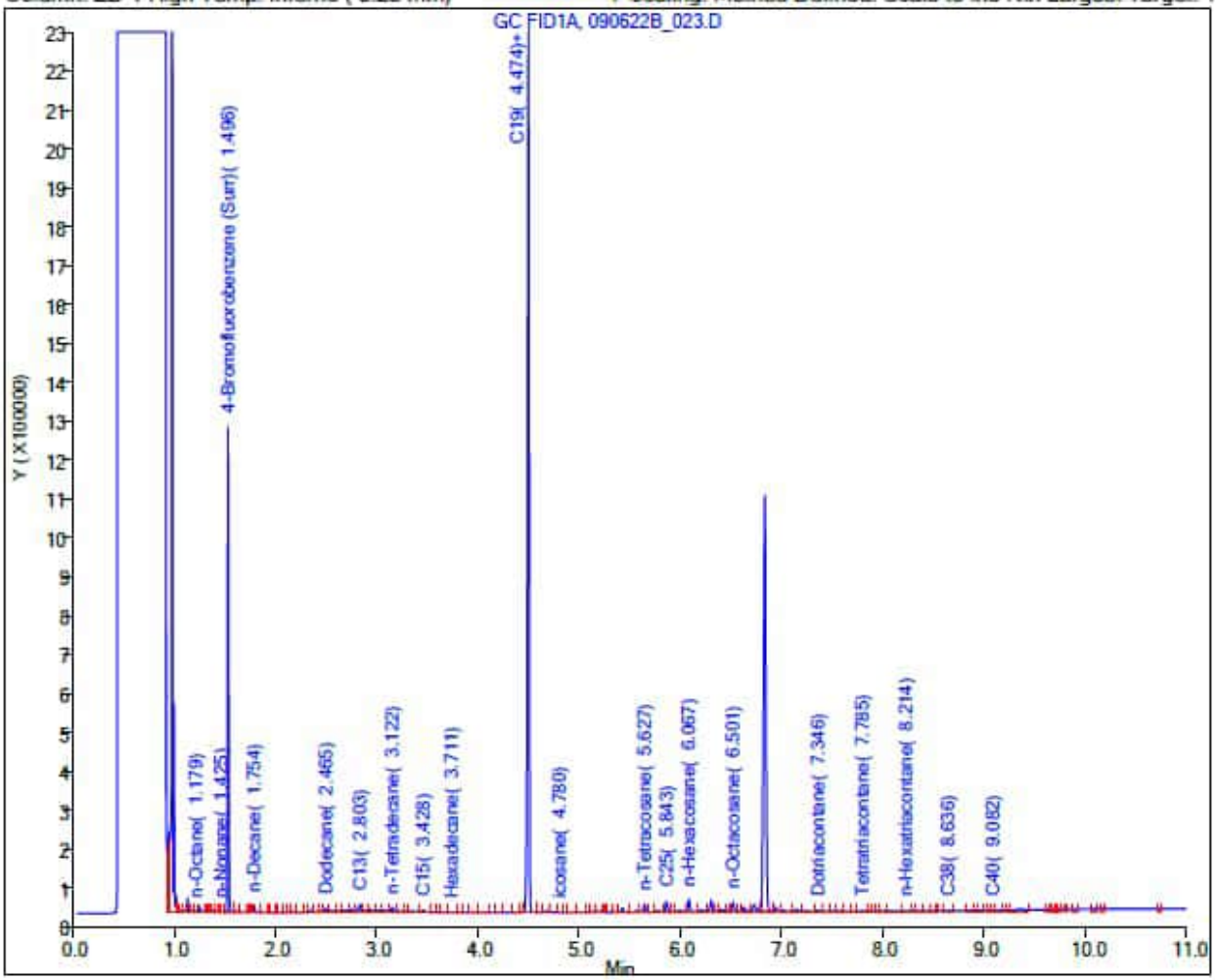
Report Date: 07-Sep-2022 13:40:25 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220906-84685.b\090622B_023.D

Injection Date:	07-Sep-2022 05:27:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-6-B	Lab Sample ID:	580-117347-6		
Client ID:	ADIT3-SUMP-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	5
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2208WK5 Sample Date: 9/1/2022

Lab: Eurofins Seattle

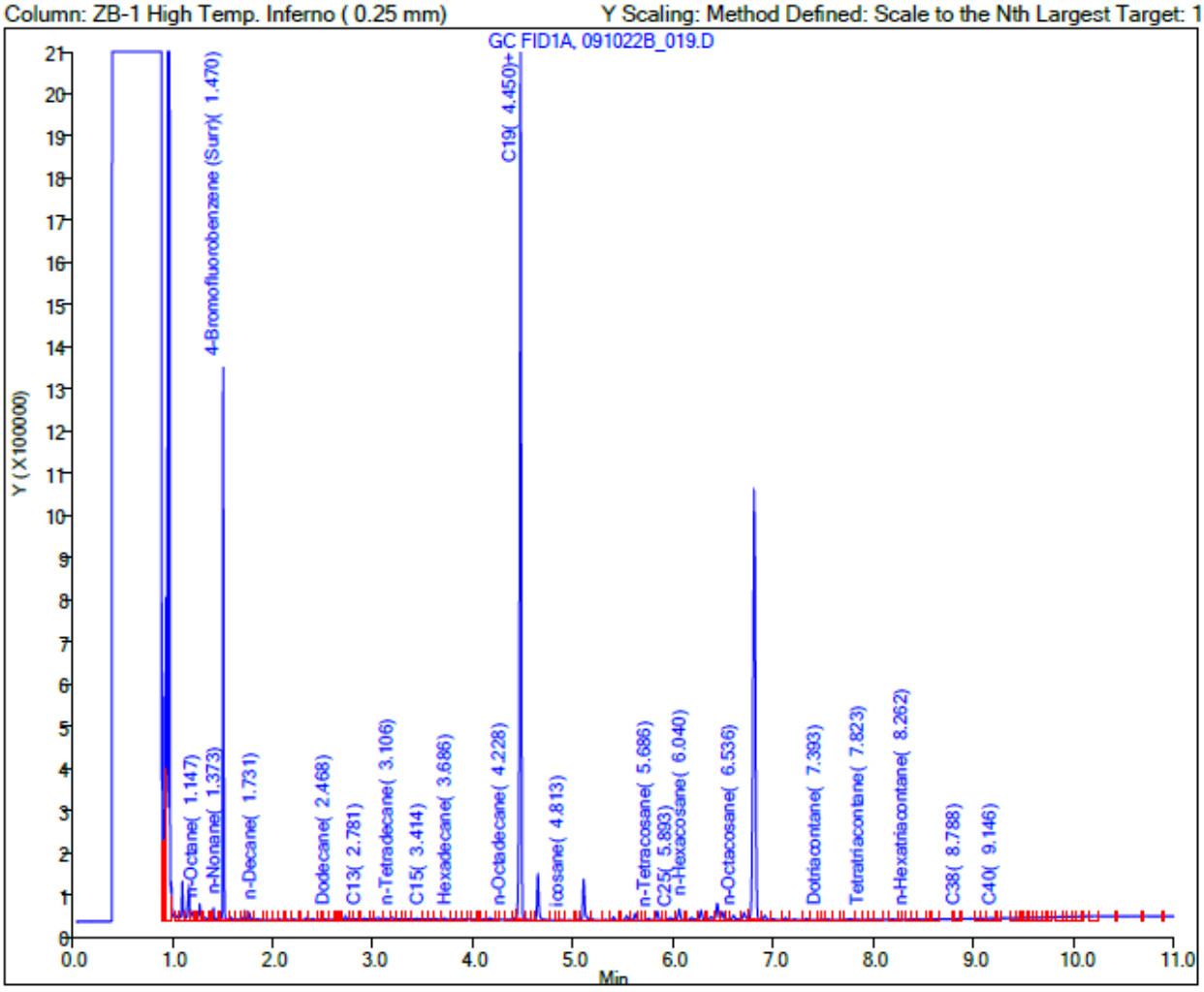
Results (ug/L): **TPH-d (C10 to C24) 100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 12-Sep-2022 13:12:51 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220909-84751.b\091022B_019.D				
Injection Date:	10-Sep-2022 04:09:30	Instrument ID:	TAC020		
Lims ID:	580-117607-C-5-A	Lab Sample ID:	580-117607-5		
Client ID:	ADIT3-SUMP-WGN01B-2208WK5				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2209WK1 Sample Date: 9/8/2022

Lab: Eurofins Seattle

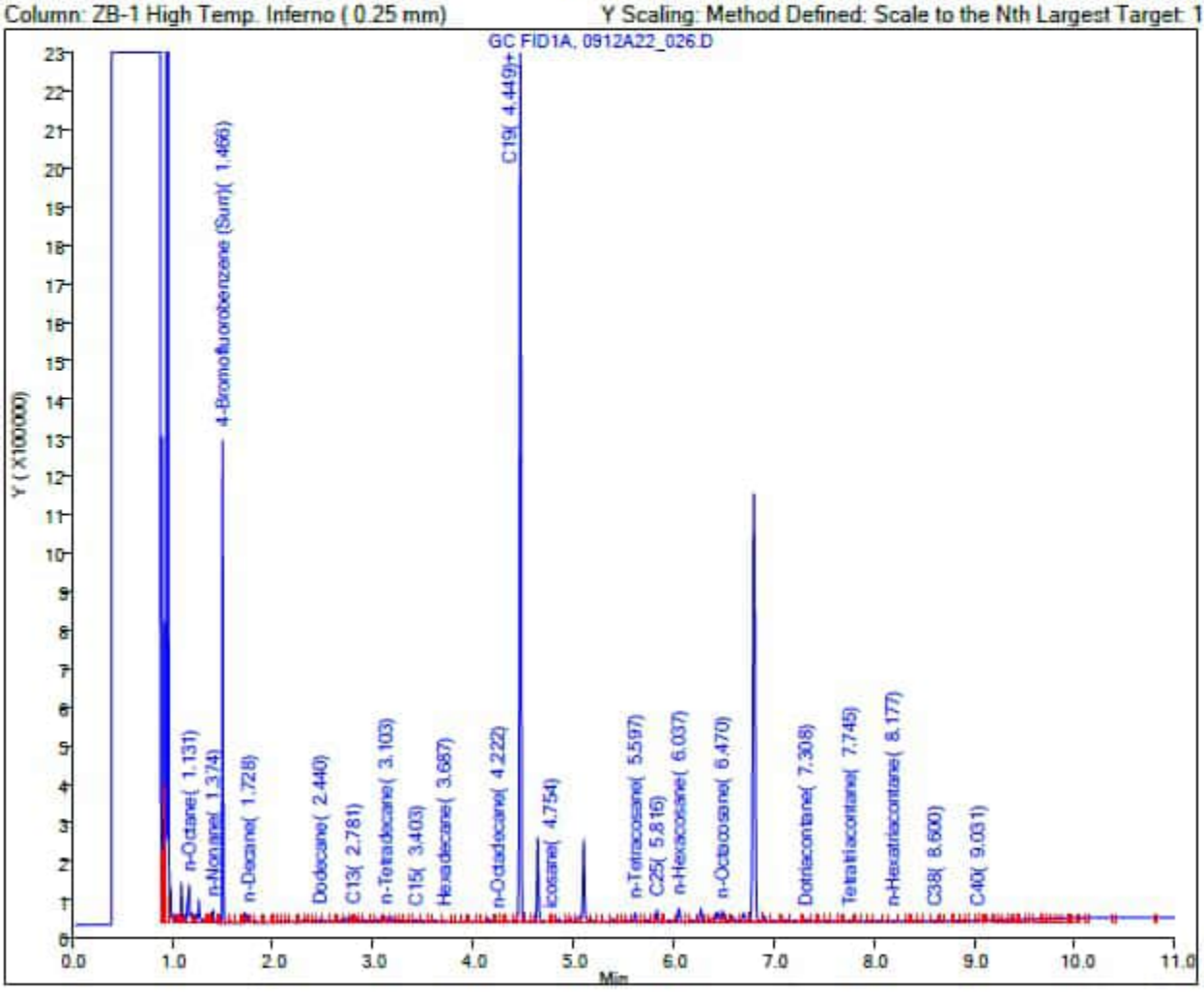
Results (ug/L): **TPH-d (C10 to C24) 72 J** **TPH-o (C24 to C40) <300 U**

Report Date: 13-Sep-2022 12:02:40 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_026.D		
Injection Date:	13-Sep-2022 01:42:30	Instrument ID:	TAC020
Lims ID:	580-117706-F-1-A	Lab Sample ID:	580-117706-1
Client ID:	ADIT3-SUMP-WGN01B-2209WK1		
Operator ID:	DH	ALS Bottle#:	26 Worklist Smp#: 28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



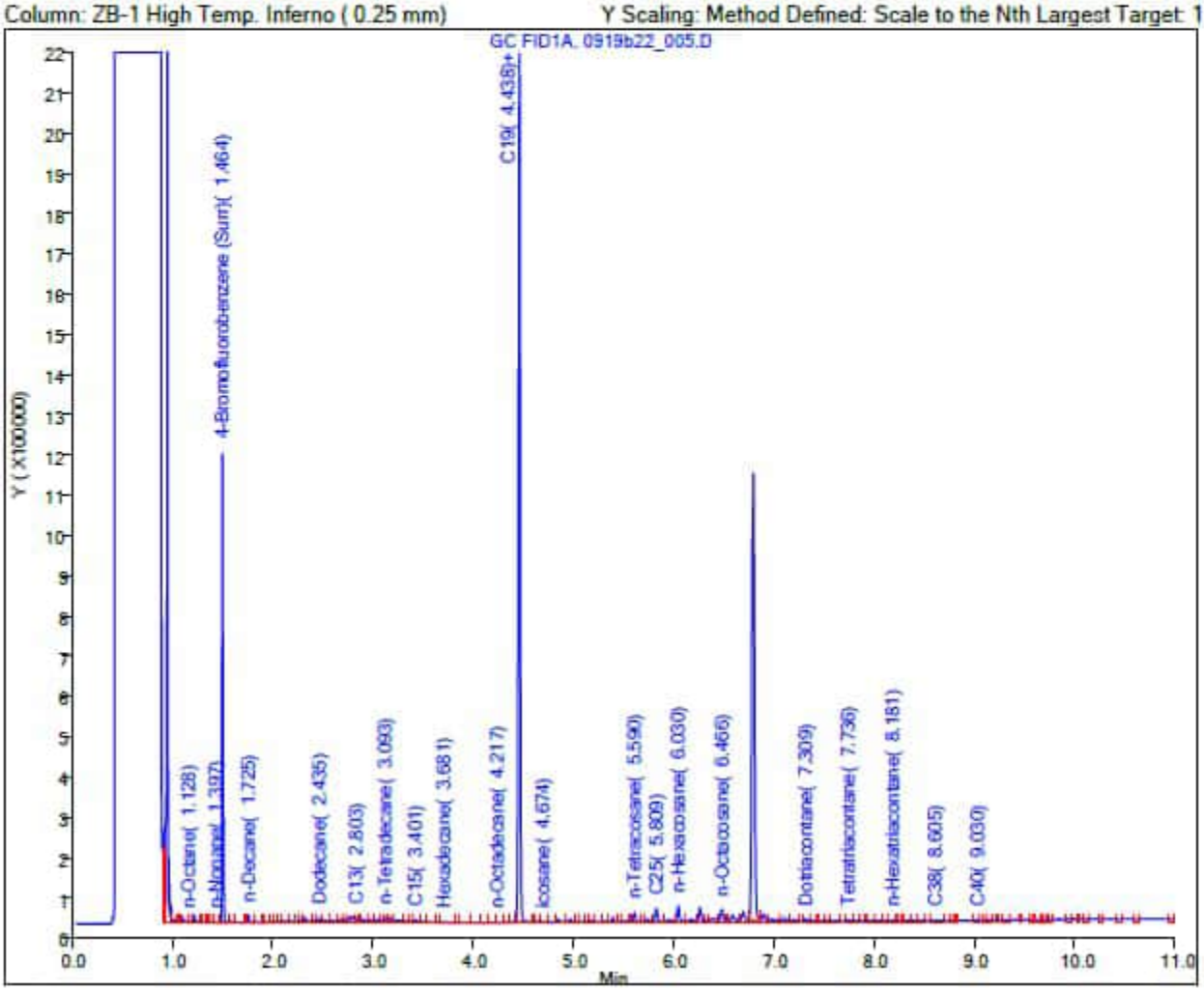
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 20-Sep-2022 11:19:37 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_005.D				
Injection Date:	19-Sep-2022 17:20:30	Instrument ID:	TAC020		
Lims ID:	580-117706-F-1-B	Lab Sample ID:	580-117706-1		
Client ID:	ADIT3-SUMP-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2209WK4 Sample Date: 9/29/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

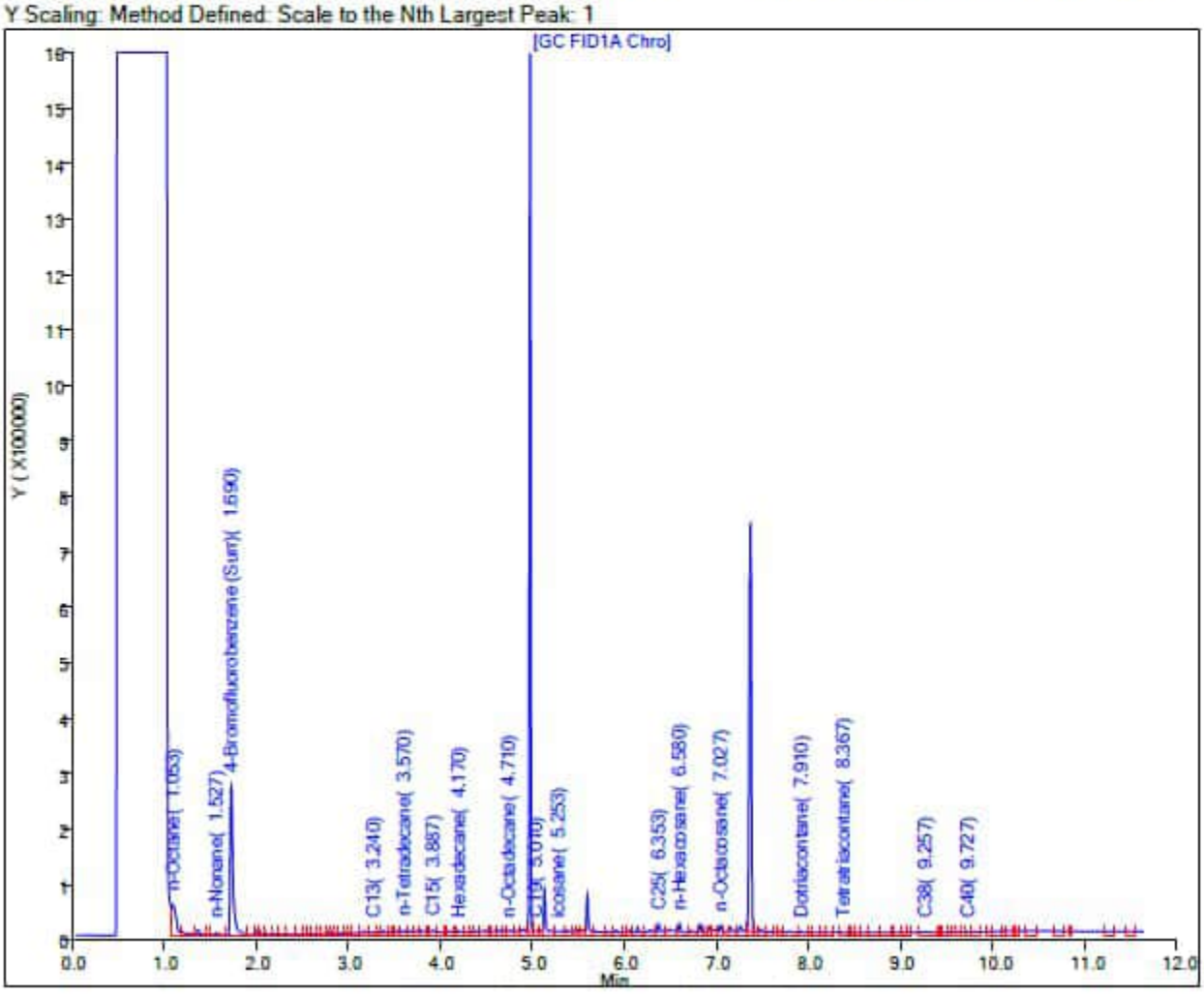
Report Date: 05-Oct-2022 12:40:22 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A048.D

Injection Date:	05-Oct-2022 01:27:56	Instrument ID:	TAC129		
Lims ID:	580-118383-D	Lab Sample ID:	Client 580-405965/39-A		
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2210WK1 Sample Date: 10/5/2022

Lab: Eurofins Seattle

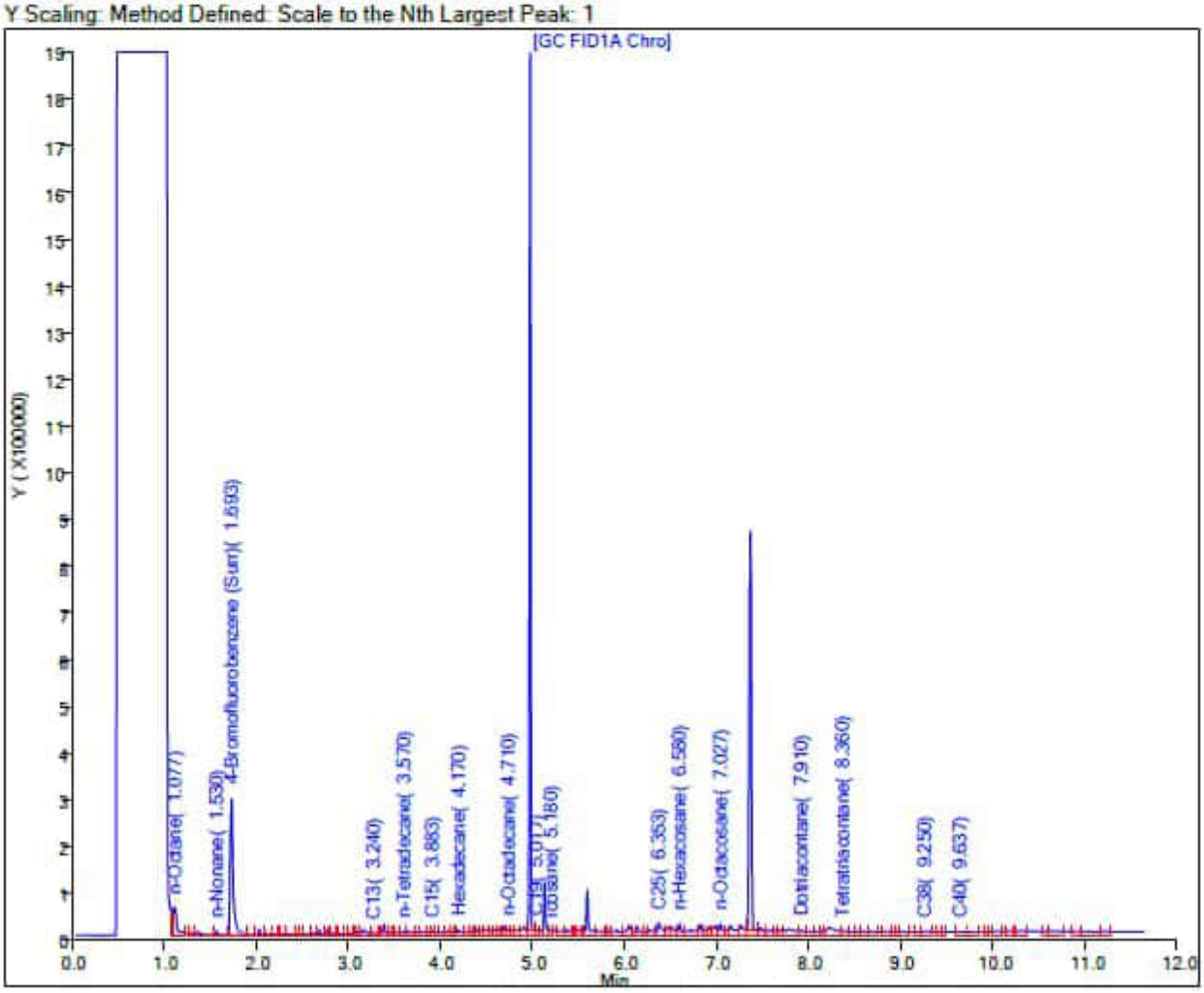
Results (ug/L): **TPH-d (C10 to C24) 80 J** **TPH-o (C24 to C40) <300 U**

Report Date: 11-Oct-2022 13:55:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A026.D				
Injection Date:	10-Oct-2022 20:54:05	Instrument ID:	TAC129		
Lims ID:	580-118648-E-6-A	Lab Sample ID:	580-118648-6		
Client ID:	ADIT3-SUMP-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



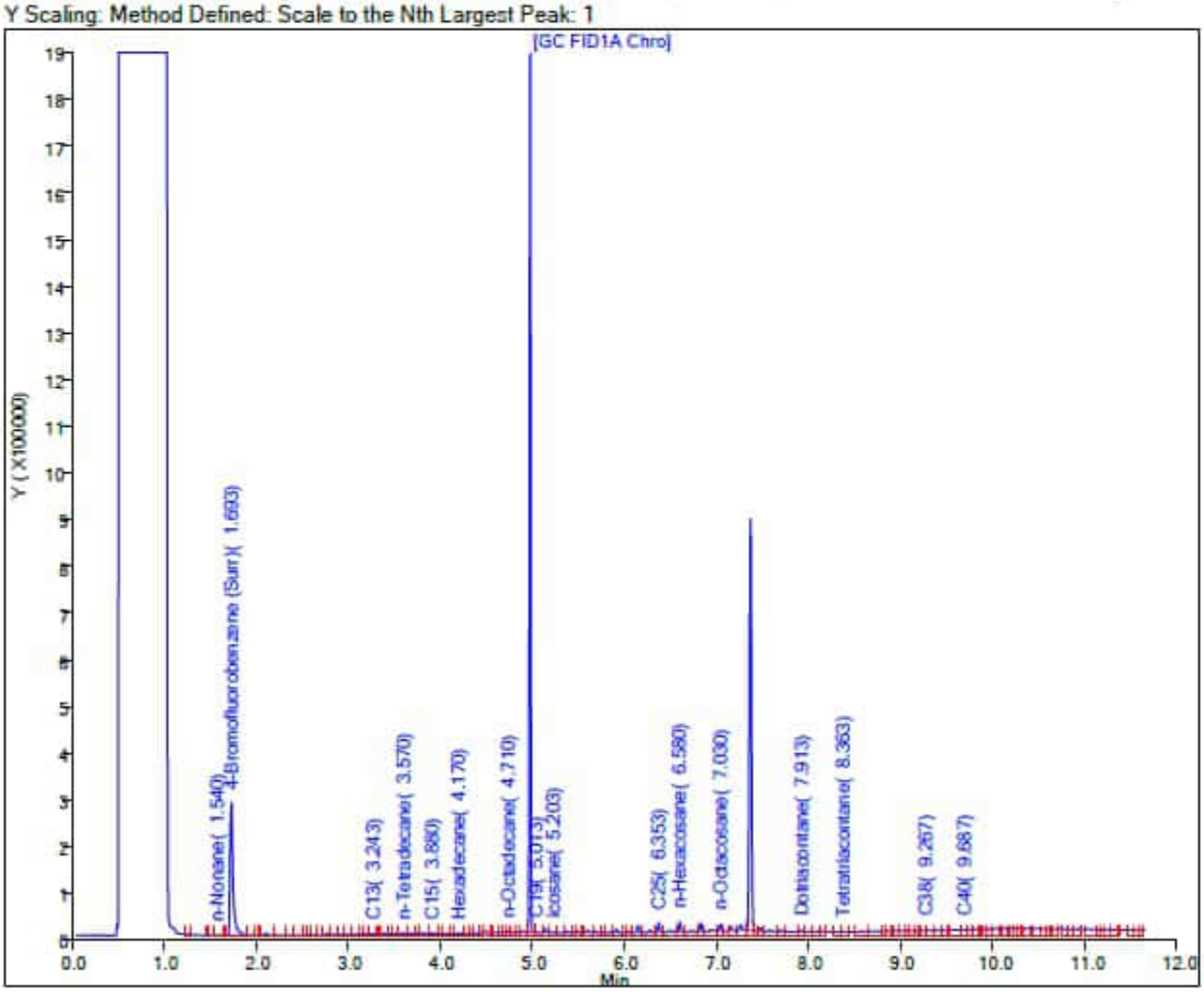
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 12-Oct-2022 13:55:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A014.D		
Injection Date:	11-Oct-2022 19:01:42	Instrument ID:	TAC129
Lims ID:	580-118648-E-6-B	Lab Sample ID:	580-118648-6
Client ID:	ADIT3-SUMP-WGN01B-2210WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2210WK2 Sample Date: 10/16/2022

Lab: Eurofins Seattle

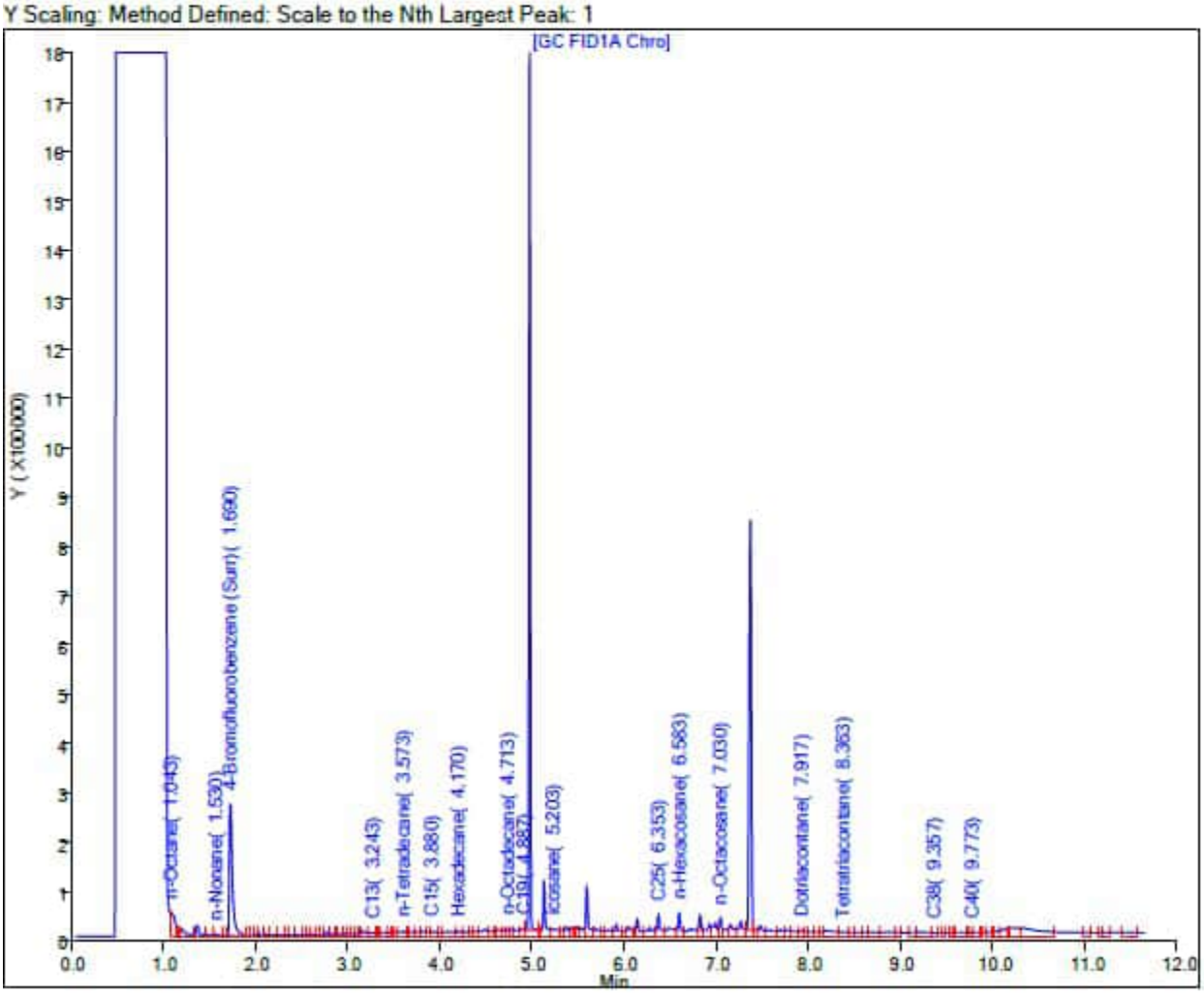
Results (ug/L): **TPH-d (C10 to C24) 96 J** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:38:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A050.D				
Injection Date:	22-Oct-2022 01:07:48	Instrument ID:	TAC129		
Lims ID:	580-118941-N-14-A	Lab Sample ID:	580-118941-14		
Client ID:	ADIT3-SUMP-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



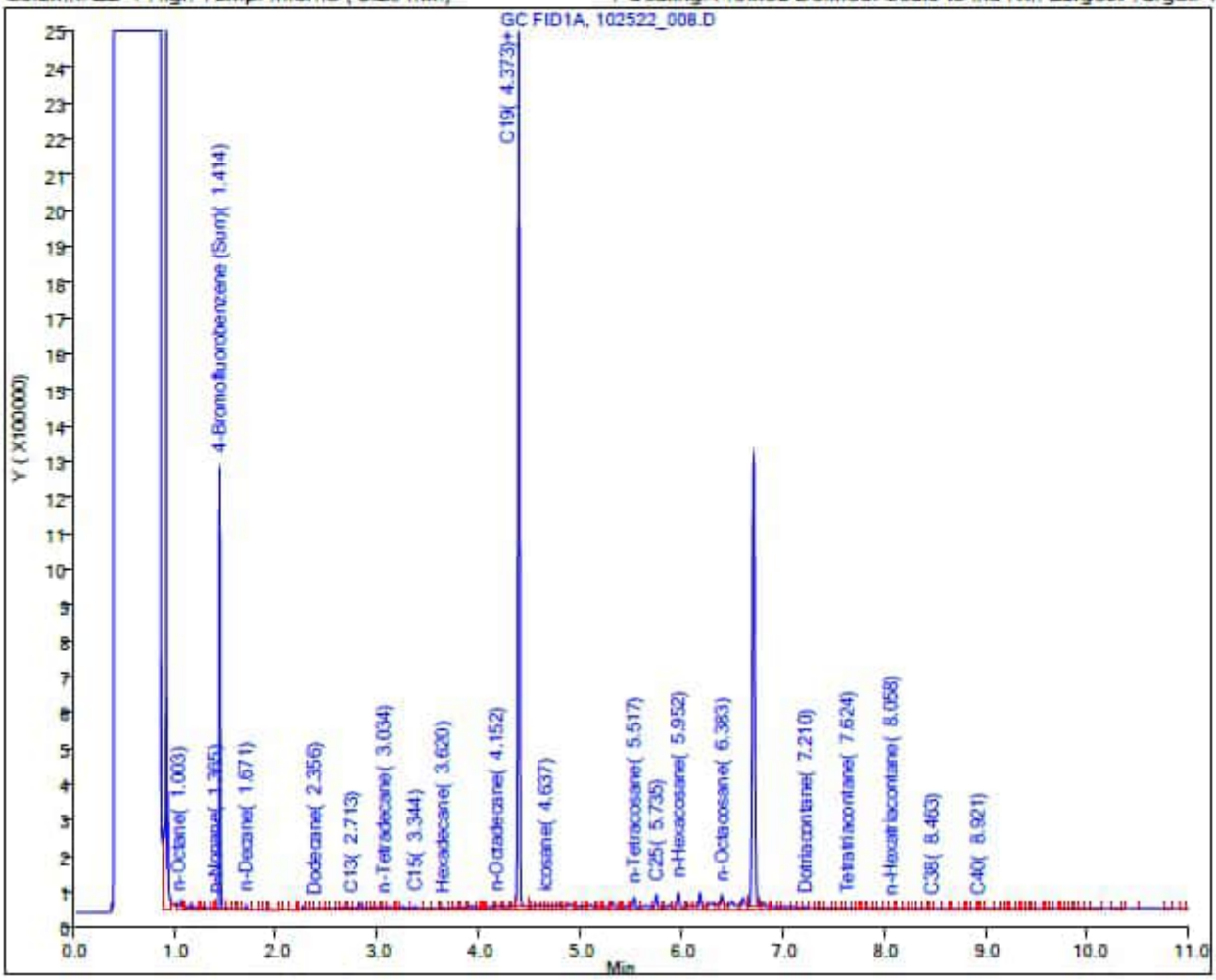
Results (ug/L): **TPH-d SGC (C10 to C24) 98 J** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:50:59 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221025-85465.b\102522_008.D		
Injection Date:	25-Oct-2022 20:09:30	Instrument ID:	TAC020
Lims ID:	580-118941-N-14-B	Lab Sample ID:	580-118941-14
Client ID:	ADIT3-SUMP-WGN01B-2210WK2		
Operator ID:	DH	ALS Bottle#:	7 Worklist Smp#: 37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2210WK3 Sample Date: 10/18/2022

Lab: Eurofins Seattle

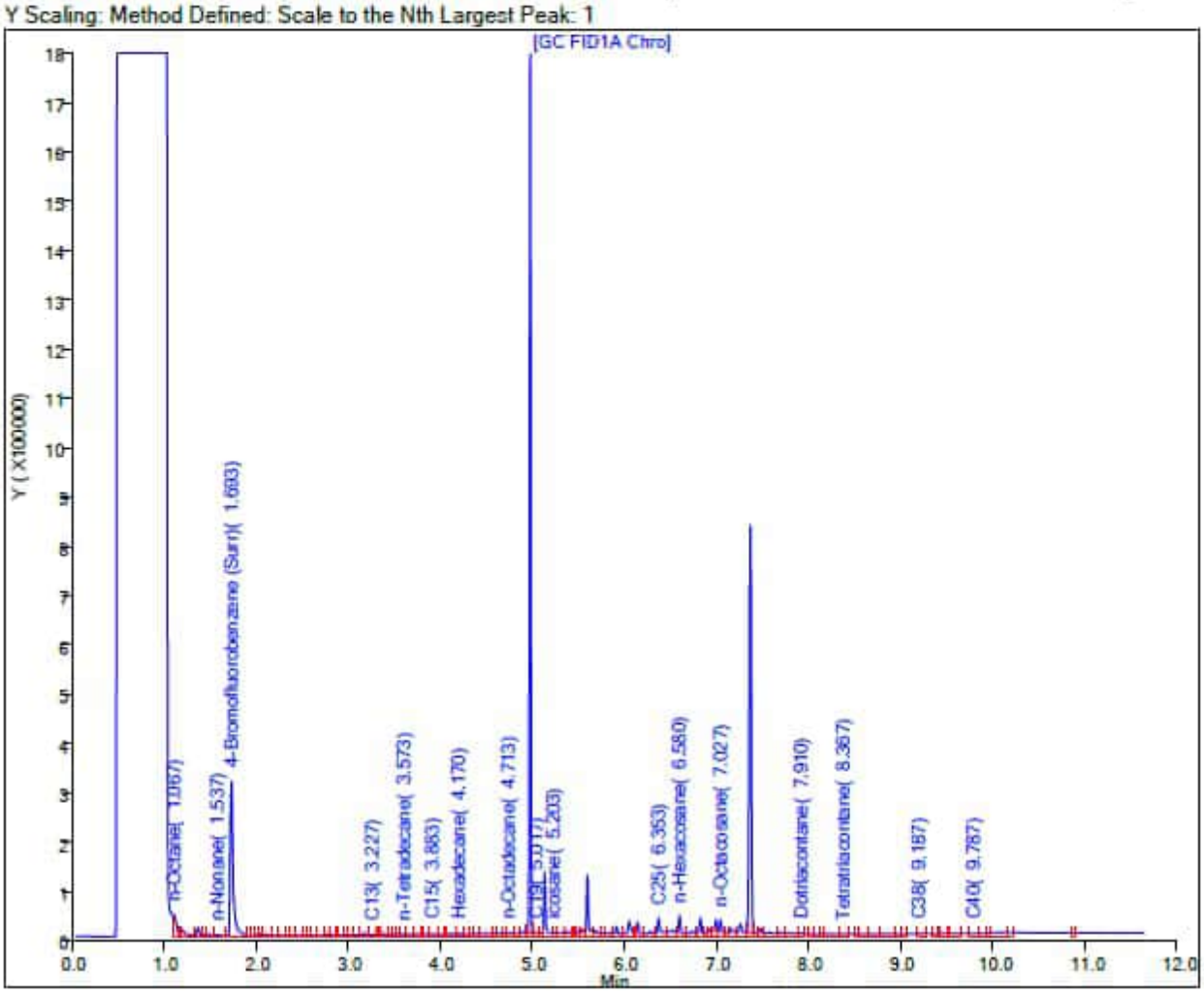
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Oct-2022 12:12:31 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A038.D				
Injection Date:	24-Oct-2022 23:15:22	Instrument ID:	TAC129		
Lims ID:	580-118961-N-8-A	Lab Sample ID:	580-118961-8		
Client ID:	ADIT3-SUMP-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN02B-2210WK3 Sample Date: 10/20/2022

Lab: Eurofins Seattle

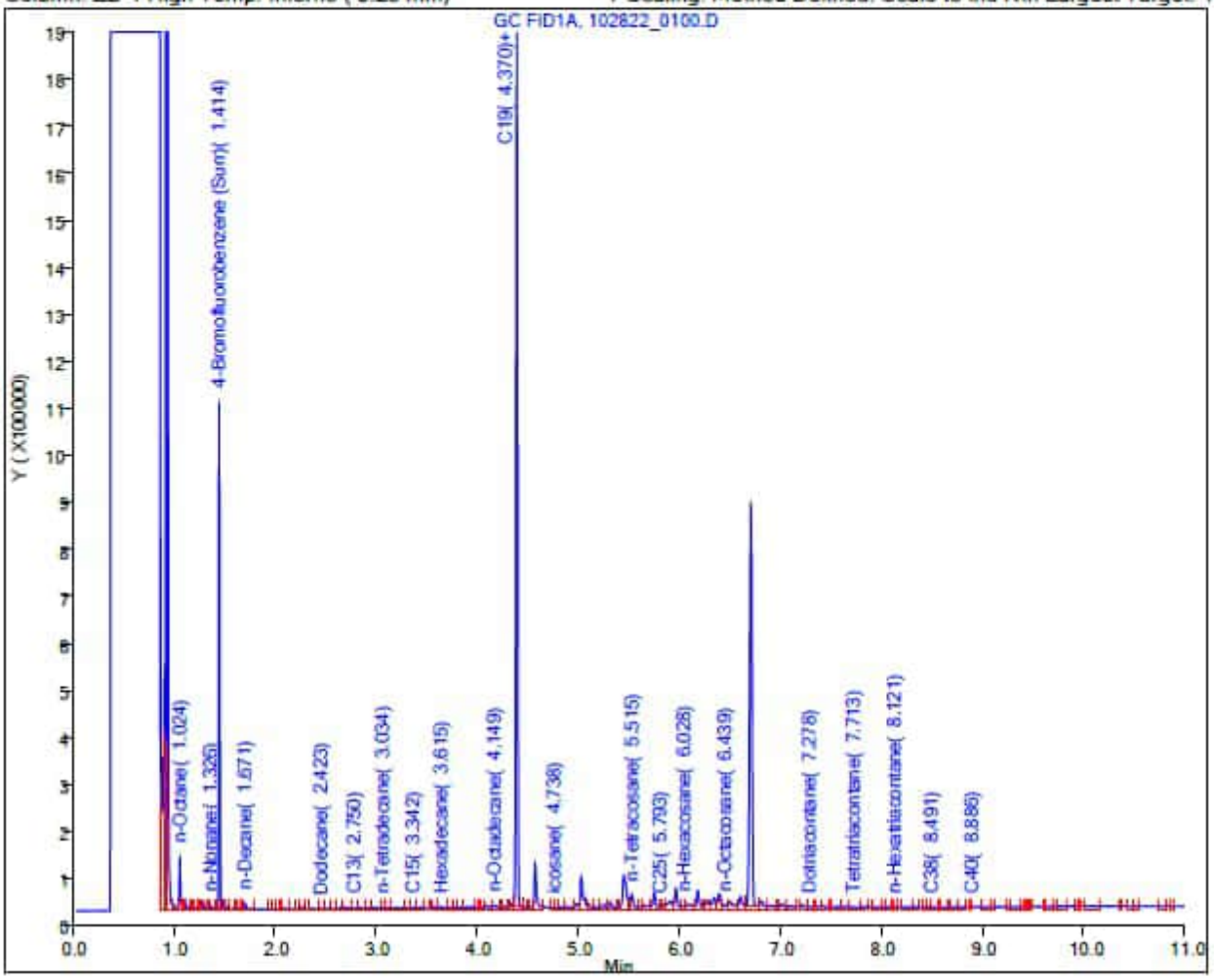
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:51:57 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221028-85528.b\102822_0100.D				
Injection Date:	28-Oct-2022 18:03:30	Instrument ID:	TAC020		
Lims ID:	580-119078-F-17-A	Lab Sample ID:	580-119078-17		
Client ID:	ADIT3-SUMP-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	100	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2210WK4 Sample Date: 10/25/2022

Lab: Eurofins Seattle

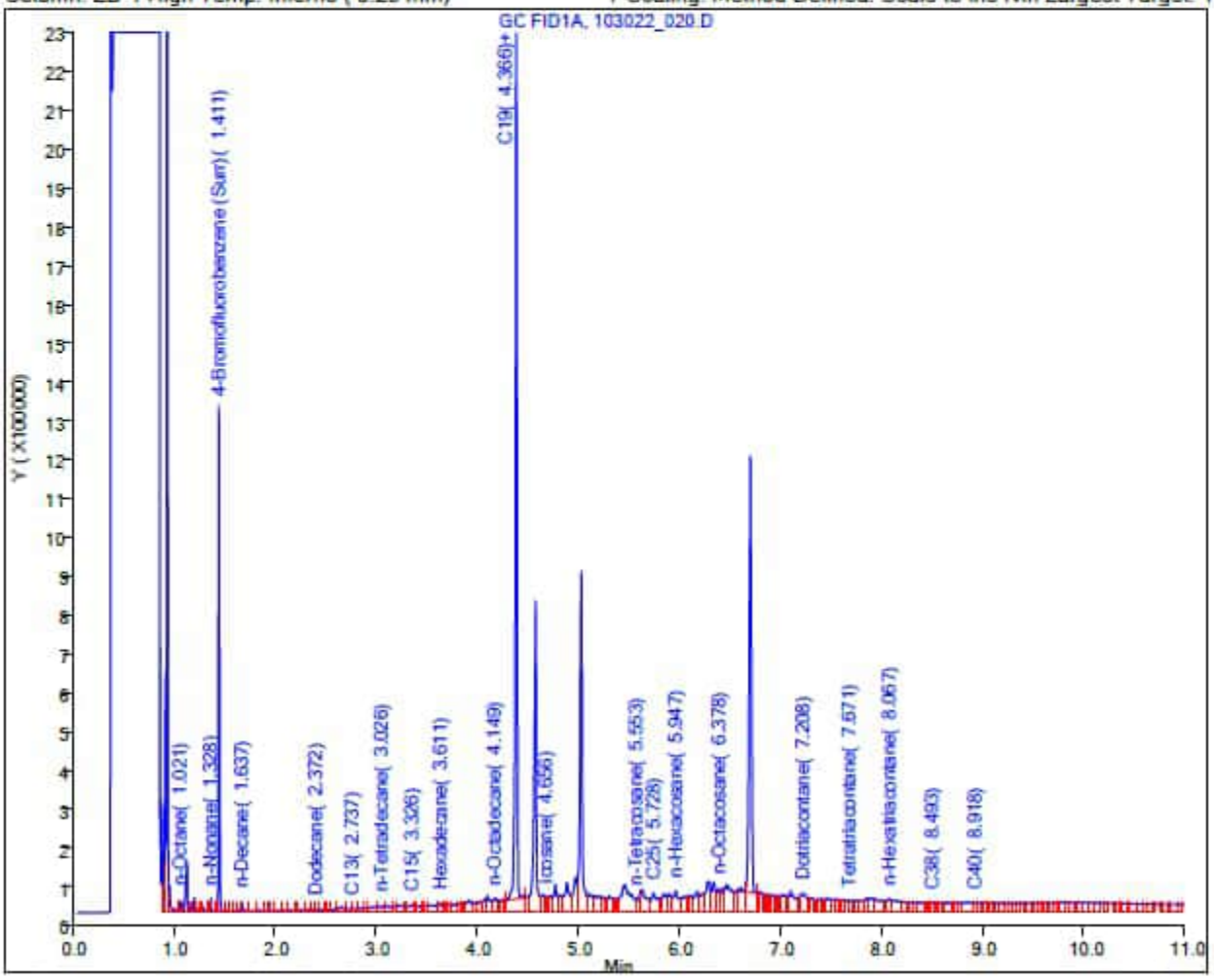
Results (ug/L): **TPH-d (C10 to C24) 240** **TPH-o (C24 to C40) 330 J**

Report Date: 01-Nov-2022 13:46:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_020.D		
Injection Date:	31-Oct-2022 23:30:30	Instrument ID:	TAC020
Lims ID:	580-119316-N-5-A	Lab Sample ID:	580-119316-5
Client ID:	ADIT3-SUMP-WGN01B-2210WK4		
Operator ID:	DH	ALS Bottle#:	19 Worklist Smp#: 69
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

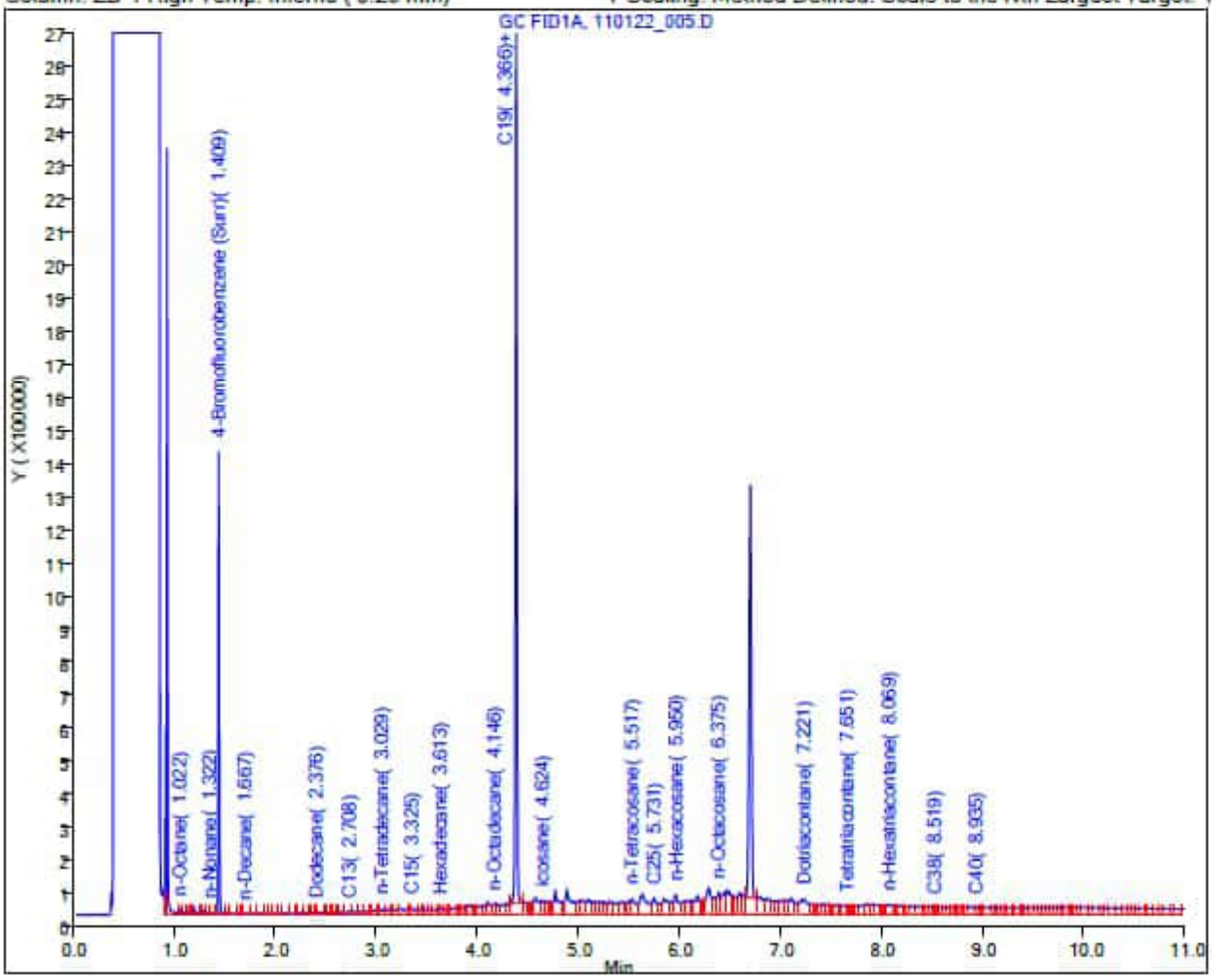


Results (ug/L): **TPH-d SGC (C10 to C24) 150** **TPH-o SGC (C24 to C40) 300 J**

Report Date: 02-Nov-2022 13:51:10 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_005.D
Injection Date: 01-Nov-2022 16:59:30 Instrument ID: TAC020
Lims ID: 580-119316-N-5-B Lab Sample ID: 580-119316-5
Client ID: ADIT3-SUMP-WGN01B-2210WK4
Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 42
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN02B-2210WK4 Sample Date: 10/27/2022

Lab: Eurofins Seattle

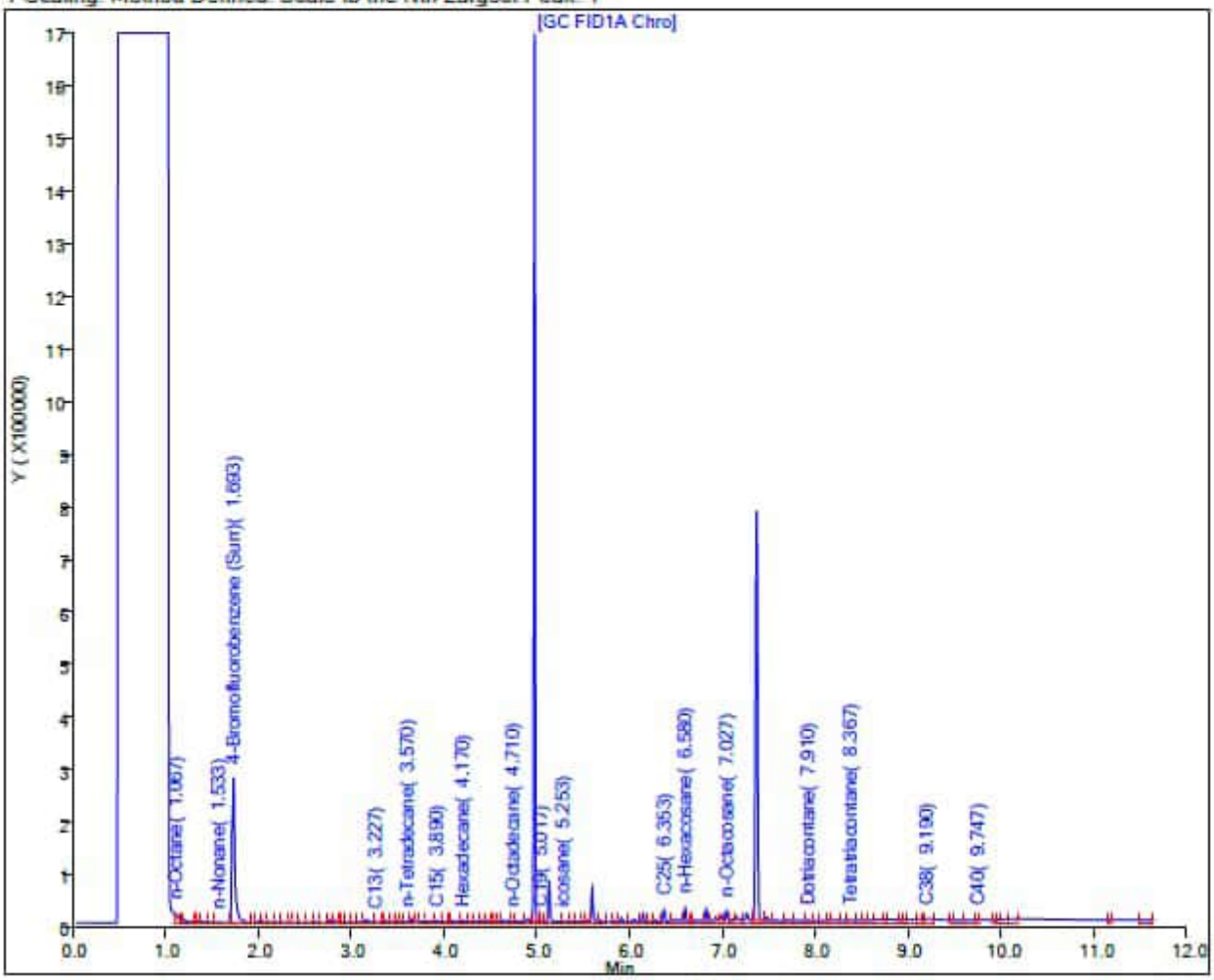
Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:12:12 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A048.D				
Injection Date:	03-Nov-2022 00:22:00	Instrument ID:	TAC129		
Lims ID:	580-119363-C-11-O	Lab Sample ID:	Client 580-408740/33-A		
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	33
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2210WK5 Sample Date: 11/1/2022

Lab: Eurofins Seattle

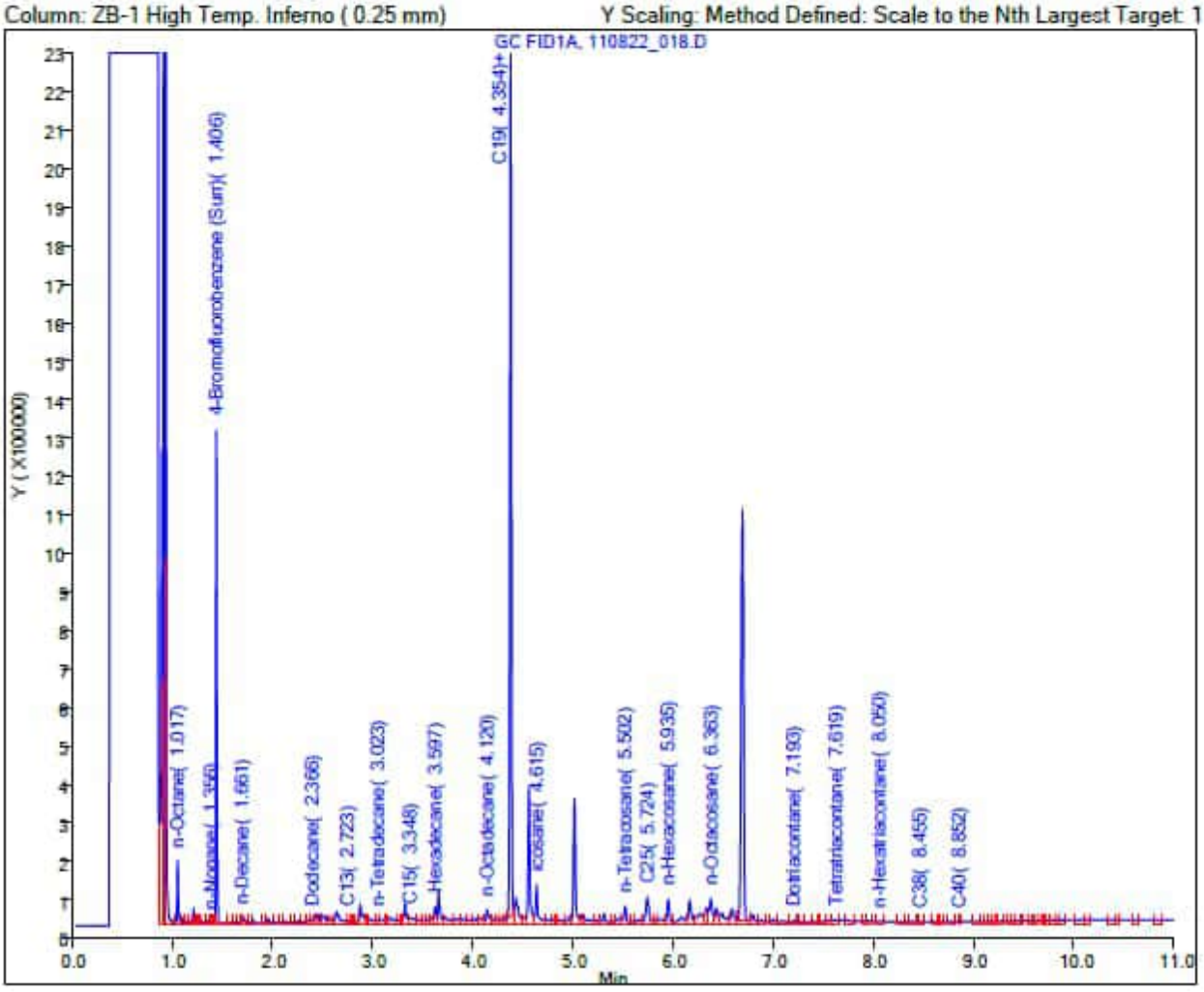
Results (ug/L): **TPH-d (C10 to C24) 110 J** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 13:54:32 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_018.D				
Injection Date:	08-Nov-2022 23:13:30	Instrument ID:	TAC020		
Lims ID:	580-119528-O-1-A	Lab Sample ID:	580-119528-1		
Client ID:	ADIT3-SUMP-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



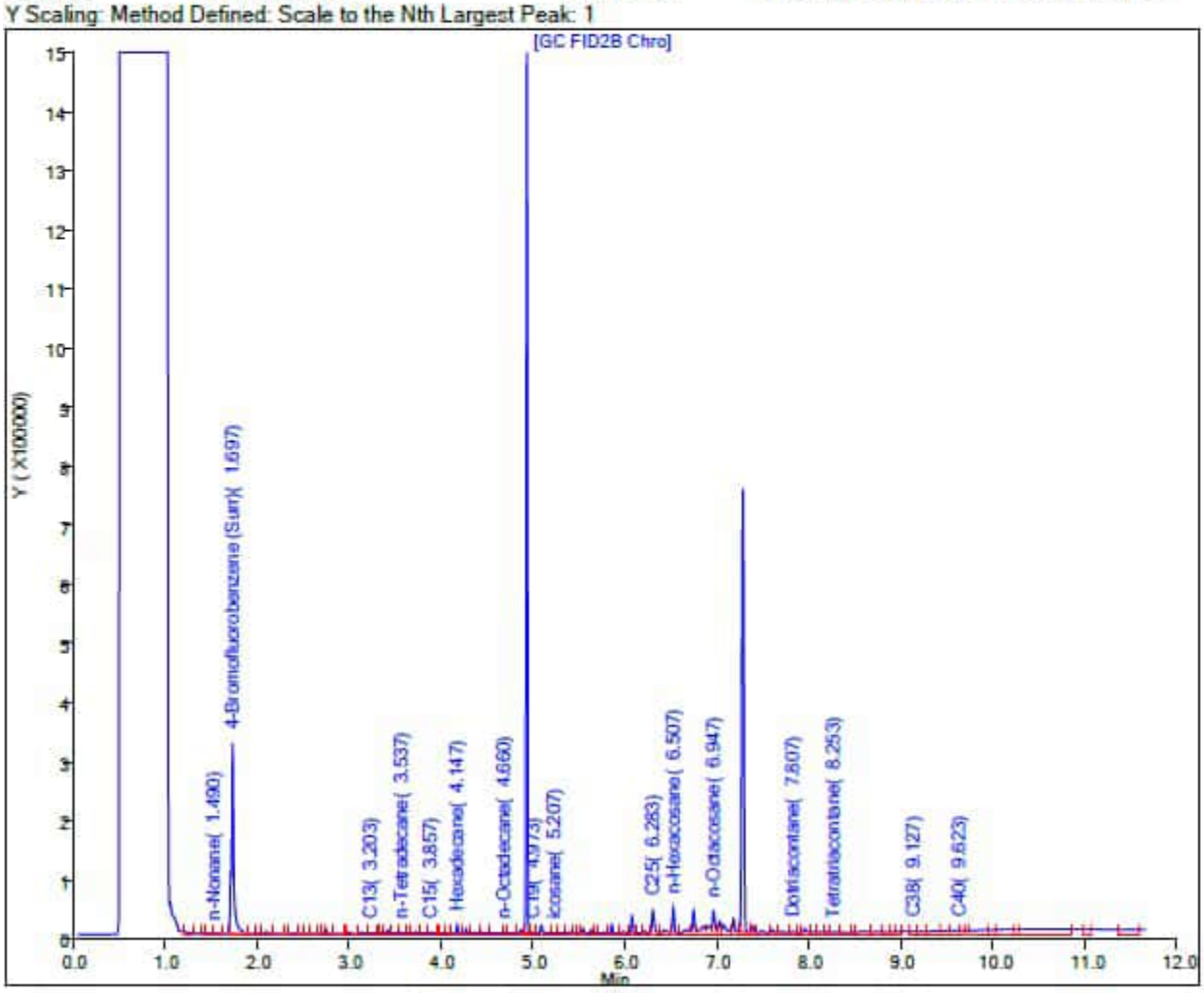
Results (ug/L): **TPH-d SGC (C10 to C24) <80 U** **TPH-o SGC (C24 to C40) <240 U**

Report Date: 11-Nov-2022 19:26:59 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A015.D				
Injection Date:	11-Nov-2022 18:32:35	Instrument ID:	TAC129_R		
Lims ID:	580-119528-O-1-B	Lab Sample ID:	580-119528-1		
Client ID:	ADIT3-SUMP-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN02B-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <81 U** **TPH-o (C24 to C40) <240 U**

Report Date: 10-Nov-2022 14:19:18 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_016.D

Injection Date: 10-Nov-2022 02:48:30 Instrument ID: TAC020

Lims ID: 580-119659-F-7-A Lab Sample ID: 580-119659-7

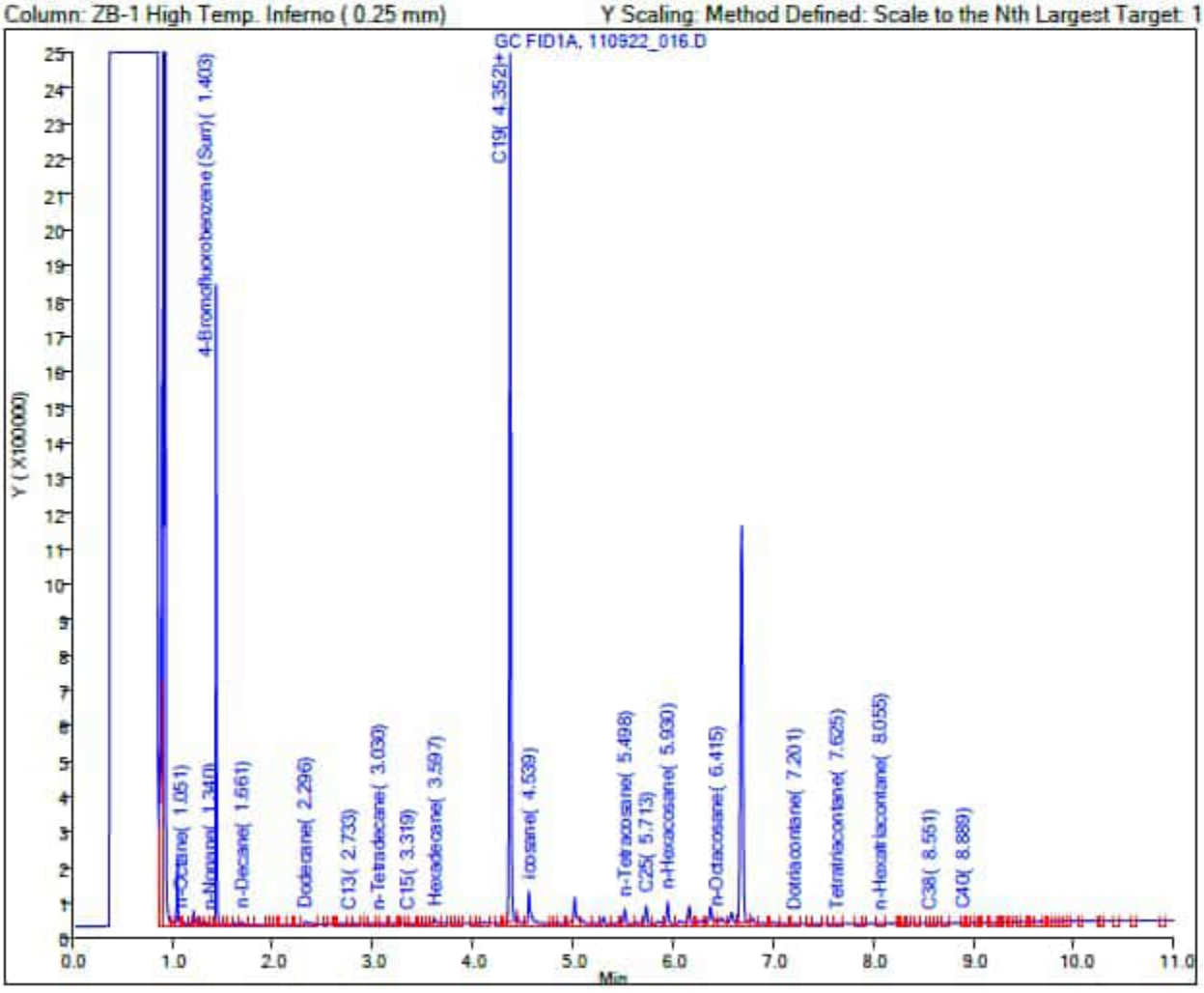
Client ID: ADIT3-SUMP-WGN02B-2210WK05

Operator ID: DH ALS Bottle#: 15 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN01B-2211WK3 Sample Date: 11/20/2022

Lab: Eurofins Seattle

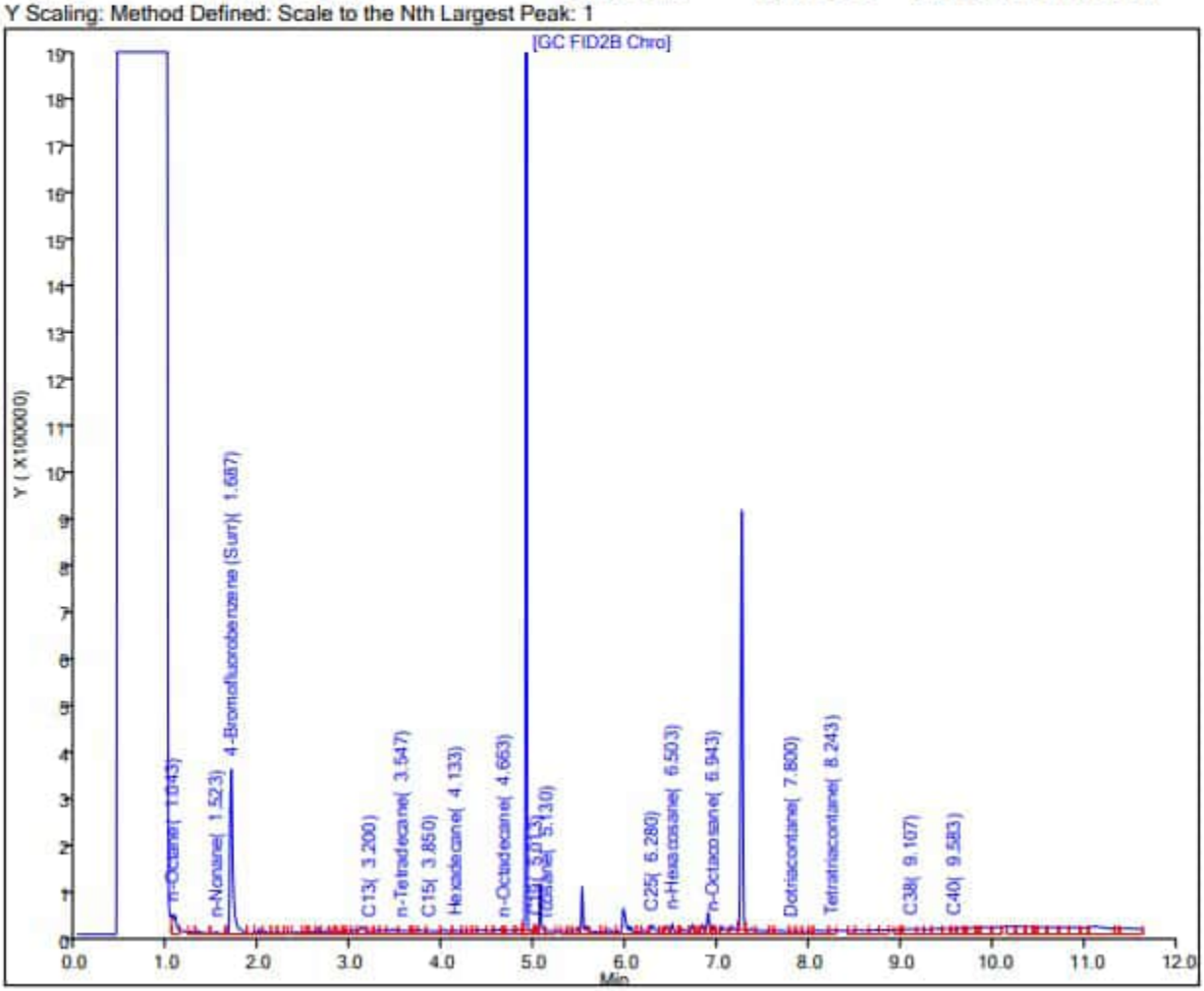
Results (ug/L): **TPH-d (C10 to C24) 99 J** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:23:46 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A019.D				
Injection Date:	28-Nov-2022 18:59:04	Instrument ID:	TAC129_R		
Lims ID:	580-120311-N-5-A	Lab Sample ID:	580-120311-5		
Client ID:	ADIT3-SUMP-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

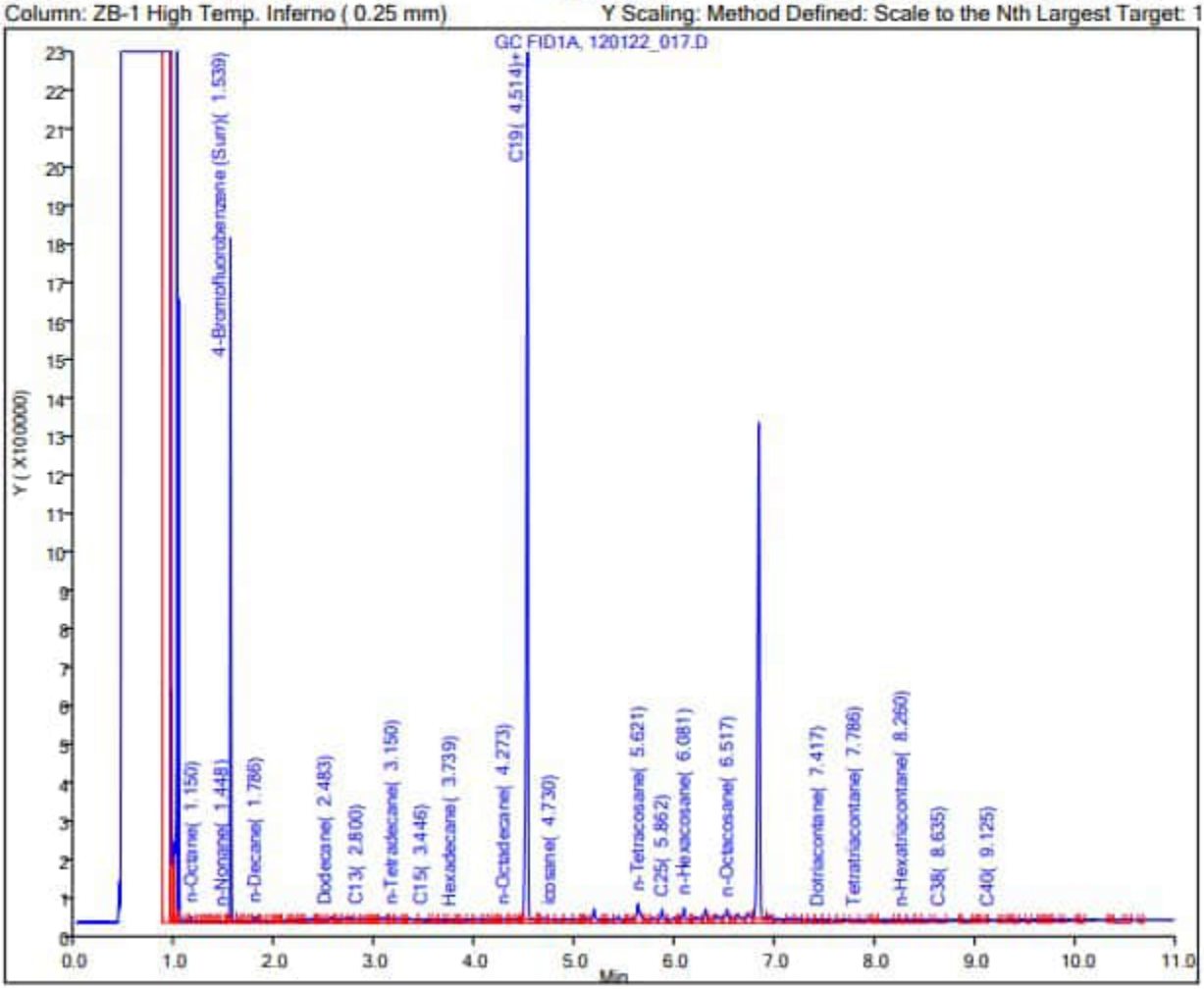
Report Date: 02-Dec-2022 14:14:19 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221201-86051.b\120122_017.D

Injection Date:	01-Dec-2022 21:39:30	Instrument ID:	TAC020		
Lims ID:	580-120311-N-5-C	Lab Sample ID:	580-120311-5		
Client ID:	ADIT3-SUMP-WGN01B-2211WK3				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **Sump Adit 3** Sample ID: ADIT3-SUMP-WGN02B-2211WK3 Sample Date: 11/22/2022

Lab: Eurofins Seattle

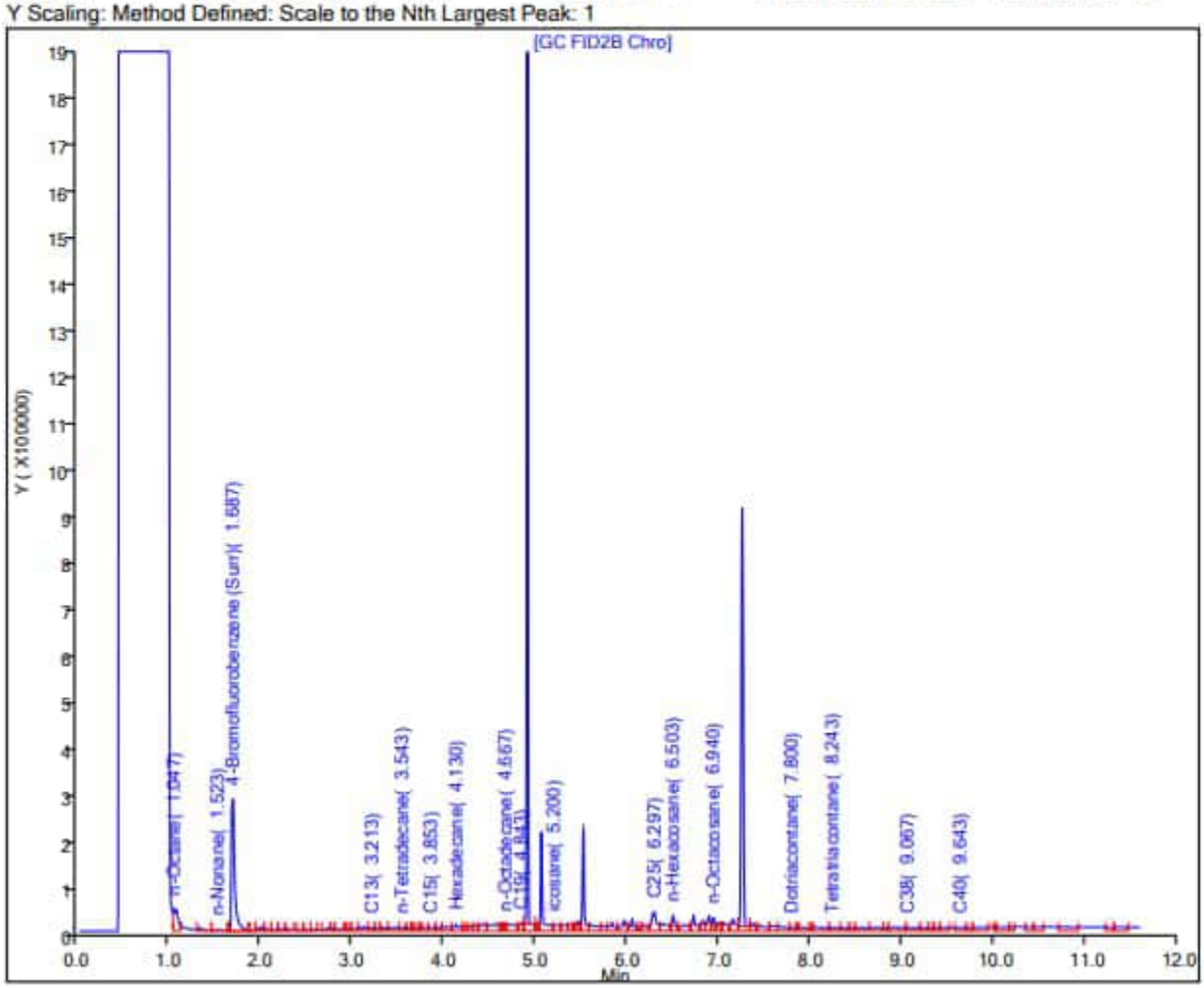
Results (ug/L): **TPH-d (C10 to C24) 120** **TPH-o (C24 to C40) <310 U**

Report Date: 30-Nov-2022 12:33:04 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A043.D				
Injection Date:	30-Nov-2022 00:36:26	Instrument ID:	TAC129_R		
Lims ID:	580-120410-F-5-A	Lab Sample ID:	580-120410-5		
Client ID:	ADIT3-SUMP-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	68
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



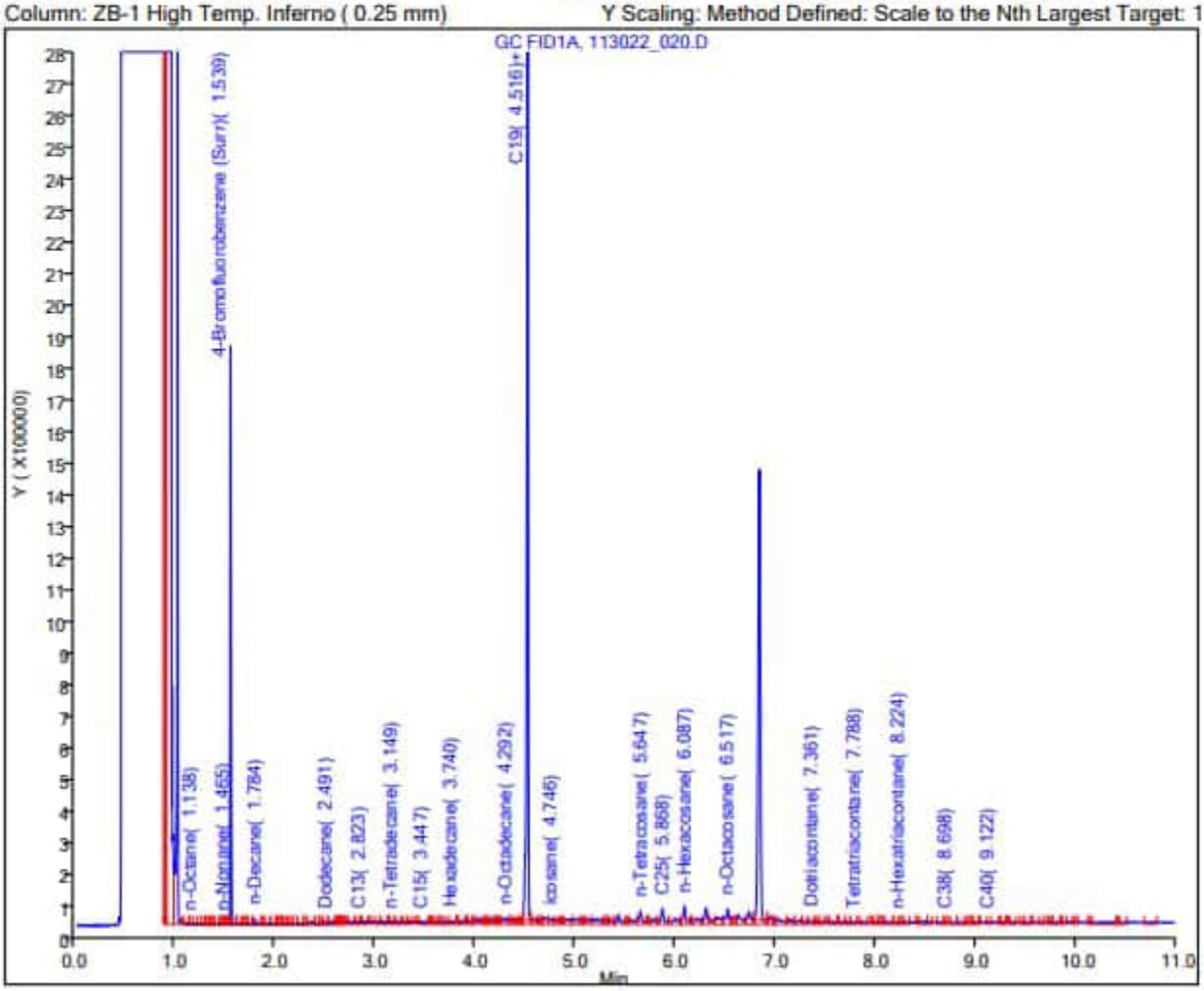
Results (ug/L): **TPH-d SGC (C10 to C24) 83 J** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 30-Nov-2022 22:33:01 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_020.D				
Injection Date:	30-Nov-2022 19:11:30	Instrument ID:	TAC020		
Lims ID:	580-120410-F-5-B	Lab Sample ID:	580-120410-5		
Client ID:	ADIT3-SUMP-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2208WK3 Sample Date: 8/17/2022
Lab: Eurofins Seattle

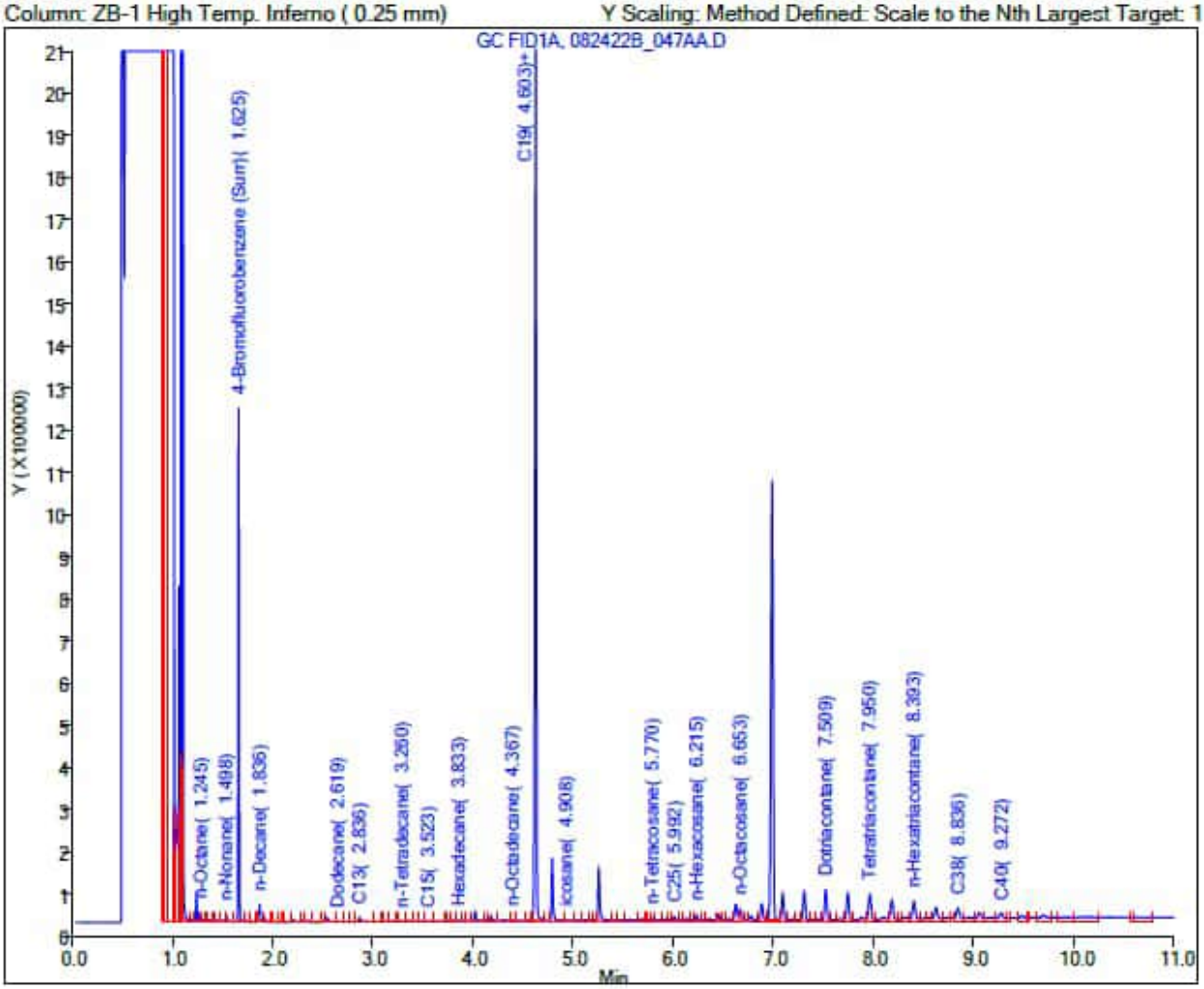
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 25-Aug-2022 13:46:35 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_047AA.D				
Injection Date:	25-Aug-2022 12:08:30	Instrument ID:	TAC020		
Lims ID:	580-117140-C-1-A	Lab Sample ID:	580-117140-1		
Client ID:	OWDFMW01-WGN01LF-2208WK3				
Operator ID:	DH	ALS Bottle#:	46	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2208WK4 Sample Date: 8/24/2022
Lab: Eurofins Seattle

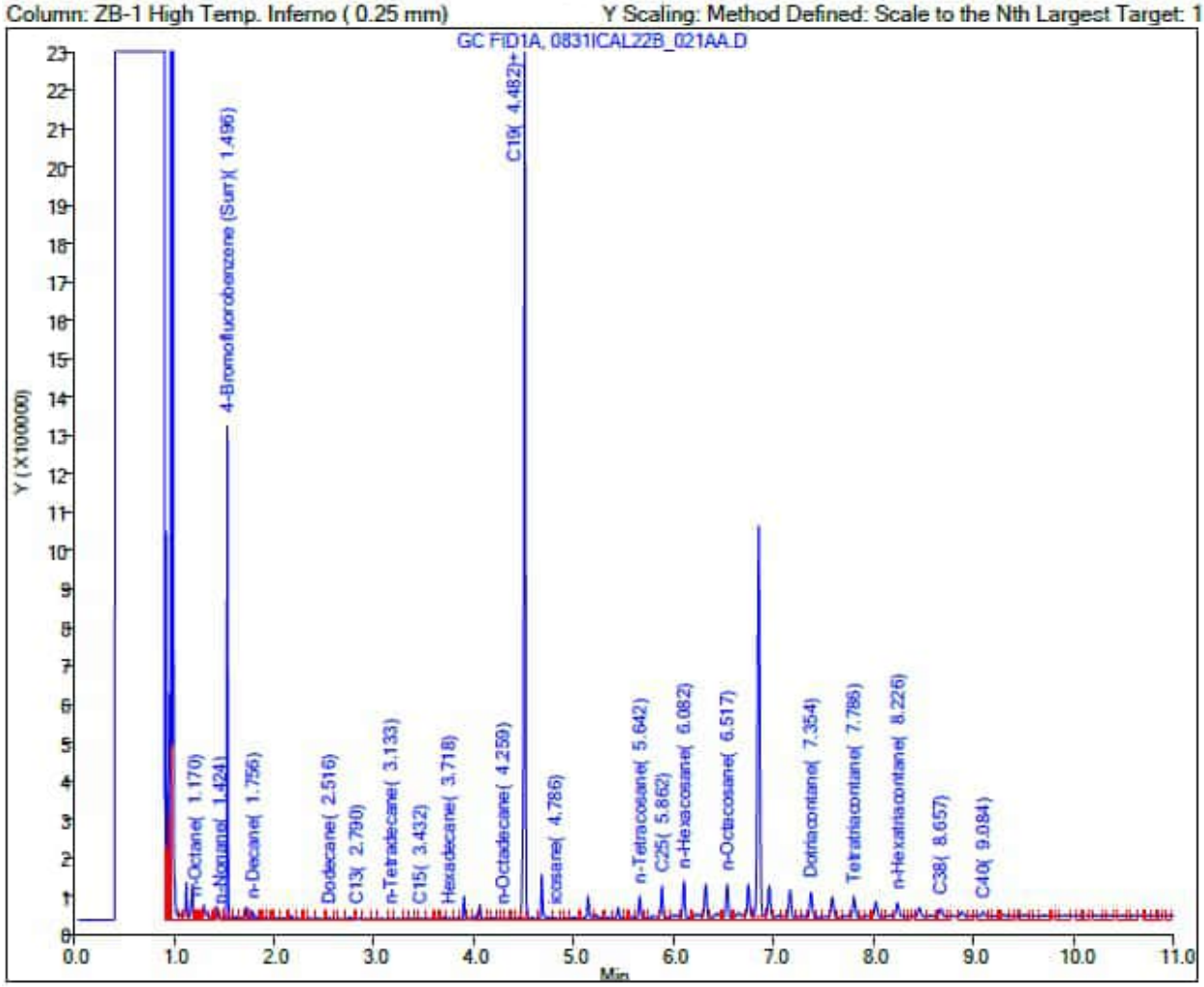
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 01-Sep-2022 14:04:27 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_021AA.D				
Injection Date:	01-Sep-2022 06:06:30	Instrument ID:	TAC020		
Lims ID:	580-117295-N-4-A	Lab Sample ID:	580-117295-4		
Client ID:	OWDFMW01-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2209WK1 Sample Date: 9/9/2022
Lab: Eurofins Seattle

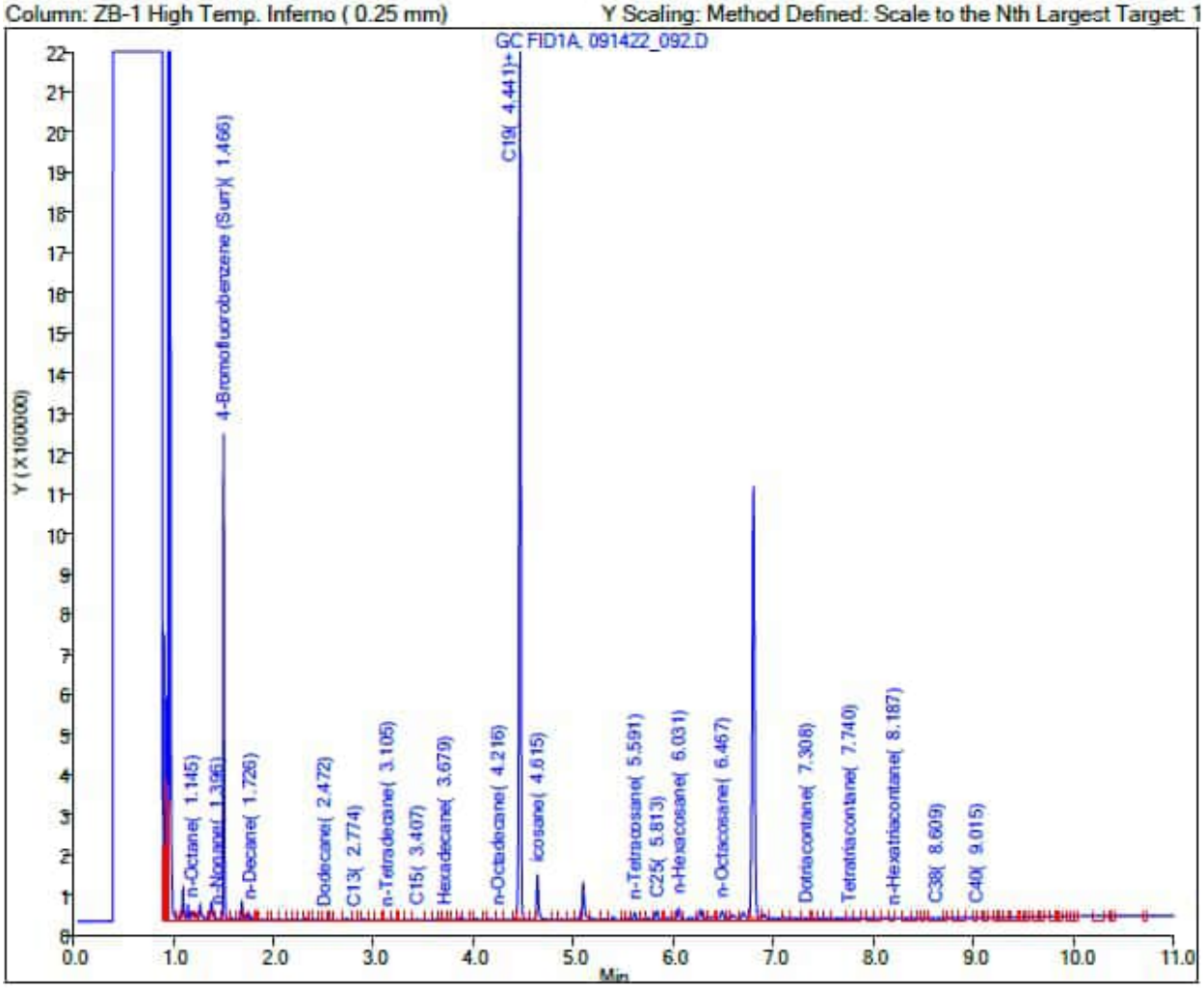
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 15-Sep-2022 14:59:11 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_092.D				
Injection Date:	14-Sep-2022 23:41:30	Instrument ID:	TAC020		
Lims ID:	580-117769-P-3-A	Lab Sample ID:	580-117769-3		
Client ID:	OWDFMW01-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	92	Worklist Smp#:	25
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2210WK1 Sample Date: 10/5/2022
Lab: Eurofins Seattle

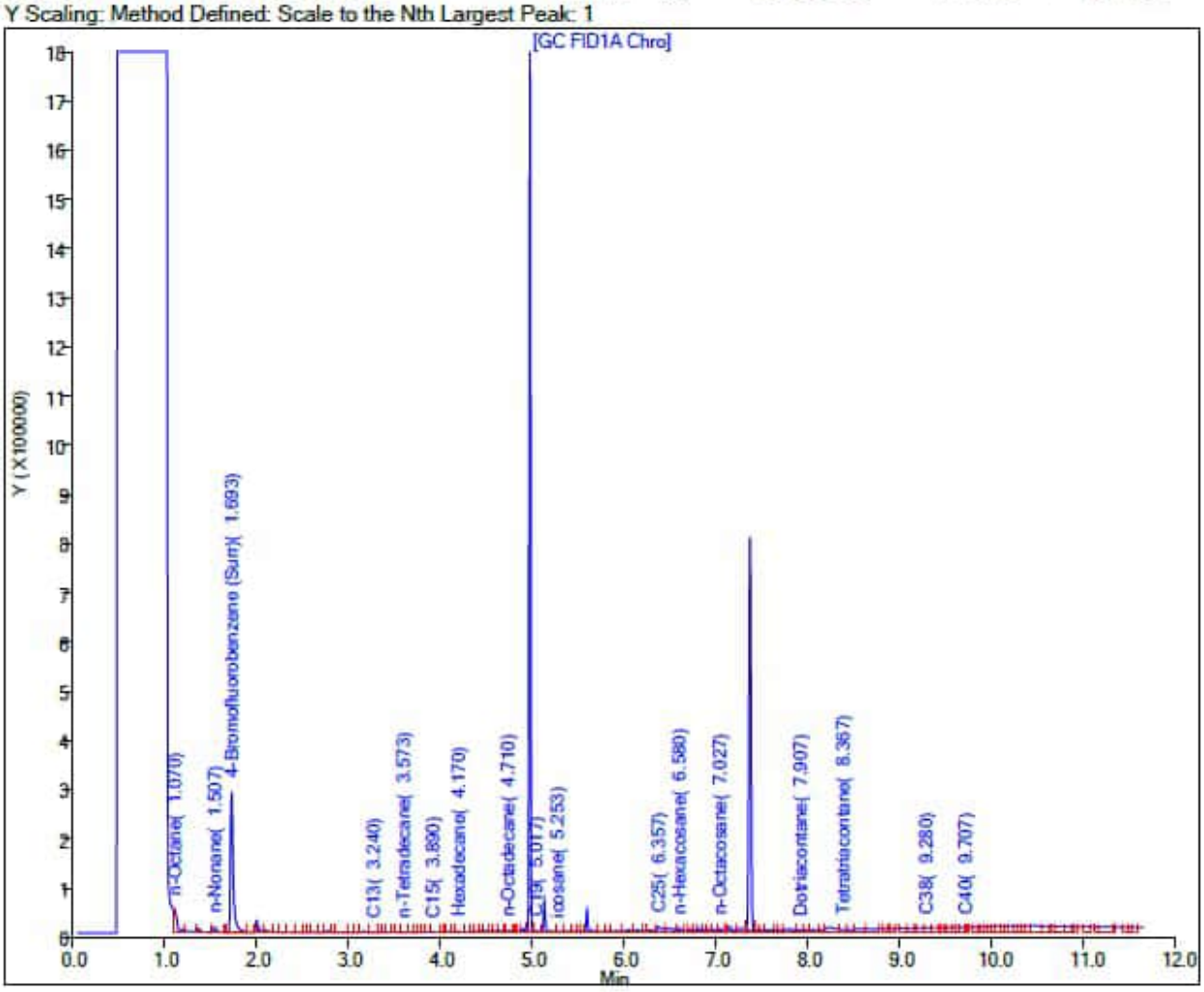
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 11-Oct-2022 13:55:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A030.D				
Injection Date:	10-Oct-2022 21:31:58	Instrument ID:	TAC129		
Lims ID:	580-118648-E-12-A	Lab Sample ID:	580-118648-12		
Client ID:	OWDFMW01-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

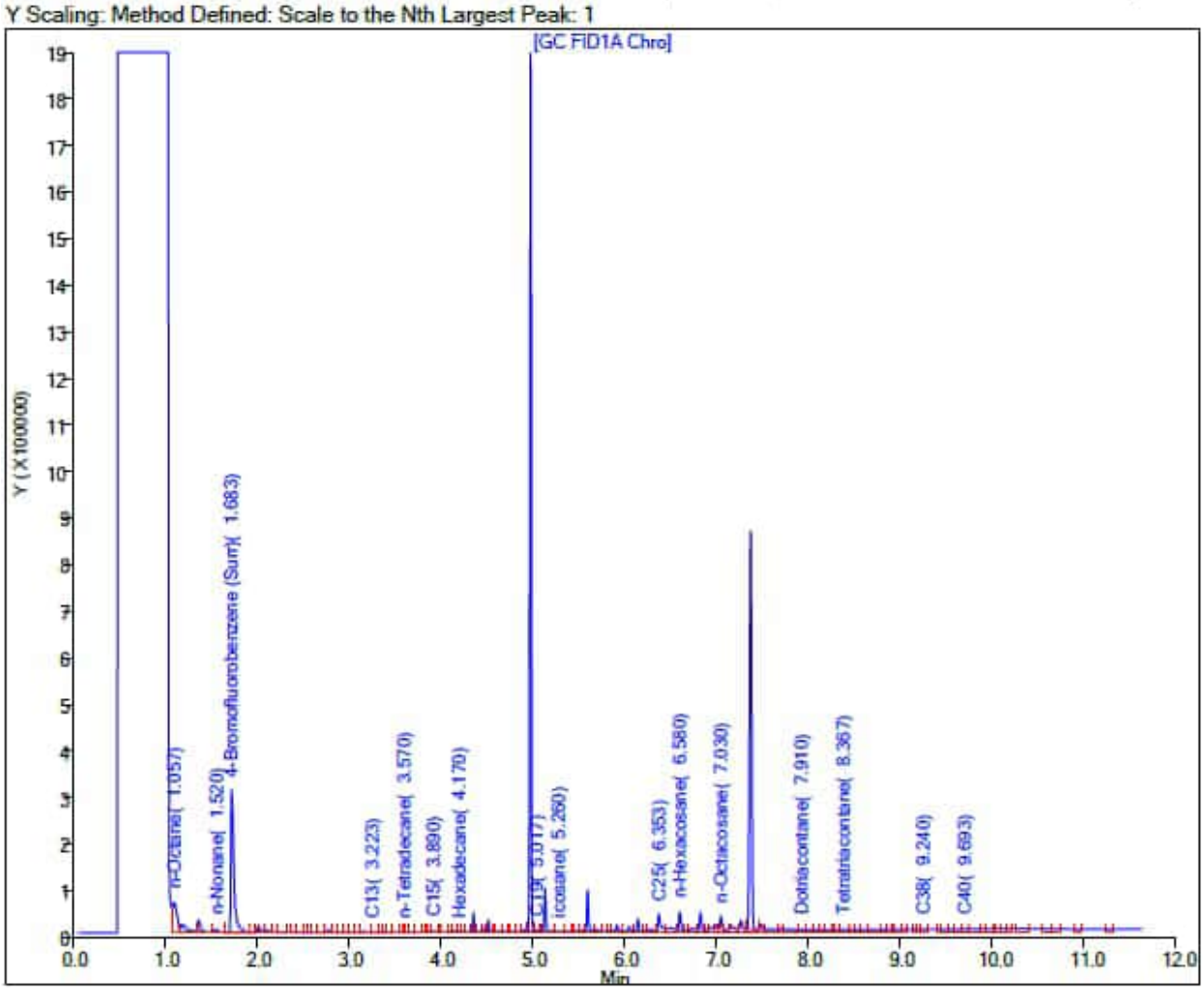
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:38:37 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A056.D				
Injection Date:	22-Oct-2022 02:03:39	Instrument ID:	TAC129		
Lims ID:	580-118920-N-13-A	Lab Sample ID:	580-118920-13		
Client ID:	OWDFMW01-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2210WK3 Sample Date: 10/19/2022
Lab: Eurofins Seattle

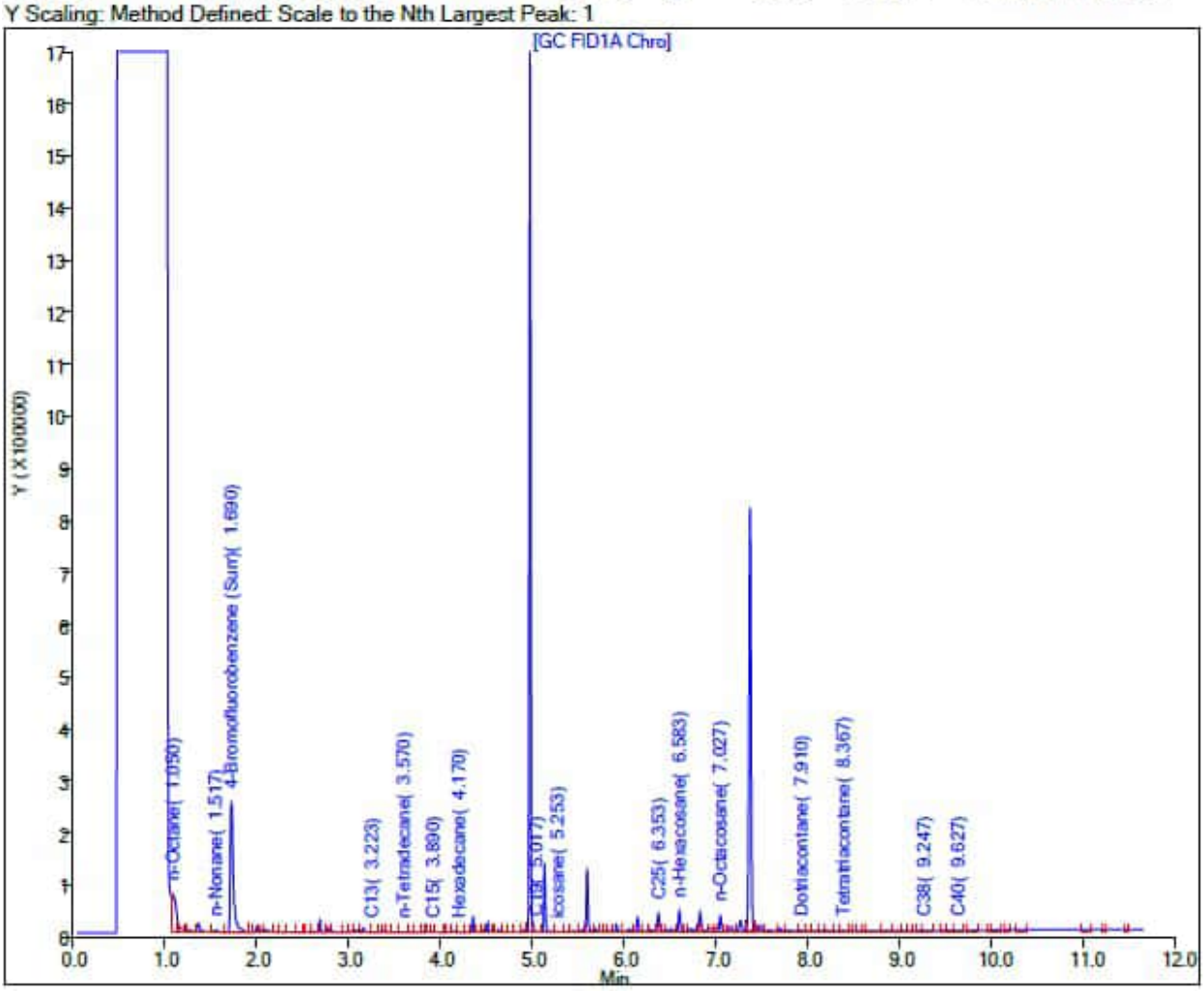
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 26-Oct-2022 13:37:12 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A038.D				
Injection Date:	26-Oct-2022 01:33:15	Instrument ID:	TAC129		
Lims ID:	580-119014-N-11-A	Lab Sample ID:	580-119014-11		
Client ID:	OWDFMW01-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

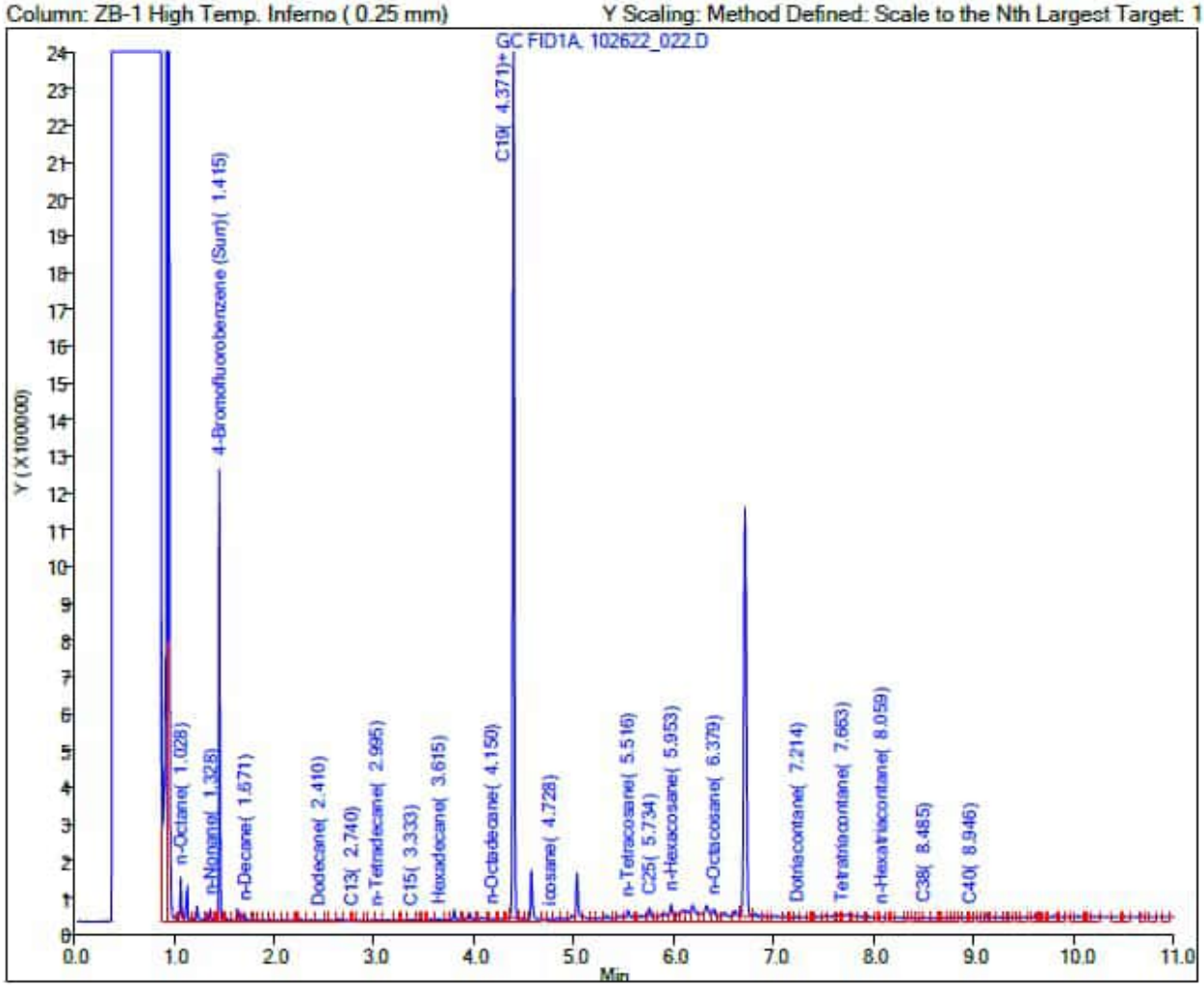
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 27-Oct-2022 13:37:51 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_022.D				
Injection Date:	26-Oct-2022 21:19:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-11-A	Lab Sample ID:	580-119152-11		
Client ID:	OWDFMW01-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

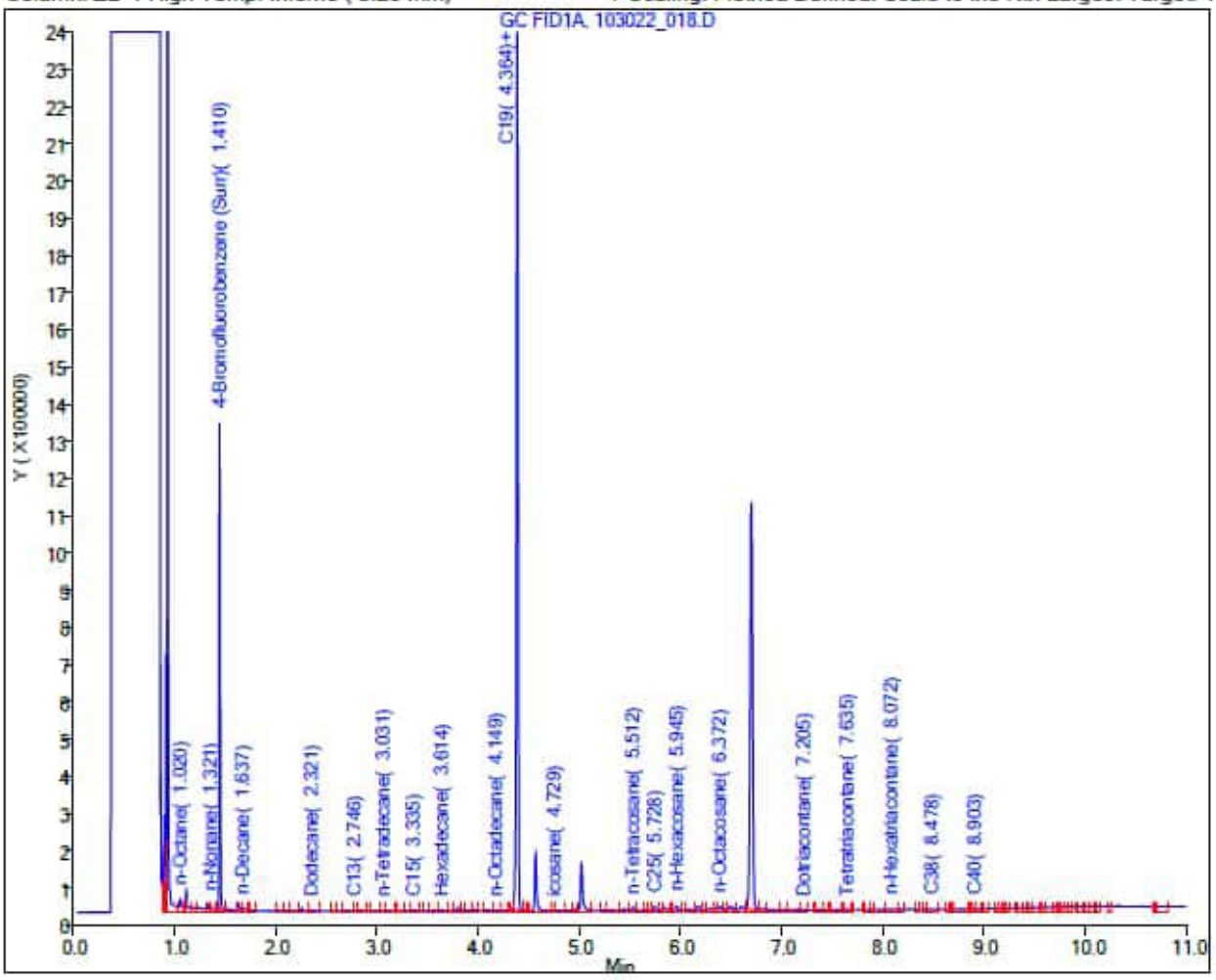
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 01-Nov-2022 13:46:09 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_018.D				
Injection Date:	31-Oct-2022 22:50:30	Instrument ID:	TAC020		
Lims ID:	580-119316-N-1-A	Lab Sample ID:	580-119316-1		
Client ID:	OWDFMW01-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	67
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

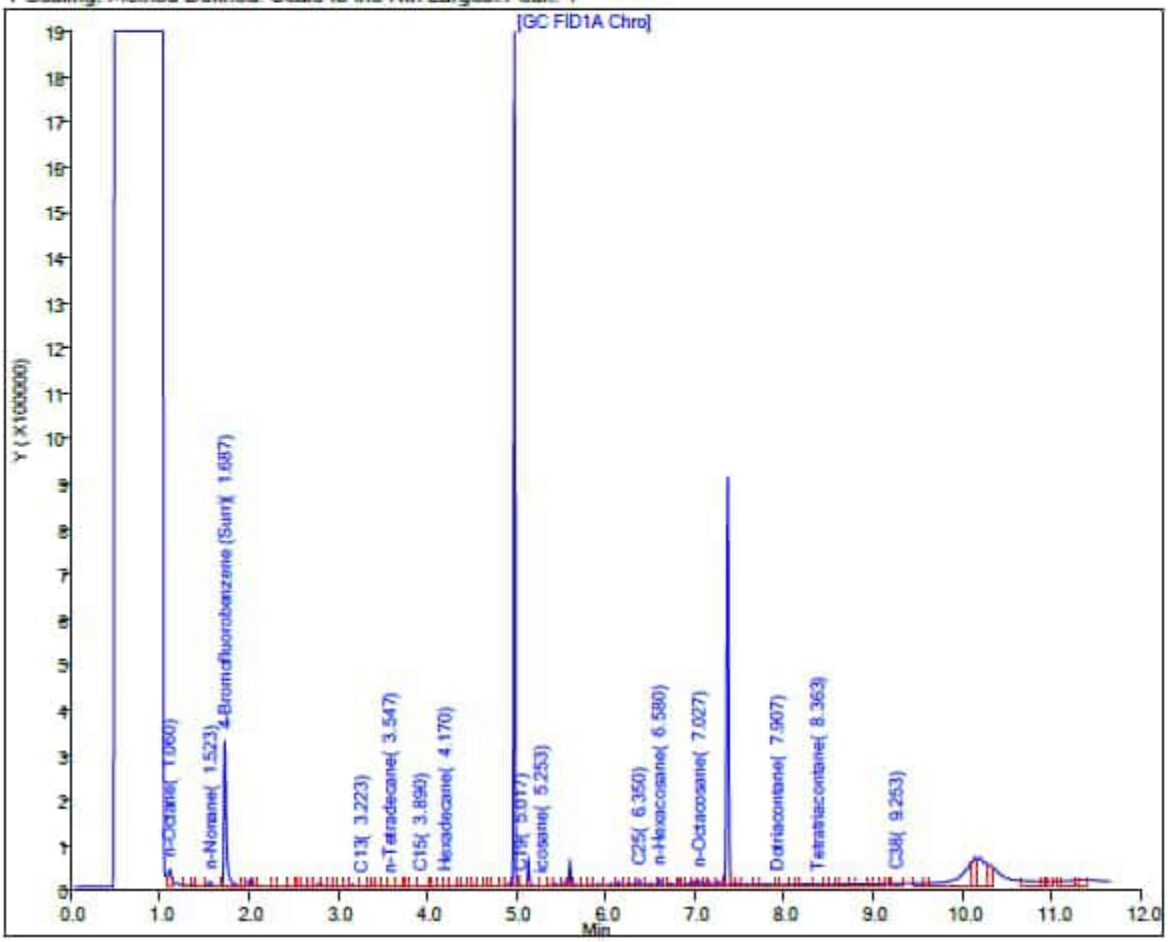
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:12:24 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A056.D		
Injection Date:	03-Nov-2022 01:35:43	Instrument ID:	TAC129
Lims ID:	580-119430-C-7-A	Lab Sample ID:	580-119430-7
Client ID:	OWDFMW01-WGN02LF-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2210WK5 Sample Date: 11/2/2022
Lab: Eurofins Seattle

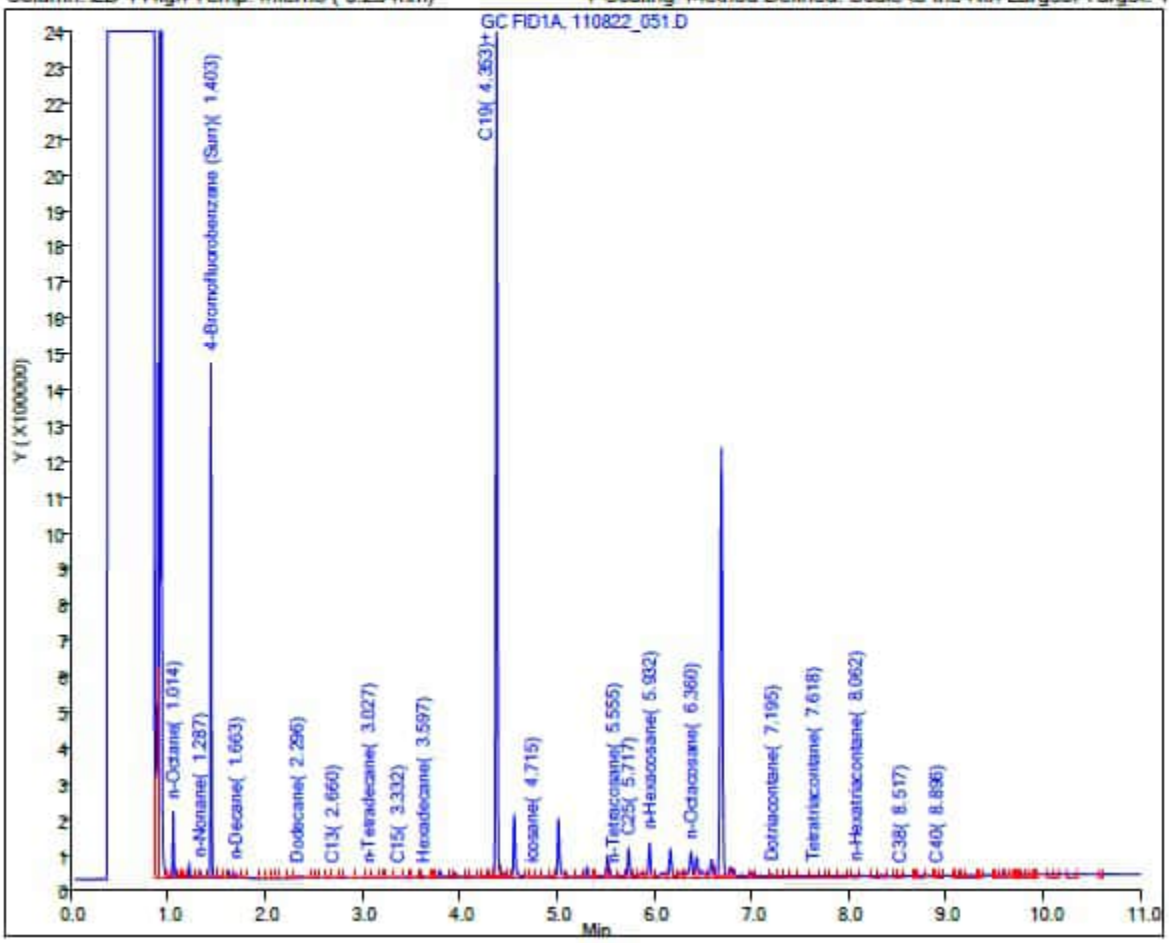
Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 09-Nov-2022 14:00:23 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_051.D				
Injection Date:	09-Nov-2022 10:18:30	Instrument ID:	TAC020		
Lims ID:	580-119623-O-4-A	Lab Sample ID:	580-119623-4		
Client ID:	OWDFMW01-WGN01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	50	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

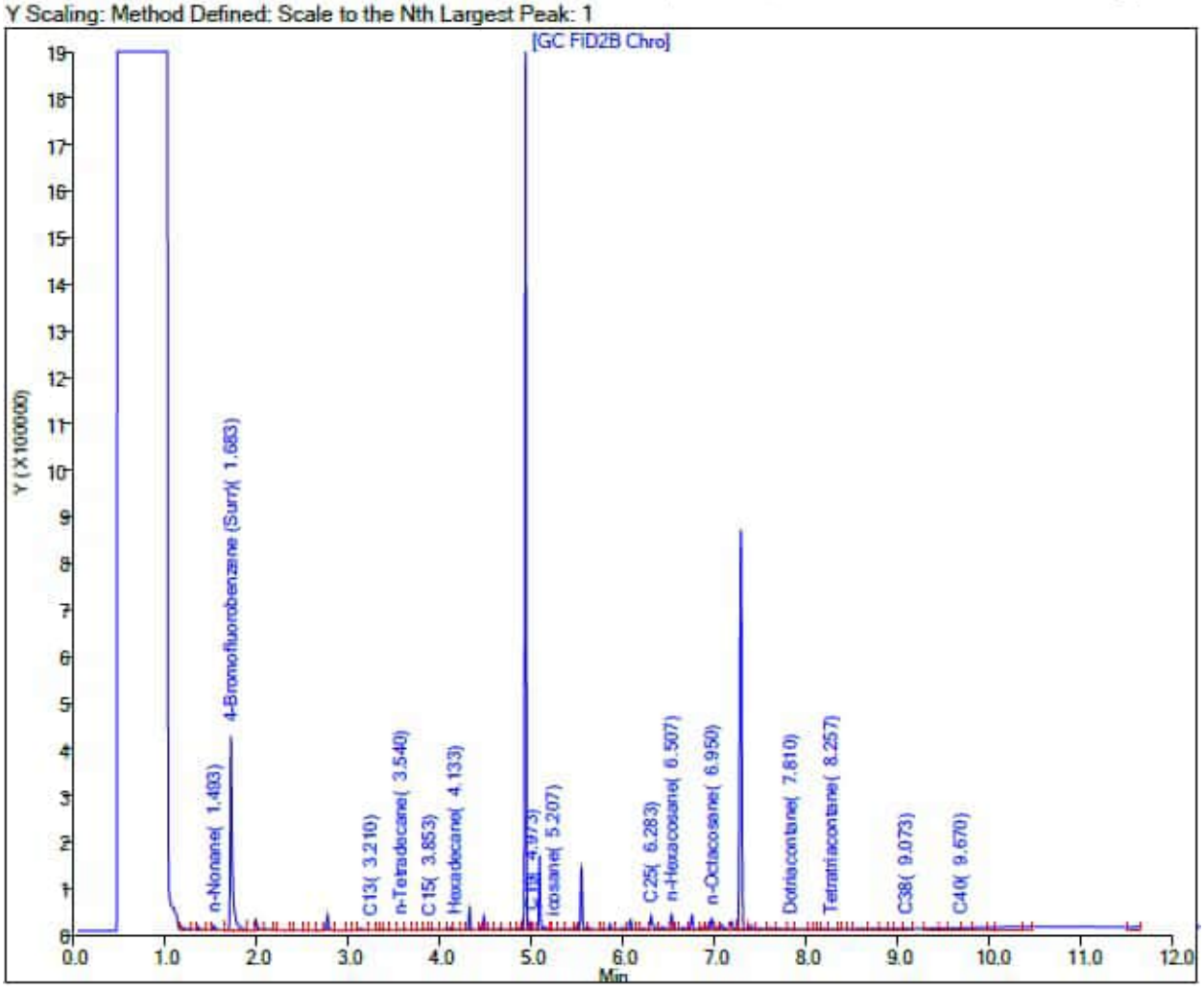
Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 14-Nov-2022 13:32:13 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A023.D				
Injection Date:	12-Nov-2022 02:51:08	Instrument ID:	TAC129_R		
Lims ID:	580-119804-O-3-A	Lab Sample ID:	580-119804-3		
Client ID:	OWDFMW01-WGN02LF 2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

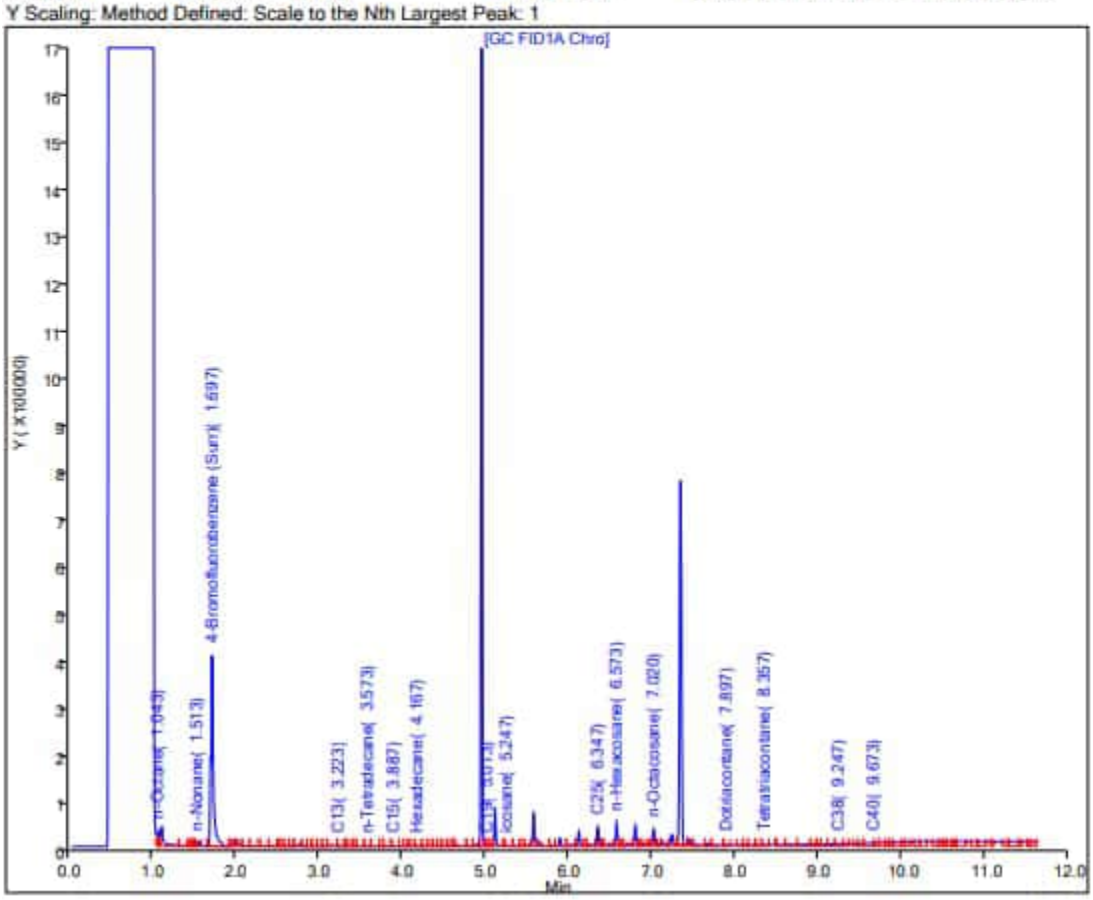
Results (ug/L): **TPH-d (C10 to C24) < 100 U** **TPH-o (C24 to C40) < 310 U**

Report Date: 17-Nov-2022 11:37:52 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221116-85833.b\1116z22A016.D		
Injection Date:	17-Nov-2022 00:16:44	Instrument ID:	TAC129
Lims ID:	580-120006-N-8-A	Lab Sample ID:	580-120006-8
Client ID:	OWDFMW01-WGN02LF-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN02LF-2211WK2 Sample Date: 11/18/2022
Lab: Eurofins Seattle

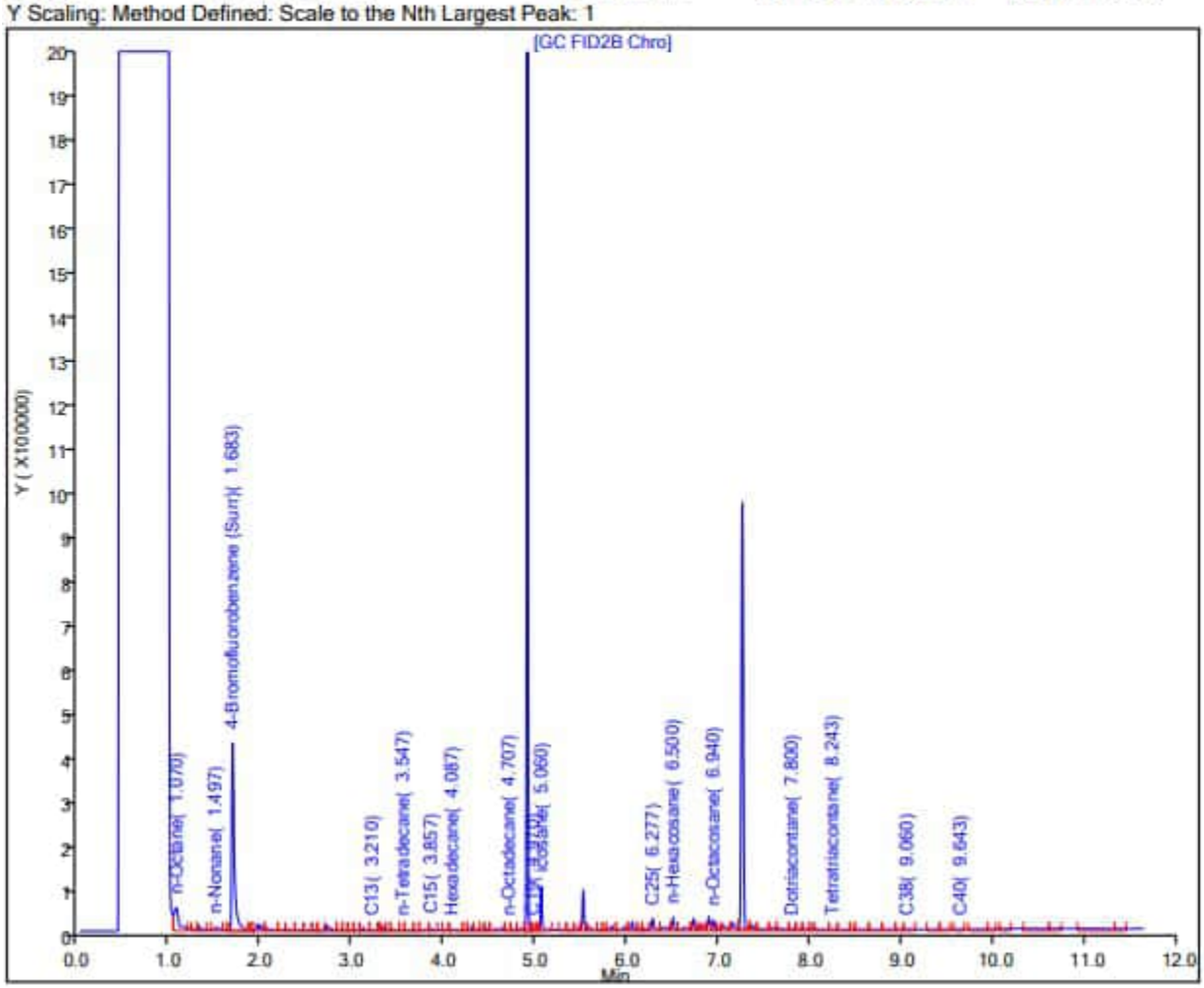
Results (ug/L): **TPH-d (C10 to C24) < 100 U** **TPH-o (C24 to C40) < 310 U**

Report Date: 29-Nov-2022 13:24:42 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A043.D		
Injection Date:	28-Nov-2022 22:42:02	Instrument ID:	TAC129_R
Lims ID:	580-120243-O-12-A	Lab Sample ID:	580-120243-12
Client ID:	OWDFMW01-WGN02LF-2211WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW01** Sample ID: OWDFMW01-WGN01LF-2211WK3 Sample Date: 11/20/2022
Lab: Eurofins Seattle

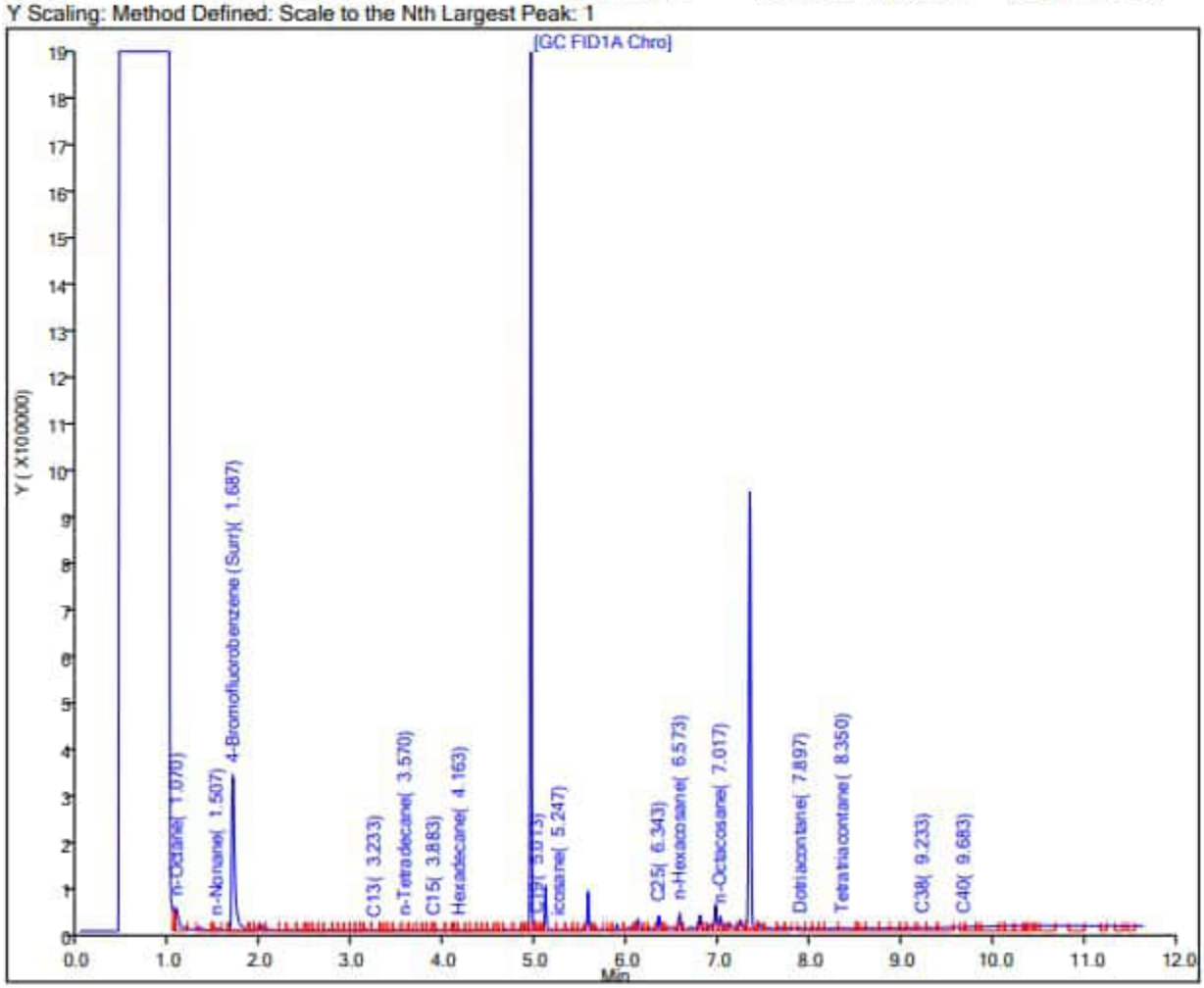
Results (ug/L): **TPH-d (C10 to C24) < 100 U** **TPH-o (C24 to C40) < 300 U**

Report Date: 29-Nov-2022 12:58:47 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221128-85982.b\1128AA22A018.D				
Injection Date:	28-Nov-2022 18:40:25	Instrument ID:	TAC129		
Lims ID:	580-120311-N-1-A	Lab Sample ID:	580-120311-1		
Client ID:	OWDFMW01-WGN01LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2208WK2 Sample Date: 8/8/2022
Lab: Eurofins Seattle

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Aug-2022 07:57:30 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_037A.D				
Injection Date:	16-Aug-2022 06:59:30	Instrument ID:	TAC020		
Lims ID:	580-116749-D-8-A	Lab Sample ID:	580-116749-8		
Client ID:	OWDFMW04A-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	37	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2208WK2 Sample Date: 8/8/2022
Lab: Eurofins Seattle

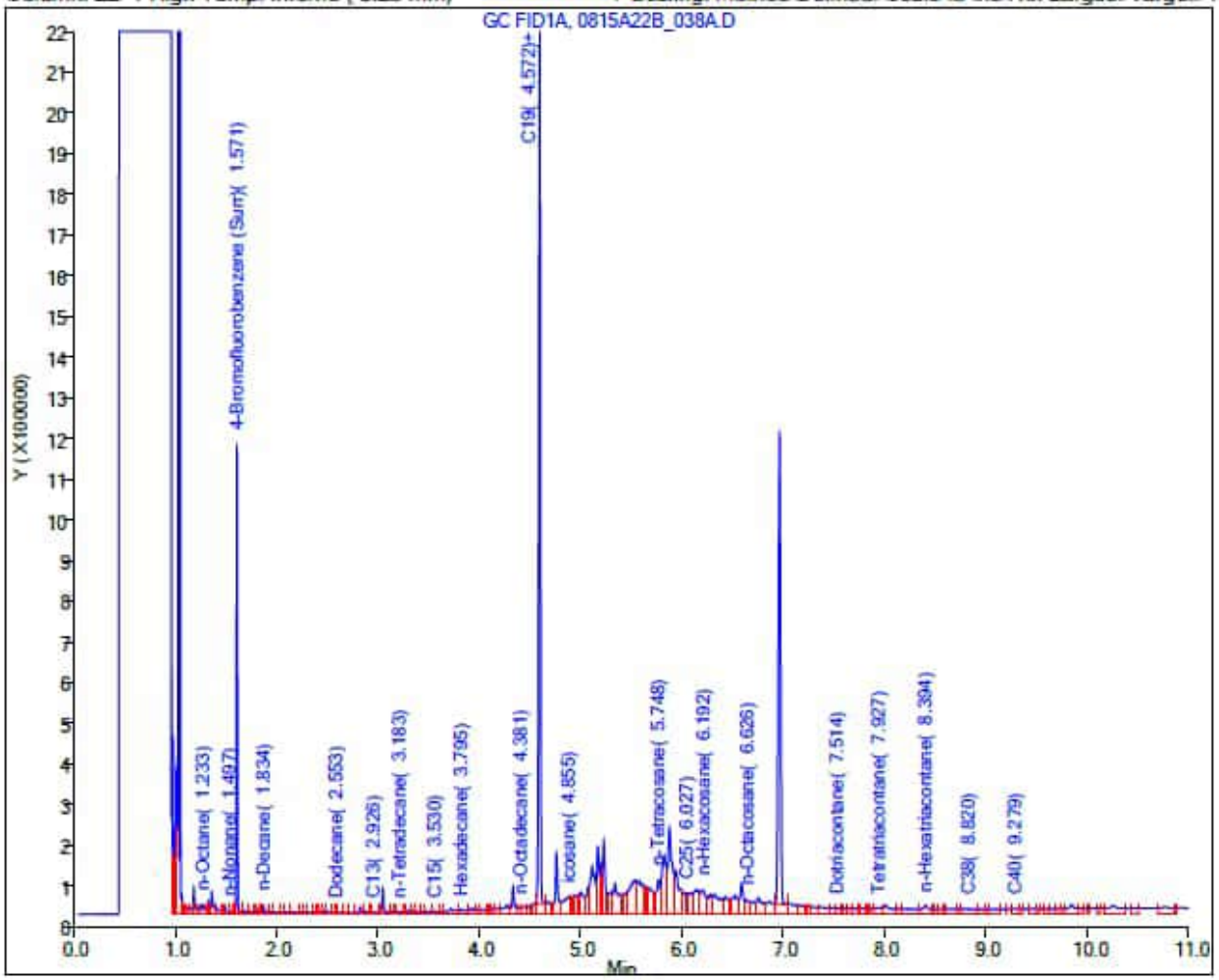
Results (ug/L): **TPH-d (C10 to C24) 160** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Aug-2022 08:12:37 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_038A.D				
Injection Date:	16-Aug-2022 07:19:30	Instrument ID:	TAC020		
Lims ID:	580-116749-C-10-A	Lab Sample ID:	580-116749-10		
Client ID:	OWDFMW04A-WGFD01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	38	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2208WK2 Sample Date: 8/8/2022
Lab: Eurofins Seattle

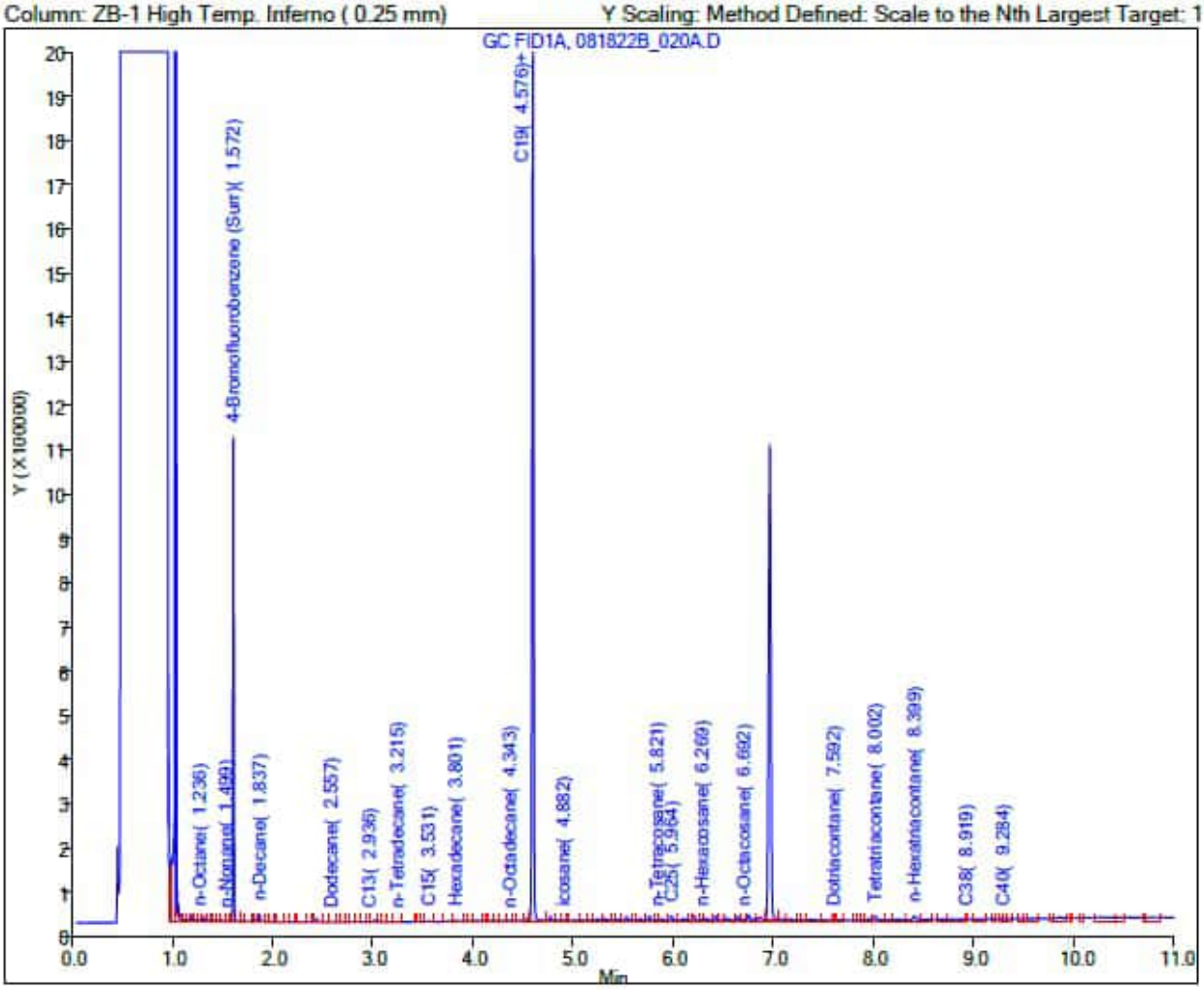
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 18-Aug-2022 20:54:58 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_020A.D				
Injection Date:	18-Aug-2022 20:18:30	Instrument ID:	TAC020		
Lims ID:	580-116749-C-10-B	Lab Sample ID:	580-116749-10		
Client ID:	OWDFMW04A-WGFD01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2209WK2 Sample Date: 9/12/2022
Lab: Eurofins Seattle

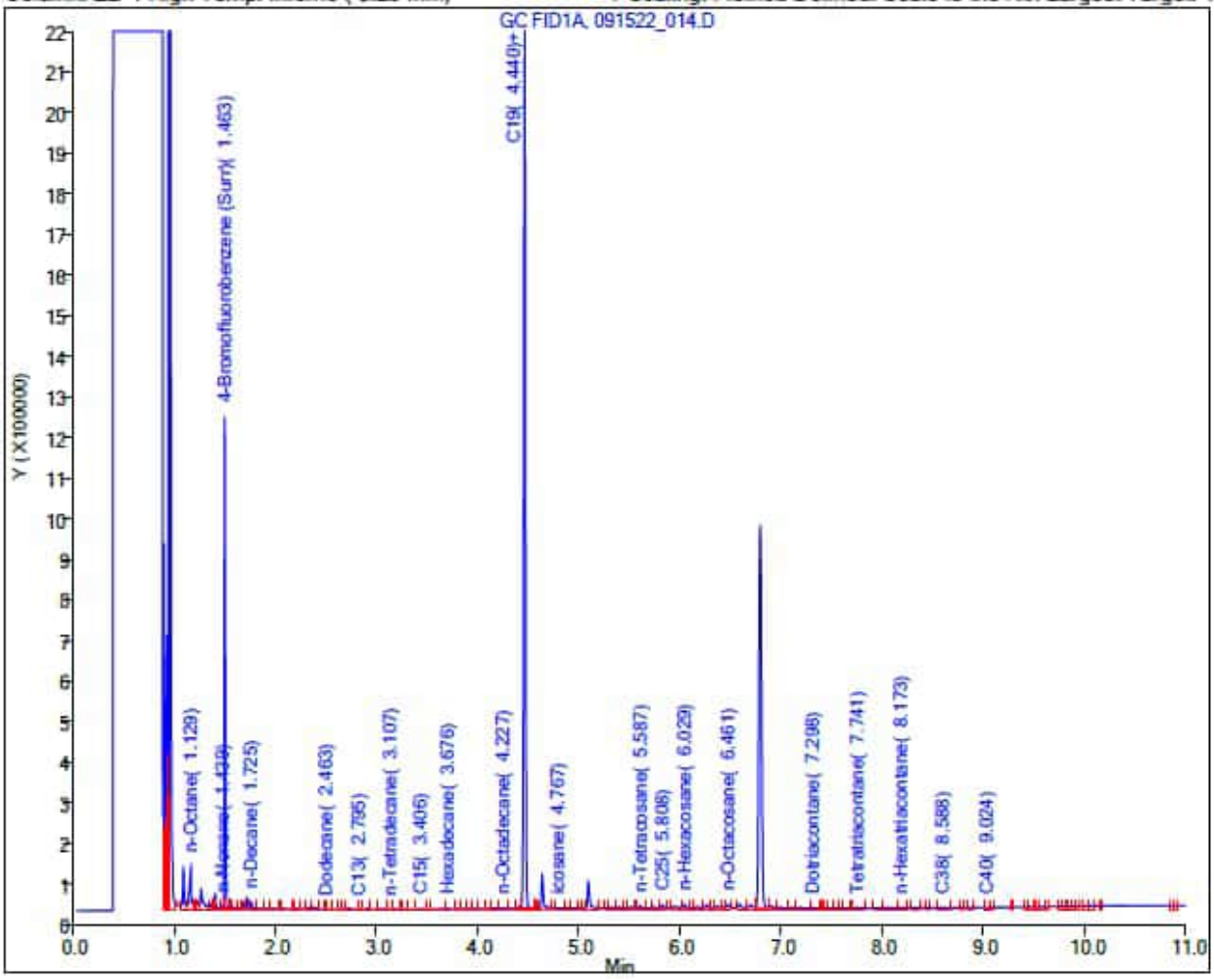
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Sep-2022 14:26:40 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_014.D				
Injection Date:	15-Sep-2022 22:06:30	Instrument ID:	TAC020		
Lims ID:	580-117801-F-8-A	Lab Sample ID:	580-117801-8		
Client ID:	OWDFMW04A-WGN01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2209WK2 Sample Date: 9/12/2022
Lab: Eurofins Seattle

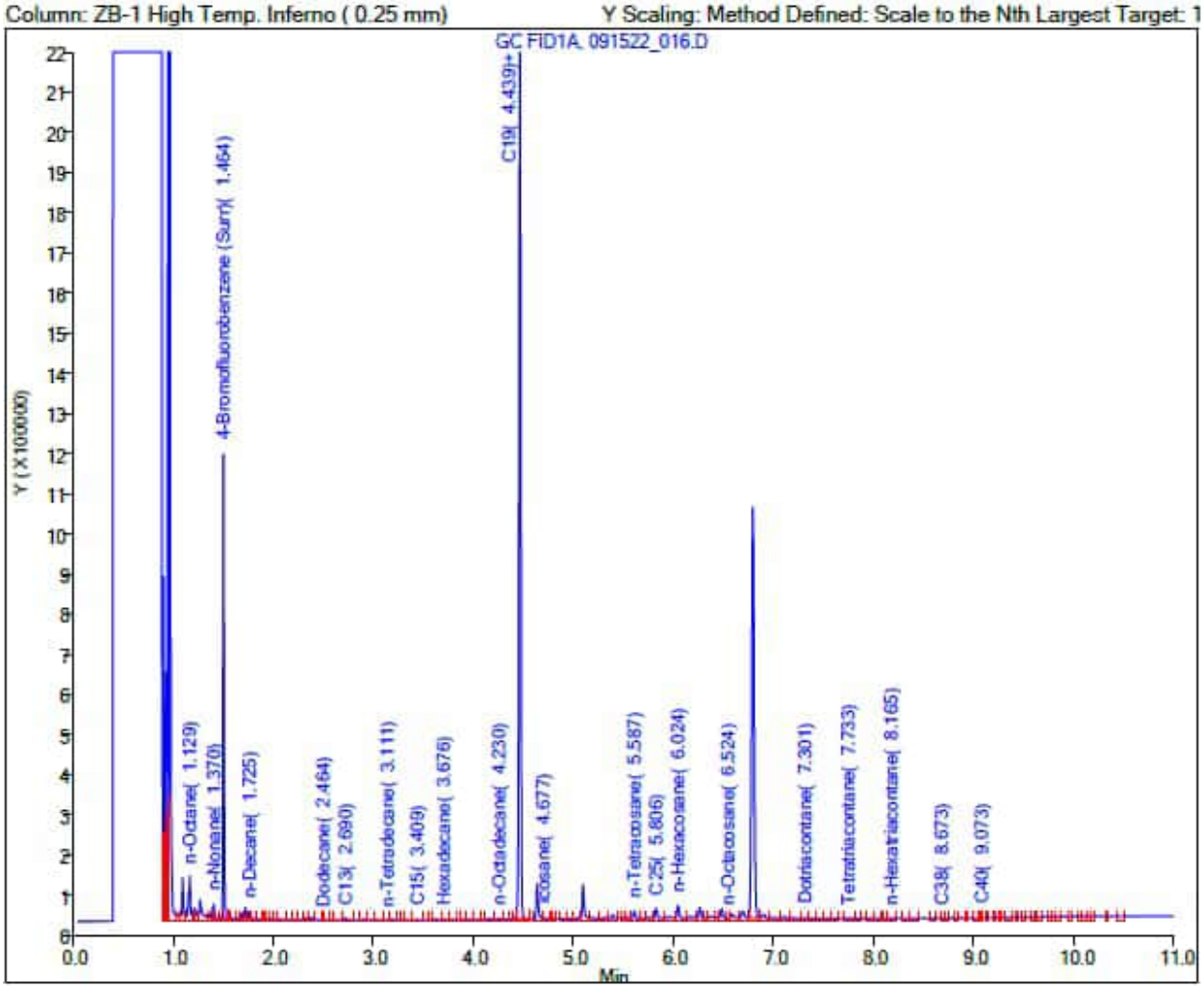
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Sep-2022 14:26:59 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_016.D				
Injection Date:	15-Sep-2022 22:46:30	Instrument ID:	TAC020		
Lims ID:	580-117801-A-10-A	Lab Sample ID:	580-117801-10		
Client ID:	OWDFMW04A-WGFD01LF-2209WK2				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

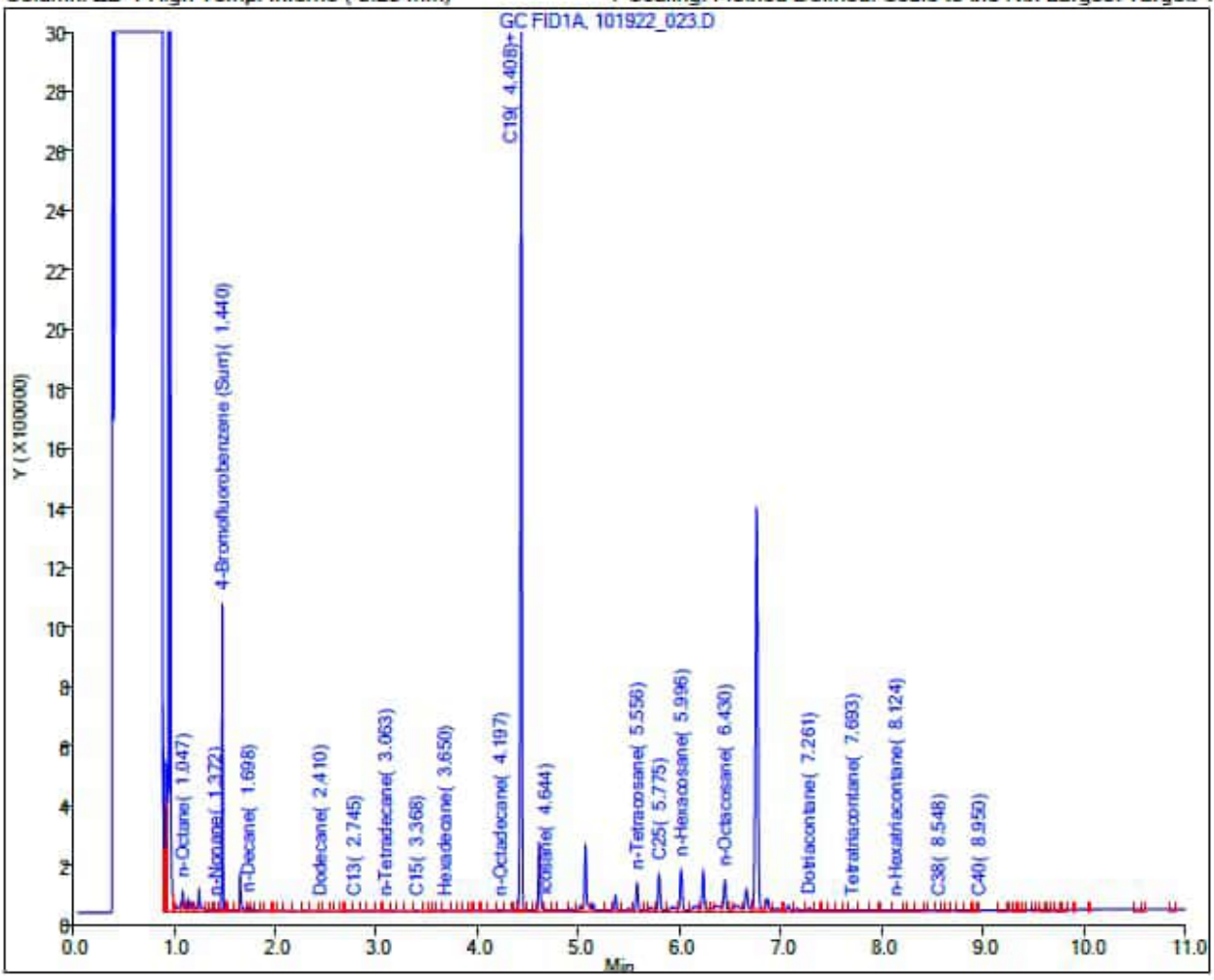
Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <290 U**

Report Date: 20-Oct-2022 13:41:14 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_023.D				
Injection Date:	19-Oct-2022 23:32:30	Instrument ID:	TAC020		
Lims ID:	580-118941-N-11-A	Lab Sample ID:	580-118941-11		
Client ID:	OWDFMW04A-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

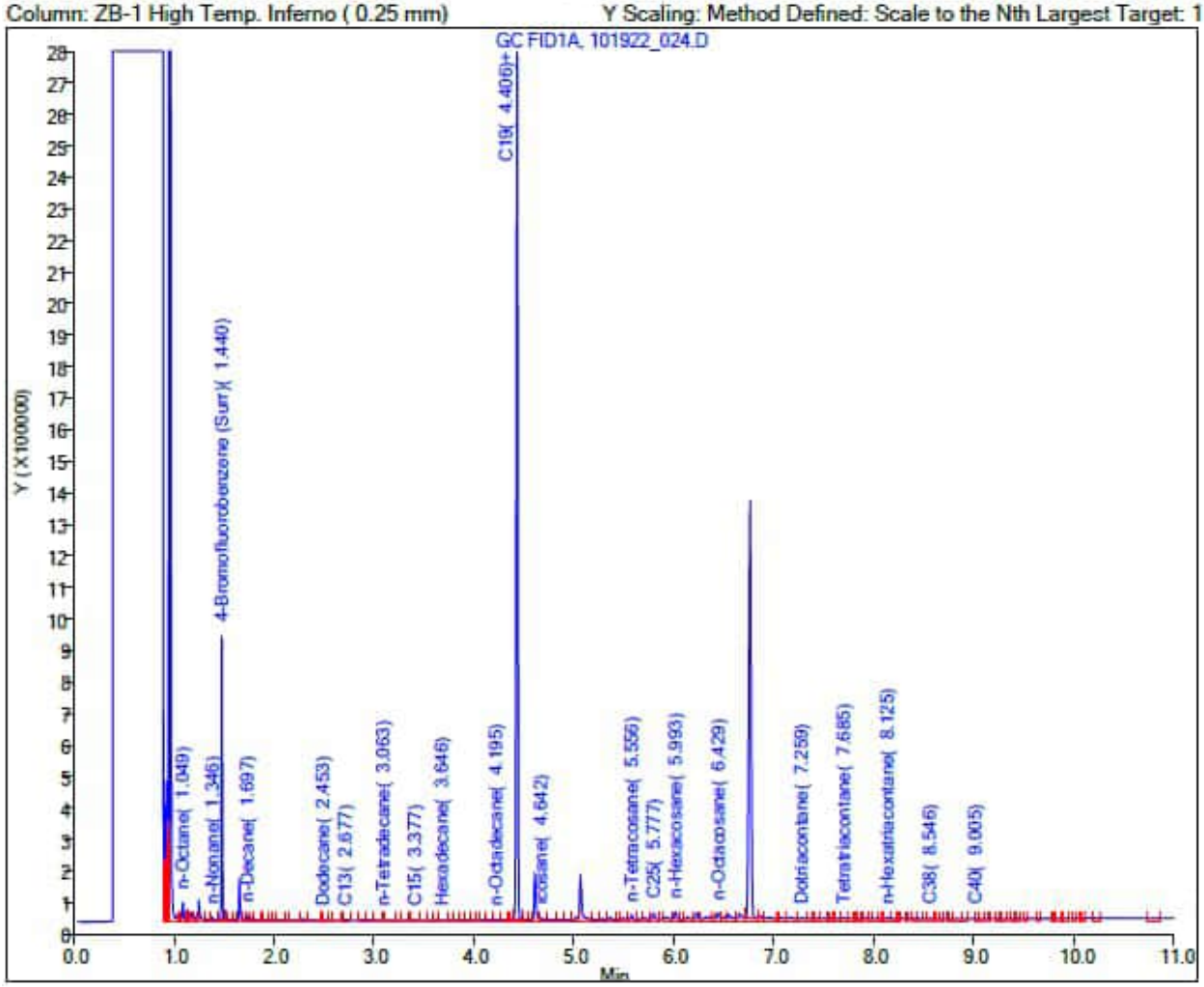
Results (ug/L): **TPH-d (C10 to C24) <98 U** **TPH-o (C24 to C40) <290 U**

Report Date: 20-Oct-2022 13:41:19 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_024.D				
Injection Date:	19-Oct-2022 23:52:30	Instrument ID:	TAC020		
Lims ID:	580-118941-G-13-A	Lab Sample ID:	580-118941-13		
Client ID:	OWDFMW04A-WGFD01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	23	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

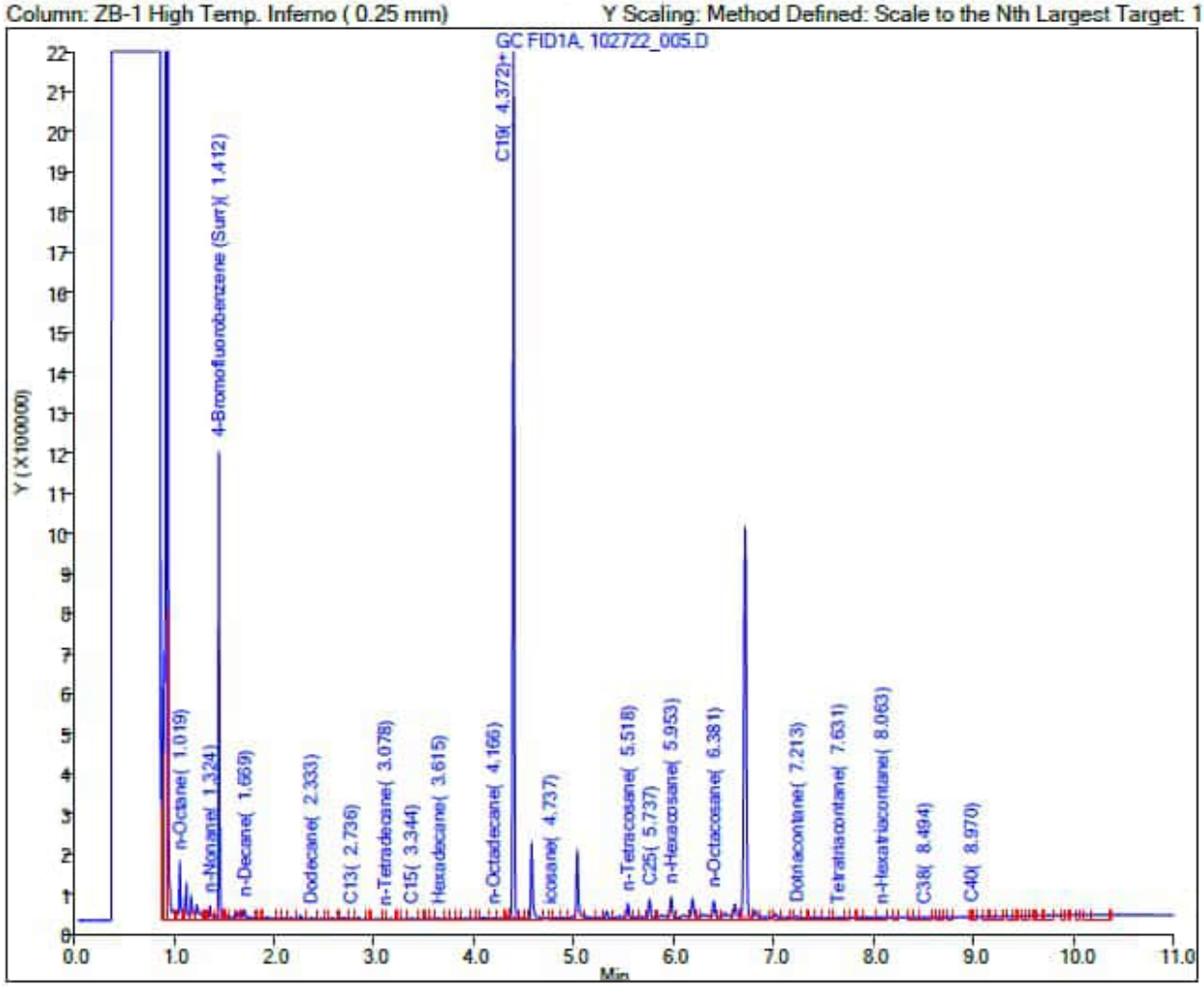
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 27-Oct-2022 20:40:43 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221027-85510.b\102722_005.D				
Injection Date:	27-Oct-2022 16:25:30	Instrument ID:	TAC020		
Lims ID:	580-118964-N-11-A	Lab Sample ID:	580-118964-11		
Client ID:	OWDFMW04A-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

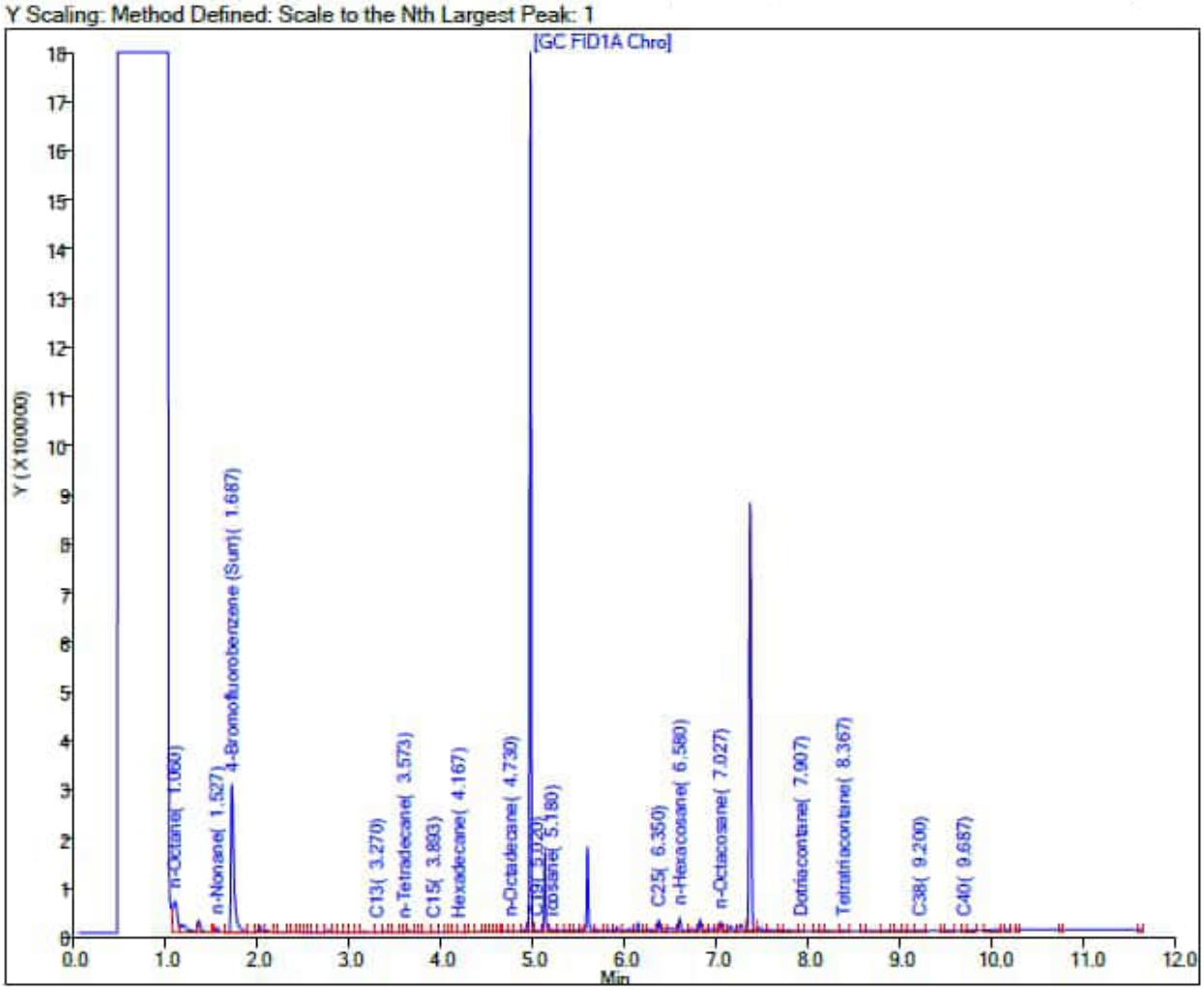
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Oct-2022 12:12:04 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A024.D				
Injection Date:	24-Oct-2022 21:04:52	Instrument ID:	TAC129		
Lims ID:	580-118964-J-13-A	Lab Sample ID:	580-118964-13		
Client ID:	OWDFMW04A-WGFD01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

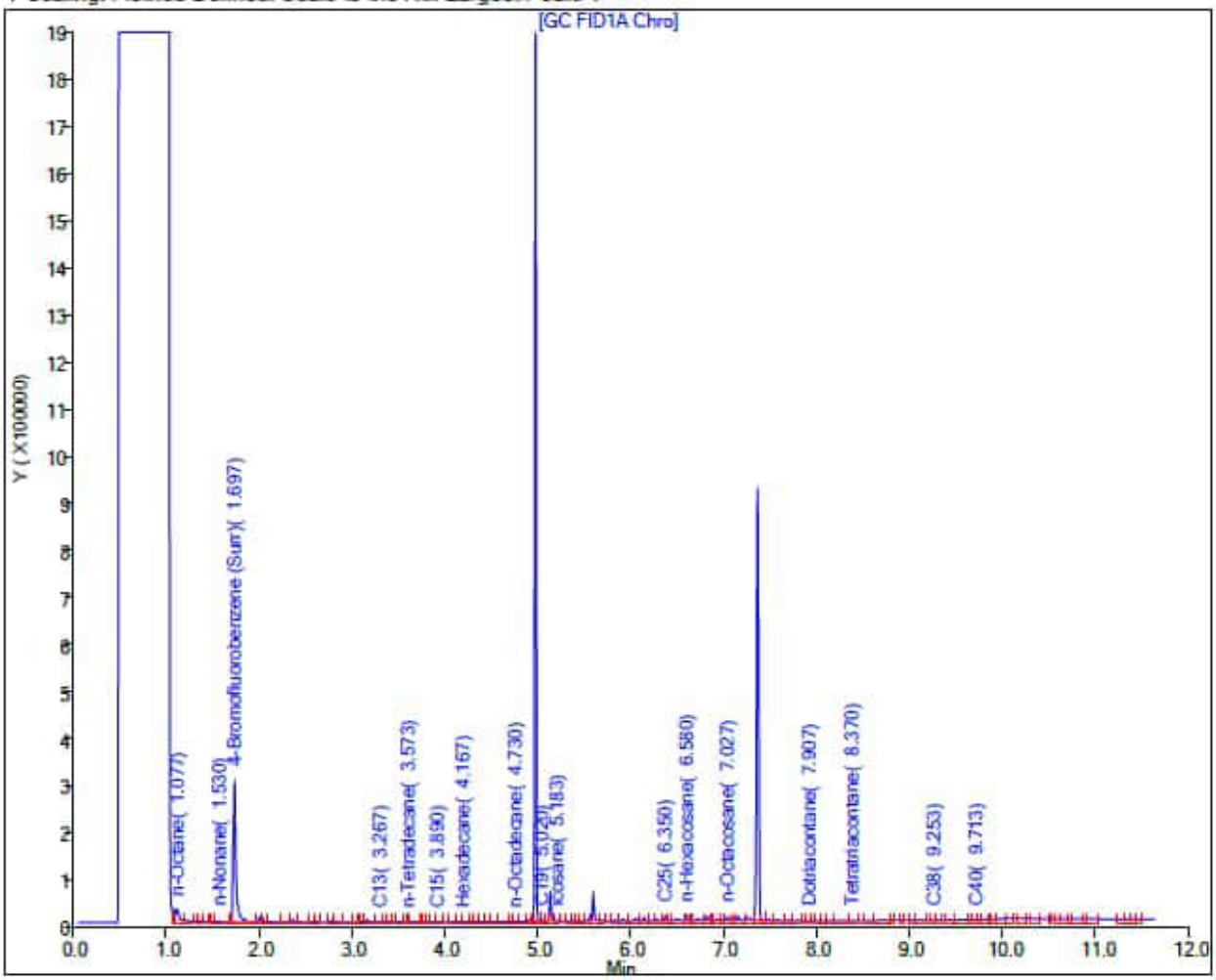
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:50:26 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A032.D				
Injection Date:	29-Oct-2022 00:17:52	Instrument ID:	TAC129		
Lims ID:	580-119163-O-3-A	Lab Sample ID:	580-119163-3		
Client ID:	OWDFMW04A-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

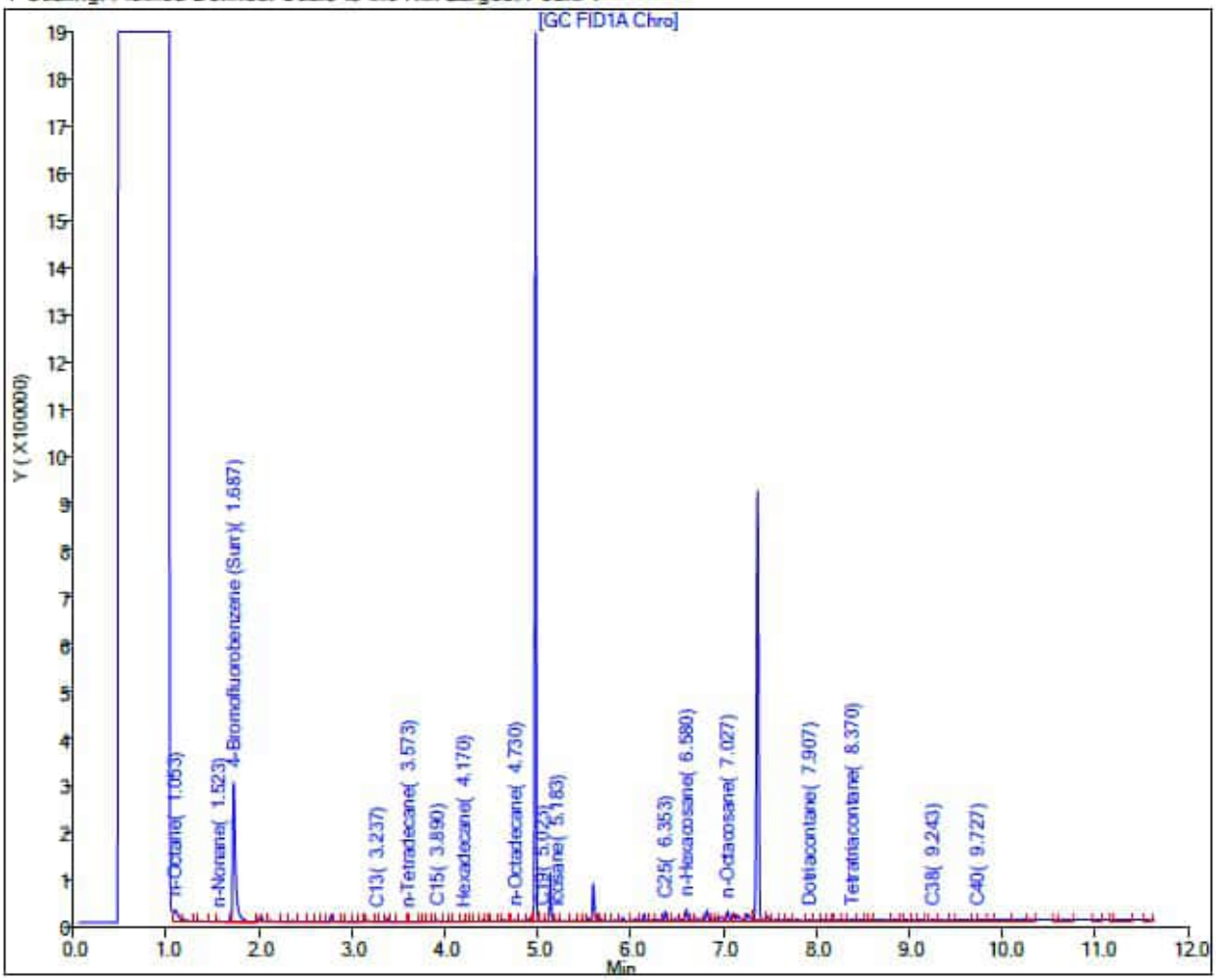
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:50:37 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A034.D				
Injection Date:	29-Oct-2022 00:36:33	Instrument ID:	TAC129		
Lims ID:	580-119163-J-5-A	Lab Sample ID:	580-119163-5		
Client ID:	OWDFMW04A-WGFD02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

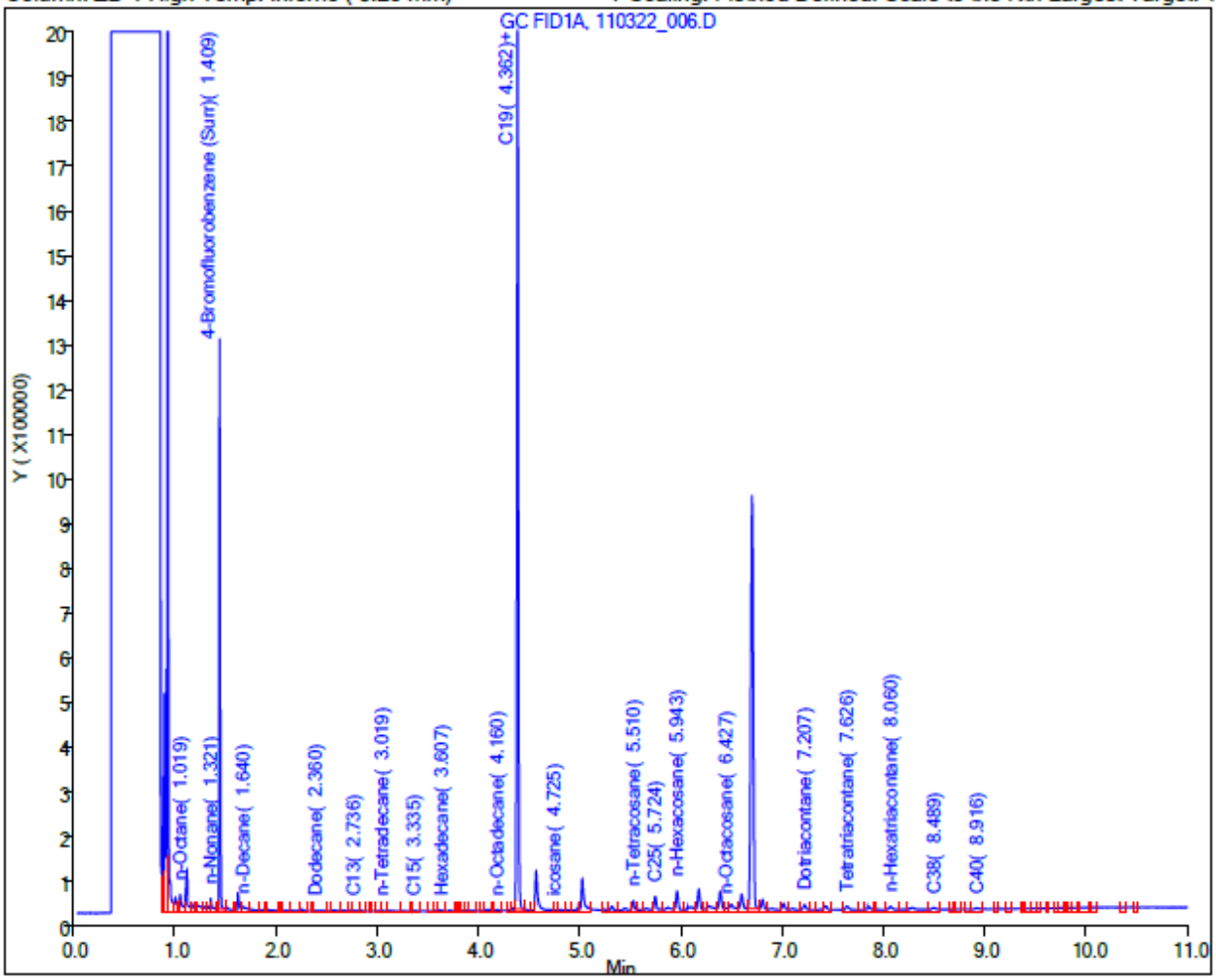
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 03-Nov-2022 20:11:22 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_006.D				
Injection Date:	03-Nov-2022 16:31:30	Instrument ID:	TAC020		
Lims ID:	580-119371-D-6-A	Lab Sample ID:	580-119371-6		
Client ID:	OWDFMW04A-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	5	Worklist Smp#:	31
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

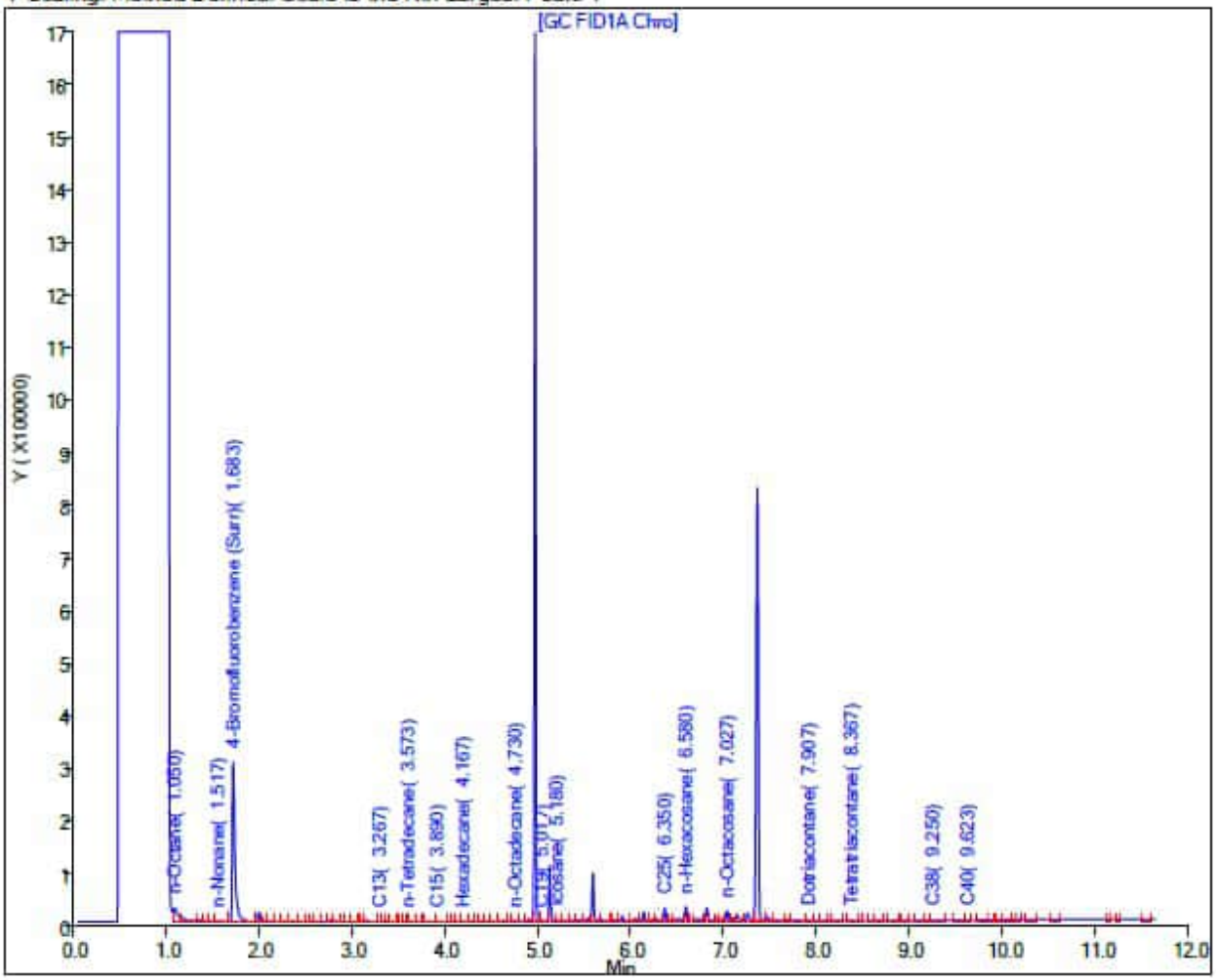
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 14:11:43 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A030.D				
Injection Date:	02-Nov-2022 21:35:38	Instrument ID:	TAC129		
Lims ID:	580-119371-D-8-A	Lab Sample ID:	580-119371-8		
Client ID:	OWDFMW04A-WGFD01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

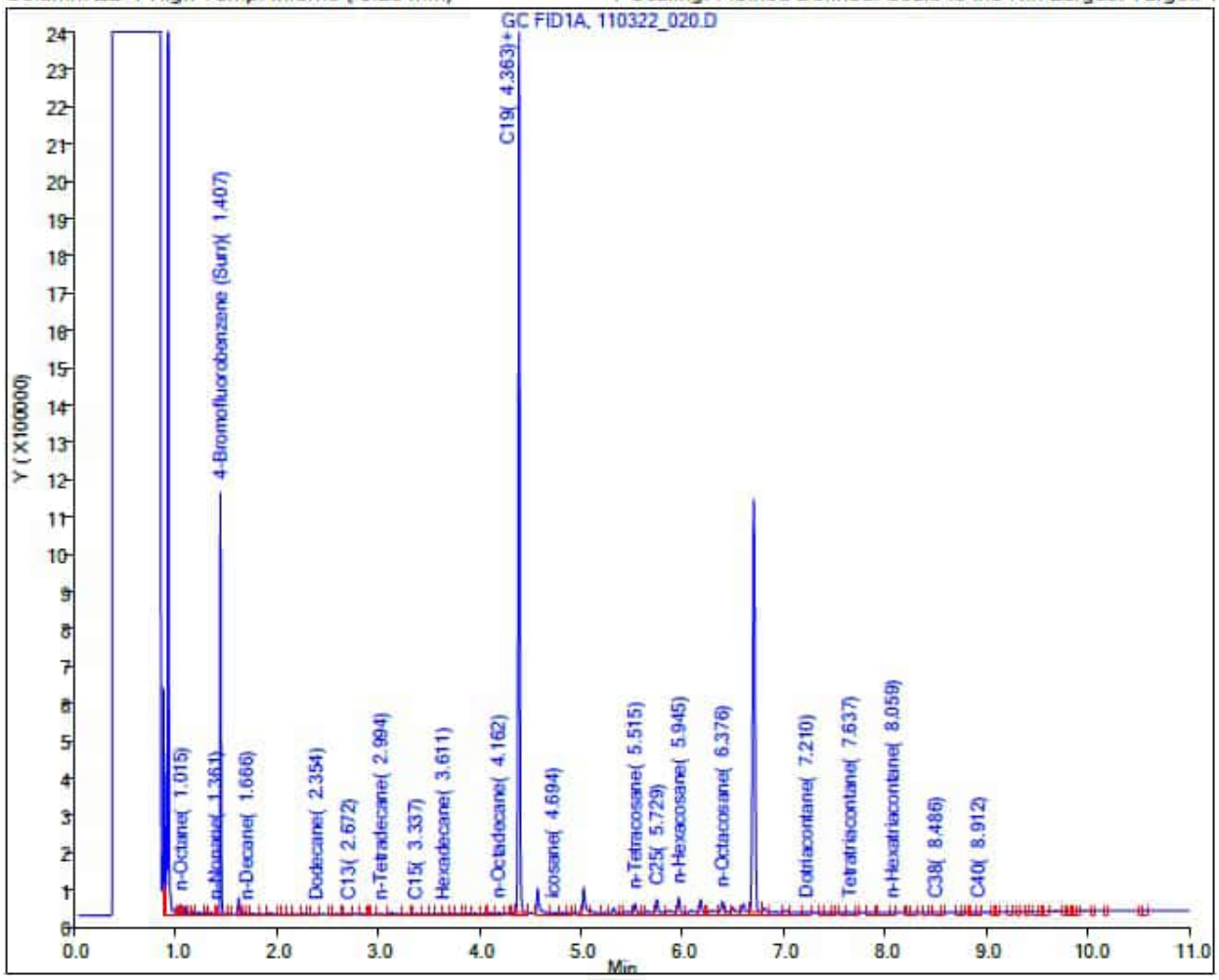
Results (ug/L): **TPH-d (C10 to C24) <94 U** **TPH-o (C24 to C40) <280 U**

Report Date: 04-Nov-2022 13:44:15 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_020.D				
Injection Date:	03-Nov-2022 21:13:30	Instrument ID:	TAC020		
Lims ID:	580-119483-N-10-A	Lab Sample ID:	580-119483-10		
Client ID:	OWDFMW04A-WGN02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	19	Worklist Smp#:	45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

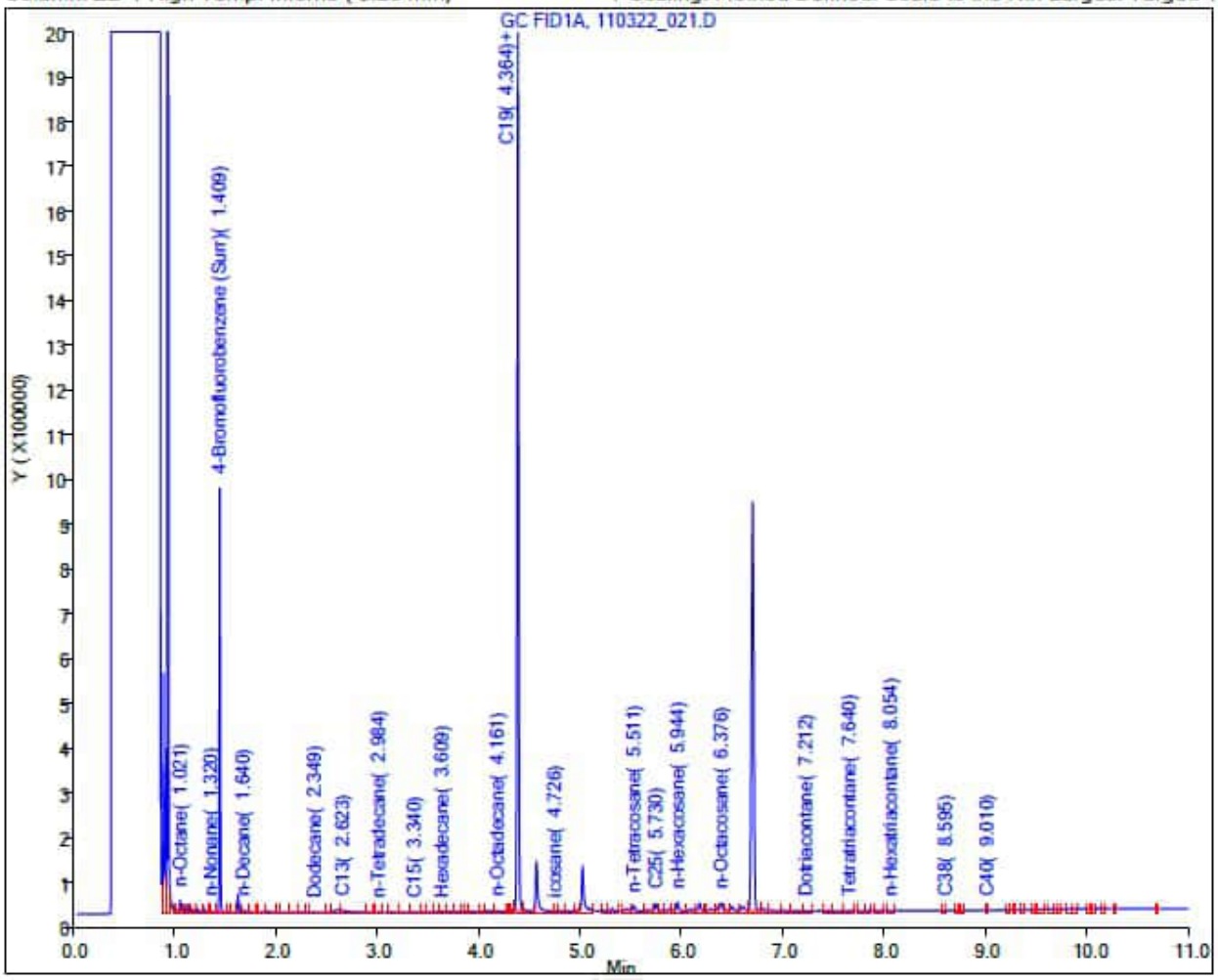
Results (ug/L): **TPH-d (C10 to C24) <93 U** **TPH-o (C24 to C40) <280 U**

Report Date: 04-Nov-2022 13:44:20 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_021.D				
Injection Date:	03-Nov-2022 21:33:30	Instrument ID:	TAC020		
Lims ID:	580-119483-I-12-A	Lab Sample ID:	580-119483-12		
Client ID:	OWDFMW04A-WGFD02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

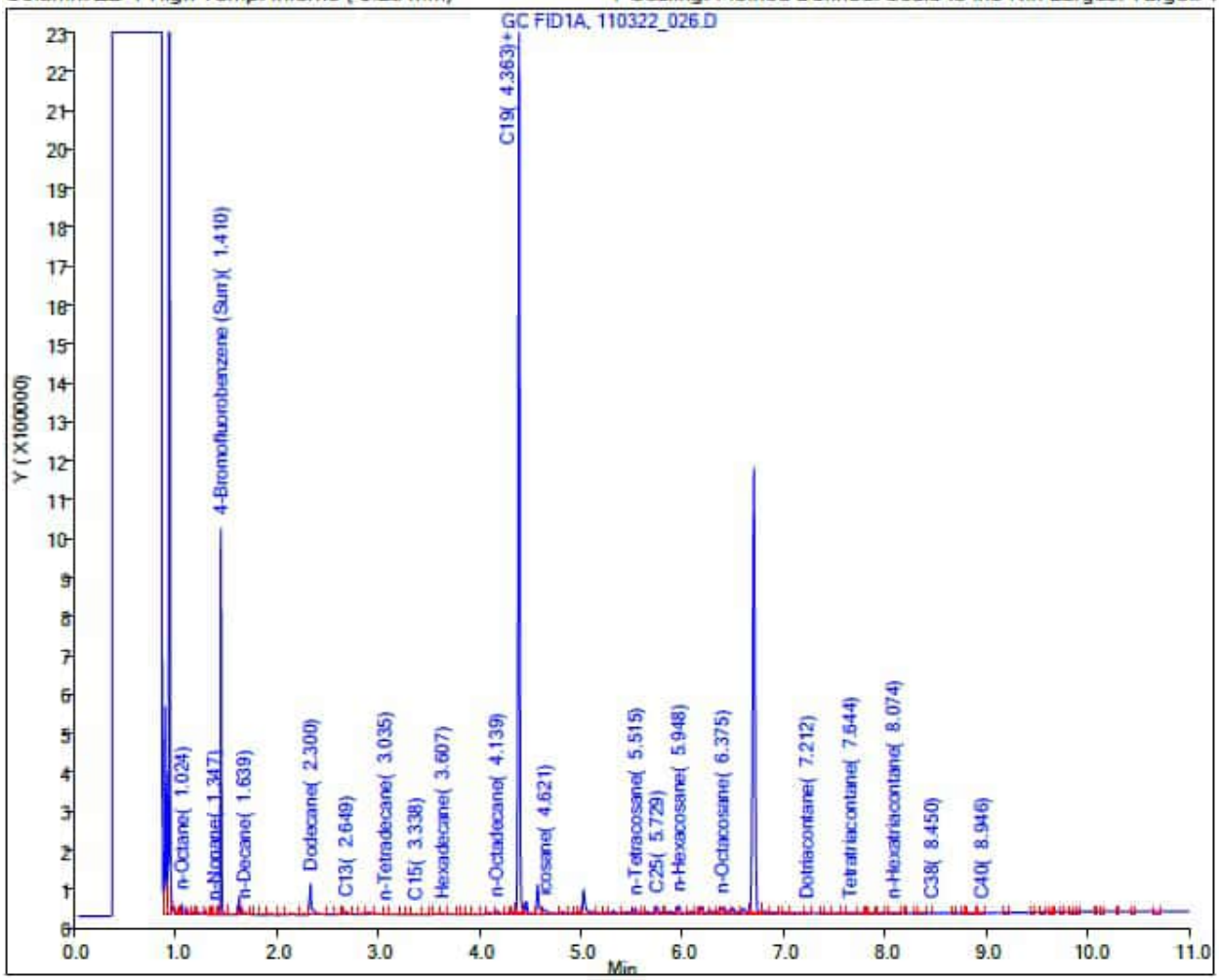
Results (ug/L): **TPH-d (C10 to C24) <83 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 13:45:00 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_026.D				
Injection Date:	03-Nov-2022 23:14:30	Instrument ID:	TAC020		
Lims ID:	580-119483-N-3-A	Lab Sample ID:	580-119483-3		
Client ID:	OWDFMW04A-WGN01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

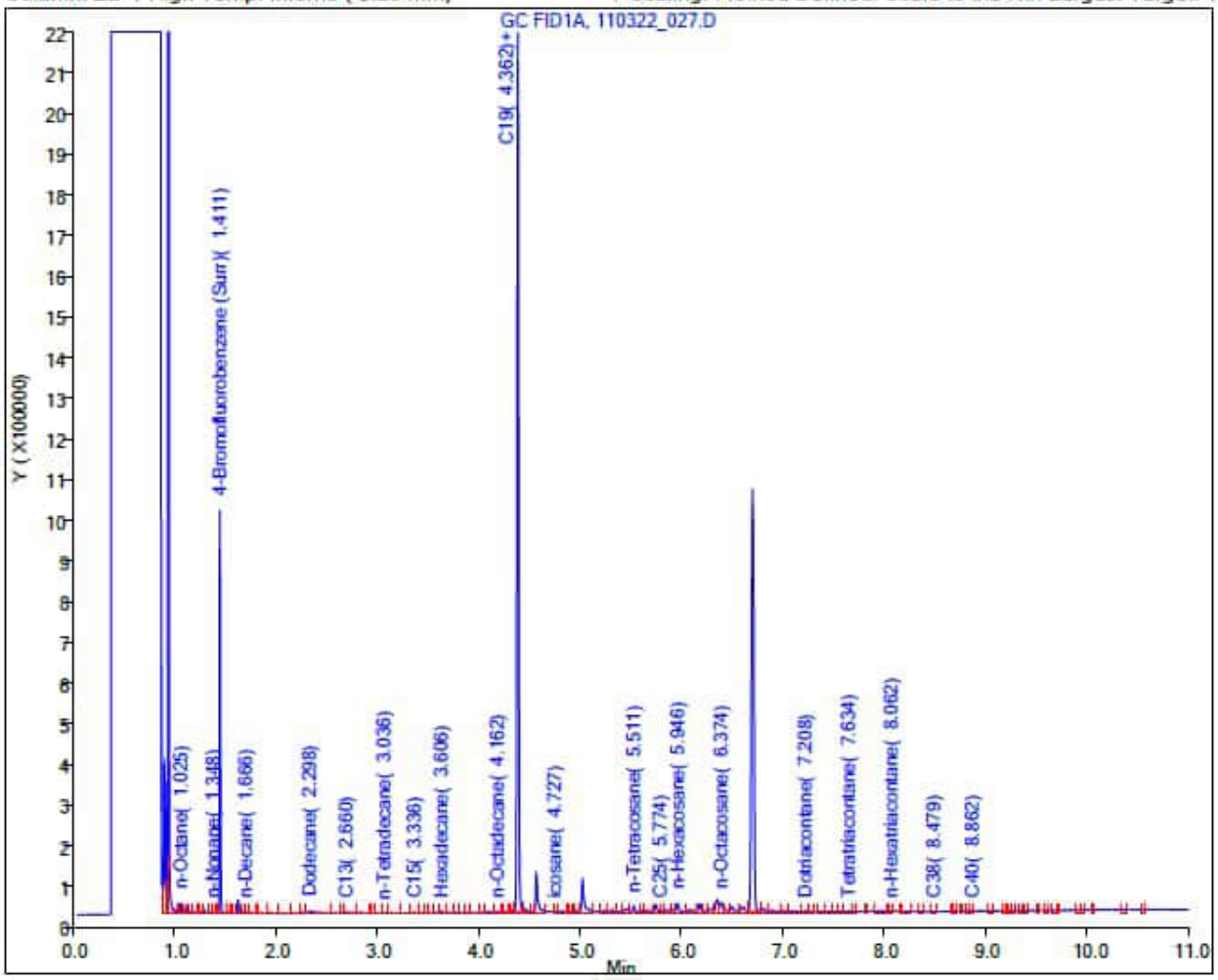
Results (ug/L): **TPH-d (C10 to C24) <83 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 13:45:06 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_027.D				
Injection Date:	03-Nov-2022 23:34:30	Instrument ID:	TAC020		
Lims ID:	580-119483-J-5-A	Lab Sample ID:	580-119483-5		
Client ID:	OWDFMW04A-WGFD01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	26	Worklist Smp#:	52
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

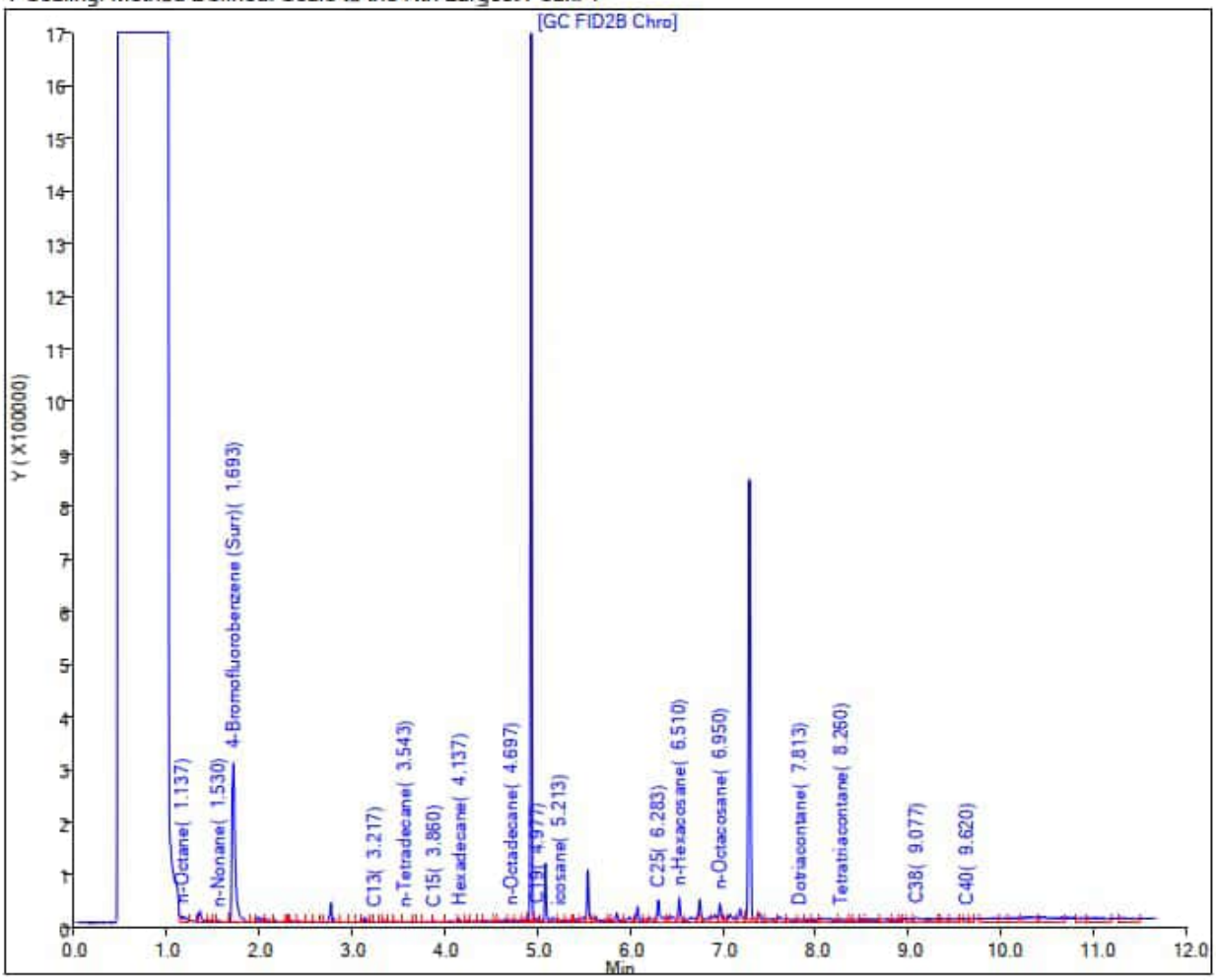
Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 11-Nov-2022 16:01:19 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A033.D		
Injection Date:	10-Nov-2022 23:30:45	Instrument ID:	TAC129_R
Lims ID:	580-119745-O-8-A	Lab Sample ID:	580-119745-8
Client ID:	OWDFMW04A-WGN02LF-2210WK5		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 45
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

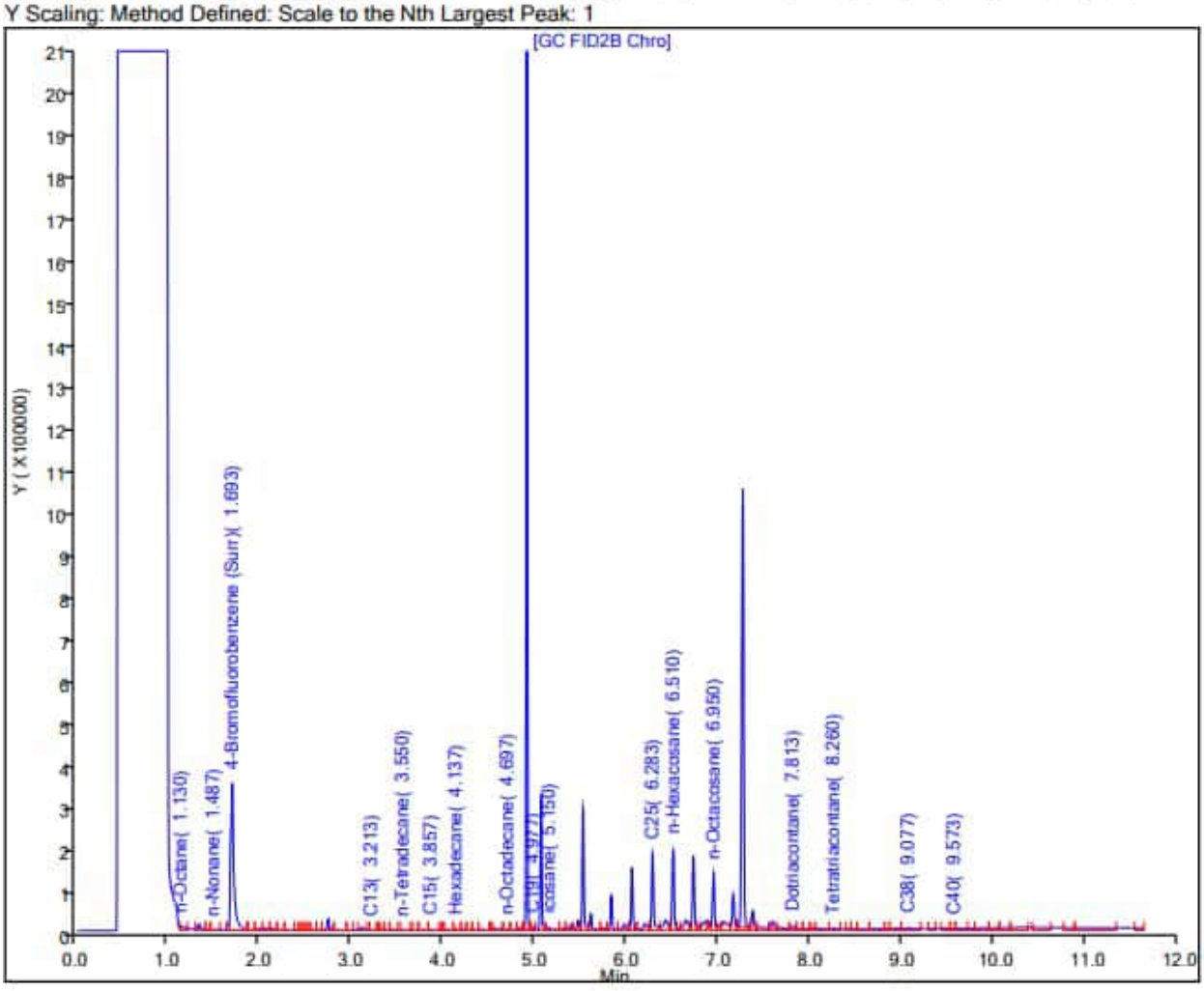
Results (ug/L): **TPH-d (C10 to C24) 69 J** **TPH-o (C24 to C40) <250 U**

Report Date: 11-Nov-2022 16:01:22 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A035.D				
Injection Date:	10-Nov-2022 23:49:10	Instrument ID:	TAC129_R		
Lims ID:	580-119745-J-10-A	Lab Sample ID:	580-119745-10		
Client ID:	OWDFMW04A-WGFD02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



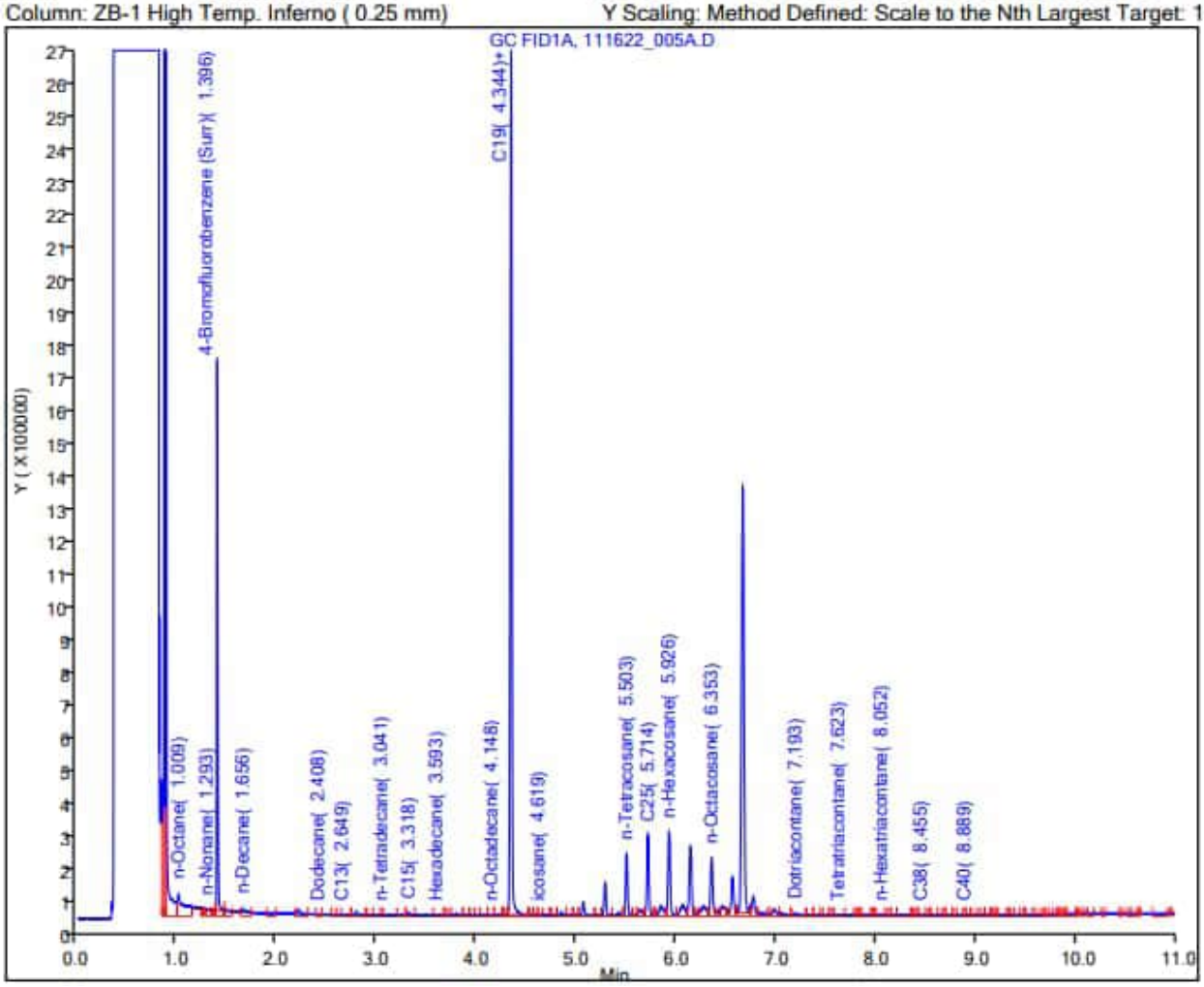
Results (ug/L): **TPH-d SGC (C10 to C24) 73 J** **TPH-o SGC (C24 to C40) <250 U**

Report Date: 16-Nov-2022 19:42:22 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221116-85824.b\111622_005A.D				
Injection Date:	16-Nov-2022 15:49:30	Instrument ID:	TAC020		
Lims ID:	580-119745-J-10-B	Lab Sample ID:	580-119745-10		
Client ID:	OWDFMW04A-WGFD02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	4	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2211WK1 Sample Date: 11/8/2022
Lab: Eurofins Seattle

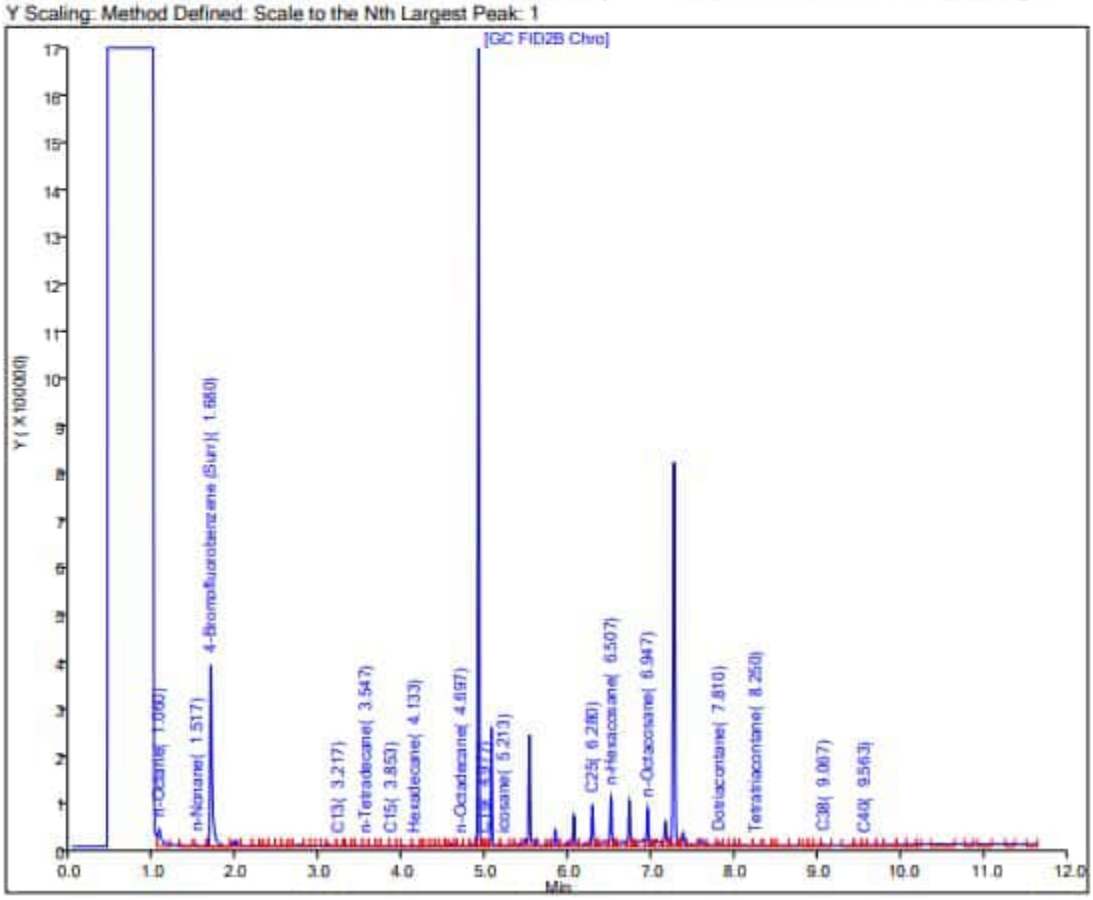
Results (ug/L): **TPH-d (C10 to C24) <110 U** **TPH-o (C24 to C40) <320 U**

Report Date: 15-Nov-2022 19:16:12 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A041.D				
Injection Date:	15-Nov-2022 04:52:04	Instrument ID:	TAC129_R		
Lims ID:	580-119919-I-5-A	Lab Sample ID:	580-119919-5		
Client ID:	OWDFMW04A-WGFD01LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2211WK1 Sample Date: 11/8/2022
Lab: Eurofins Seattle

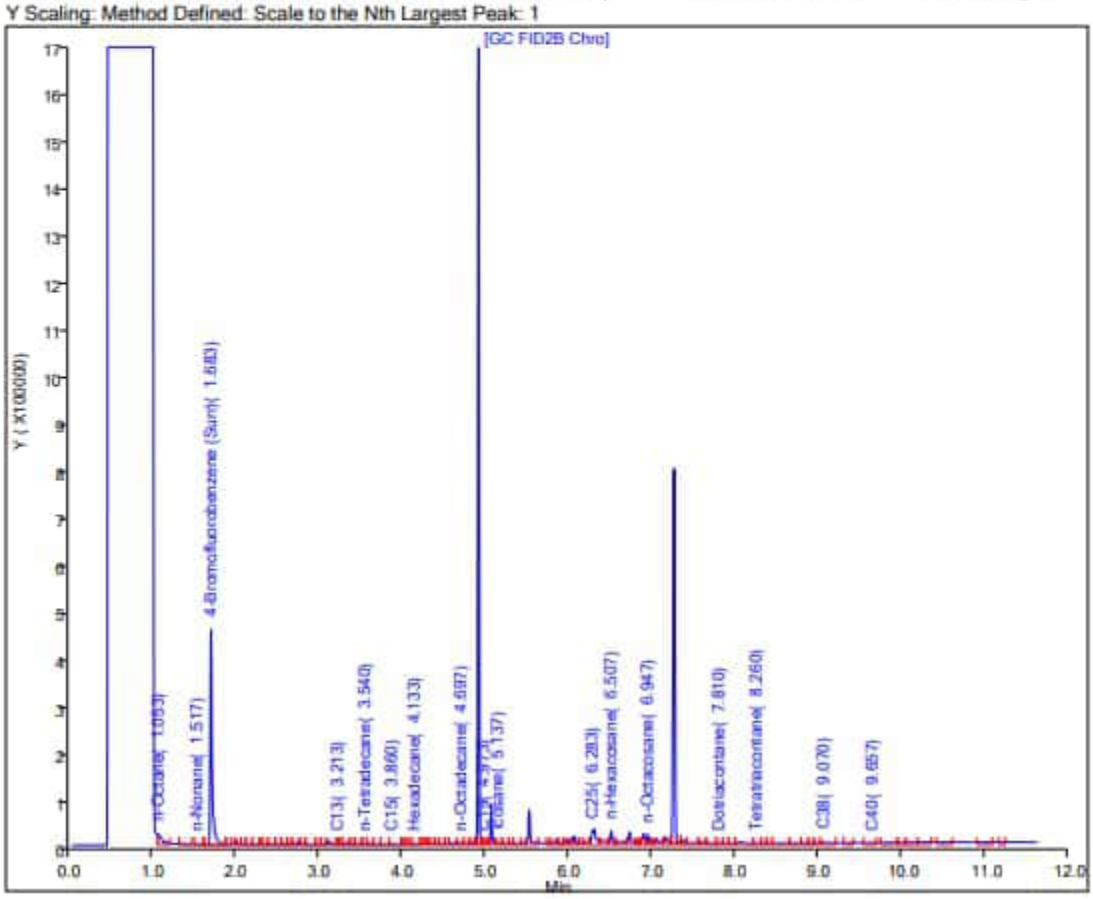
Results (ug/L): **TPH-d (C10 to C24) <99 U** **TPH-o (C24 to C40) <300 U**

Report Date: 15-Nov-2022 19:16:10 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A039.D				
Injection Date:	15-Nov-2022 04:33:33	Instrument ID:	TAC129_R		
Lims ID:	580-119919-O-3-A	Lab Sample ID:	580-119919-3		
Client ID:	OWDFMW04A-WGN01LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

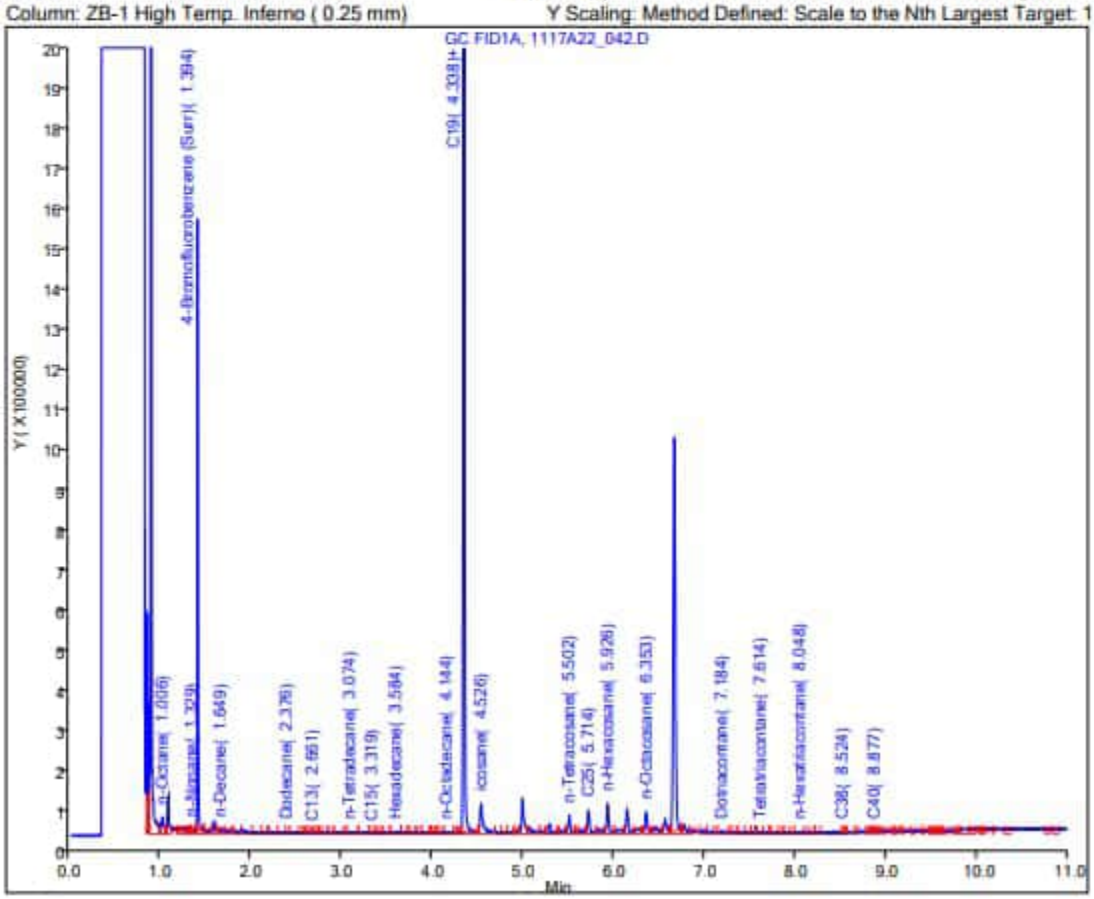
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 12:03:45 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_042.D		
Injection Date:	18-Nov-2022 09:23:30	Instrument ID:	TAC020
Lims ID:	580-120006-N-12-A	Lab Sample ID:	580-120006-12
Client ID:	OWDFMW04A-WGN02LF-2211WK1		
Operator ID:	DH/CC	ALS Bottle#:	41 Worklist Smp#: 44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

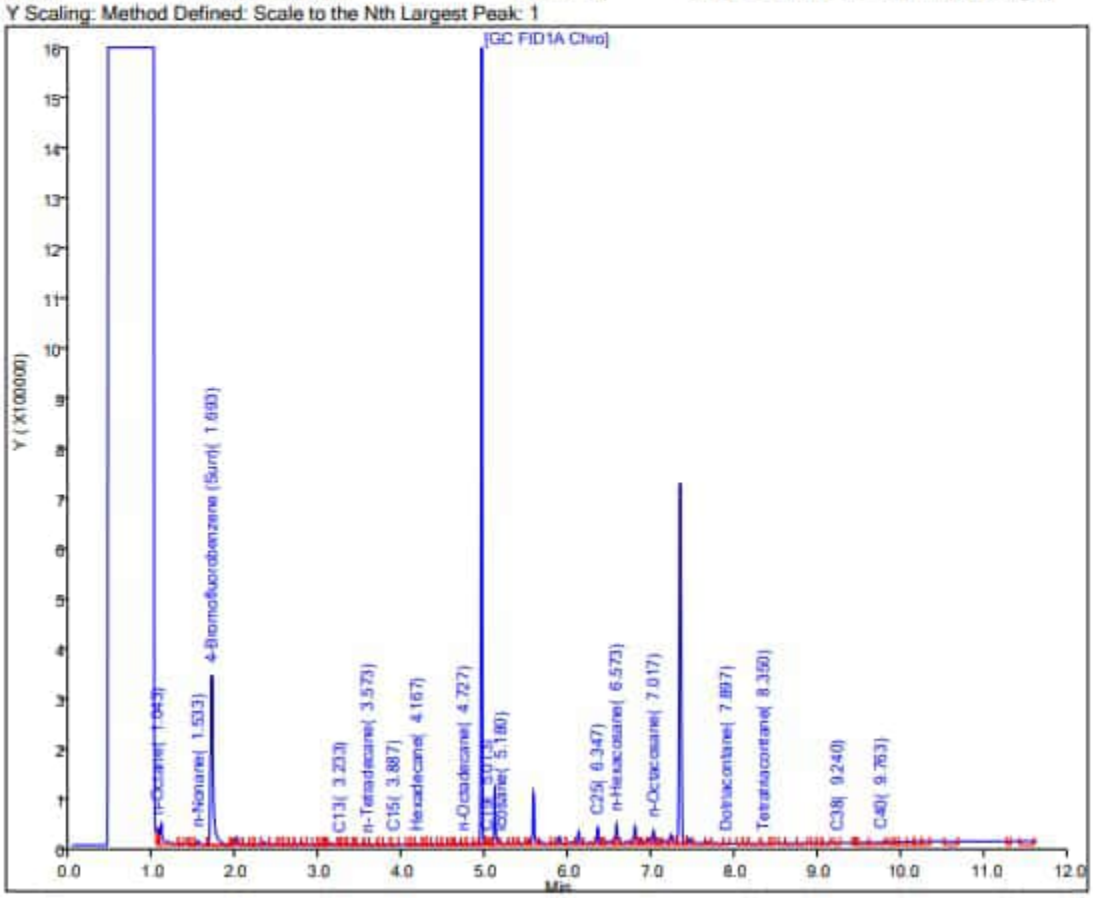
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 17-Nov-2022 11:38:00 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221116-85833.b\1116z22A022.D				
Injection Date:	17-Nov-2022 01:12:05	Instrument ID:	TAC129		
Lims ID:	580-120006-J-14-A	Lab Sample ID:	580-120006-14		
Client ID:	OWDFMW04A-WGFD02LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

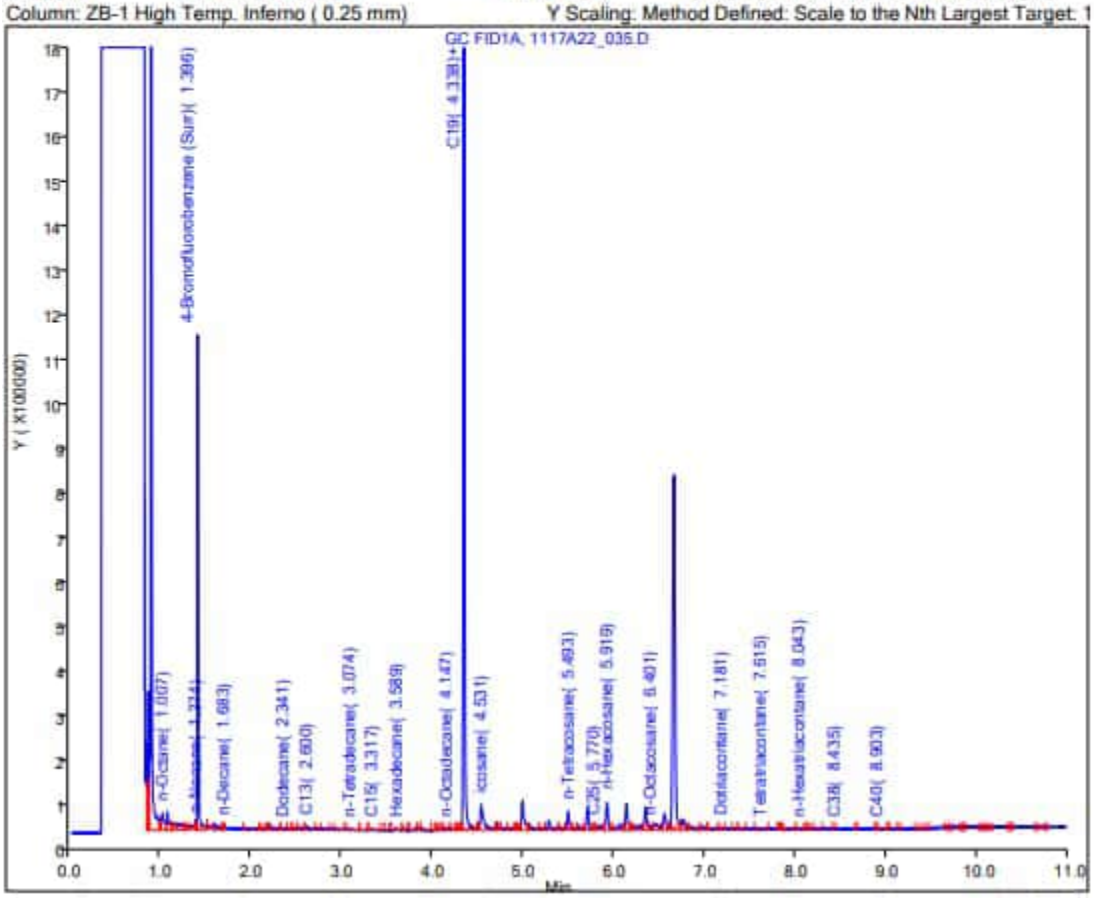
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 12:02:28 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_035.D		
Injection Date:	18-Nov-2022 07:02:30	Instrument ID:	TAC020
Lims ID:	580-120022-N-14-A	Lab Sample ID:	580-120022-14
Client ID:	OWDFMW04A-WGN01LF-2211WK2		
Operator ID:	DH/CC	ALS Bottle#:	34 Worklist Smp#: 37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

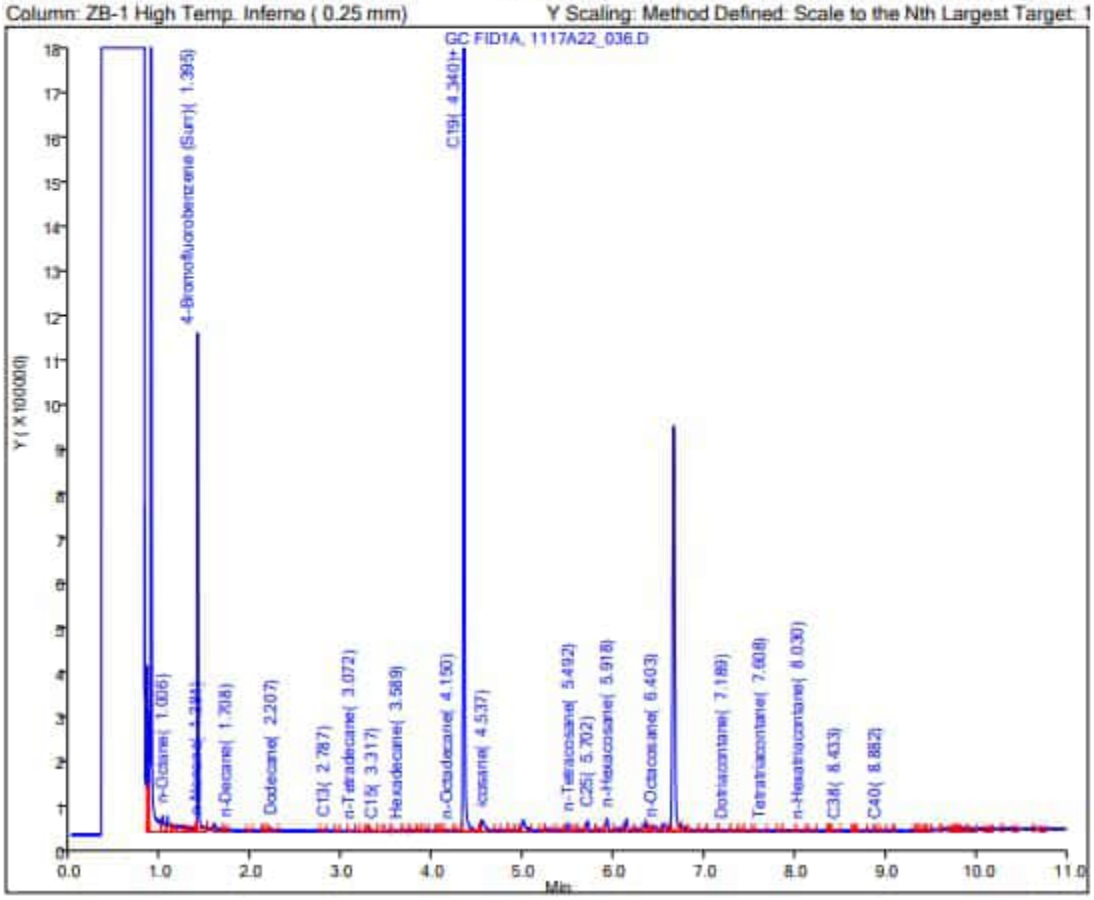
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 12:02:32 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_036.D				
Injection Date:	18-Nov-2022 07:22:30	Instrument ID:	TAC020		
Lims ID:	580-120022-I-16-A	Lab Sample ID:	580-120022-16		
Client ID:	OWDFMW04A-WGFD01LF-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	35	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN02LF-2211WK2 Sample Date: 11/18/2022
Lab: Eurofins Seattle

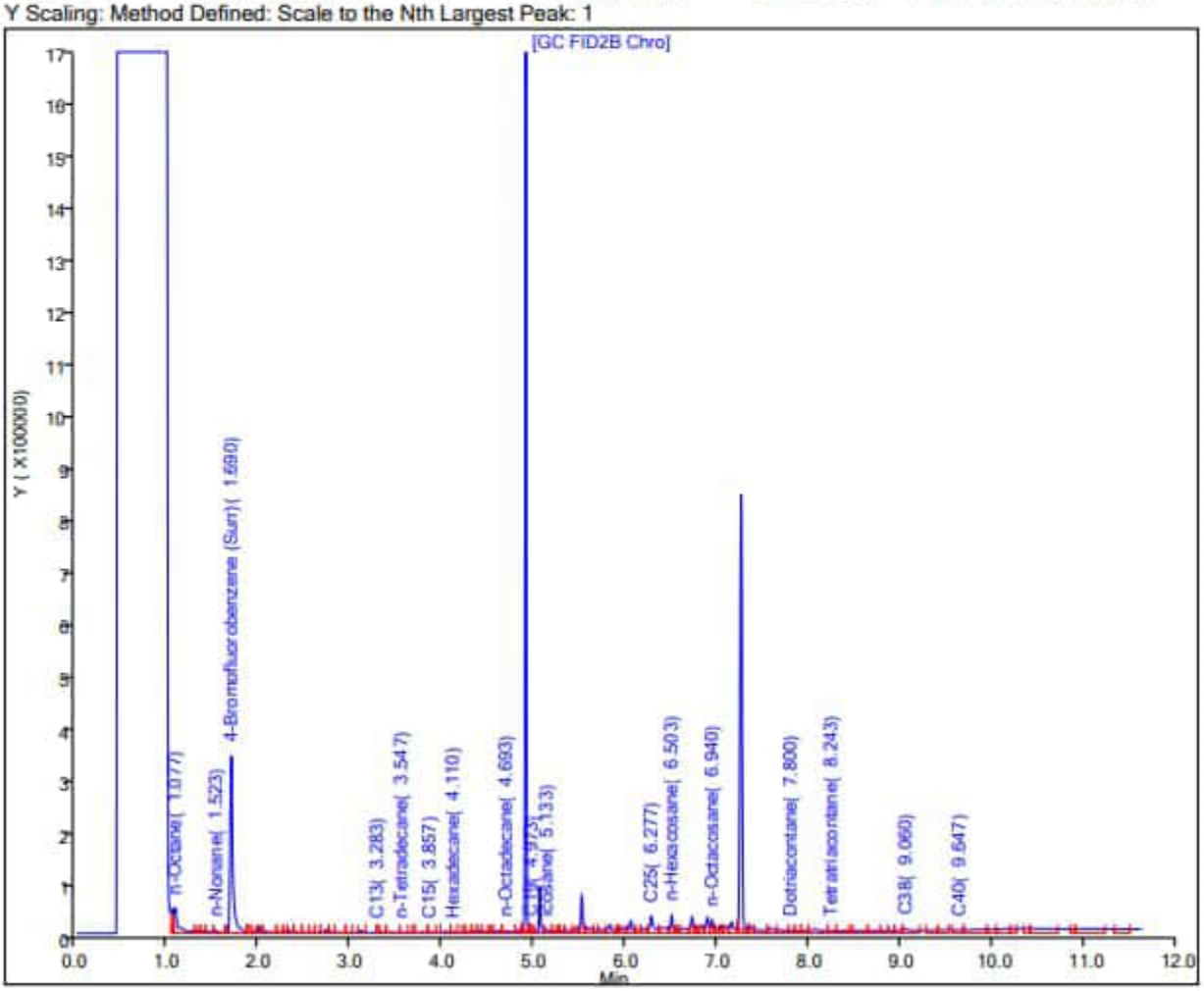
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:24:10 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A033.D		
Injection Date:	28-Nov-2022 21:09:35	Instrument ID:	TAC129_R
Lims ID:	580-120243-O-1-A	Lab Sample ID:	580-120243-1
Client ID:	OWDFMW04A-WGN02LF-2211WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 17
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD02LF-2211WK2 Sample Date: 11/18/2022
Lab: Eurofins Seattle

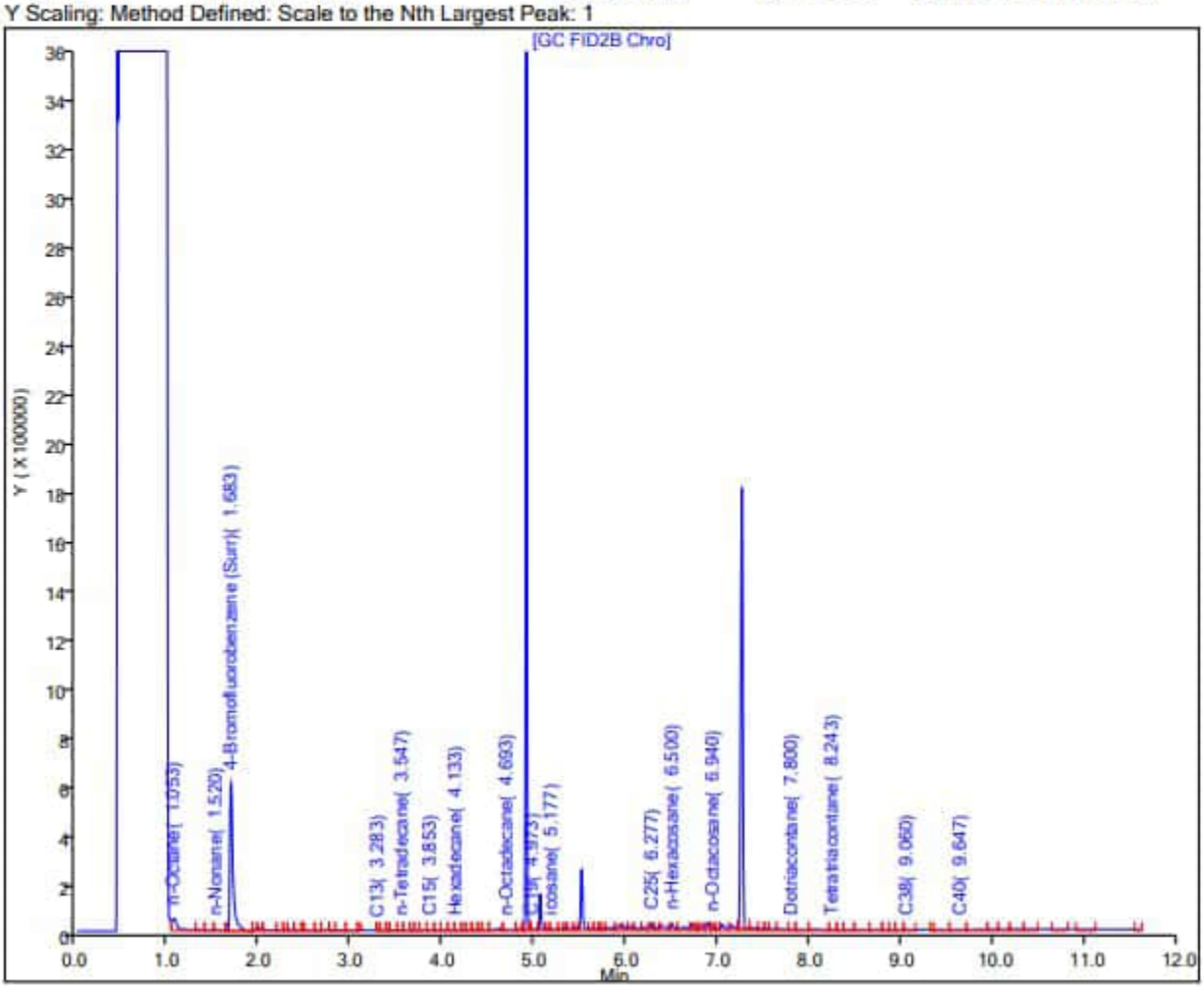
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:24:13 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A035.D				
Injection Date:	28-Nov-2022 21:28:06	Instrument ID:	TAC129_R		
Lims ID:	580-120243-J-3-A	Lab Sample ID:	580-120243-3		
Client ID:	OWDFMW04A-WGFD02LF-2211WK2				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

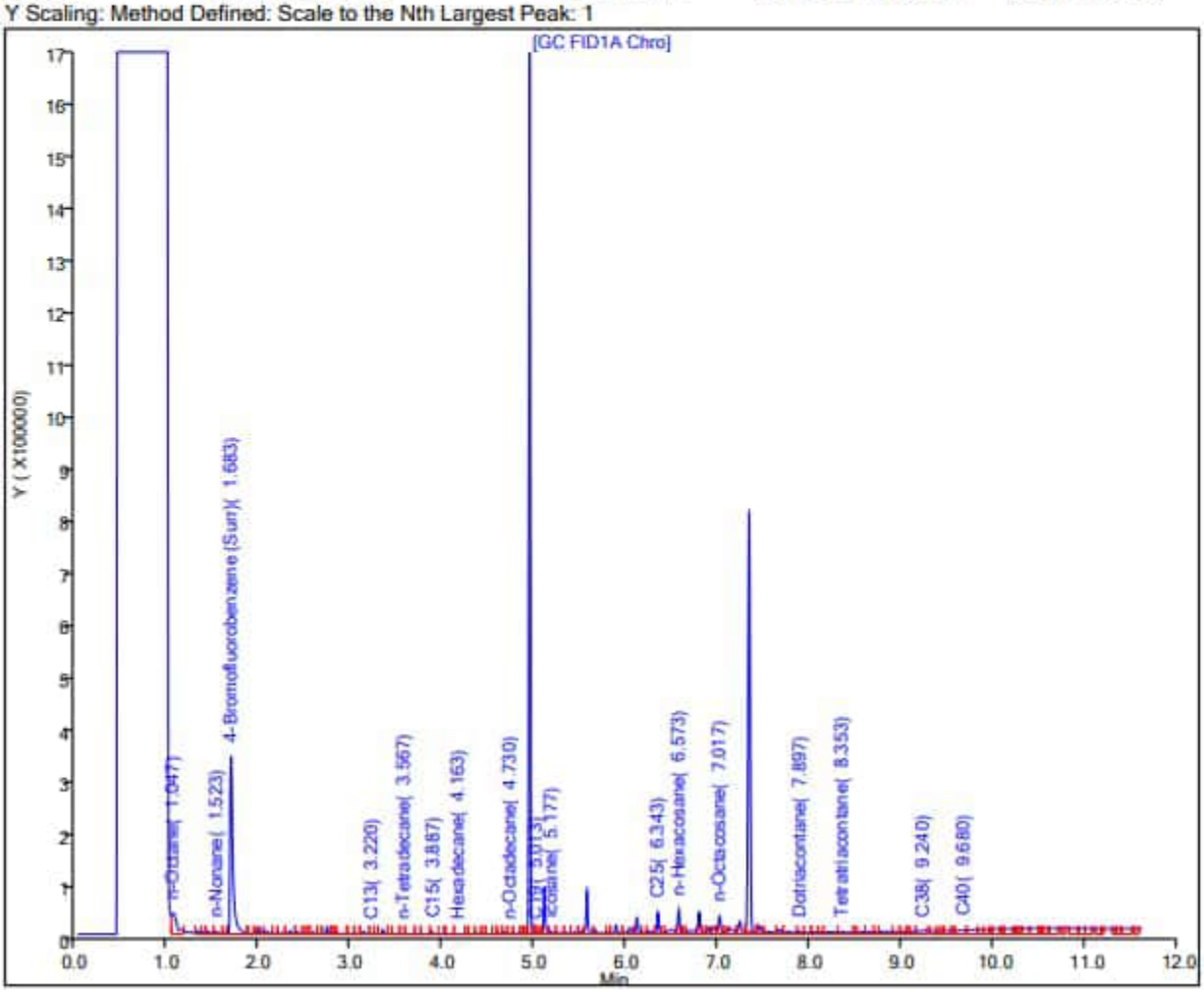
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:46 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A032.D				
Injection Date:	29-Nov-2022 22:45:05	Instrument ID:	TAC129		
Lims ID:	580-120389-O-5-A	Lab Sample ID:	580-120389-5		
Client ID:	OWDFMW04A-WGN01LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

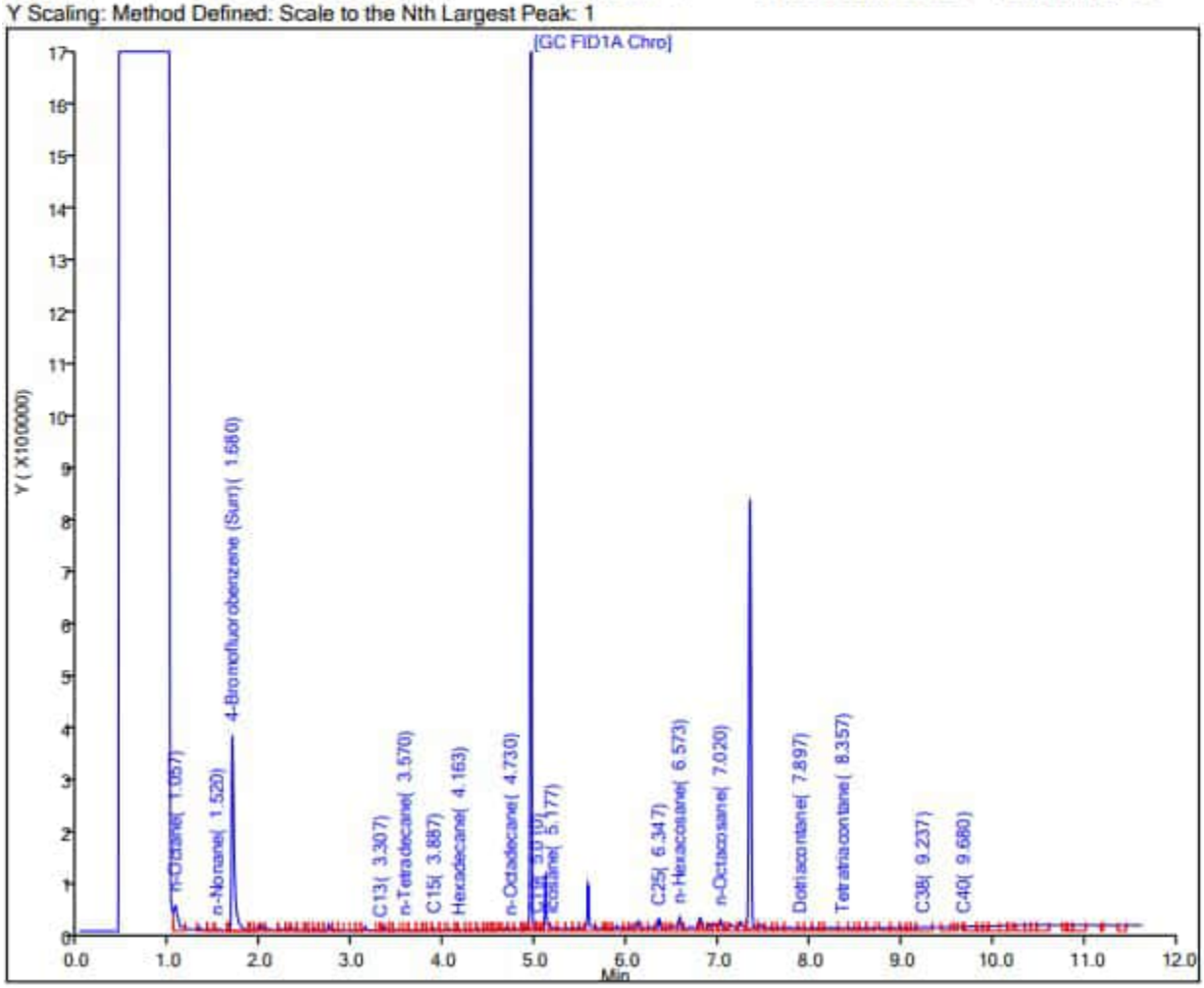
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:50 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A034.D				
Injection Date:	29-Nov-2022 23:03:42	Instrument ID:	TAC129		
Lims ID:	580-120389-I-7-A	Lab Sample ID:	580-120389-7		
Client ID:	OWDFMW04A-WGFD01LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	64
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGN01LF-2211WK4 Sample Date: 12/1/2022
Lab: Eurofins Seattle

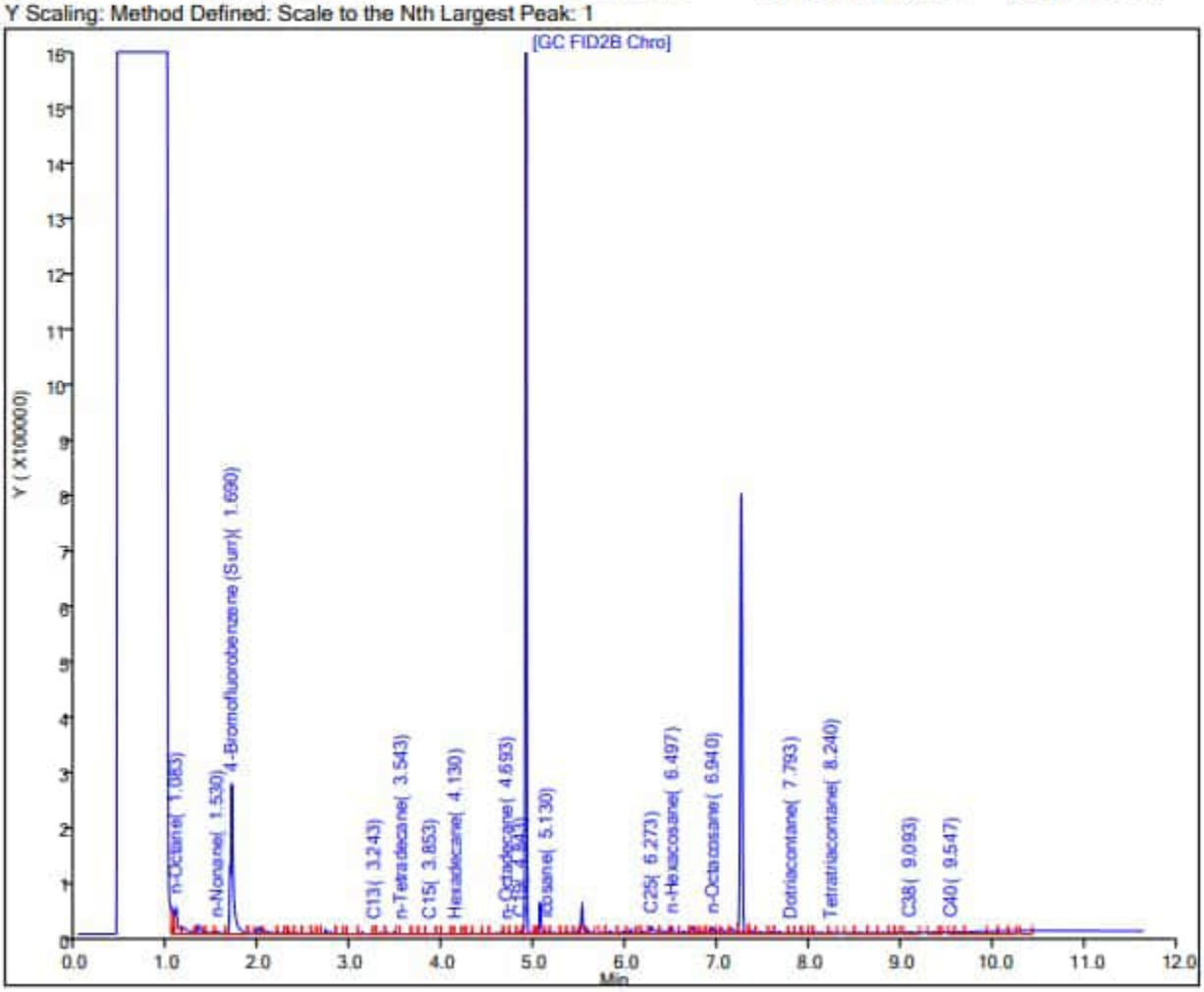
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 07-Dec-2022 12:59:54 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A039.D				
Injection Date:	07-Dec-2022 02:23:42	Instrument ID:	TAC129_R		
Lims ID:	580-120703-N-5-A	Lab Sample ID:	580-120703-5		
Client ID:	OWDFMW04A-WGN01LF-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW04A** Sample ID: OWDFMW04A-WGFD01LF-2211WK4 Sample Date: 12/1/2022
Lab: Eurofins Seattle

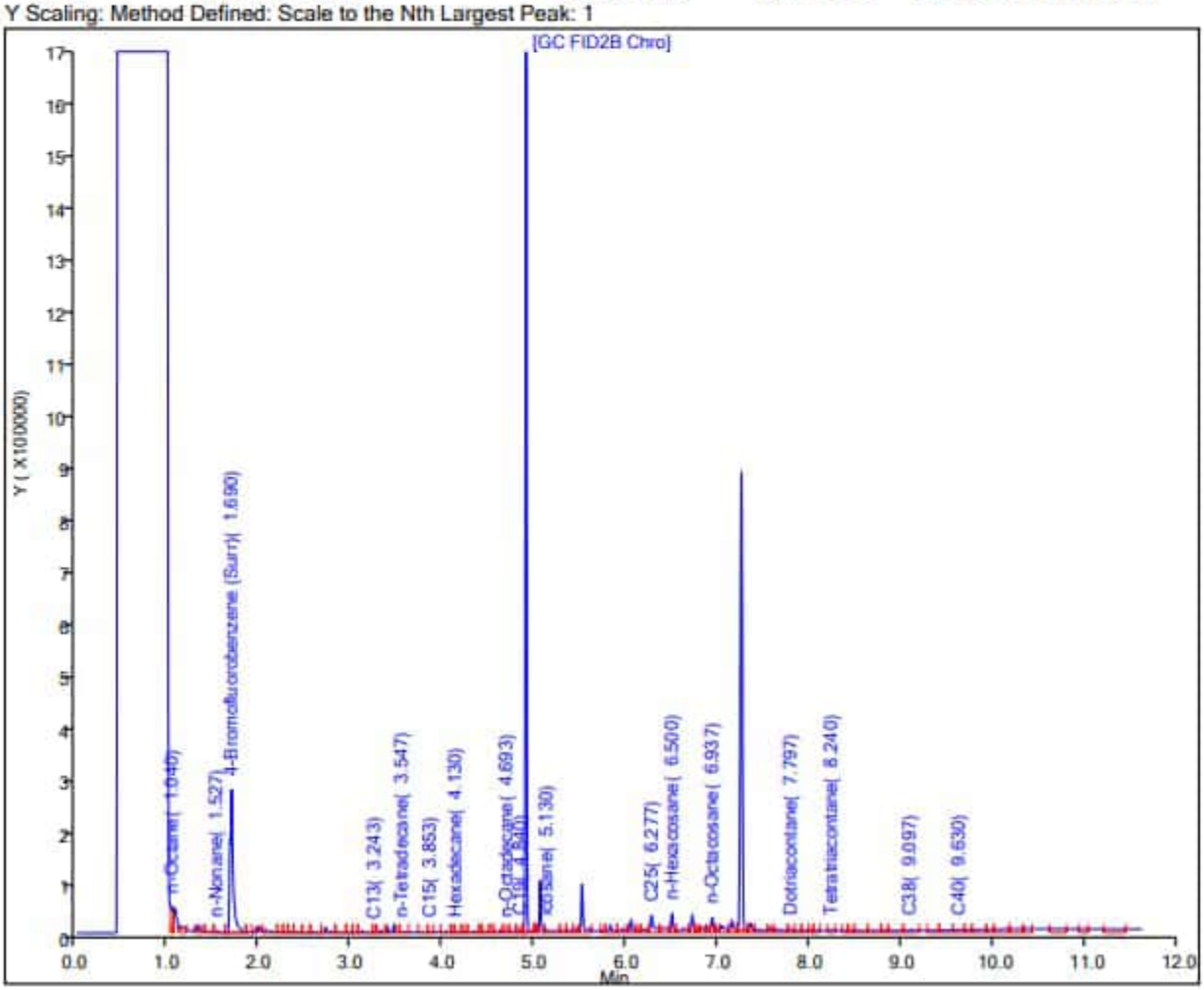
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 07-Dec-2022 13:00:00 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A041.D		
Injection Date:	07-Dec-2022 02:42:19	Instrument ID:	TAC129_R
Lims ID:	580-120703-J-7-A	Lab Sample ID:	580-120703-7
Client ID:	OWDFMW04A-WGFD01LF-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2208WK2 Sample Date: 8/8/2022
Lab: Eurofins Seattle

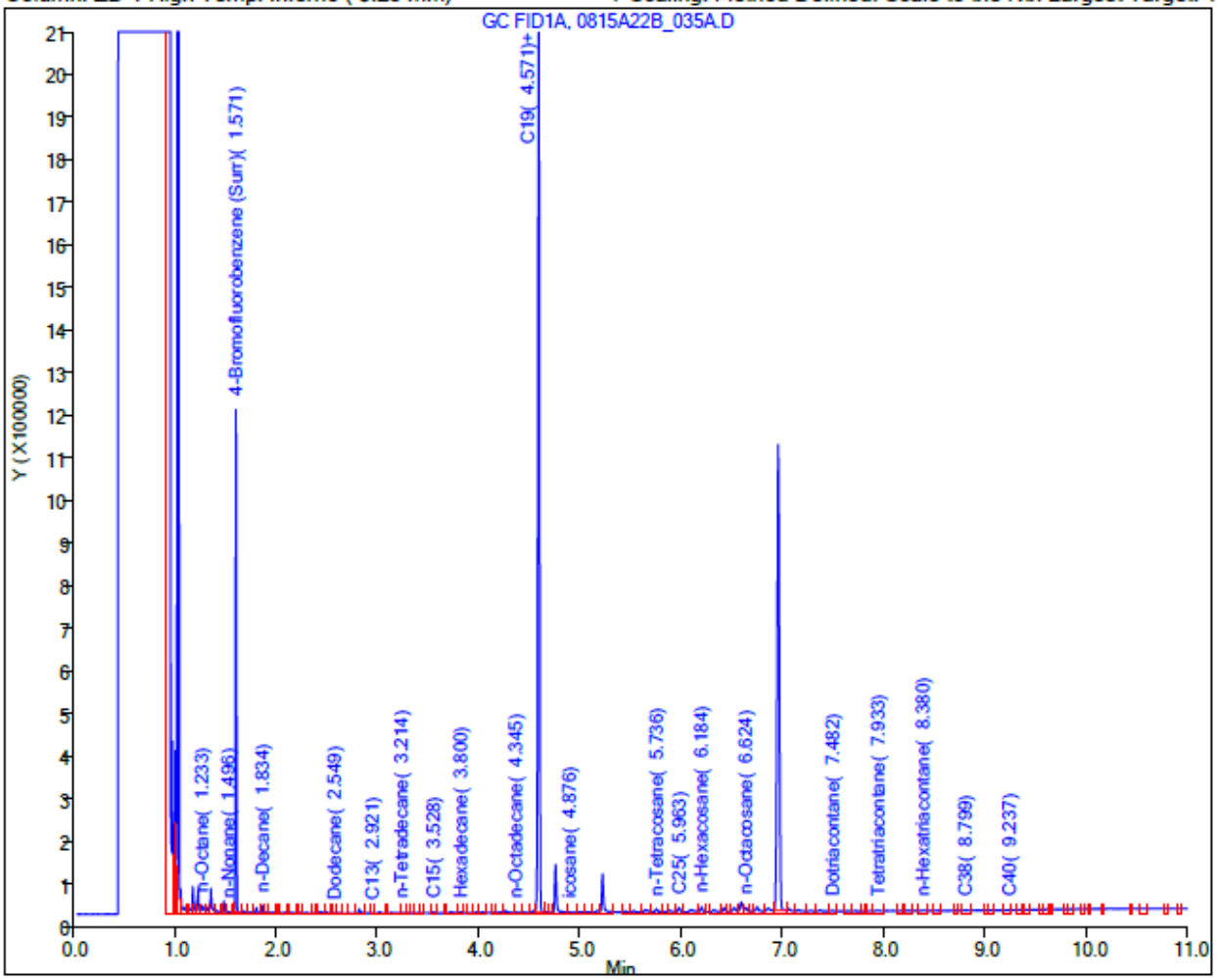
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 16-Aug-2022 07:57:21 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220815-84310.b\0815A22B_035A.D				
Injection Date:	16-Aug-2022 06:19:30	Instrument ID:	TAC020		
Lims ID:	580-116749-D-6-A	Lab Sample ID:	580-116749-6		
Client ID:	OWDFMW05A-WGN01LF-2208WK2				
Operator ID:	DH	ALS Bottle#:	35	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2209WK4 Sample Date: 9/26/2022
Lab: Eurofins Seattle

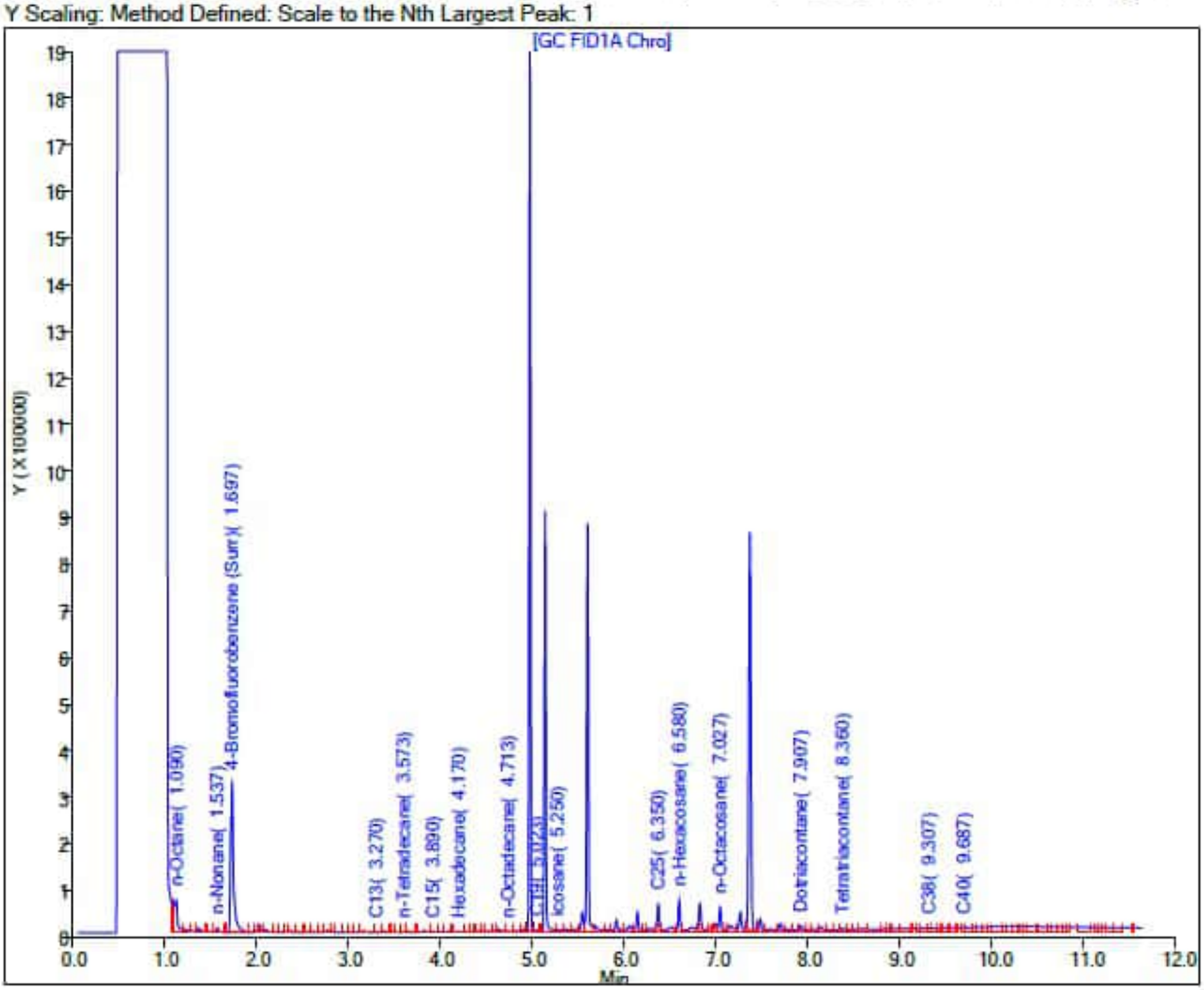
Results (ug/L): **TPH-d (C10 to C24) -- R** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Sep-2022 15:19:57 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A030.D				
Injection Date:	29-Sep-2022 23:33:39	Instrument ID:	TAC129		
Lims ID:	580-118257-D-3	Lab Sample ID:	580-118257-3		
Client ID:	OWDFMW05A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



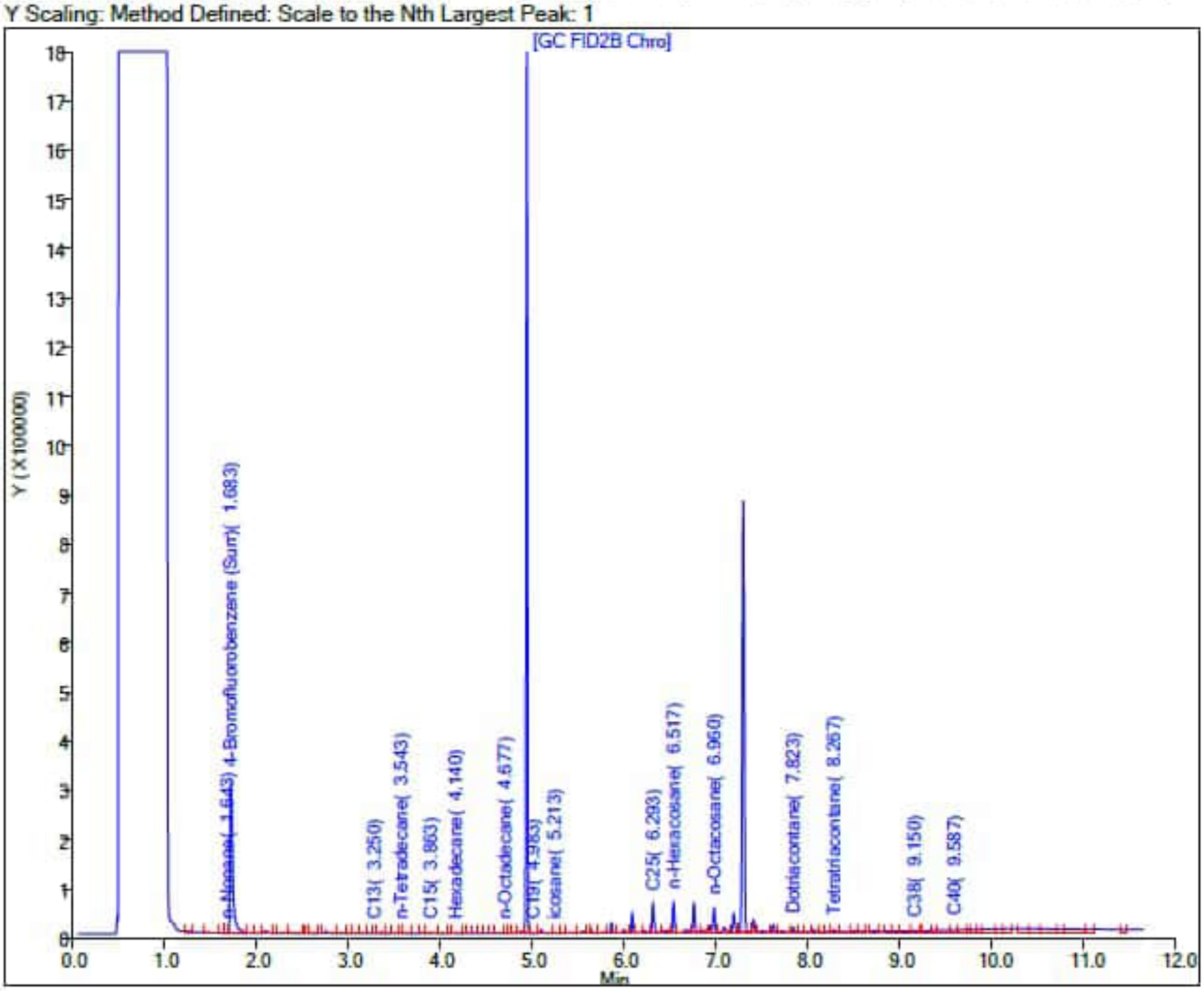
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 03-Oct-2022 16:41:54 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220930-85133.b\093022A015.D				
Injection Date:	30-Sep-2022 21:41:10	Instrument ID:	TAC129_R		
Lims ID:	580-118257-D-3-B	Lab Sample ID:	580-118257-3		
Client ID:	OWDFMW05A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

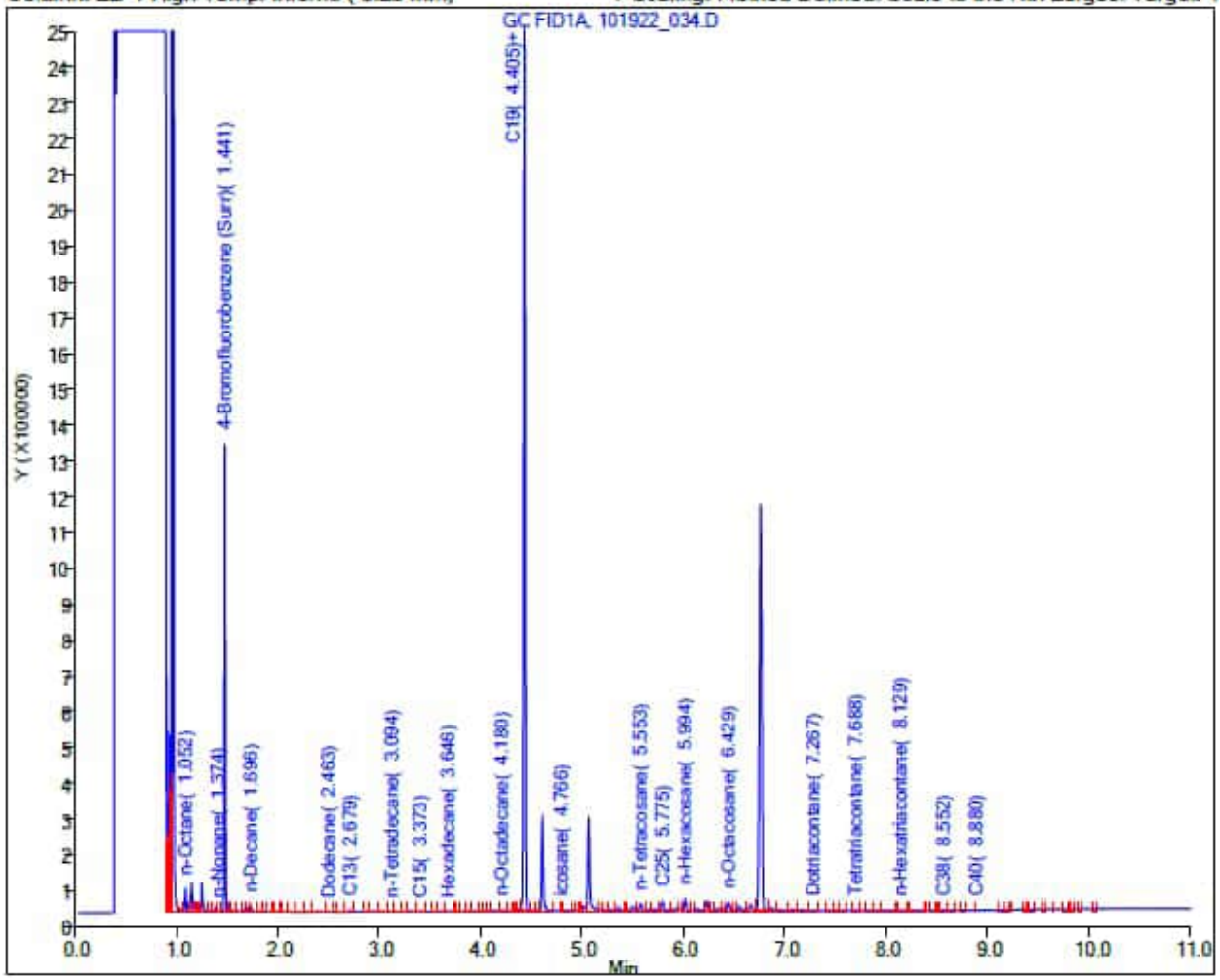
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:42:44 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_034.D				
Injection Date:	20-Oct-2022 03:14:30	Instrument ID:	TAC020		
Lims ID:	580-118888-F-4-A	Lab Sample ID:	580-118888-4		
Client ID:	OWDFMW05A-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	33	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

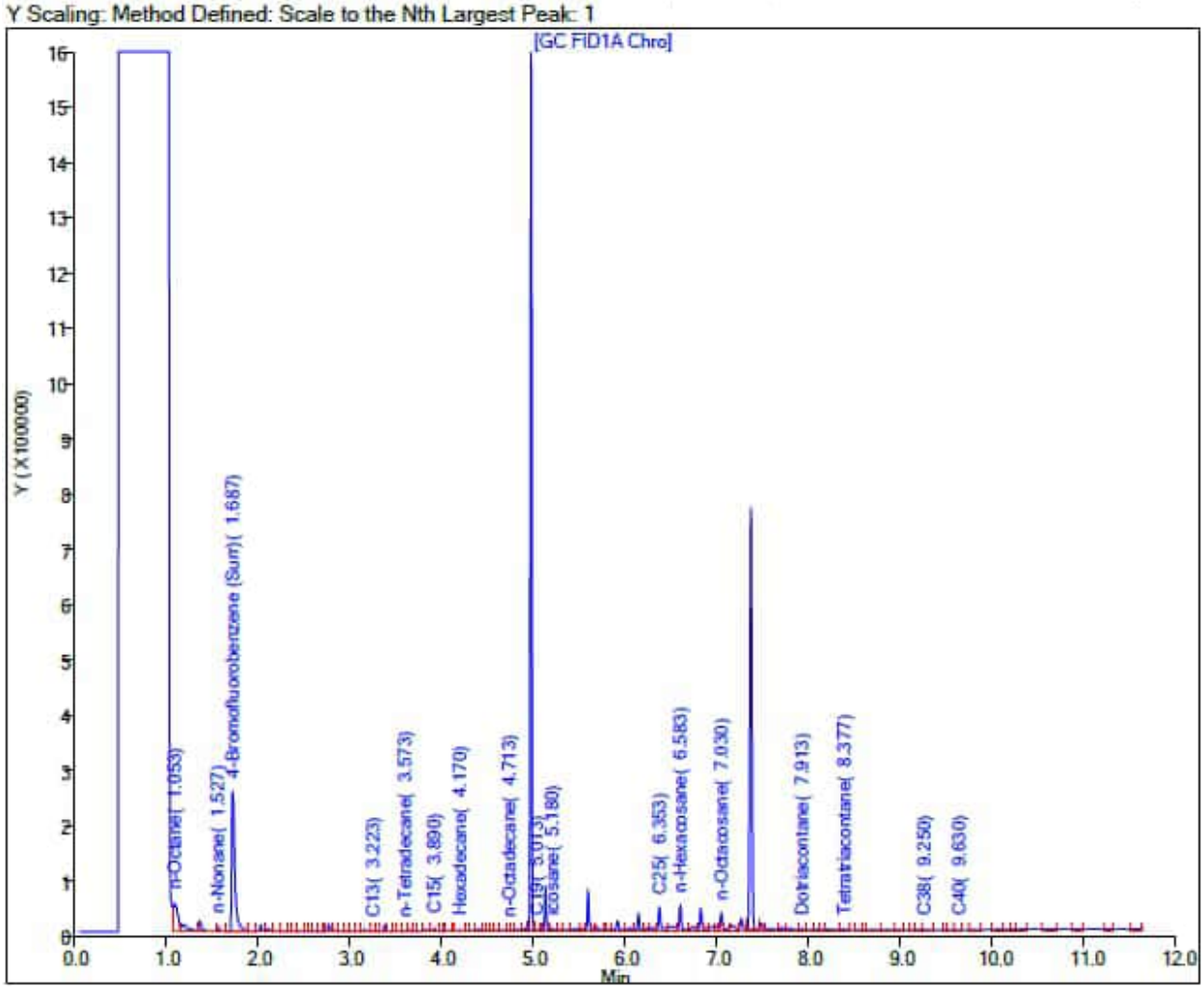
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:37:54 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A034.D				
Injection Date:	21-Oct-2022 22:38:51	Instrument ID:	TAC129		
Lims ID:	580-118934-O-15-A	Lab Sample ID:	580-118934-15		
Client ID:	OWDFMW05A-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	29
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

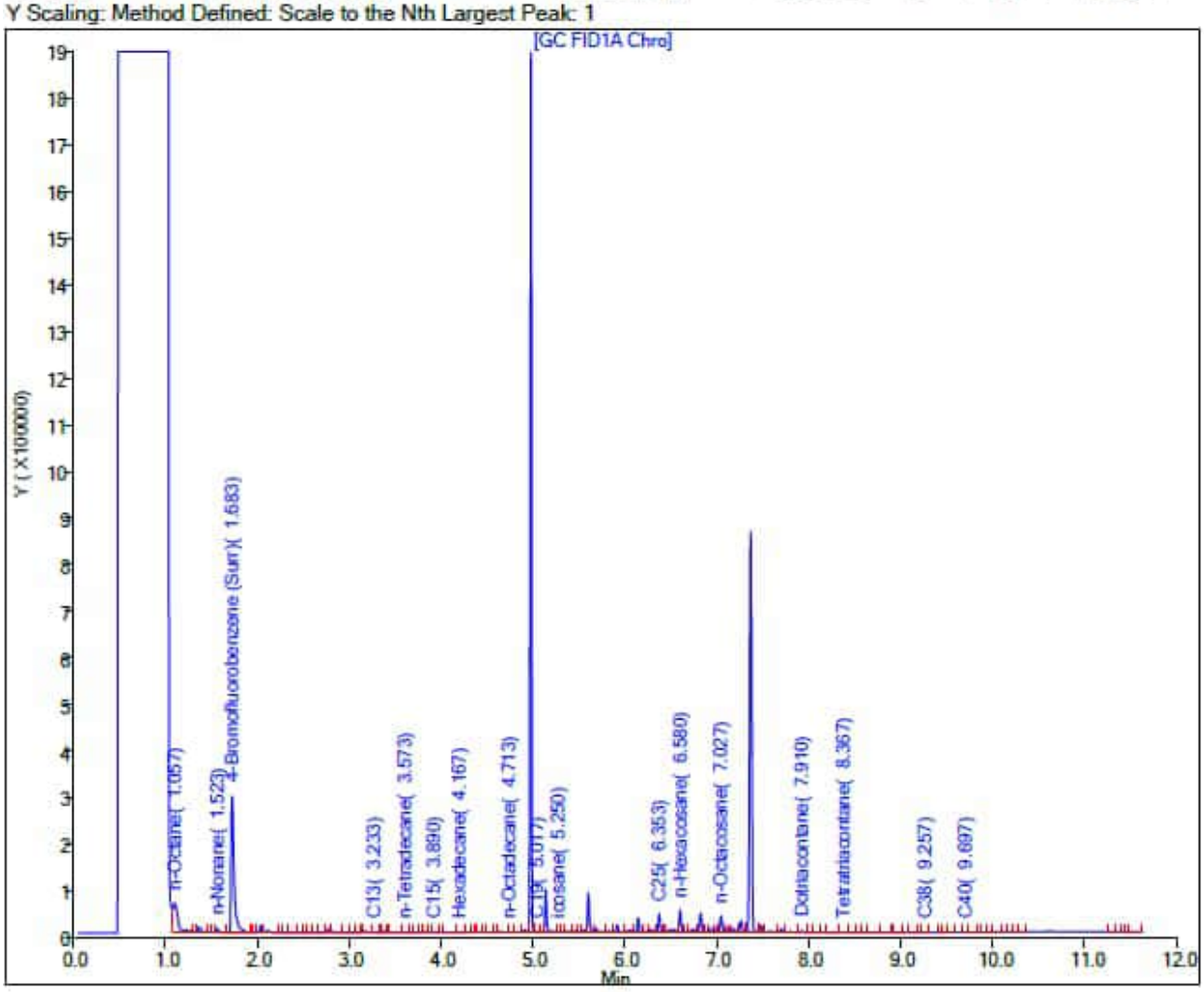
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Oct-2022 14:35:25 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A044.D				
Injection Date:	27-Oct-2022 22:42:14	Instrument ID:	TAC129		
Lims ID:	580-119111-O-5-A	Lab Sample ID:	580-119111-5		
Client ID:	OWDFMW05A-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2210WK4 Sample Date: 10/26/2022
Lab: Eurofins Seattle

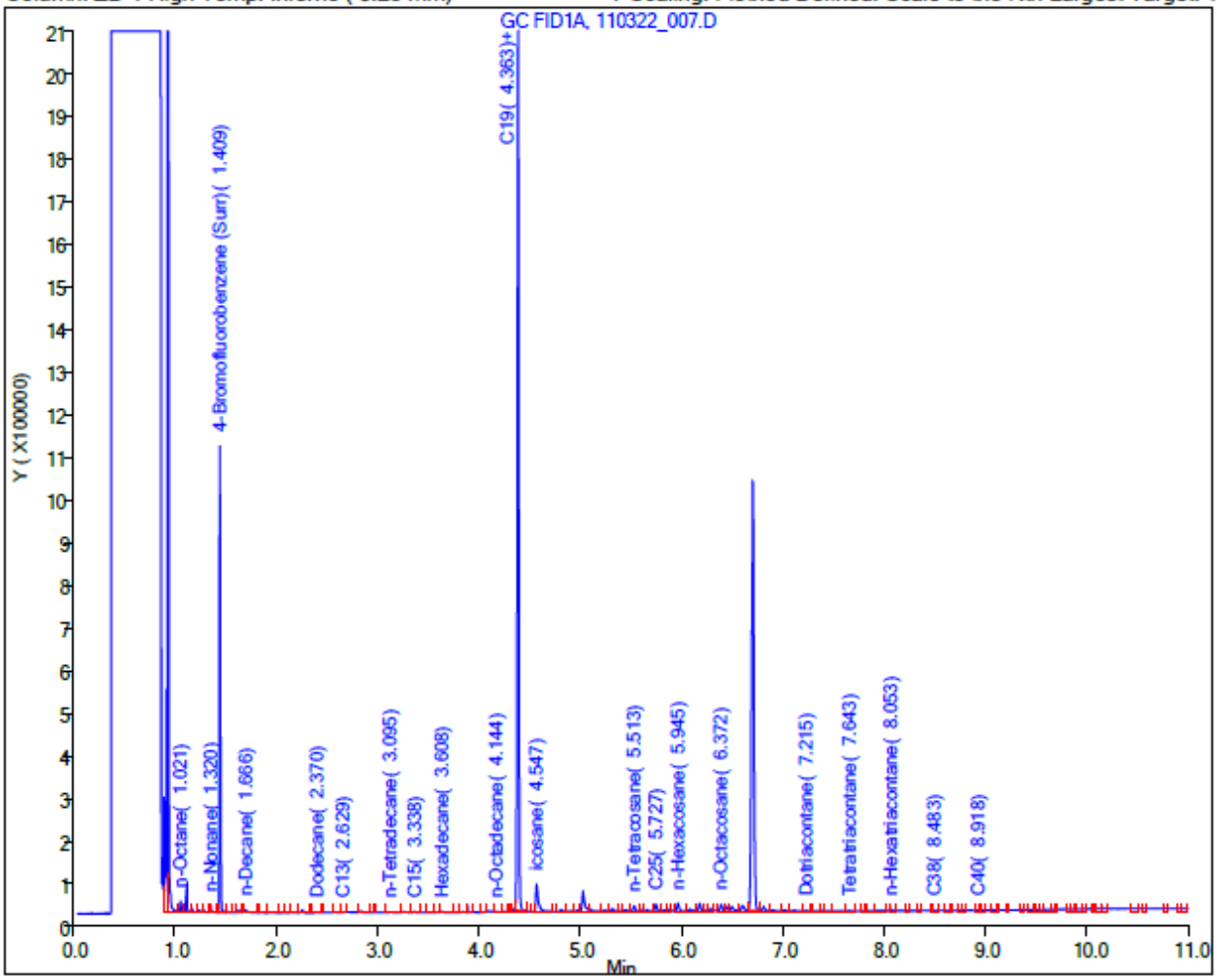
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 03-Nov-2022 20:11:25 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_007.D				
Injection Date:	03-Nov-2022 16:51:30	Instrument ID:	TAC020		
Lims ID:	580-119371-D-11-A	Lab Sample ID:	580-119371-11		
Client ID:	OWDFMW05A-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

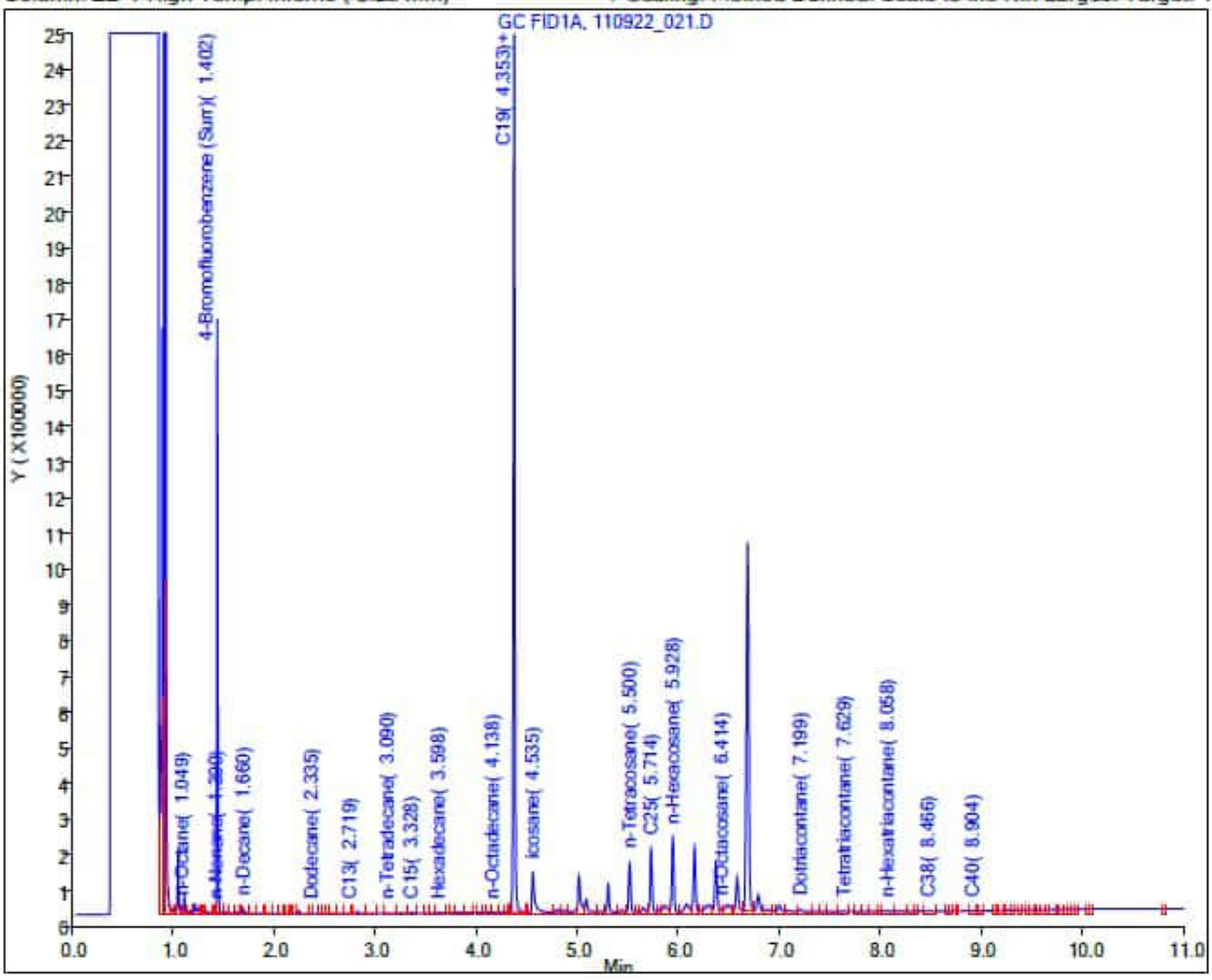
Results (ug/L): **TPH-d (C10 to C24) <100 UJ** **TPH-o (C24 to C40) <300 UJ**

Report Date: 10-Nov-2022 14:19:40 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_021.D				
Injection Date:	10-Nov-2022 04:29:30	Instrument ID:	TAC020		
Lims ID:	580-119483-O-19-A	Lab Sample ID:	580-119483-19		
Client ID:	OWDFMW05A-WGN02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	20	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

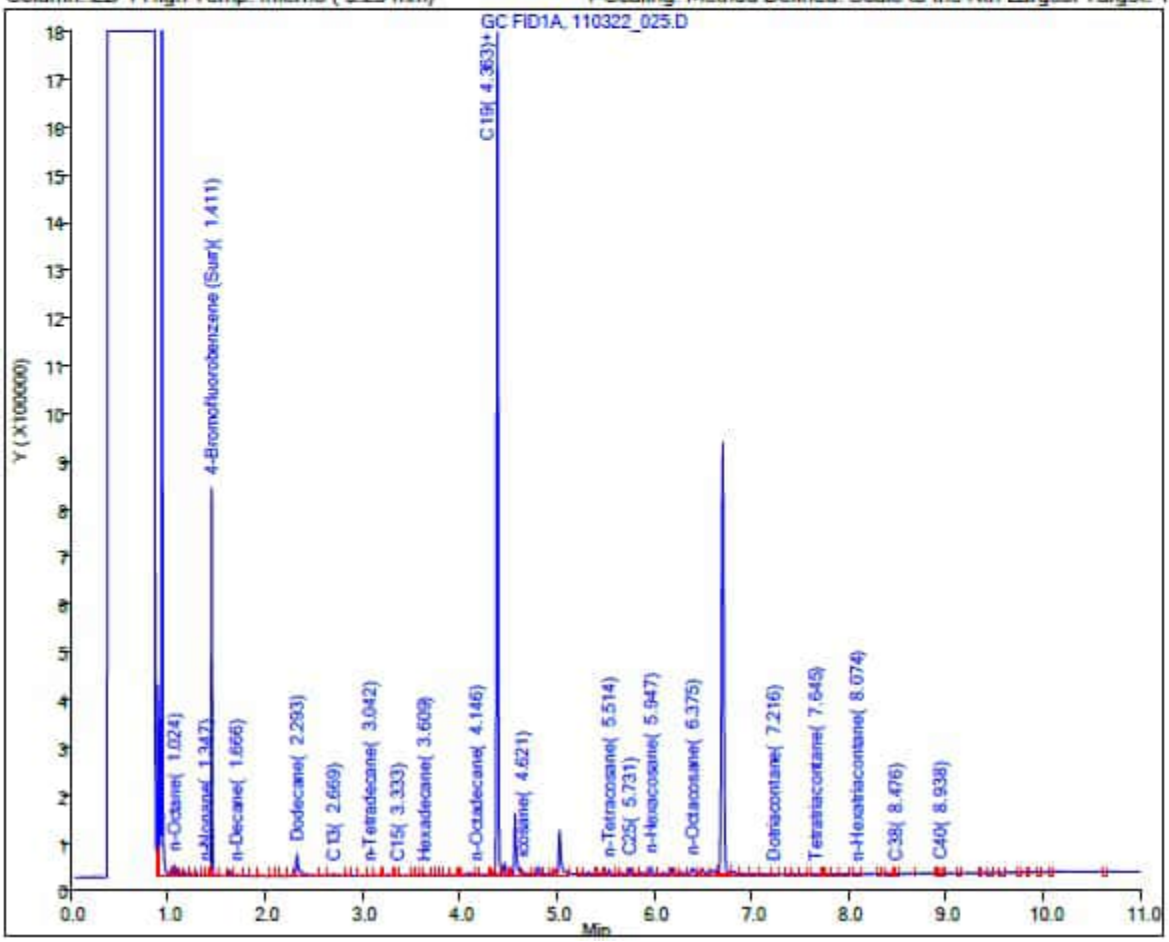
Results (ug/L): **TPH-d (C10 to C24) <82 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 13:44:56 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_025.D		
Injection Date:	03-Nov-2022 22:54:30	Instrument ID:	TAC020
Lims ID:	580-119483-N-1-A	Lab Sample ID:	580-119483-1
Client ID:	OWDFMW05A-WGN01LF-2210WK5		
Operator ID:	DH	ALS Bottle#:	24 Worklist Smp#: 50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

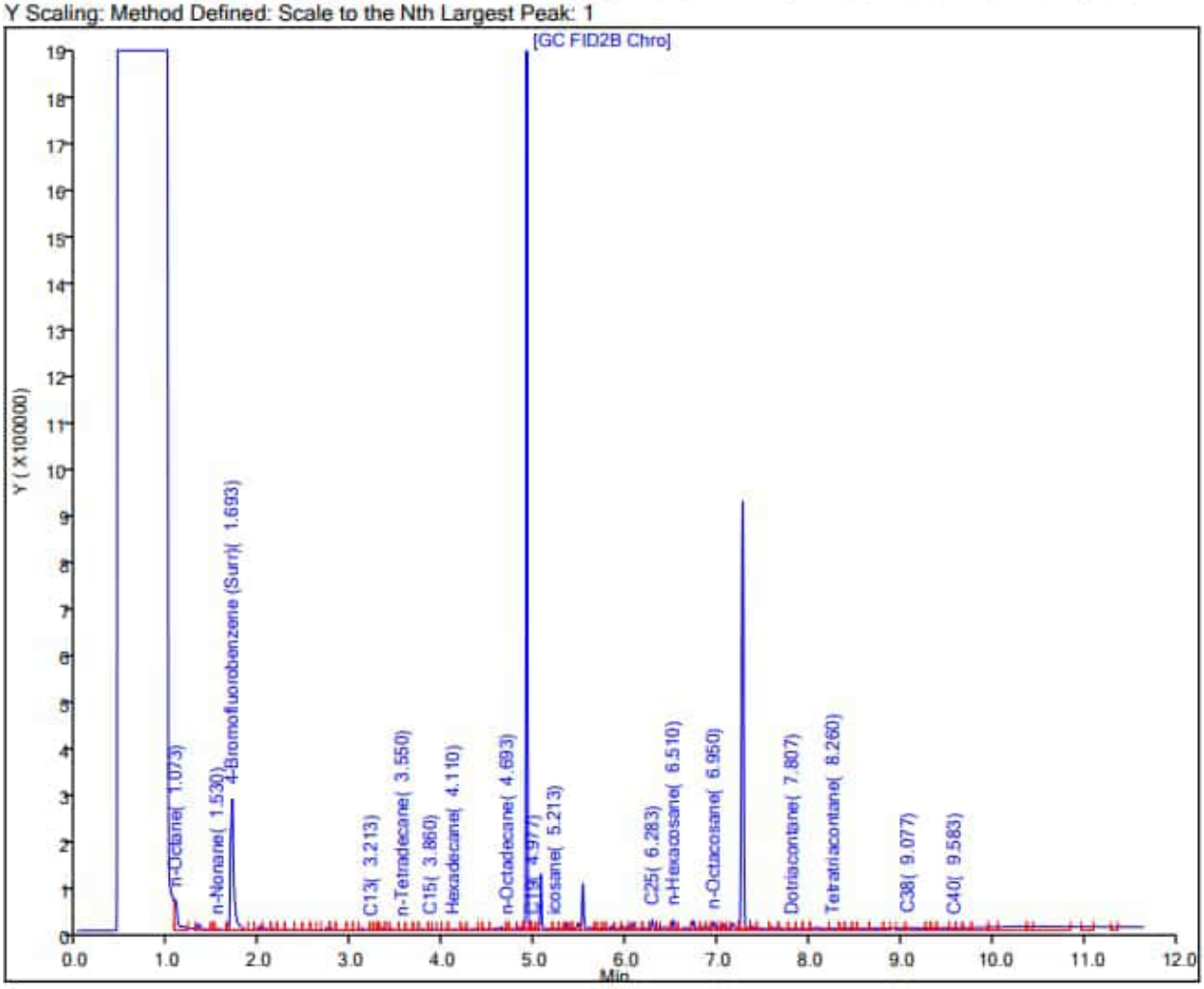
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 11-Nov-2022 16:01:06 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A025.D				
Injection Date:	10-Nov-2022 22:17:02	Instrument ID:	TAC129_R		
Lims ID:	580-119745-N-3-A	Lab Sample ID:	580-119745-3		
Client ID:	OWDFMW05A-WGN02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2211WK1 Sample Date: 11/8/2022
Lab: Eurofins Seattle

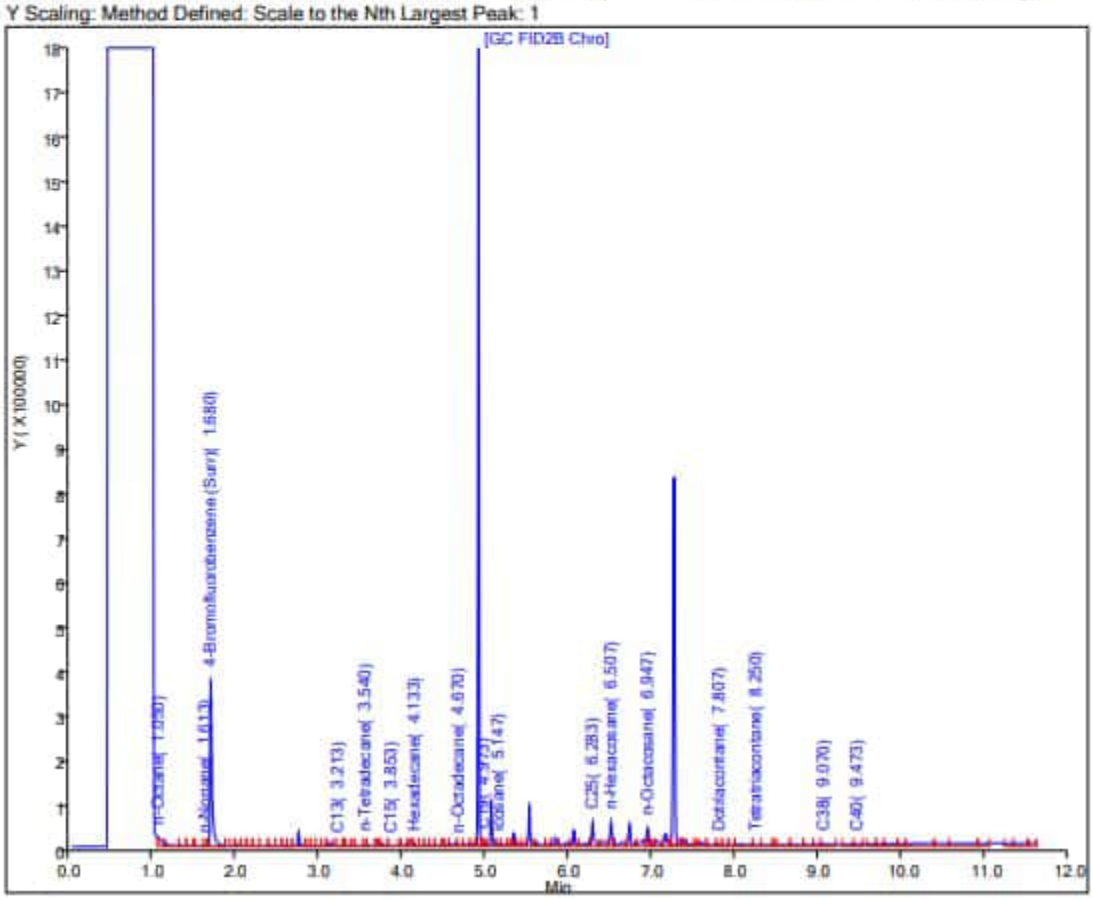
Results (ug/L): **TPH-d (C10 to C24) <83 U** **TPH-o (C24 to C40) <250 U**

Report Date: 15-Nov-2022 19:16:07 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A037.D		
Injection Date:	15-Nov-2022 04:15:11	Instrument ID:	TAC129_R
Lims ID:	580-119919-D-1-A	Lab Sample ID:	580-119919-1
Client ID:	OWDFMW05A-WGN01LF-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 19
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

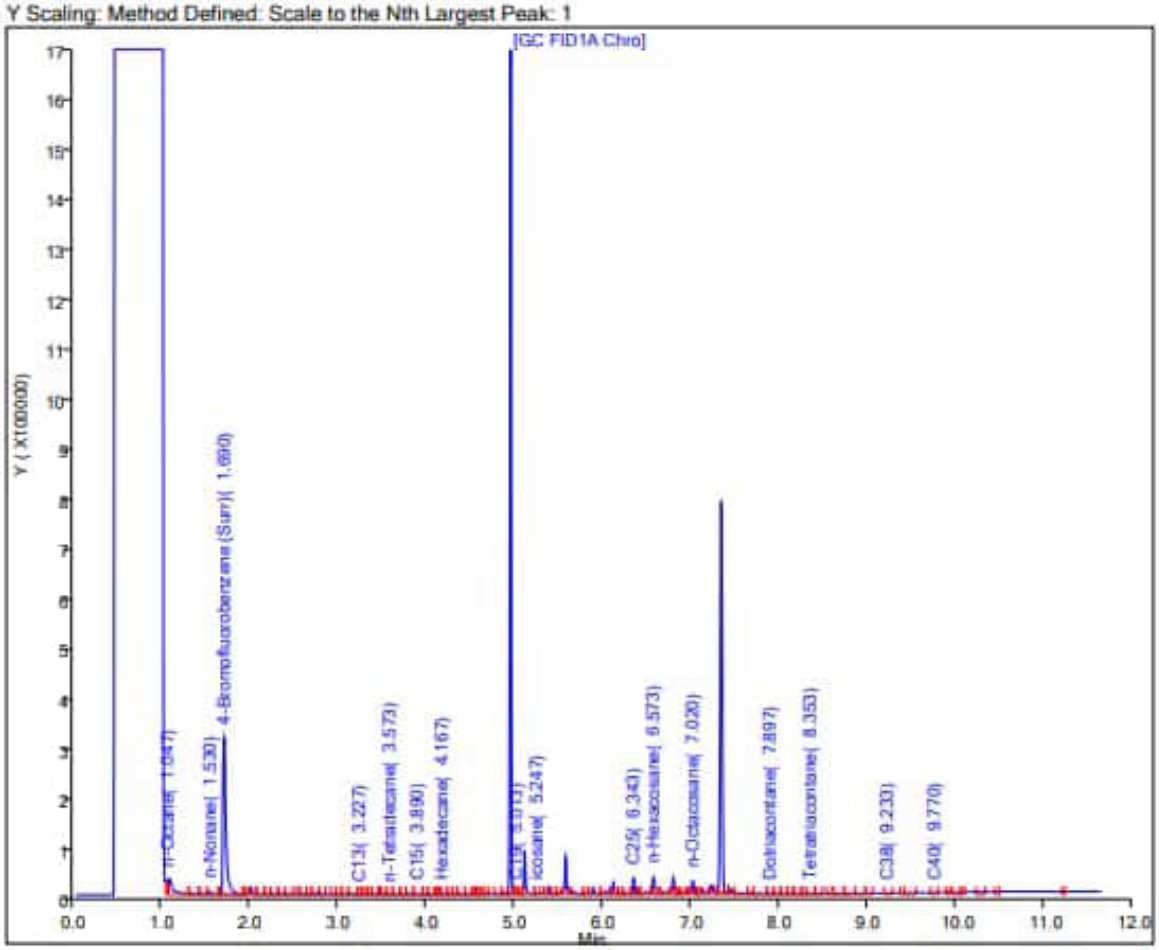
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 17-Nov-2022 11:38:03 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221116-85833.b\1116z22A024.D				
Injection Date:	17-Nov-2022 01:30:31	Instrument ID:	TAC129		
Lims ID:	580-120006-O-15-A	Lab Sample ID:	580-120006-15		
Client ID:	OWDFMW05A-WGN02LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	18
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

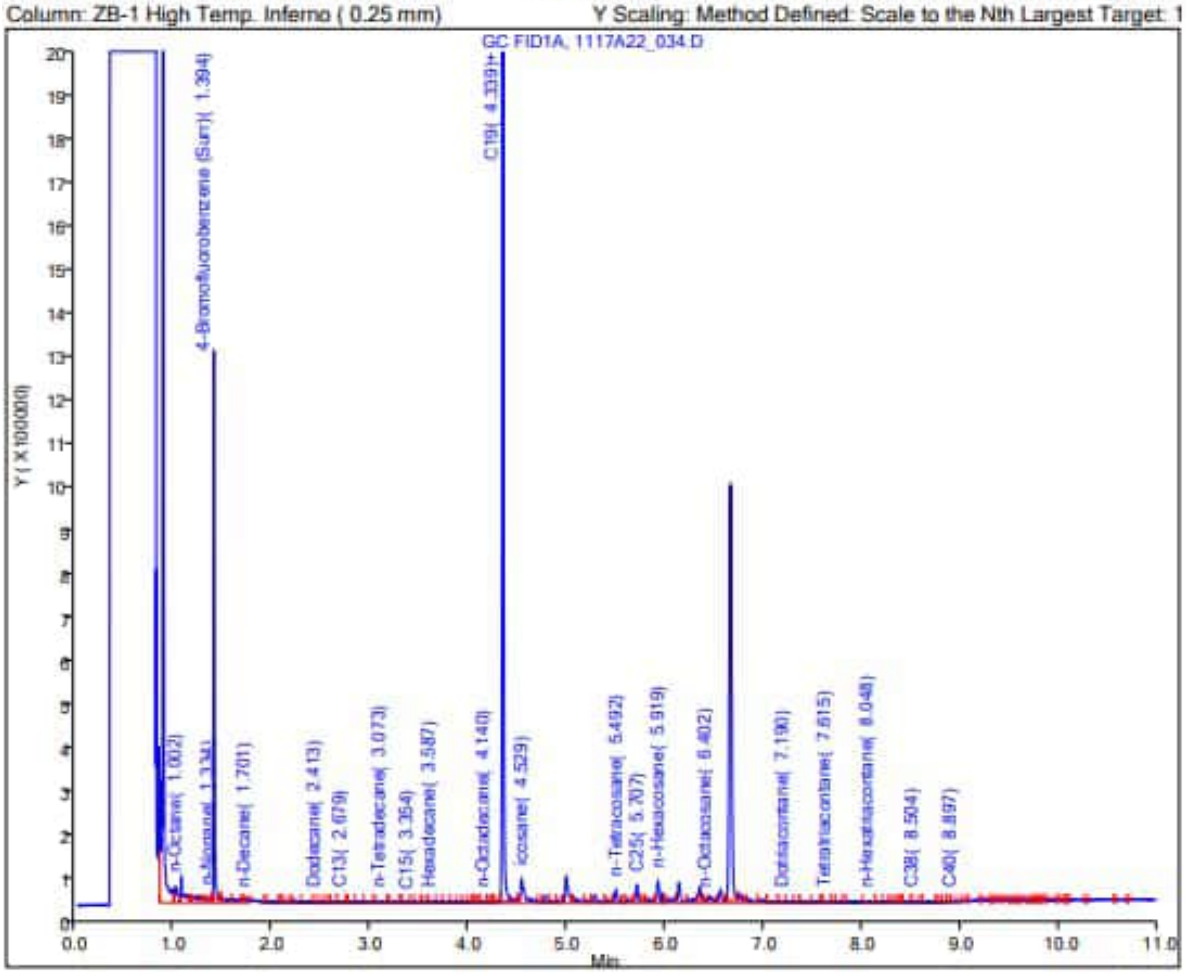
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 12:02:23 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_034.D				
Injection Date:	18-Nov-2022 06:41:30	Instrument ID:	TAC020		
Lims ID:	580-120022-O-12-A	Lab Sample ID:	580-120022-12		
Client ID:	OWDFMW05A-WGN01LF-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	33	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN02LF-2211WK2 Sample Date: 11/18/2022
Lab: Eurofins Seattle

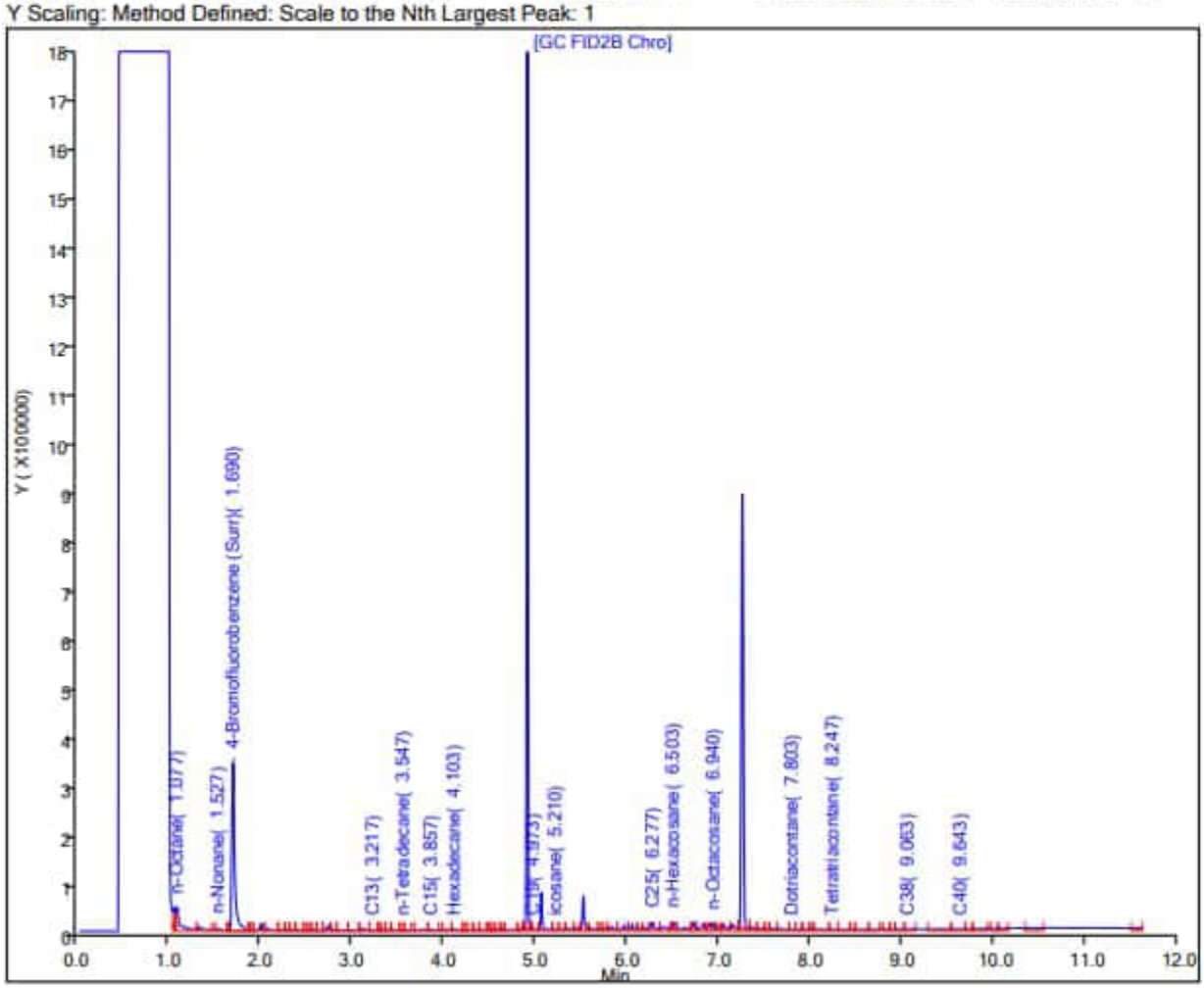
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:24:39 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A041.D		
Injection Date:	28-Nov-2022 22:23:35	Instrument ID:	TAC129_R
Lims ID:	580-120243-O-8-A	Lab Sample ID:	580-120243-8
Client ID:	OWDFMW05A-WGN02LF-2211WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2211WK3 Sample Date: 11/21/2022
Lab: Eurofins Seattle

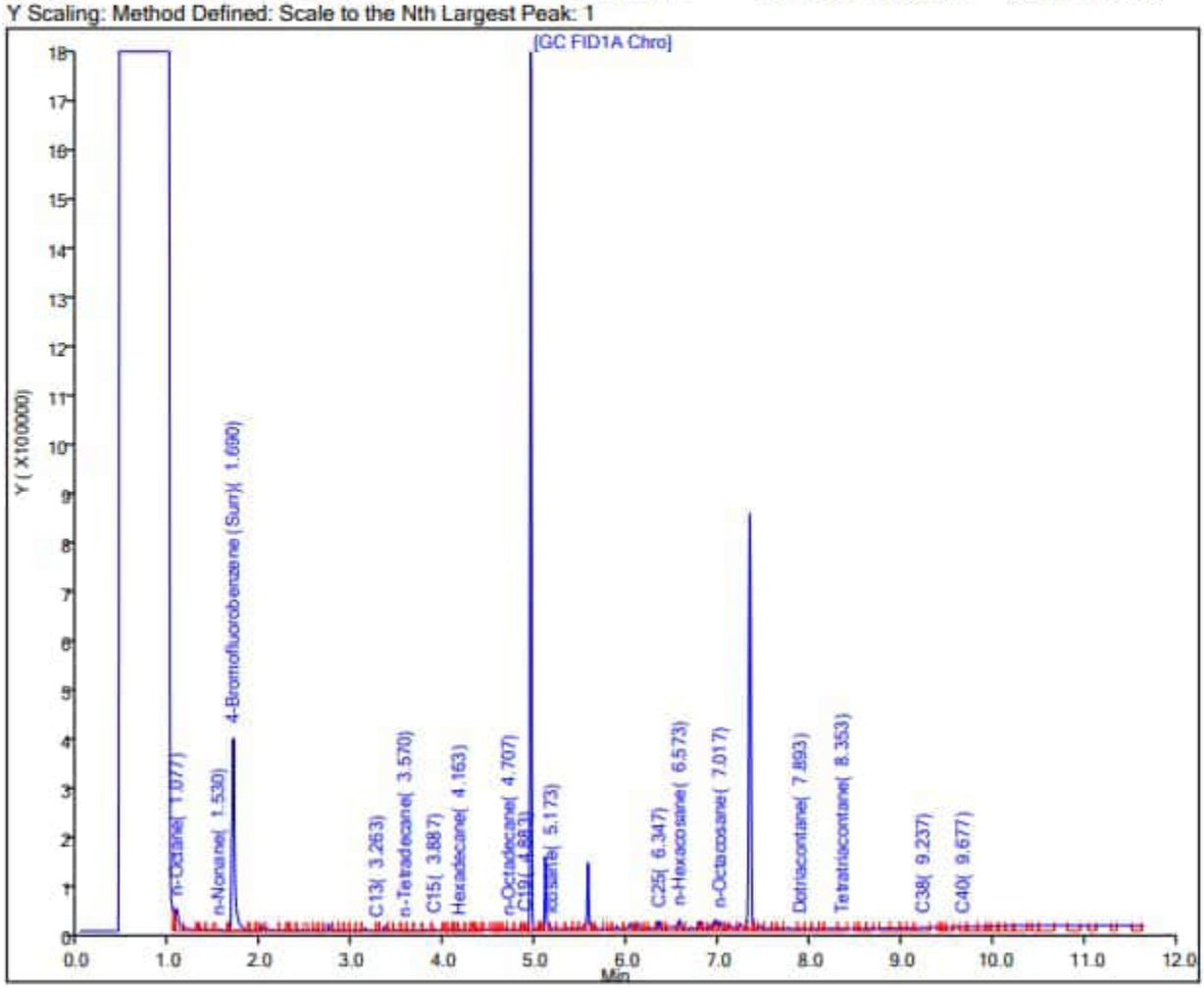
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 30-Nov-2022 12:18:19 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A020.D		
Injection Date:	29-Nov-2022 20:53:25	Instrument ID:	TAC129
Lims ID:	580-120389-O-1-A	Lab Sample ID:	580-120389-1
Client ID:	OWDFMW05A-WGN01LF-2211WK3		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 57
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW05A** Sample ID: OWDFMW05A-WGN01LF-2211WK4 Sample Date: 12/1/2022
Lab: Eurofins Seattle

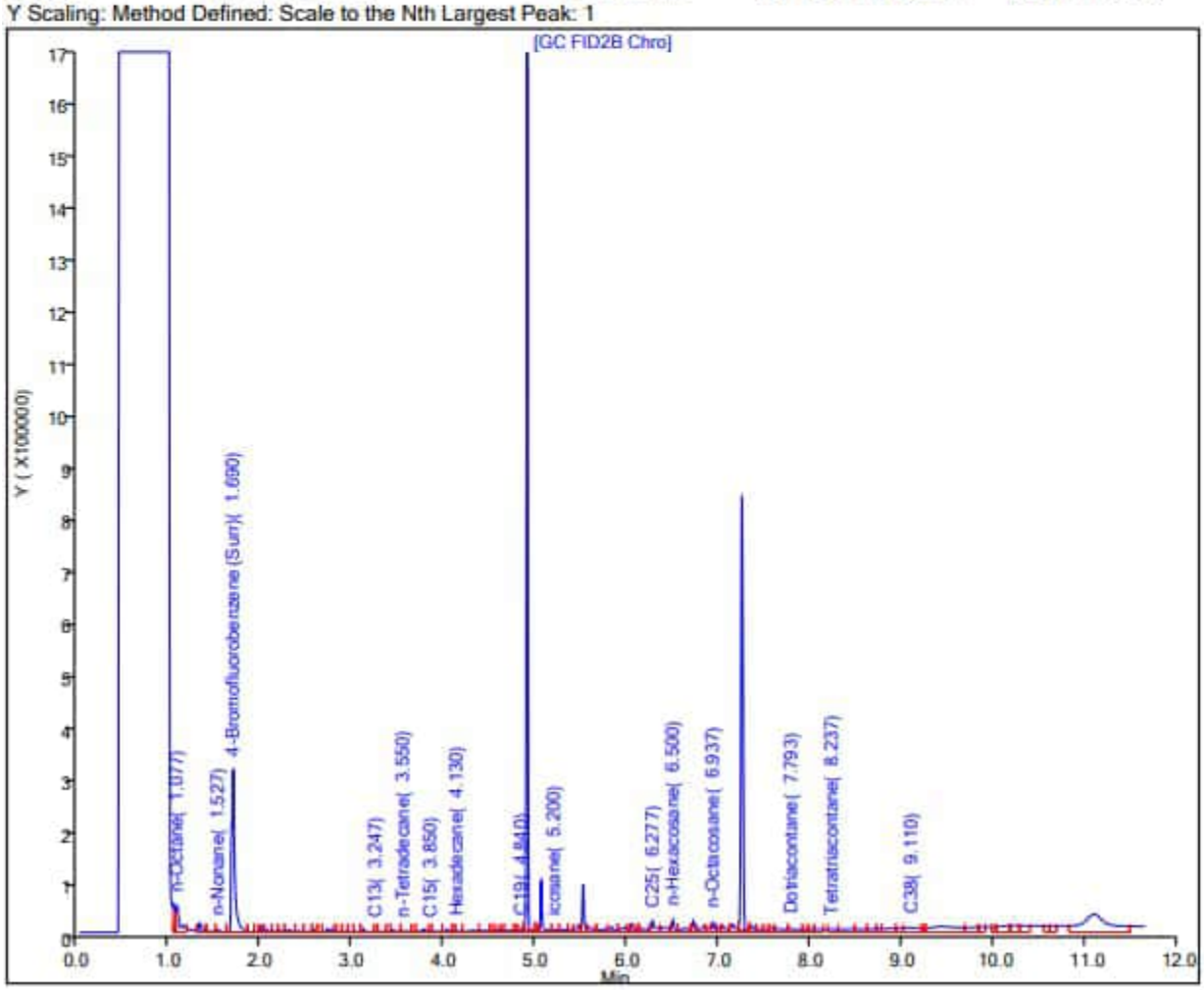
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 07-Dec-2022 13:00:39 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A051.D		
Injection Date:	07-Dec-2022 04:14:32	Instrument ID:	TAC129_R
Lims ID:	580-120703-N-1-A	Lab Sample ID:	580-120703-1
Client ID:	OWDFMW05A-WGN01LF-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 26
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2209WK1 Sample Date: 9/8/2022
Lab: Eurofins Seattle

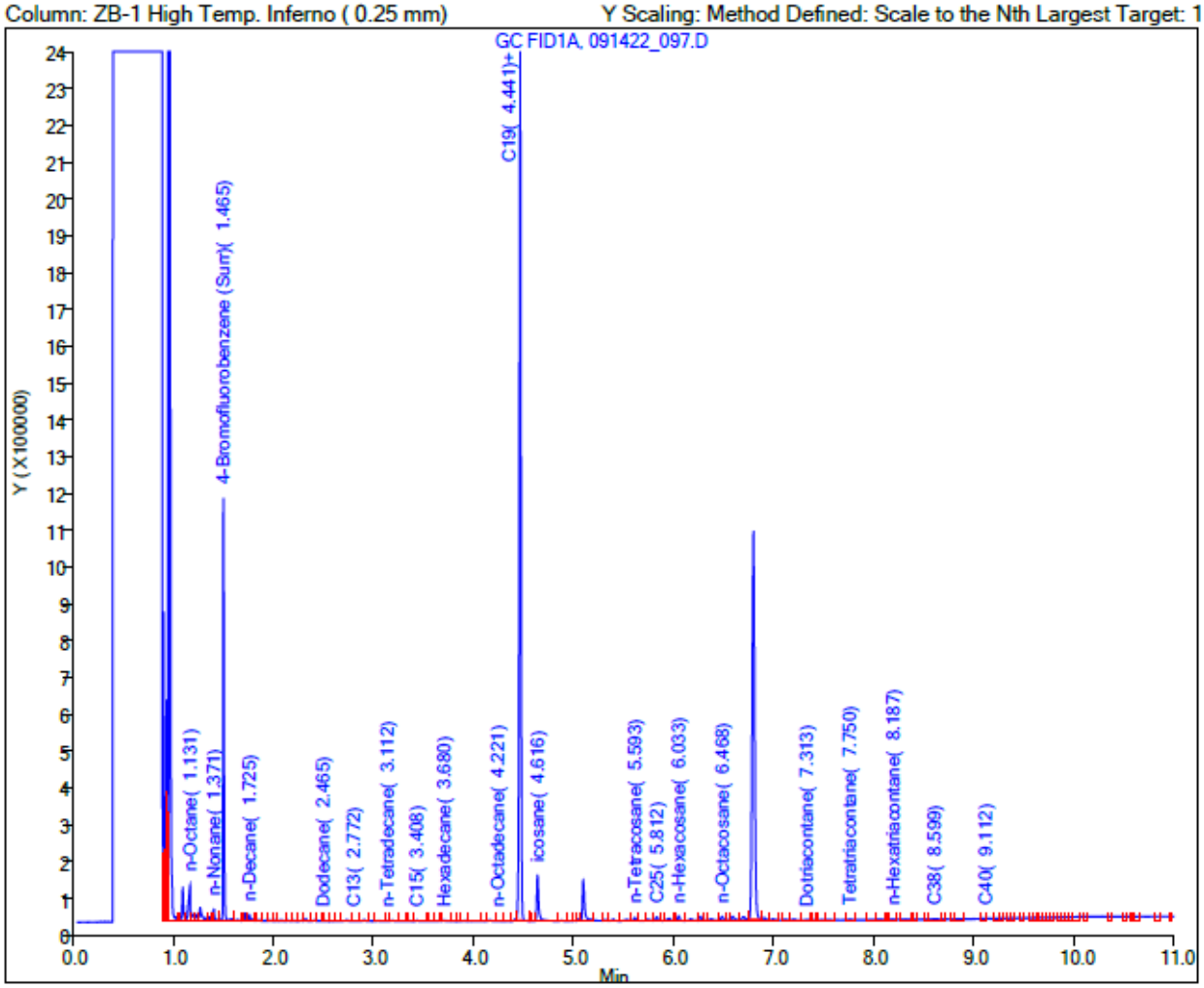
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 15-Sep-2022 14:58:42 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_097.D				
Injection Date:	14-Sep-2022 22:00:30	Instrument ID:	TAC020		
Lims ID:	580-117771-E-1-A	Lab Sample ID:	580-117771-1		
Client ID:	OWDFMW07A-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	97	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2209WK3 Sample Date: 9/20/2022
Lab: Eurofins Seattle

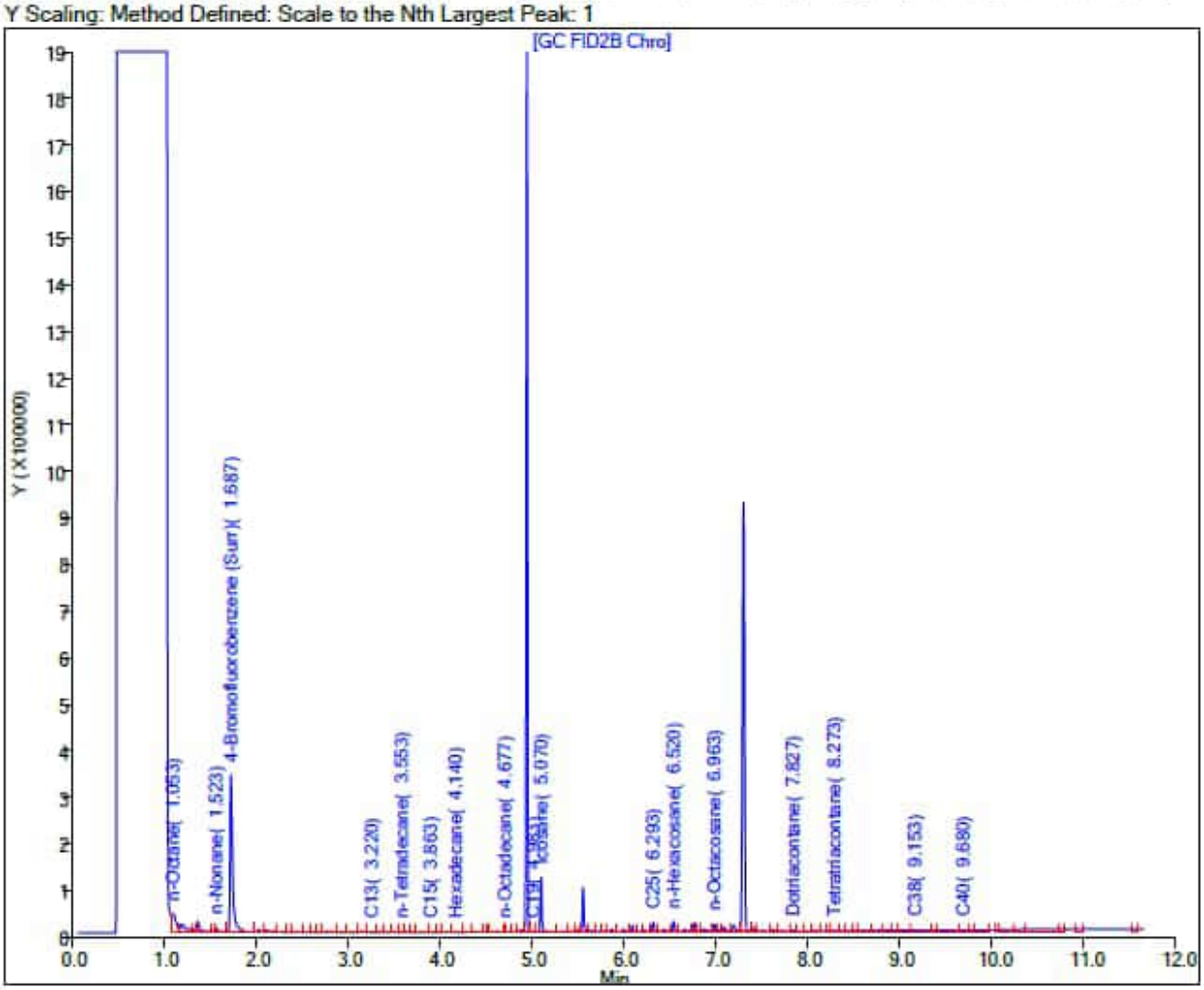
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Sep-2022 14:38:43 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A023.D				
Injection Date:	27-Sep-2022 19:16:01	Instrument ID:	TAC129_R		
Lims ID:	580-118158-S-3-A	Lab Sample ID:	580-118158-3		
Client ID:	OWDFMW07A-WGN01LF-2209WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2209WK4 Sample Date: 9/29/2022
Lab: Eurofins Seattle

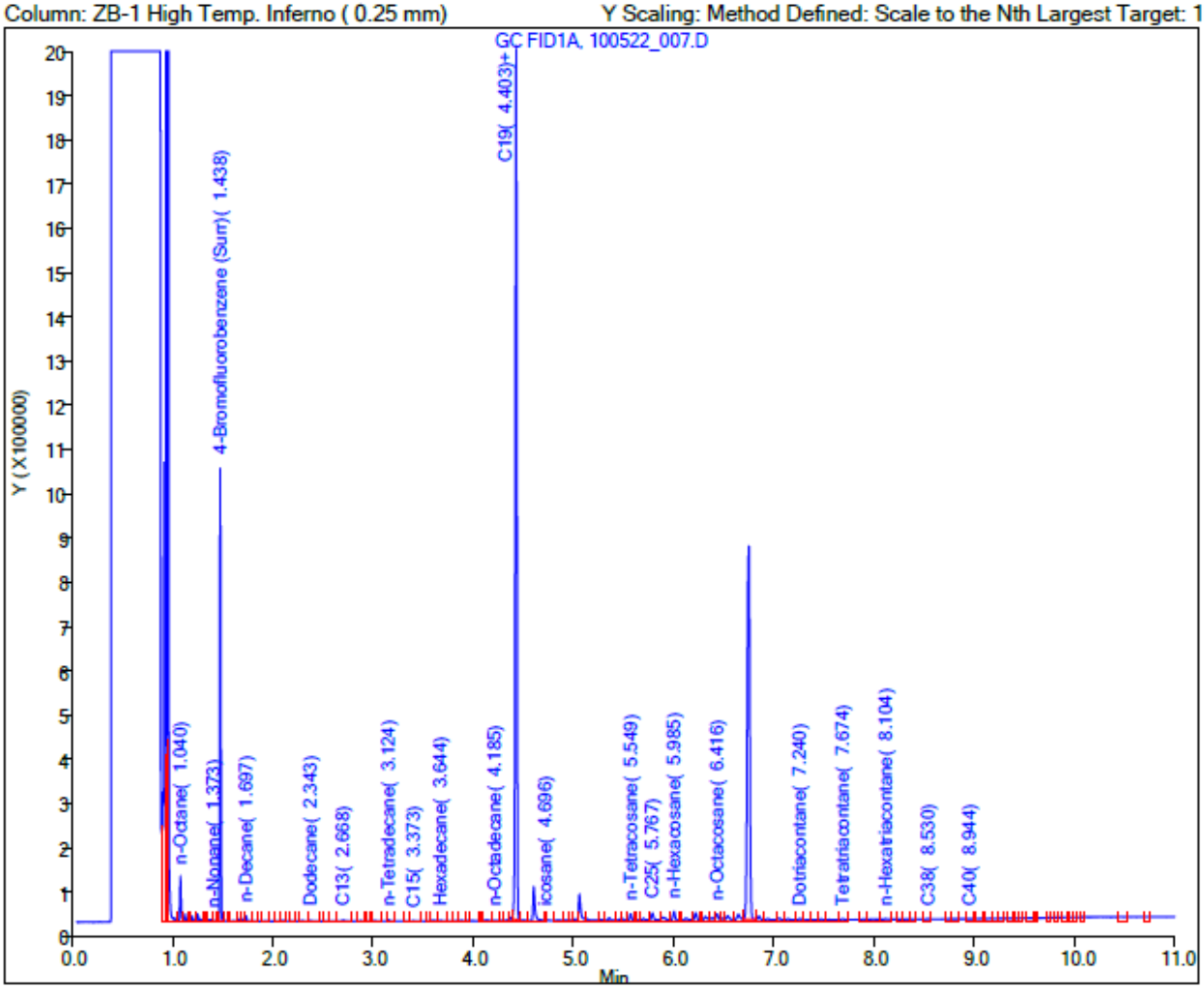
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 05-Oct-2022 18:54:29 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221005-85205.b\100522_007.D				
Injection Date:	05-Oct-2022 16:31:30	Instrument ID:	TAC020		
Lims ID:	580-118462-P-1-A	Lab Sample ID:	580-118462-1		
Client ID:	OWDFMW07A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

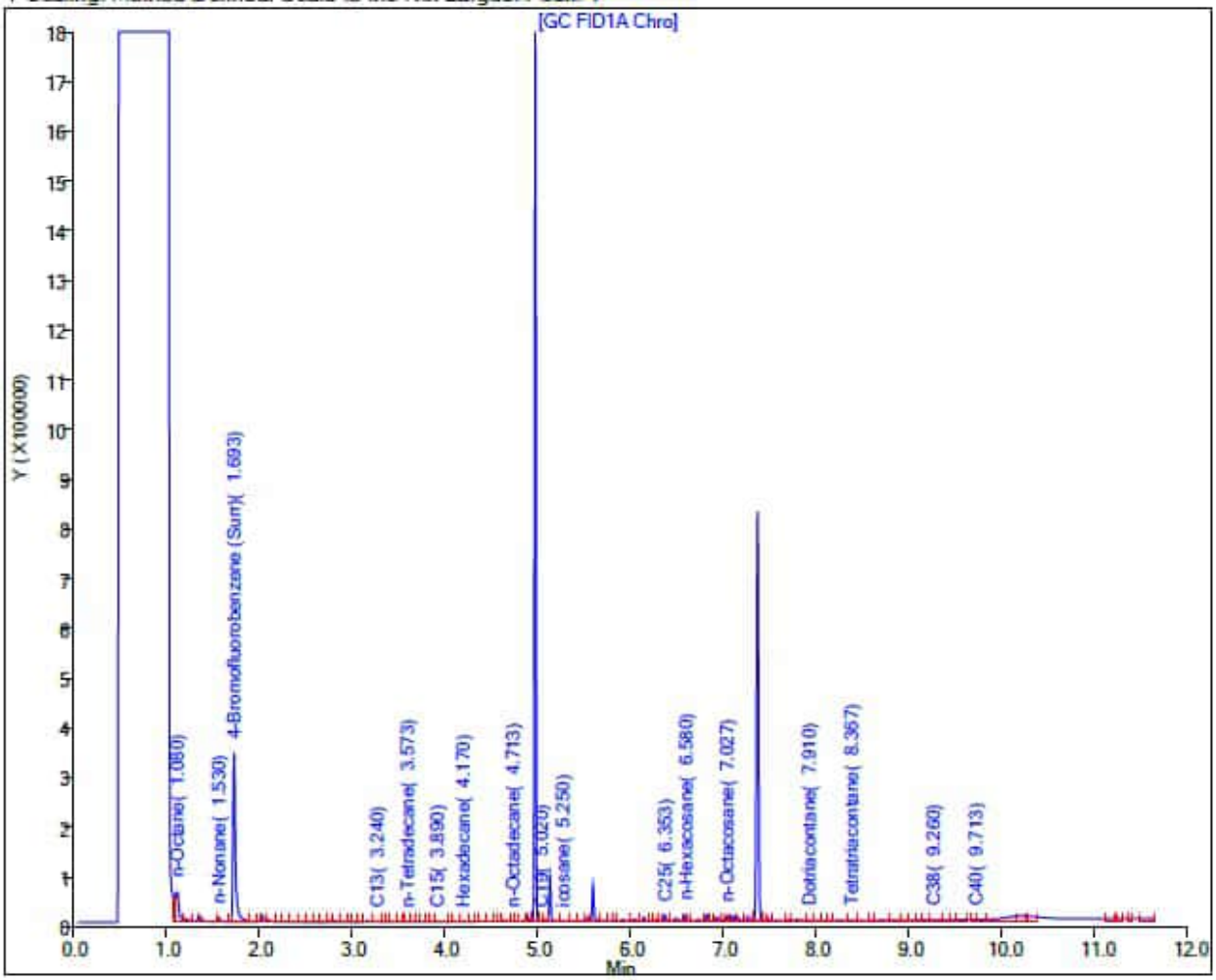
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 12-Oct-2022 13:56:51 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A032.D				
Injection Date:	11-Oct-2022 21:51:45	Instrument ID:	TAC129		
Lims ID:	580-118644-F-1-A	Lab Sample ID:	580-118644-1		
Client ID:	OWDFMW07A-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

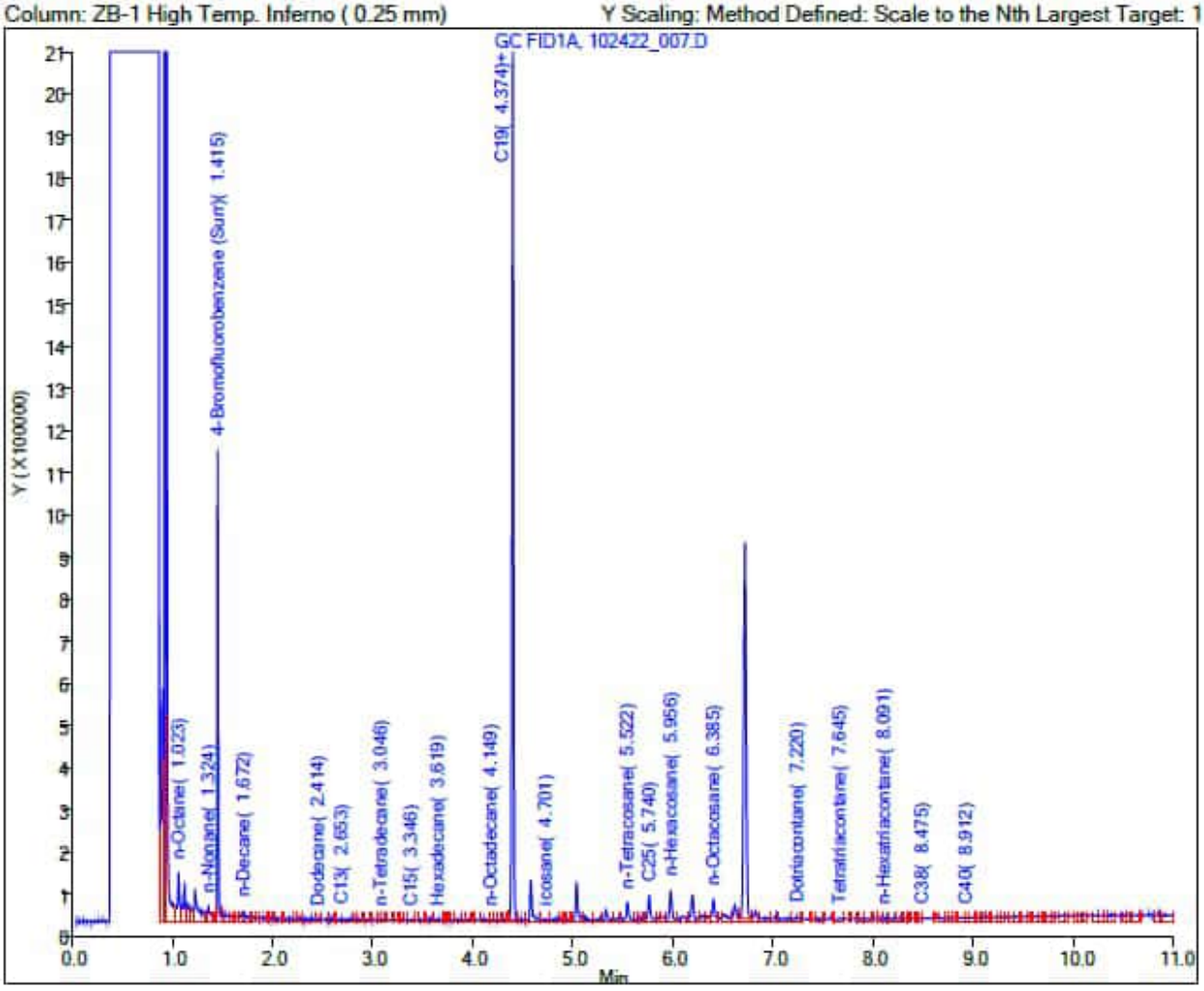
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 19:48:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221024-85448.b\102422_007.D				
Injection Date:	24-Oct-2022 17:37:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-9-A	Lab Sample ID:	580-118920-9		
Client ID:	OWDFMW07A-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	6
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

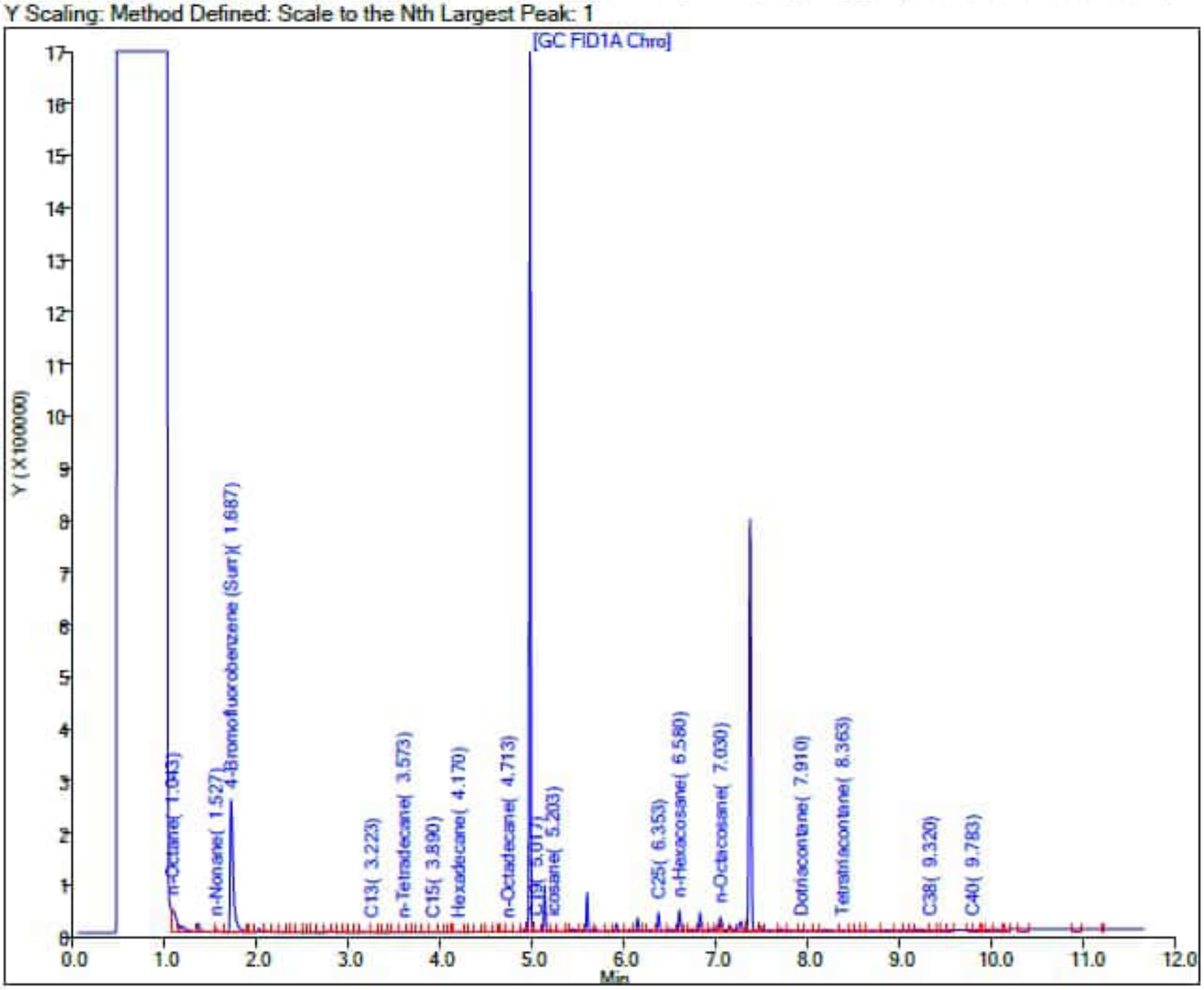
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 24-Oct-2022 13:37:52 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A032.D				
Injection Date:	21-Oct-2022 22:20:00	Instrument ID:	TAC129		
Lims ID:	580-118934-N-11-A	Lab Sample ID:	580-118934-11		
Client ID:	OWDFMW07A-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

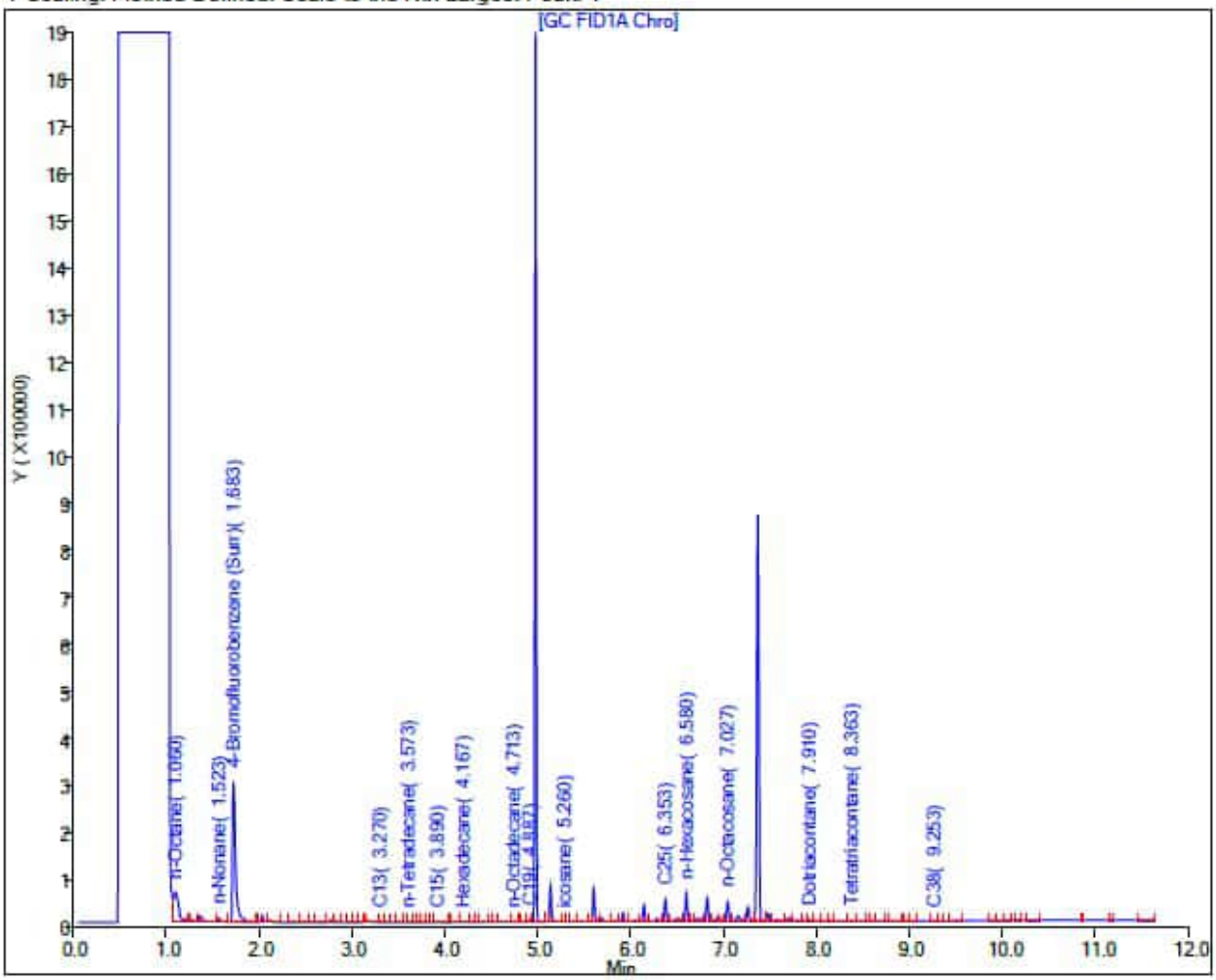
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Oct-2022 14:35:27 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A046.D				
Injection Date:	27-Oct-2022 23:00:57	Instrument ID:	TAC129		
Lims ID:	580-119111-O-7-A	Lab Sample ID:	580-119111-7		
Client ID:	OWDFMW07A-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

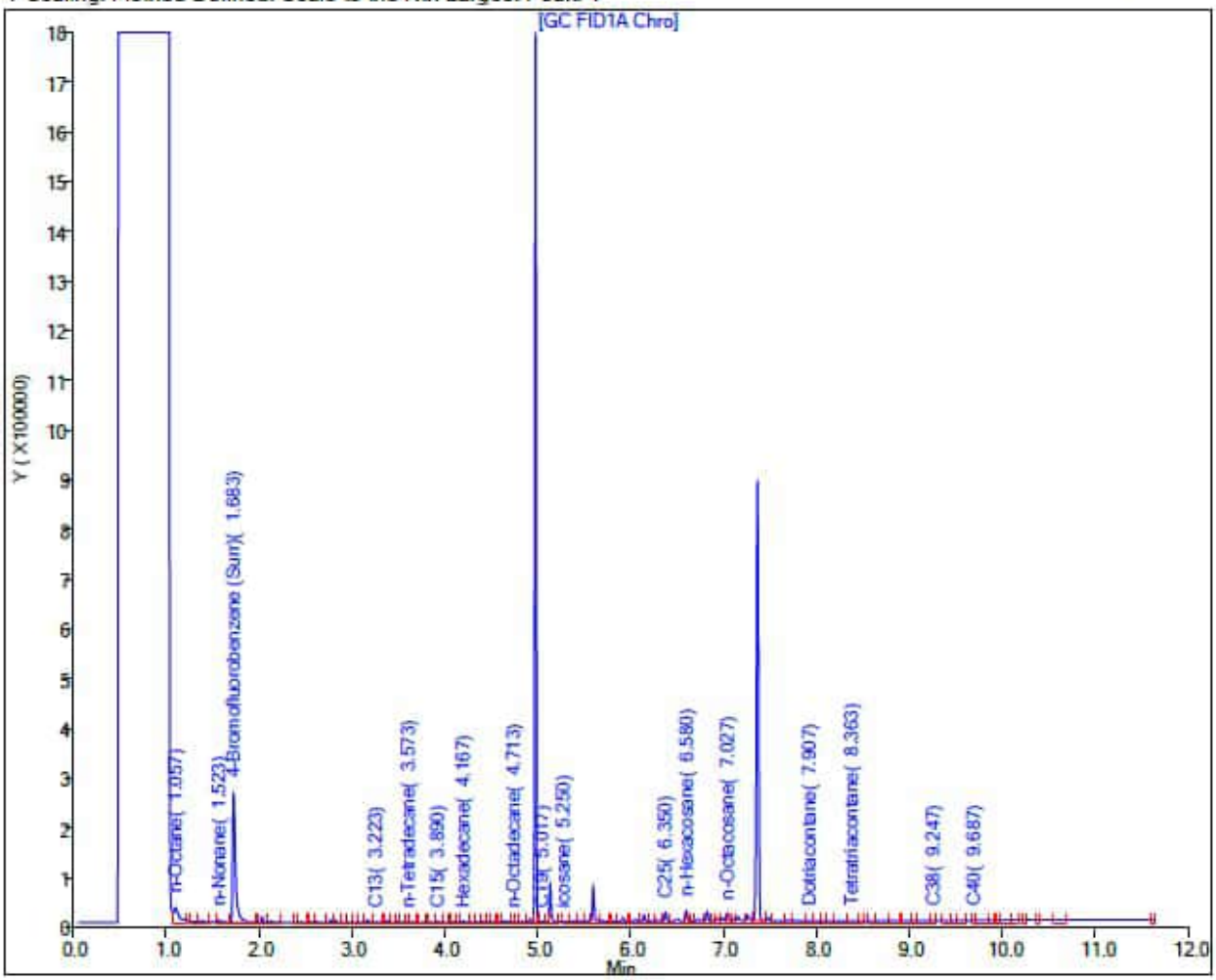
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:50:58 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A040.D				
Injection Date:	29-Oct-2022 01:31:51	Instrument ID:	TAC129		
Lims ID:	580-119162-N-1-A	Lab Sample ID:	580-119162-1		
Client ID:	OWDFMW07A-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

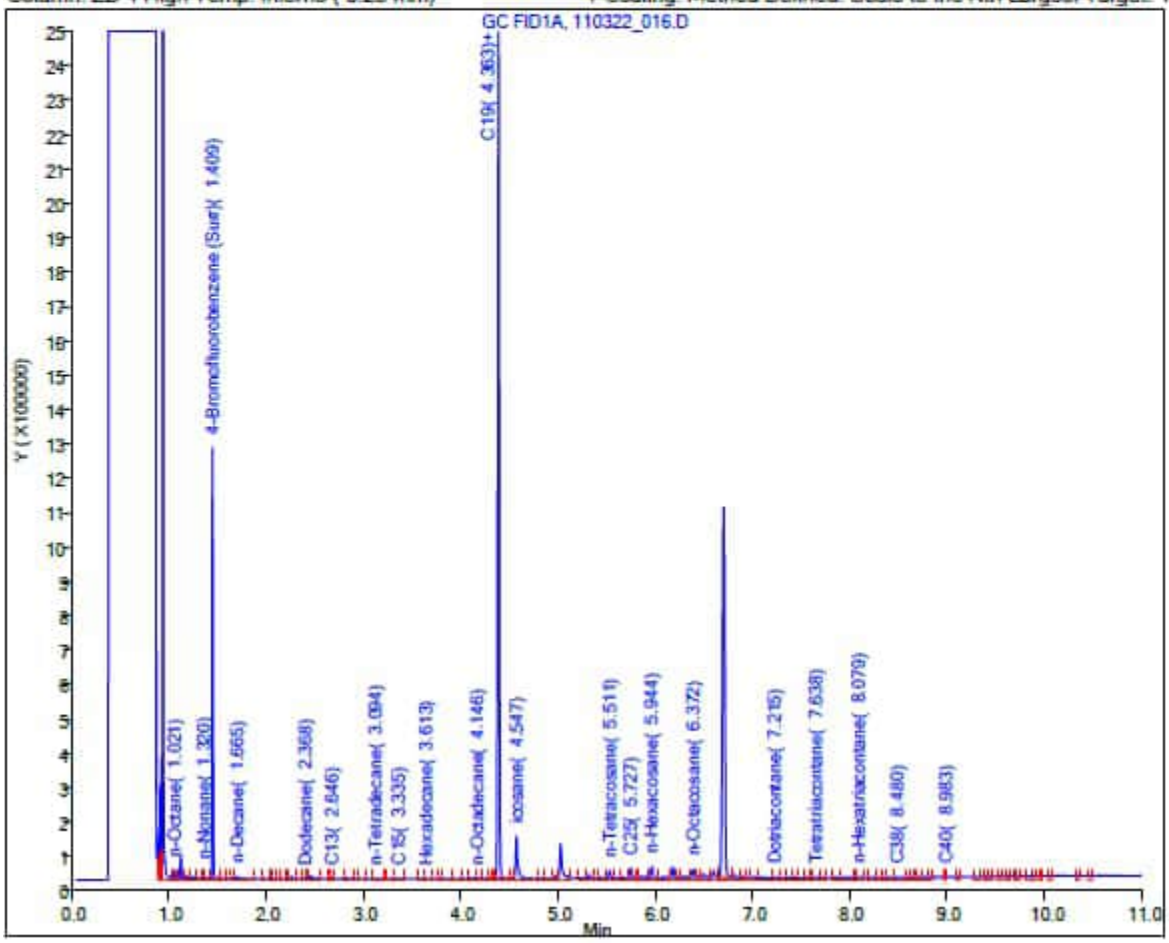
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 04-Nov-2022 13:43:57 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_016.D				
Injection Date:	03-Nov-2022 19:53:30	Instrument ID:	TAC020		
Lims ID:	580-119481-O-1-A	Lab Sample ID:	580-119481-1		
Client ID:	OWDFMW07A-WGN02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

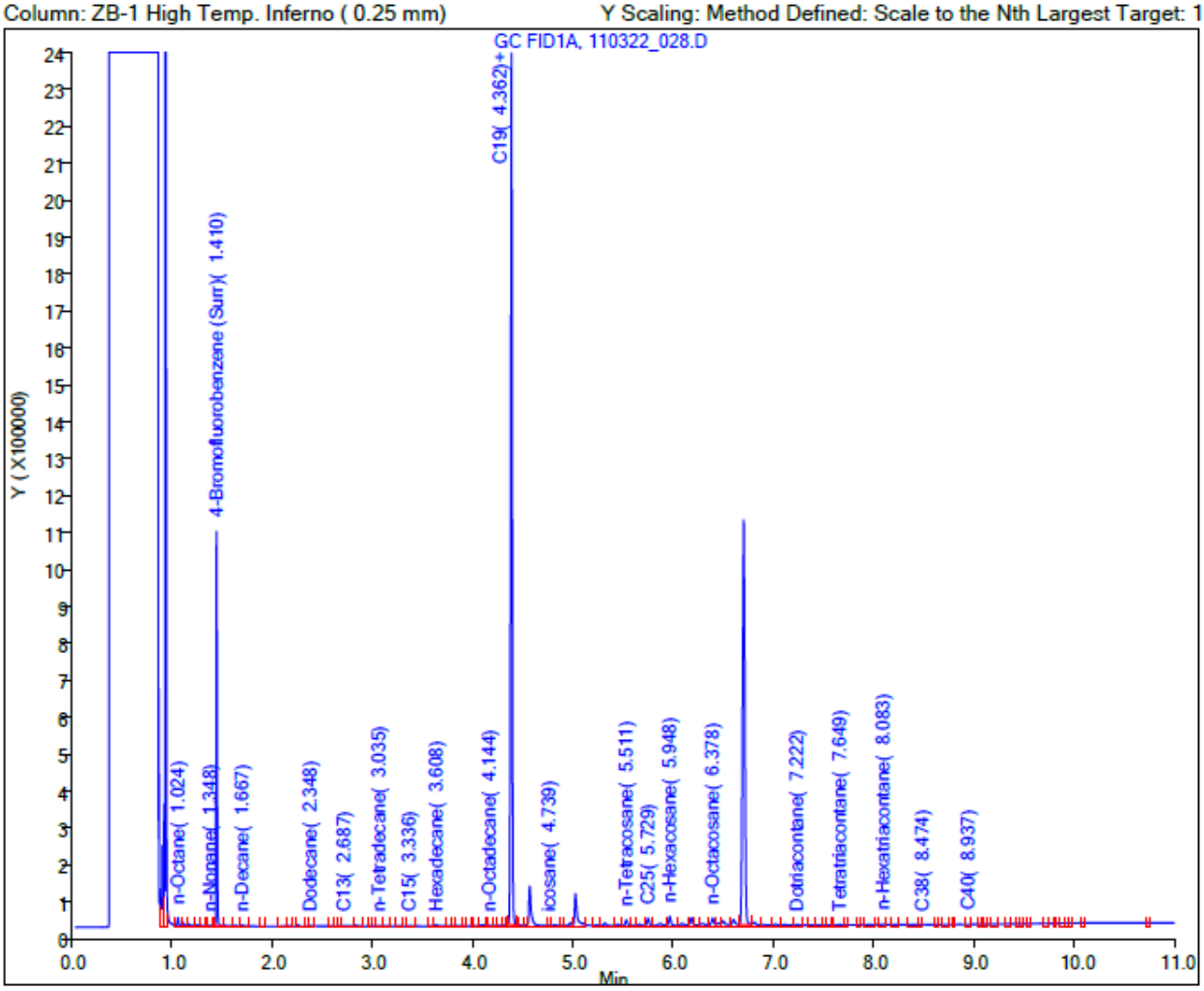
Results (ug/L): **TPH-d (C10 to C24) <82 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 13:45:13 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_028.D				
Injection Date:	03-Nov-2022 23:54:30	Instrument ID:	TAC020		
Lims ID:	580-119483-N-6-A	Lab Sample ID:	580-119483-6		
Client ID:	OWDFMW07A-WGN01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	27	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

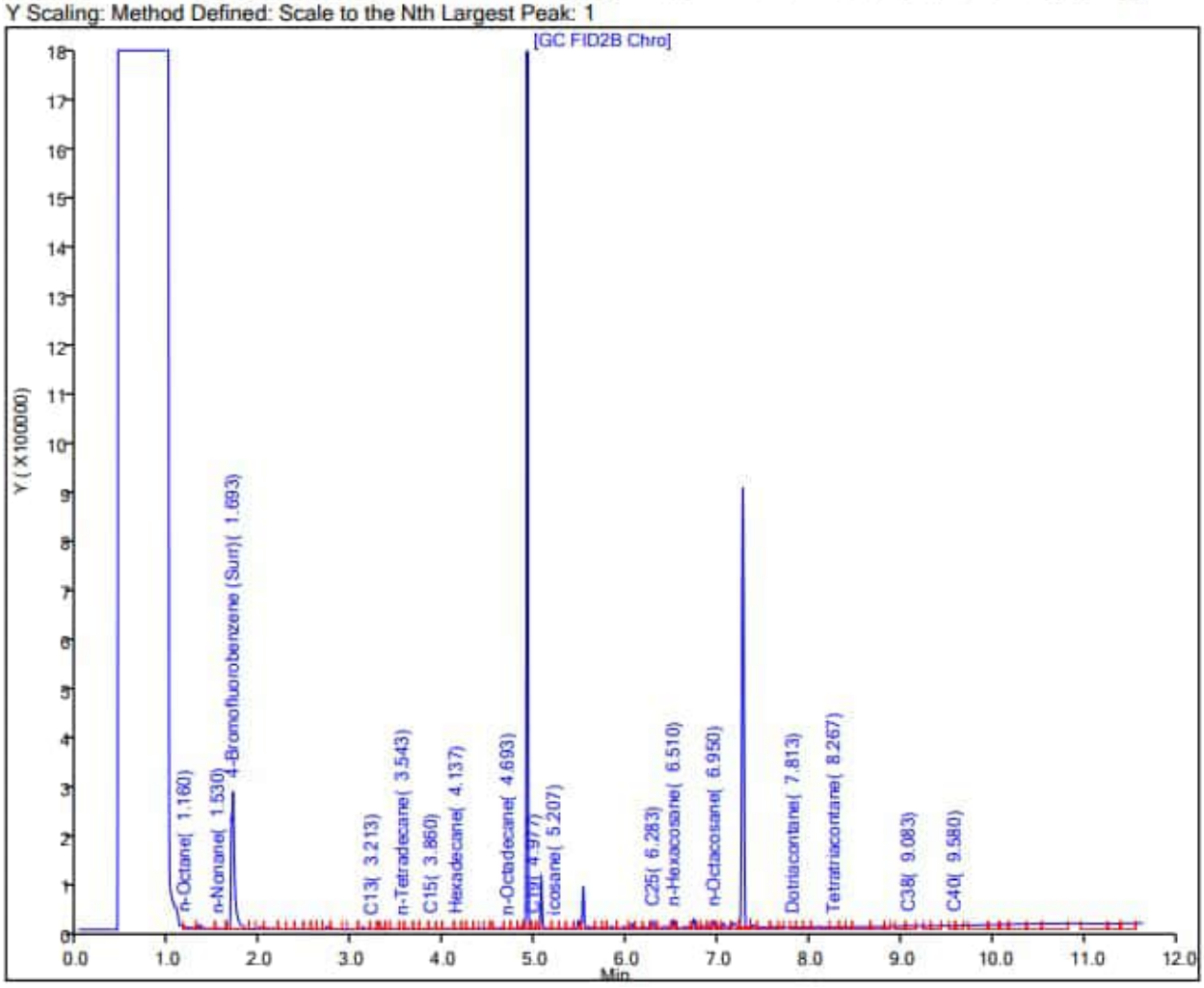
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 11-Nov-2022 16:01:03 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A023.D				
Injection Date:	10-Nov-2022 21:58:39	Instrument ID:	TAC129_R		
Lims ID:	580-119745-O-1-A	Lab Sample ID:	580-119745-1		
Client ID:	OWDFMW07A-WGN02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	40
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

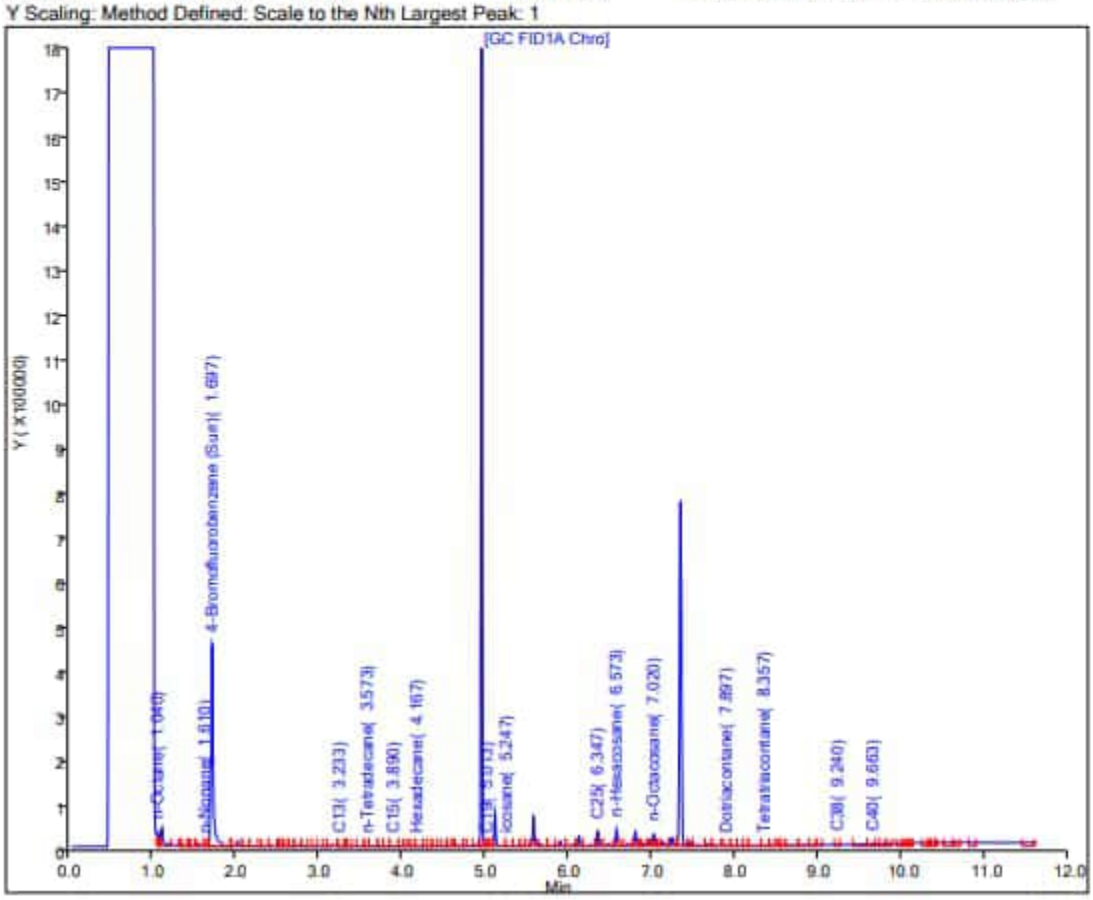
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 17-Nov-2022 11:37:55 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221116-85833.b\1116z22A018.D		
Injection Date:	17-Nov-2022 00:35:18	Instrument ID:	TAC129
Lims ID:	580-120006-N-10-A	Lab Sample ID:	580-120006-10
Client ID:	OWDFMW07A-WGN02LF-2211WK1		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 15
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

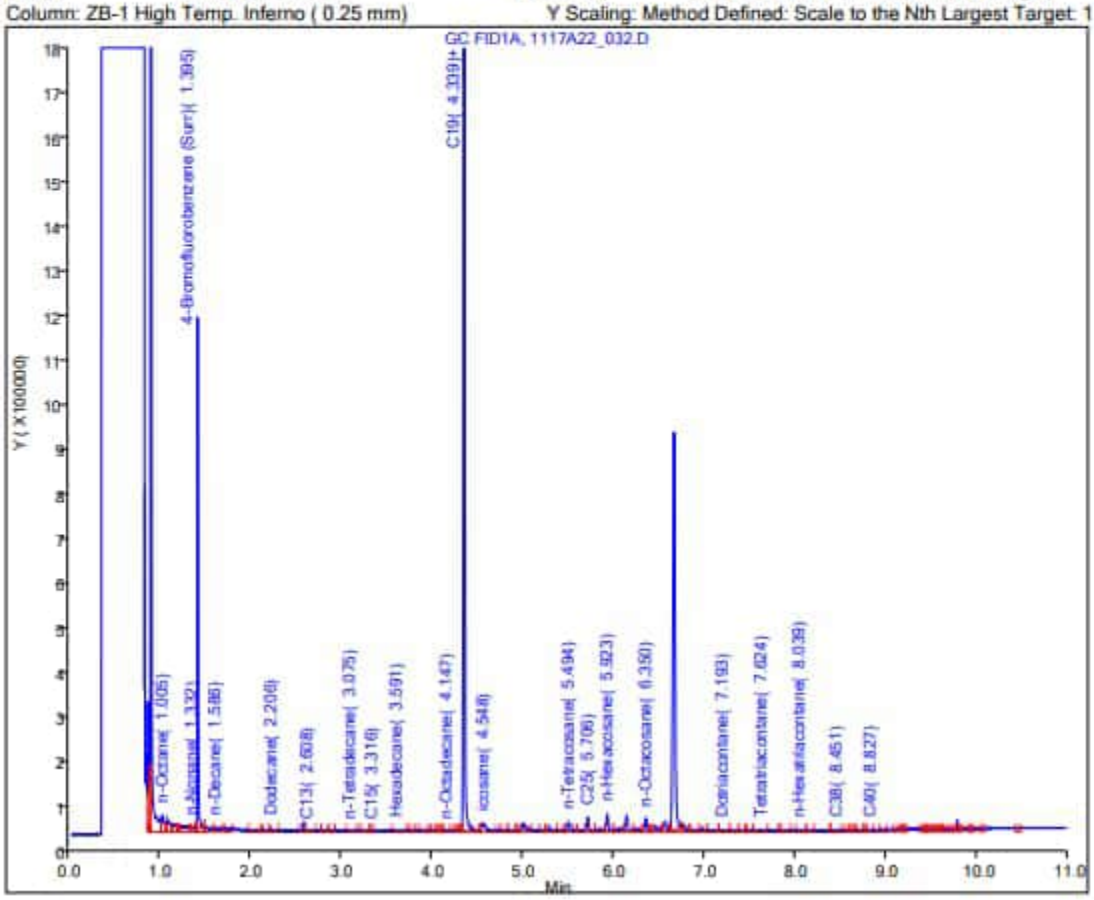
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 12:02:15 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_032.D		
Injection Date:	18-Nov-2022 06:01:30	Instrument ID:	TAC020
Lims ID:	580-120022-O-6-A	Lab Sample ID:	580-120022-6
Client ID:	OWDFMW07A-WGN01LF-2211WK2		
Operator ID:	DH/CC	ALS Bottle#:	31 Worklist Smp#: 34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN02LF-2211WK2 Sample Date: 11/18/2022
Lab: Eurofins Seattle

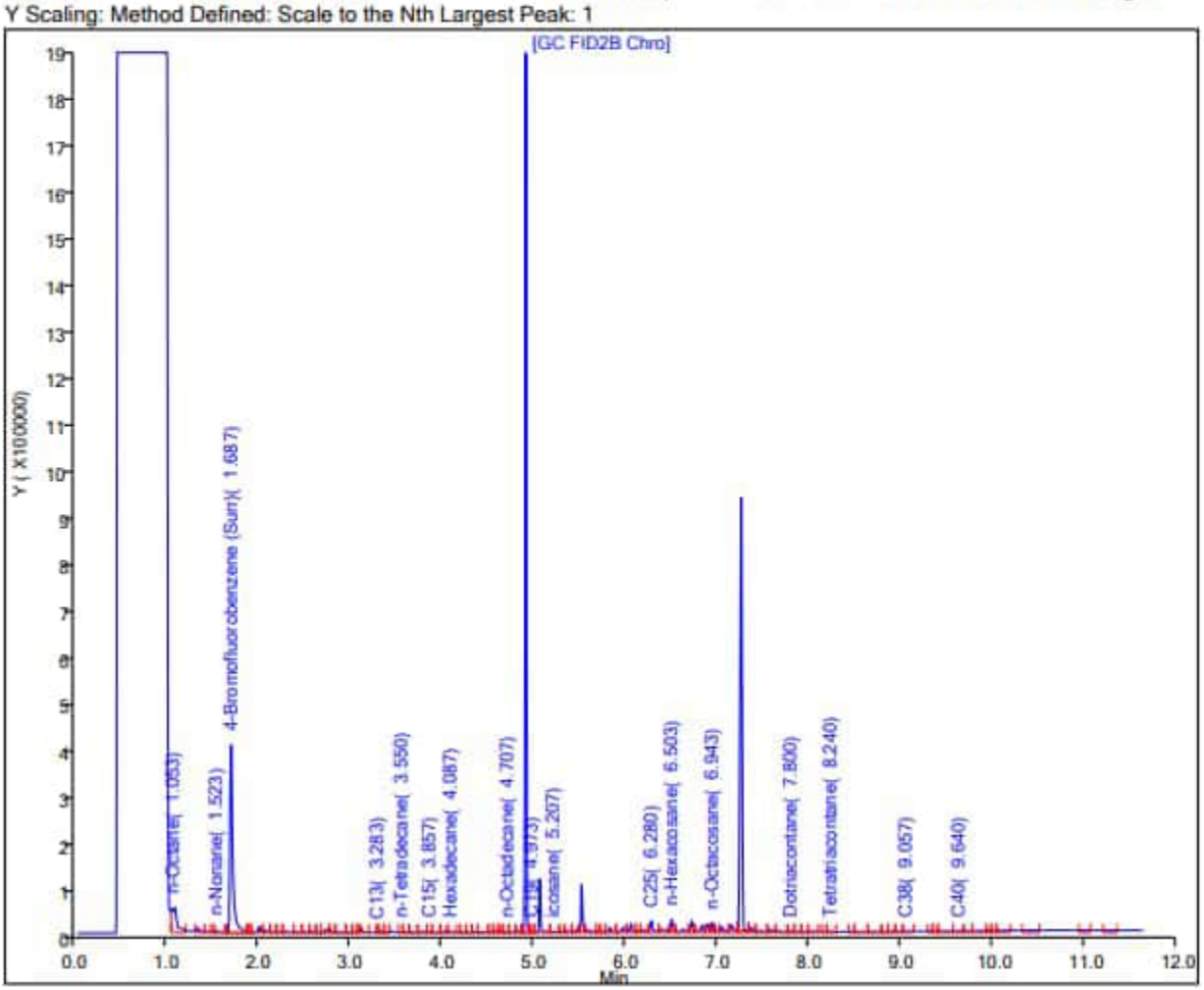
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 13:24:36 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A039.D		
Injection Date:	28-Nov-2022 22:05:00	Instrument ID:	TAC129_R
Lims ID:	580-120243-O-6-A	Lab Sample ID:	580-120243-6
Client ID:	OWDFMW07A-WGN02LF-2211WK2		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2211WK3 Sample Date: 11/20/2022
Lab: Eurofins Seattle

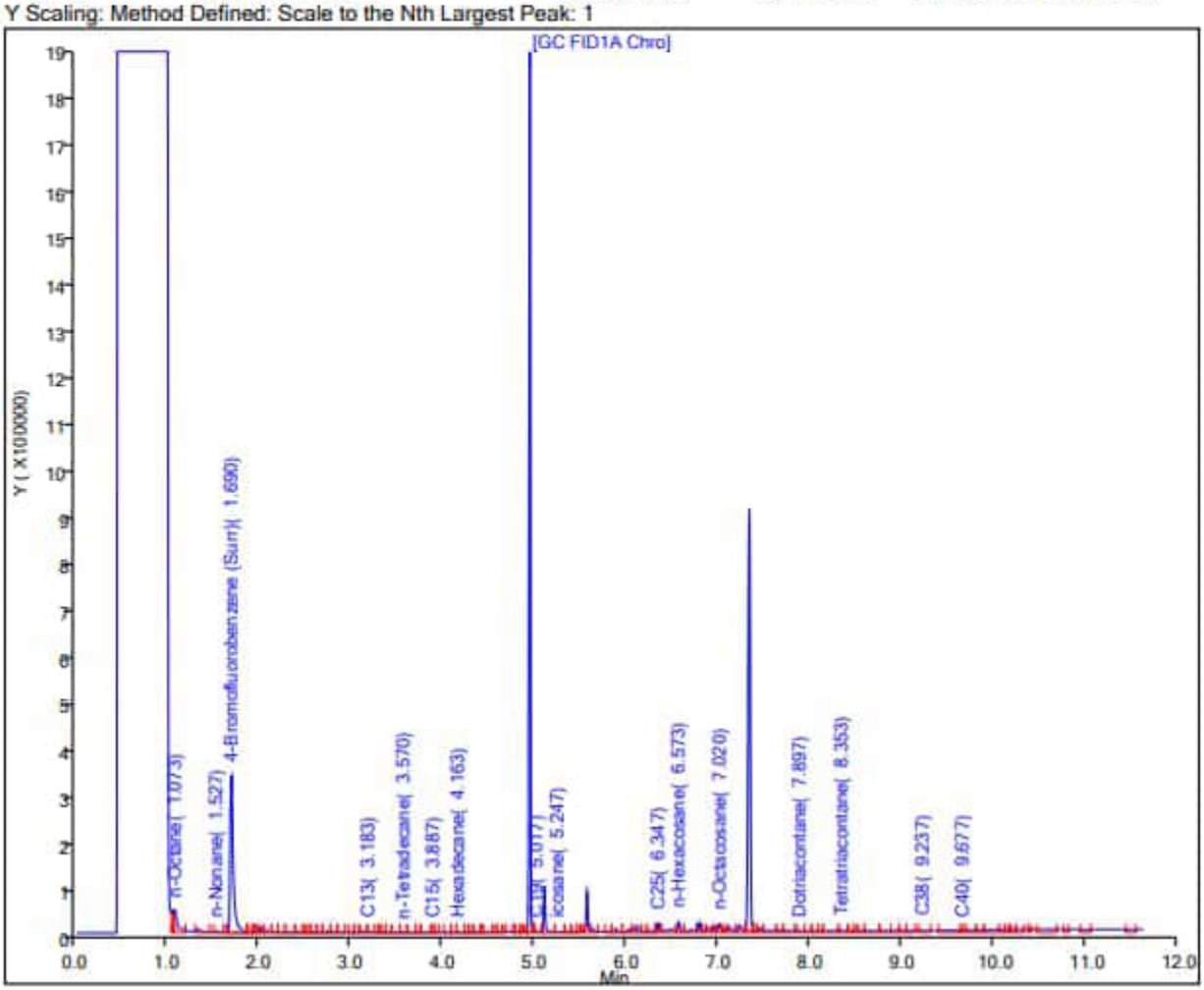
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 29-Nov-2022 12:58:53 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221128-85982.b\1128AA22A020.D				
Injection Date:	28-Nov-2022 18:59:04	Instrument ID:	TAC129		
Lims ID:	580-120311-O-13-A	Lab Sample ID:	580-120311-13		
Client ID:	OWDFMW07A-WGN01LF-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW07A** Sample ID: OWDFMW07A-WGN01LF-2211WK4 Sample Date: 11/28/2022
Lab: Eurofins Seattle

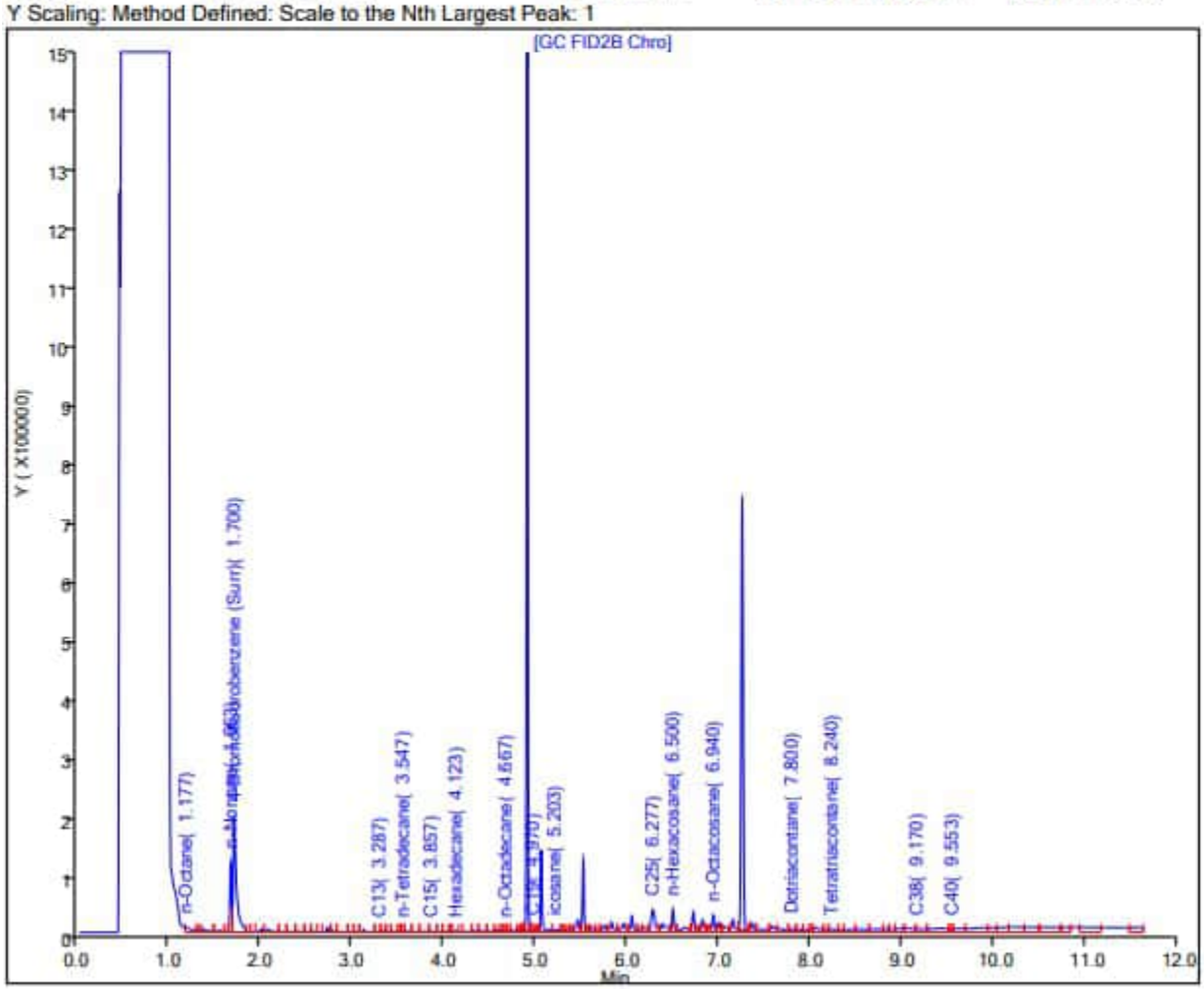
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 02-Dec-2022 17:20:16 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221201-86064.b\1201A22A017.D		
Injection Date:	02-Dec-2022 01:49:39	Instrument ID:	TAC129_R
Lims ID:	580-120490-N-3-A	Lab Sample ID:	580-120490-3
Client ID:	OWDFMW07A-WGN01LF-2211WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 9
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

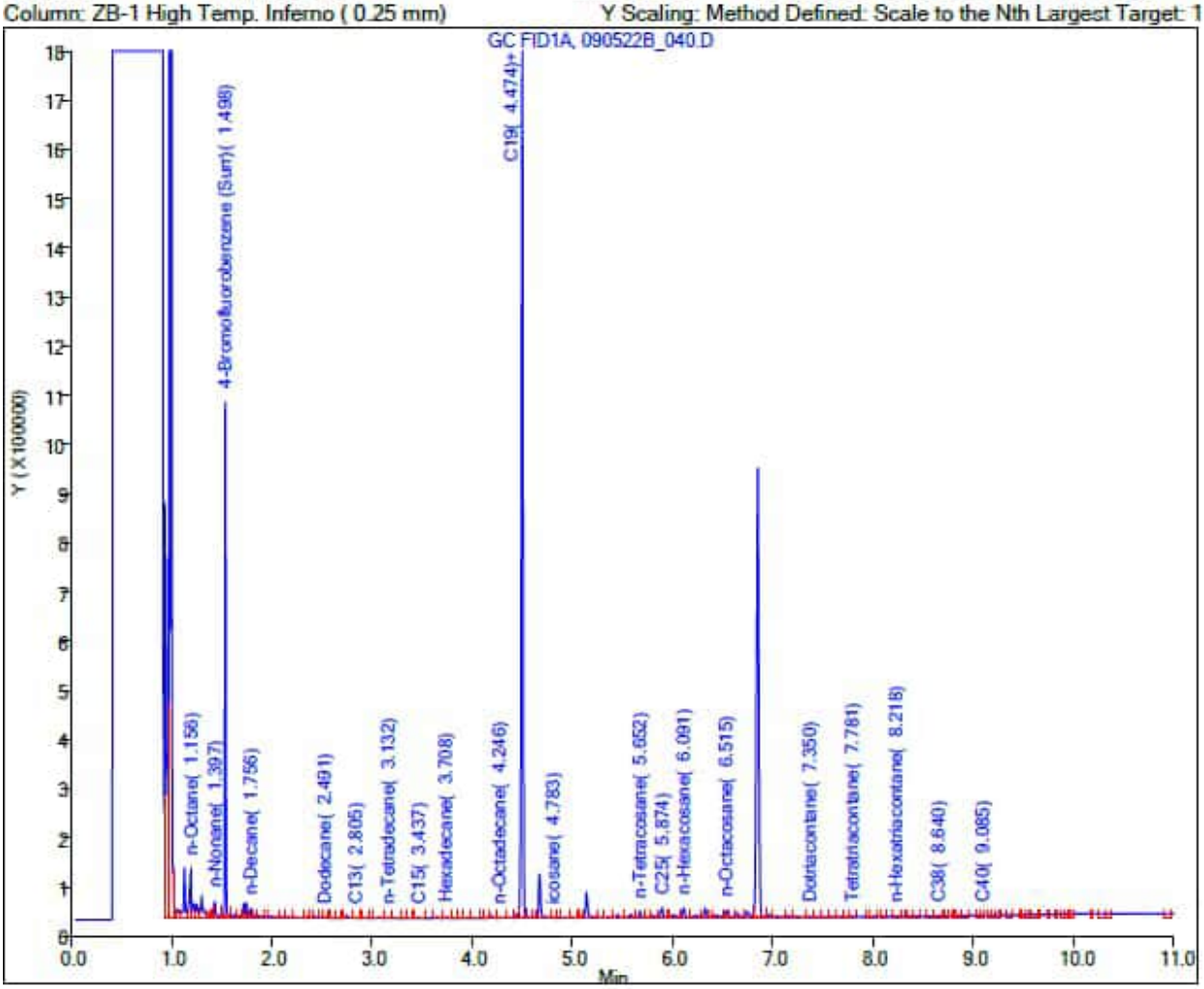
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 06-Sep-2022 11:46:18 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_040.D				
Injection Date:	06-Sep-2022 11:03:30	Instrument ID:	TAC020		
Lims ID:	580-117283-O-1-A	Lab Sample ID:	580-117283-1		
Client ID:	OWDFMW08A-WGN01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	39	Worklist Smp#:	102
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

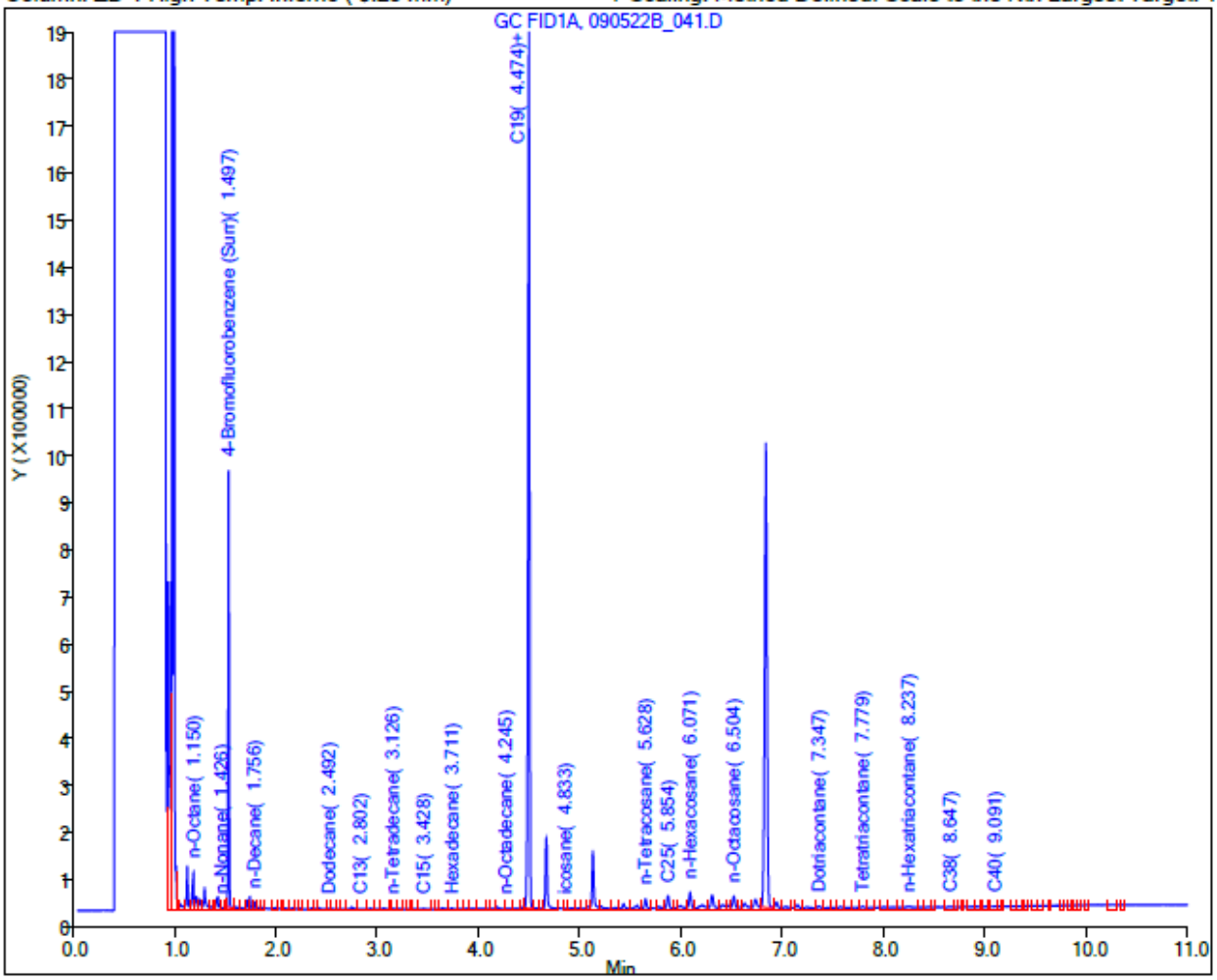
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 06-Sep-2022 11:46:40 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_041.D				
Injection Date:	06-Sep-2022 11:23:30	Instrument ID:	TAC020		
Lims ID:	580-117283-J-3-A	Lab Sample ID:	580-117283-3		
Client ID:	OWDFMW08A-WGFD01LF-2208WK4				
Operator ID:	DH	ALS Bottle#:	40	Worklist Smp#:	103
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2208WK5 Sample Date: 8/31/2022
Lab: Eurofins Seattle

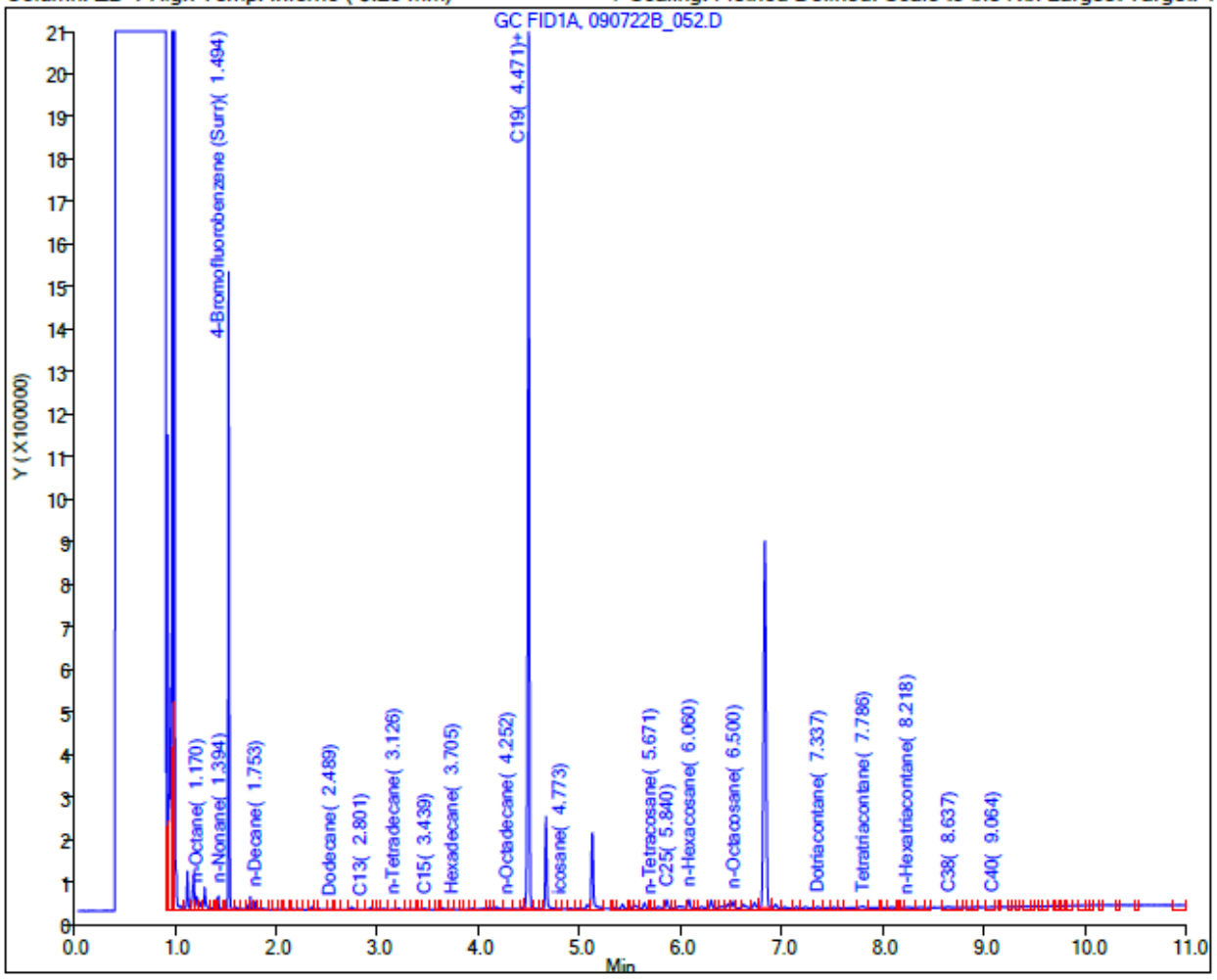
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 08-Sep-2022 19:27:05 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_052.D				
Injection Date:	08-Sep-2022 16:46:30	Instrument ID:	TAC020		
Lims ID:	580-117607-D-1-A	Lab Sample ID:	580-117607-1		
Client ID:	OWDFMW08A-WGN01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	51	Worklist Smp#:	34
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2208WK5 Sample Date: 8/31/2022
Lab: Eurofins Seattle

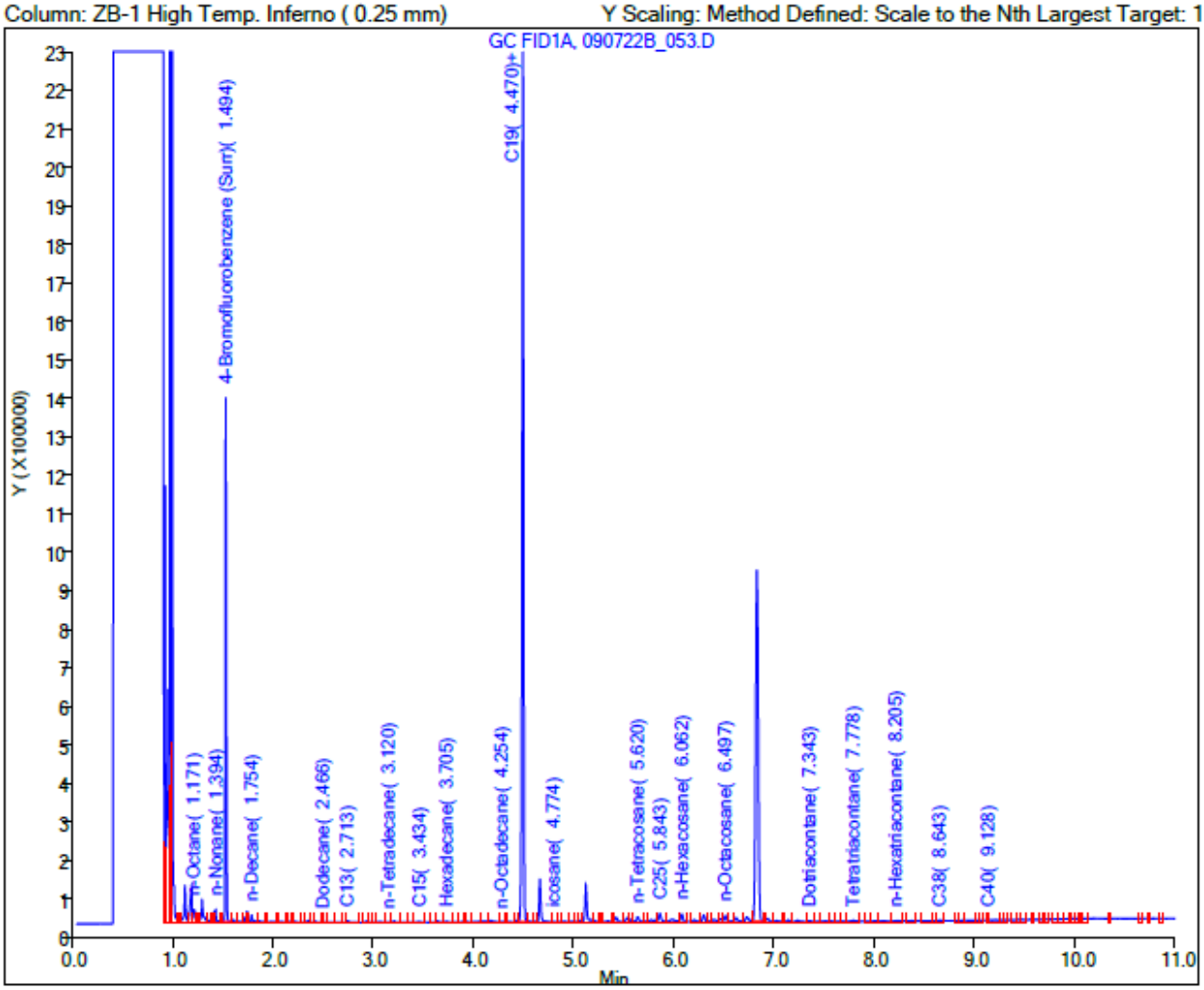
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 08-Sep-2022 19:27:09 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220907-84710.b\090722B_053.D				
Injection Date:	08-Sep-2022 17:07:30	Instrument ID:	TAC020		
Lims ID:	580-117607-D-3-A	Lab Sample ID:	580-117607-3		
Client ID:	OWDFMW08A-WGFD01LF-2208WK5				
Operator ID:	DH	ALS Bottle#:	52	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2209WK1 Sample Date: 9/8/2022
Lab: Eurofins Seattle

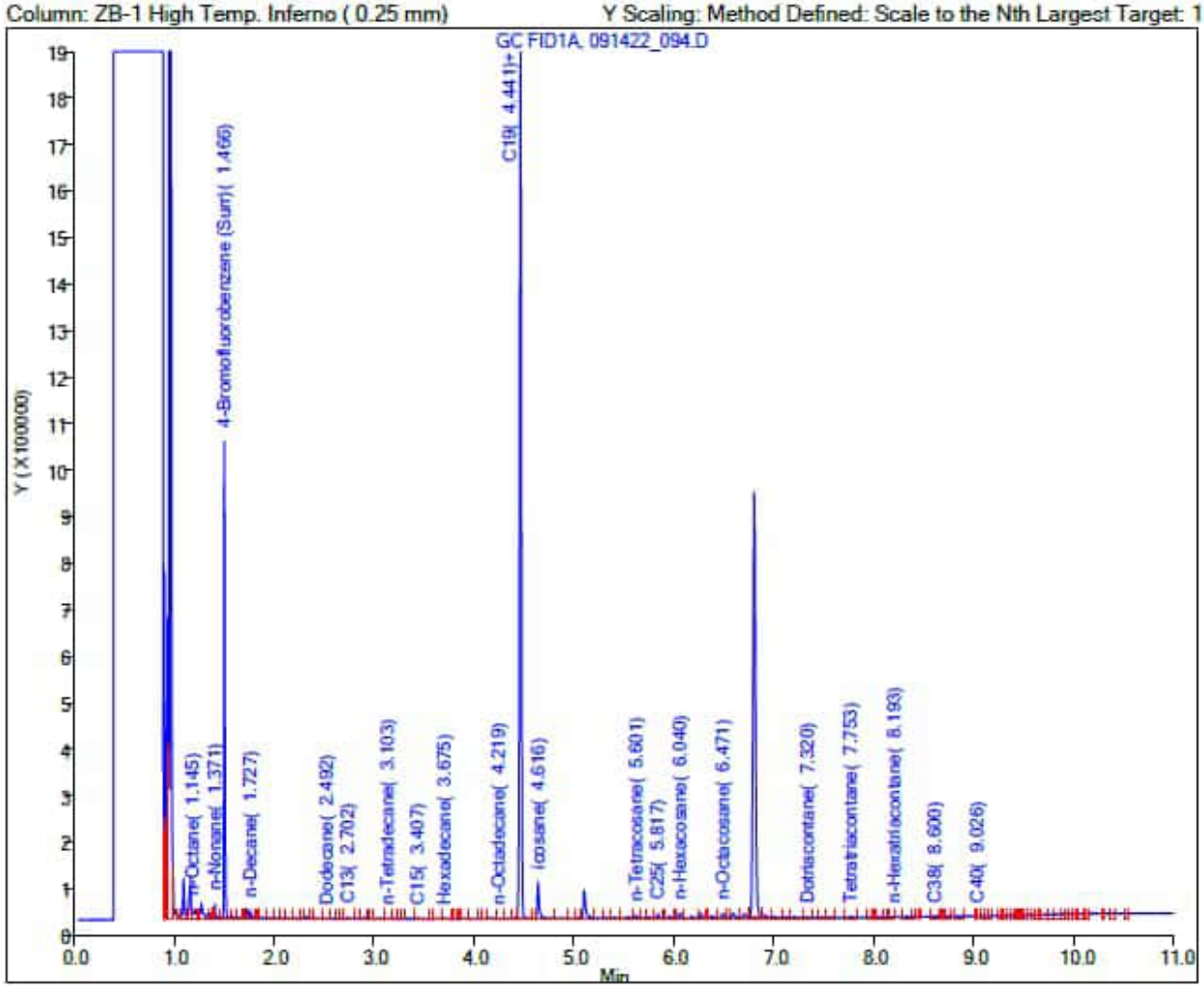
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 15-Sep-2022 14:58:59 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_094.D				
Injection Date:	14-Sep-2022 23:00:30	Instrument ID:	TAC020		
Lims ID:	580-117771-E-8-A	Lab Sample ID:	580-117771-8		
Client ID:	OWDFMW08A-WGN01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	94	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2209WK1 Sample Date: 9/8/2022
Lab: Eurofins Seattle

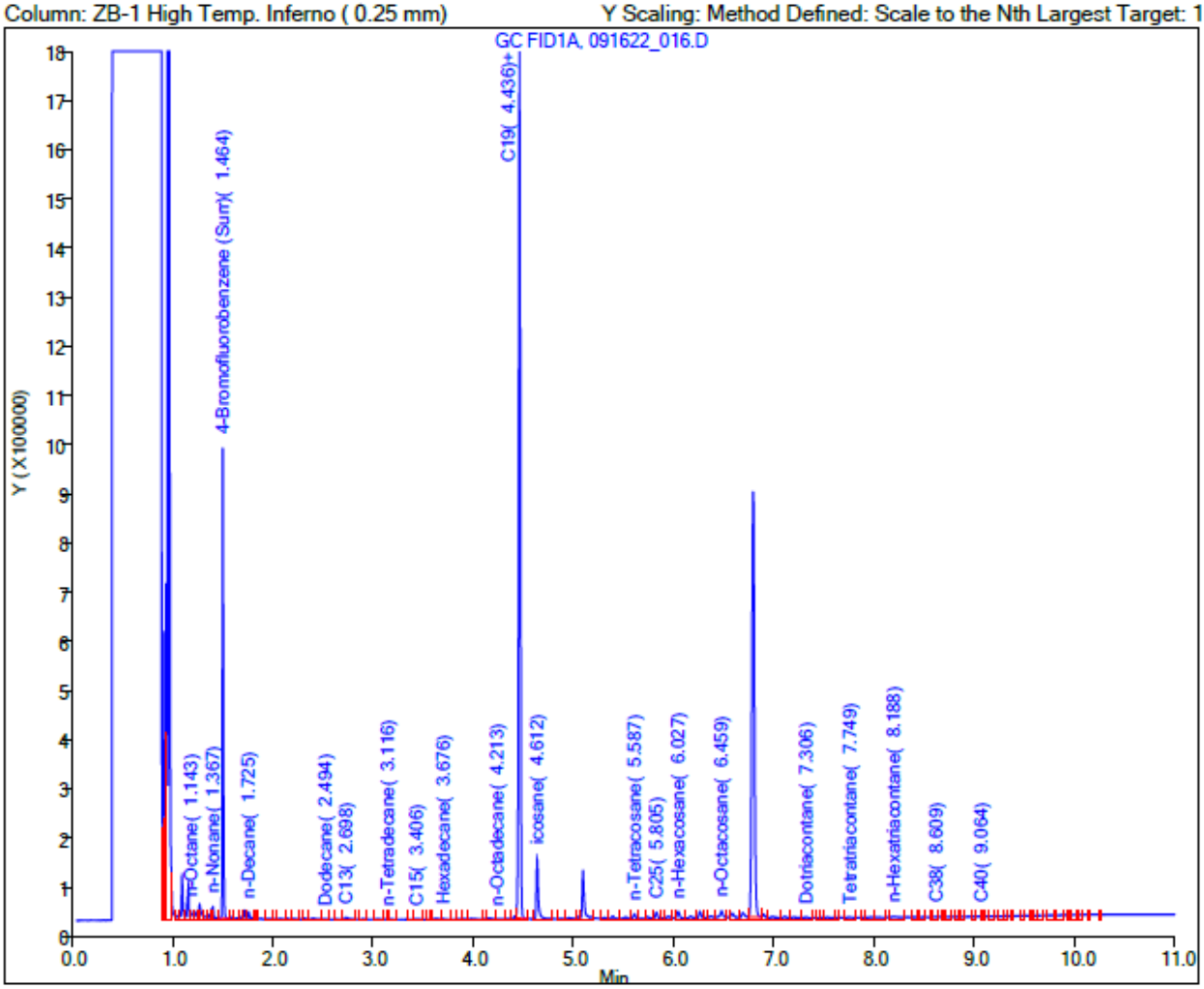
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 18-Sep-2022 14:51:59 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_016.D				
Injection Date:	16-Sep-2022 23:14:30	Instrument ID:	TAC020		
Lims ID:	580-117771-A-10-A	Lab Sample ID:	580-117771-10		
Client ID:	OWDFMW08A-WGFD01LF-2209WK1				
Operator ID:	DH	ALS Bottle#:	15	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2209WK4 Sample Date: 9/29/2022
Lab: Eurofins Seattle

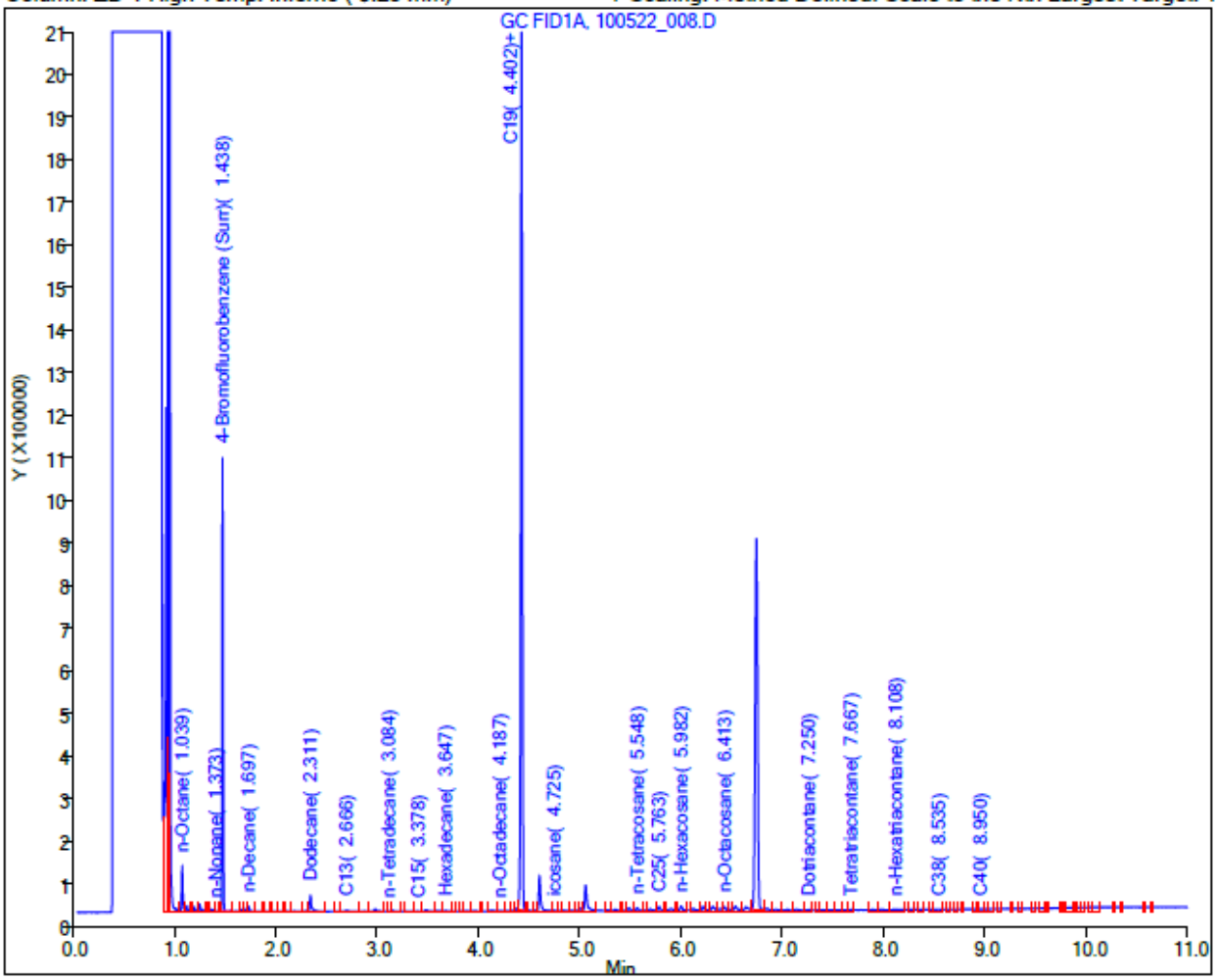
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 05-Oct-2022 18:54:34 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221005-85205.b\100522_008.D				
Injection Date:	05-Oct-2022 16:52:30	Instrument ID:	TAC020		
Lims ID:	580-118462-P-5-A	Lab Sample ID:	580-118462-5		
Client ID:	OWDFMW08A-WGN01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2209WK4 Sample Date: 9/29/2022
Lab: Eurofins Seattle

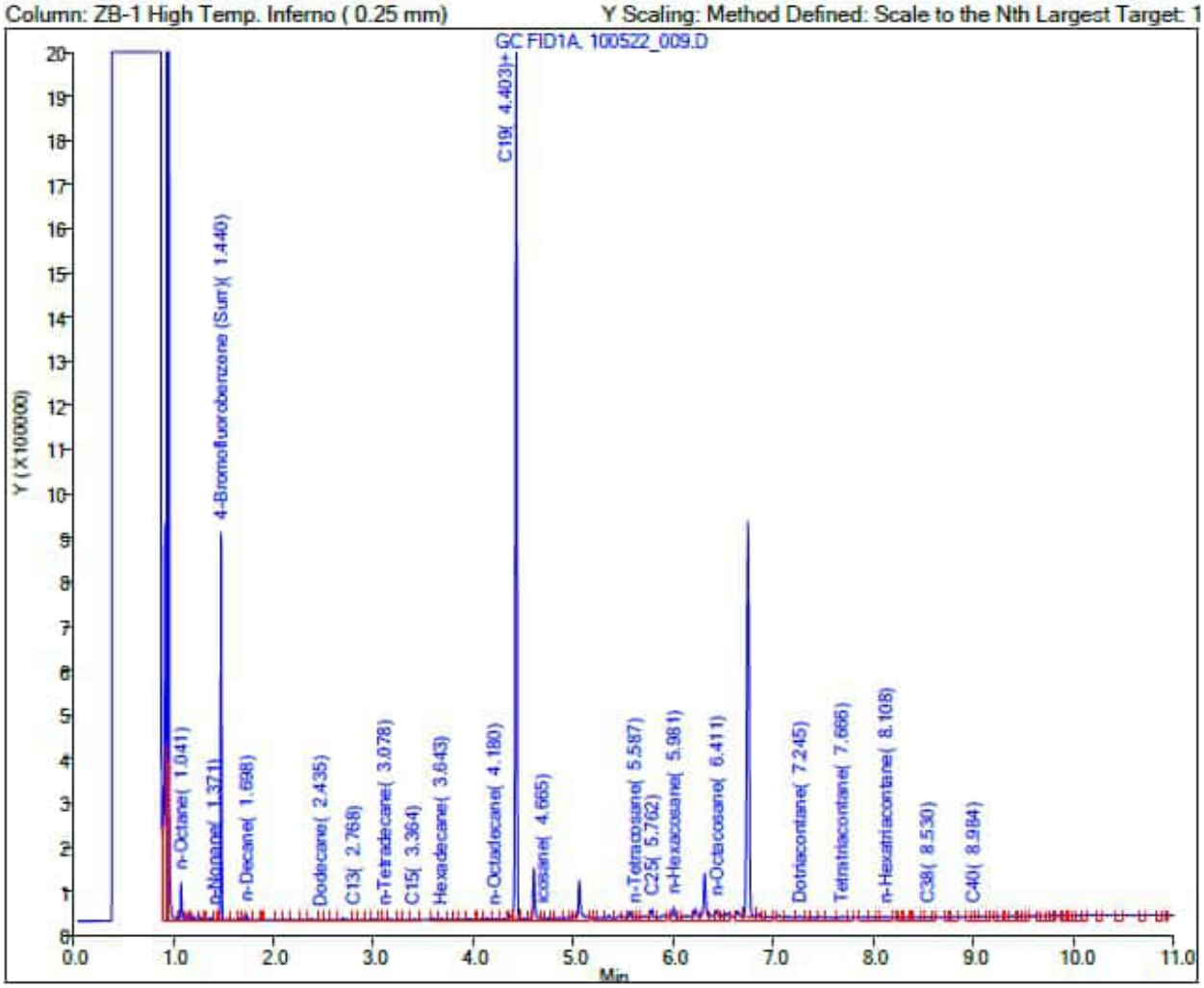
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 05-Oct-2022 18:54:39 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221005-85205.b\100522_009.D				
Injection Date:	05-Oct-2022 17:12:30	Instrument ID:	TAC020		
Lims ID:	580-118462-J-7-A	Lab Sample ID:	580-118462-7		
Client ID:	OWDFMW08A-WGFD01LF-2209WK4				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	61
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

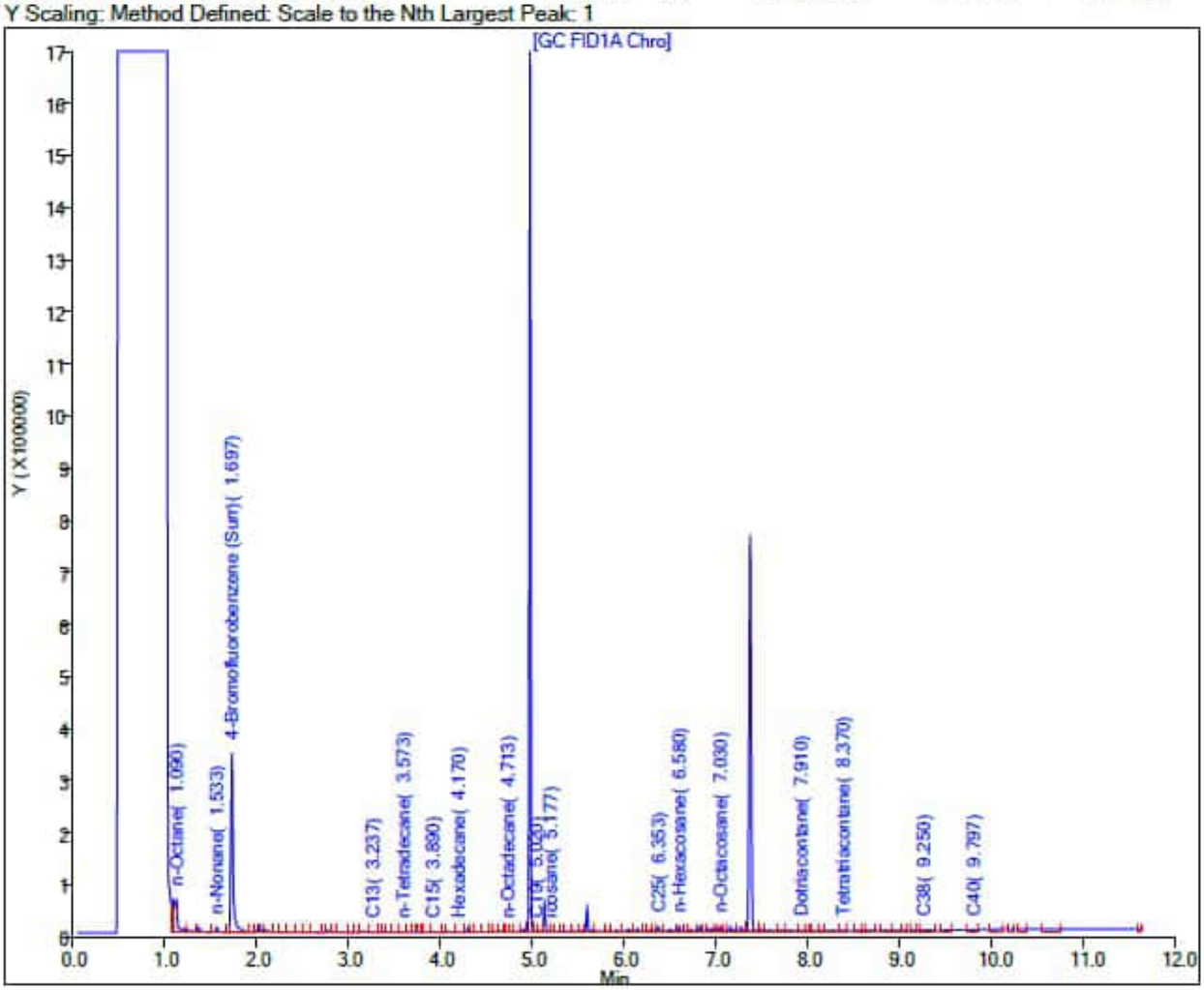
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 12-Oct-2022 13:56:55 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A034.D				
Injection Date:	11-Oct-2022 22:10:49	Instrument ID:	TAC129		
Lims ID:	580-118644-E-5-A	Lab Sample ID:	580-118644-5		
Client ID:	OWDFMW08A-WGN01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2210WK1 Sample Date: 10/6/2022
Lab: Eurofins Seattle

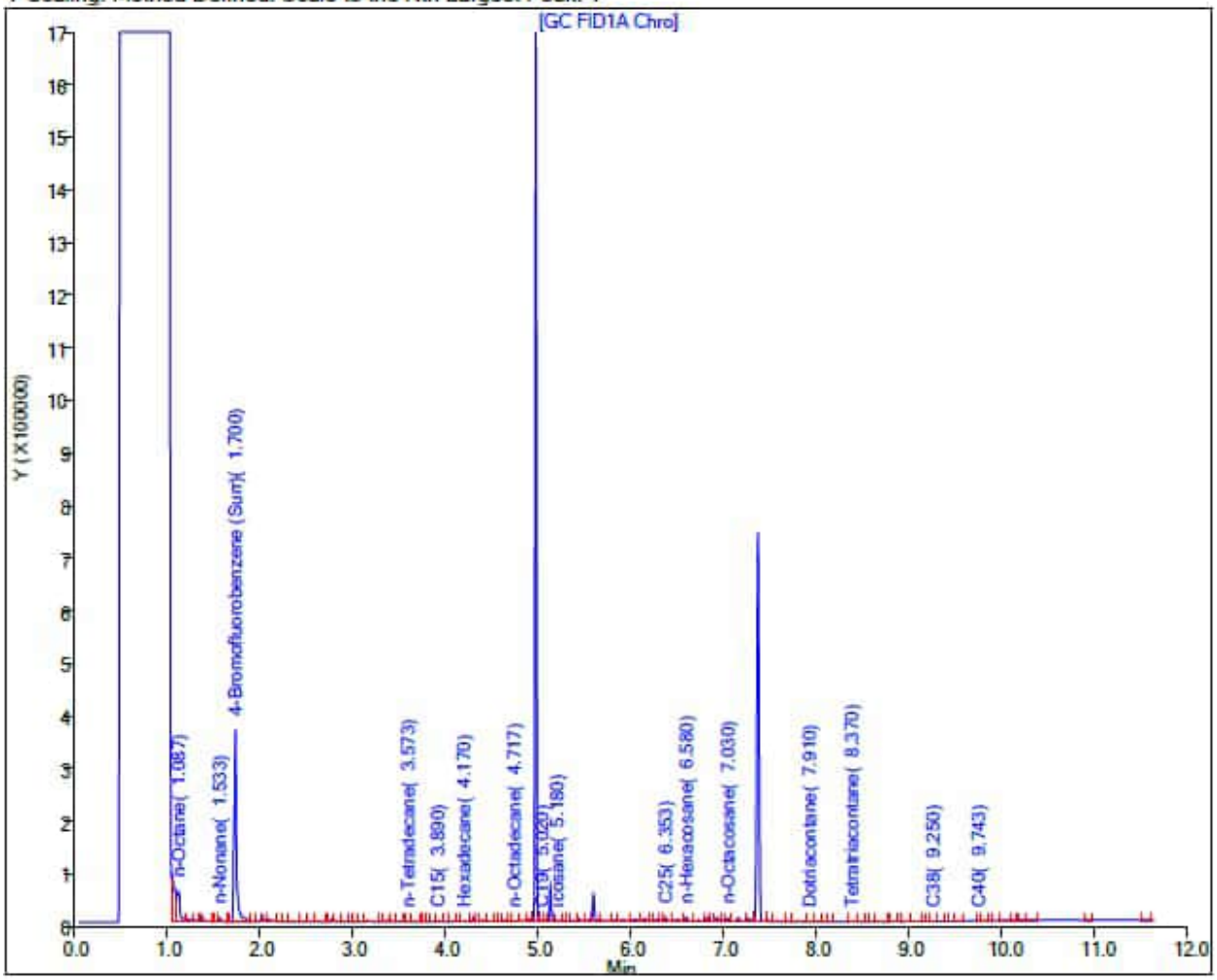
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 12-Oct-2022 13:57:00 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A036.D				
Injection Date:	11-Oct-2022 22:29:34	Instrument ID:	TAC129		
Lims ID:	580-118644-B-7-A	Lab Sample ID:	580-118644-7		
Client ID:	OWDFMW08A-WGFD01LF-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

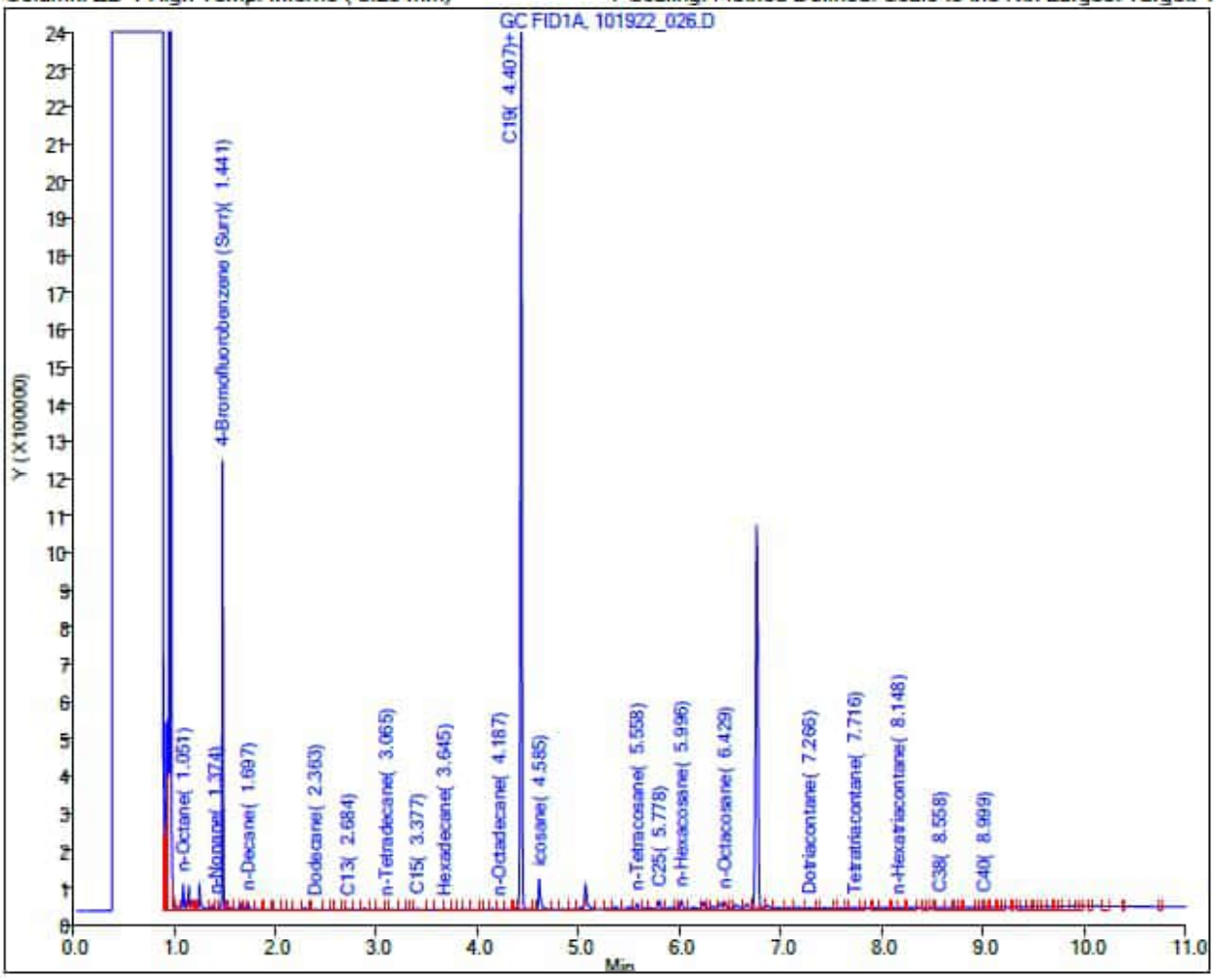
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 20-Oct-2022 13:41:55 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_026.D				
Injection Date:	20-Oct-2022 00:32:30	Instrument ID:	TAC020		
Lims ID:	580-118941-N-18-A	Lab Sample ID:	580-118941-18		
Client ID:	OWDFMW08A-WGN01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	53
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2210WK2 Sample Date: 10/15/2022
Lab: Eurofins Seattle

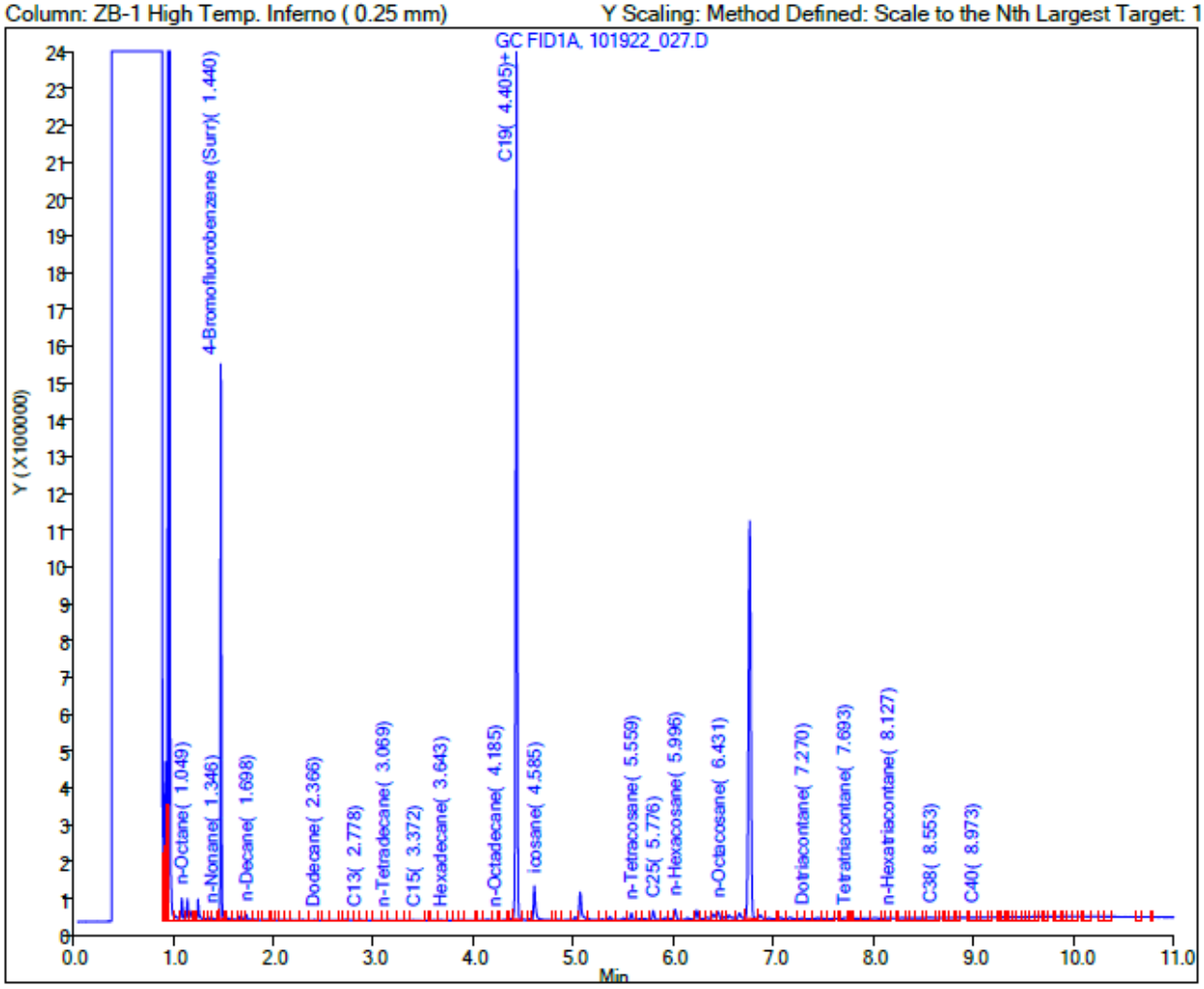
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 20-Oct-2022 13:42:03 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_027.D				
Injection Date:	20-Oct-2022 00:53:30	Instrument ID:	TAC020		
Lims ID:	580-118941-I-20-A	Lab Sample ID:	580-118941-20		
Client ID:	OWDFMW08A-WGFD01LF-2210WK2				
Operator ID:	DH	ALS Bottle#:	26	Worklist Smp#:	54
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

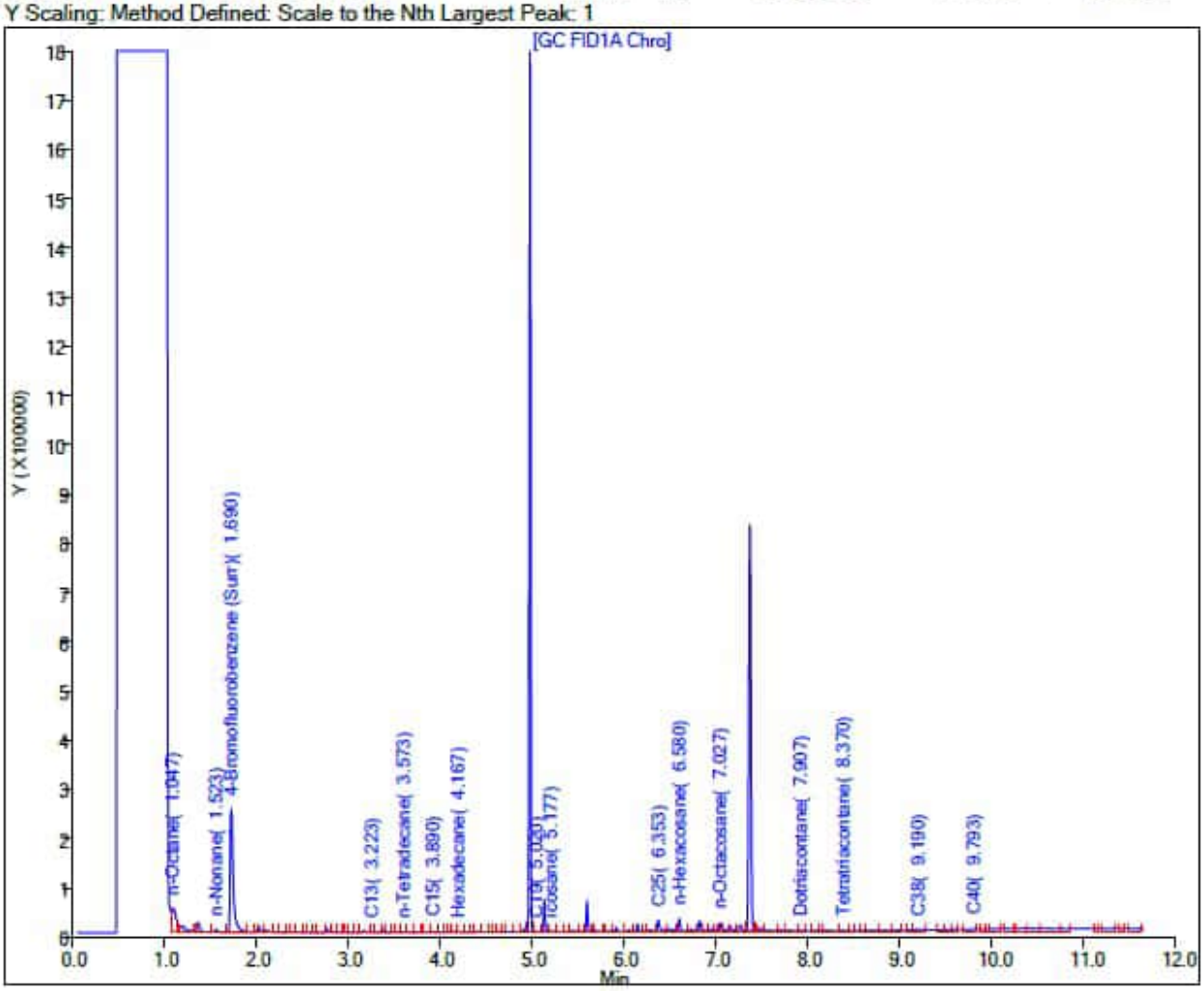
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Oct-2022 12:11:54 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A018.D				
Injection Date:	24-Oct-2022 20:08:46	Instrument ID:	TAC129		
Lims ID:	580-118964-O-7-A	Lab Sample ID:	580-118964-7		
Client ID:	OWDFMW08A-WGN01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	49
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2210WK3 Sample Date: 10/17/2022
Lab: Eurofins Seattle

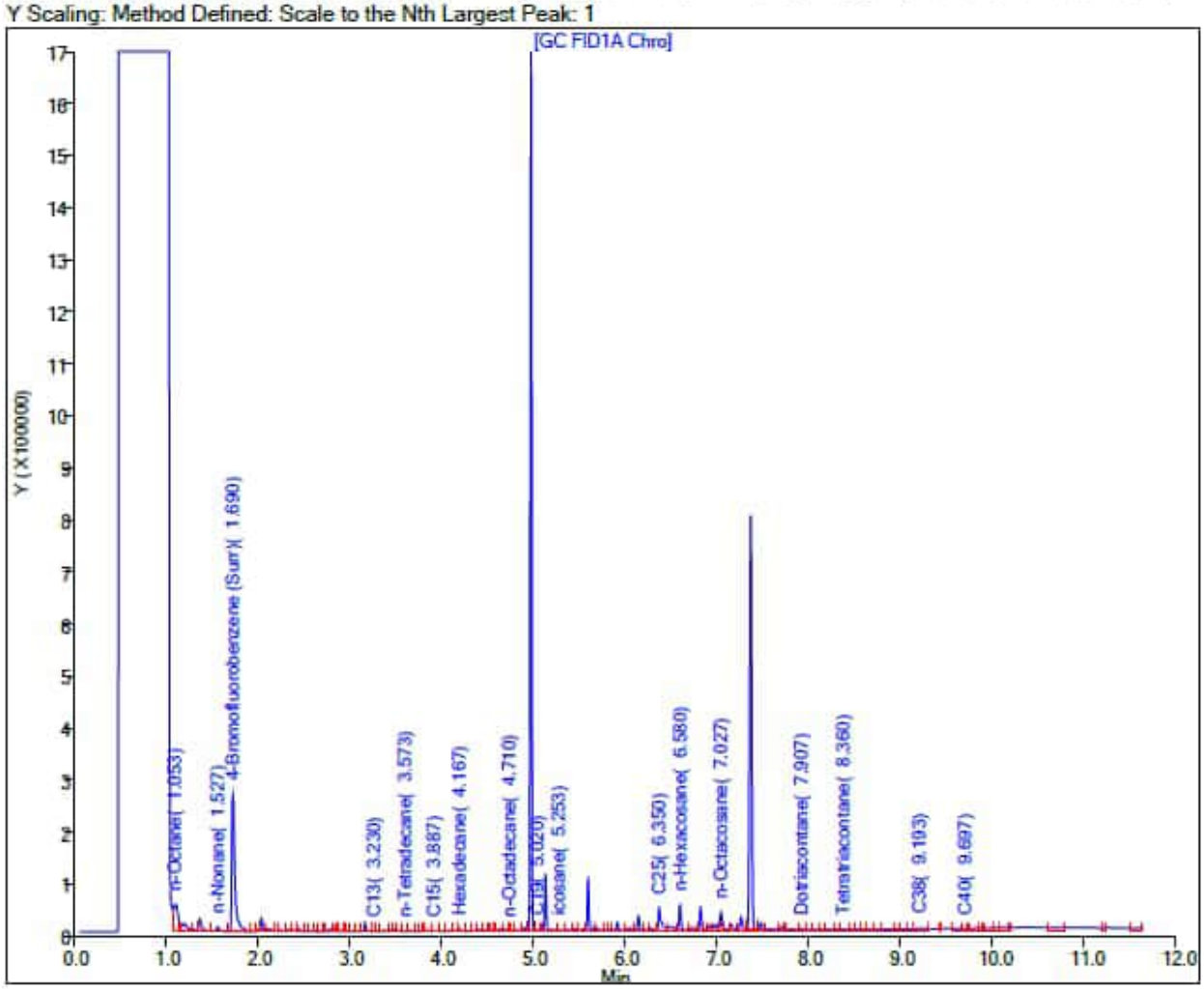
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 25-Oct-2022 12:11:57 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A020.D				
Injection Date:	24-Oct-2022 20:27:25	Instrument ID:	TAC129		
Lims ID:	580-118964-J-9-A	Lab Sample ID:	580-118964-9		
Client ID:	OWDFMW08A-WGFD01LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

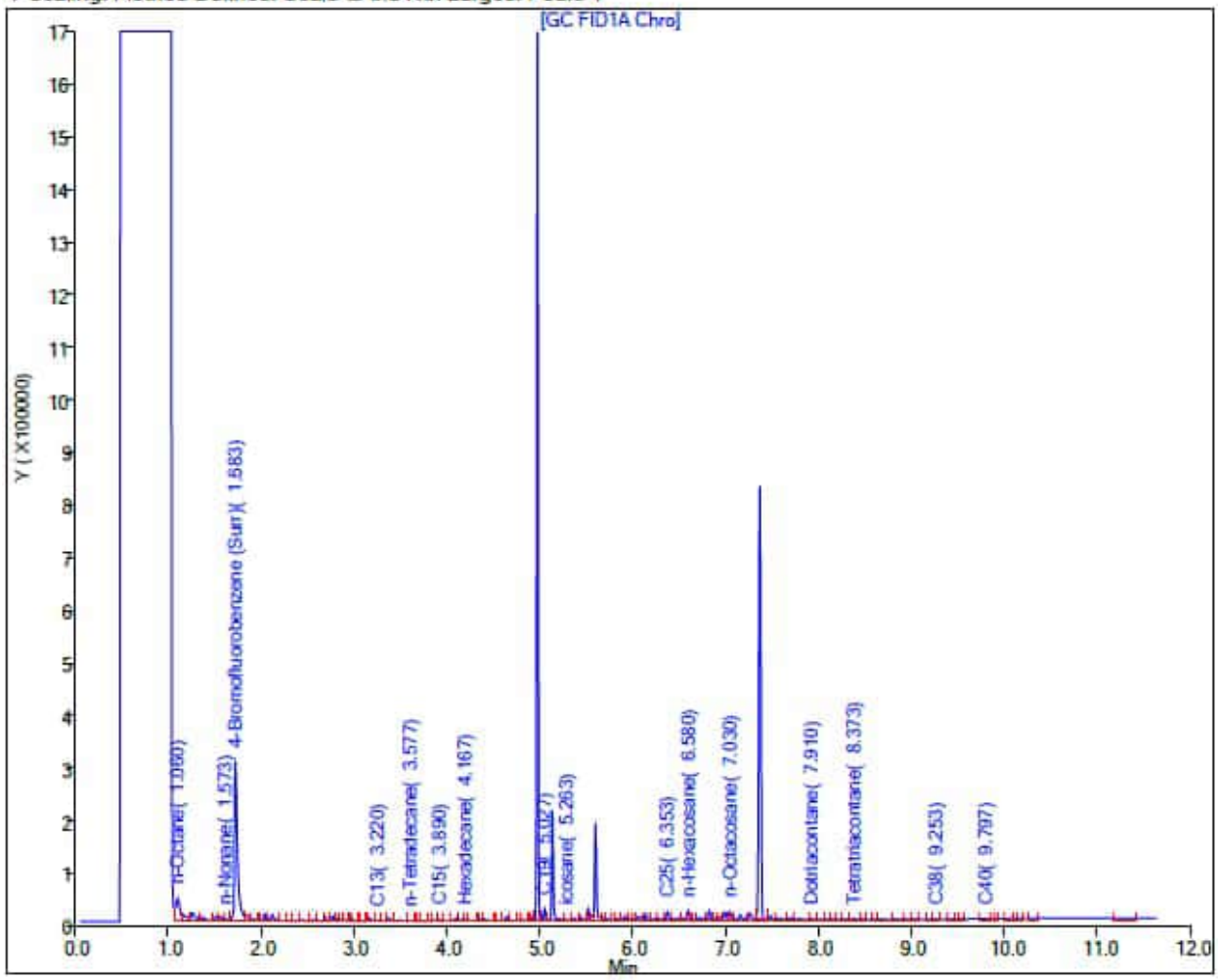
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 28-Oct-2022 14:35:20 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A040.D				
Injection Date:	27-Oct-2022 22:04:45	Instrument ID:	TAC129		
Lims ID:	580-119111-O-1-A	Lab Sample ID:	580-119111-1		
Client ID:	OWDFMW08A-WGN02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD02LF-2210WK3 Sample Date: 10/21/2022
Lab: Eurofins Seattle

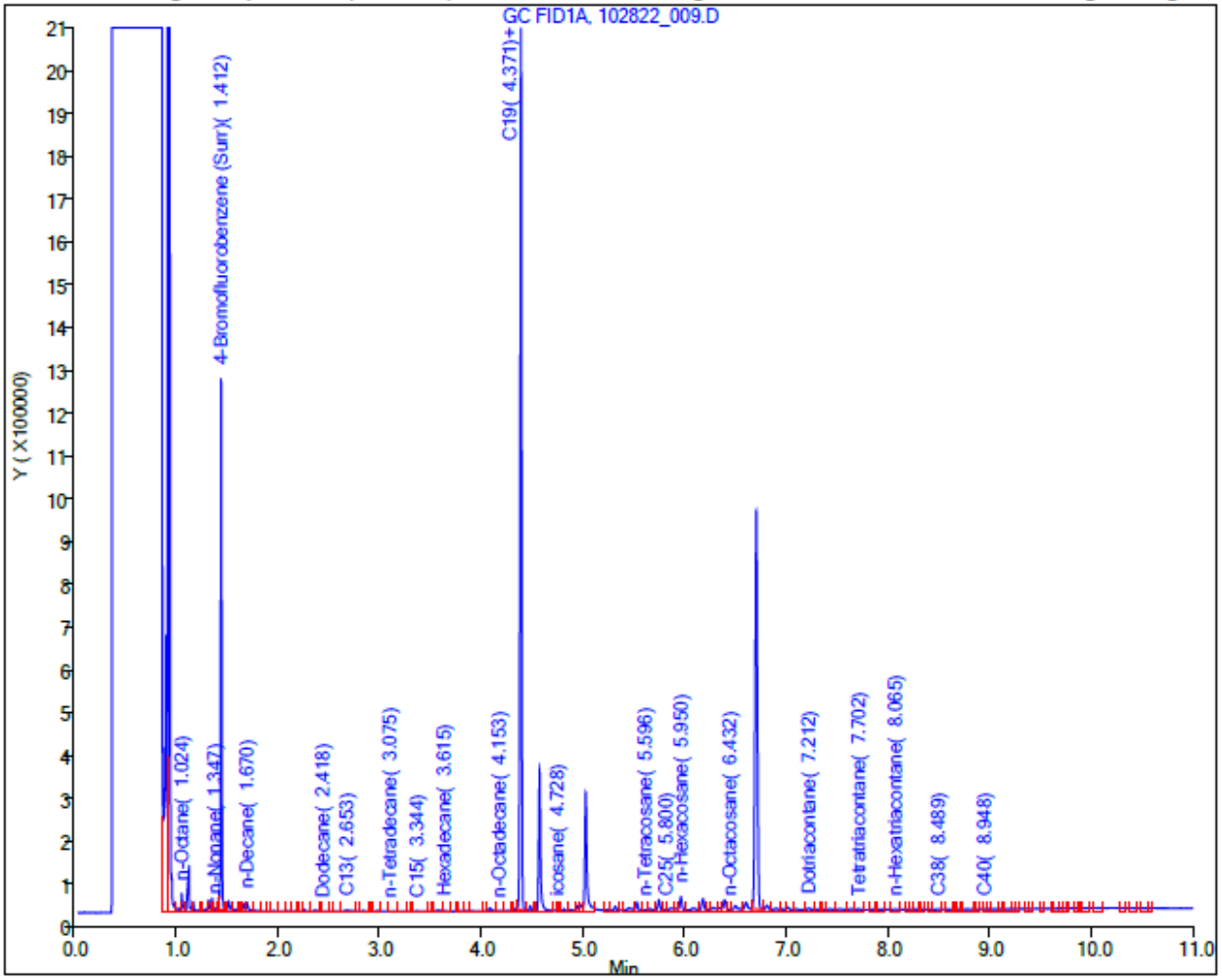
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 31-Oct-2022 14:31:56 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221028-85528.b\102822_009.D				
Injection Date:	28-Oct-2022 17:43:30	Instrument ID:	TAC020		
Lims ID:	580-119111-I-3-A	Lab Sample ID:	580-119111-3		
Client ID:	OWDFMW08A-WGFD02LF-2210WK3				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

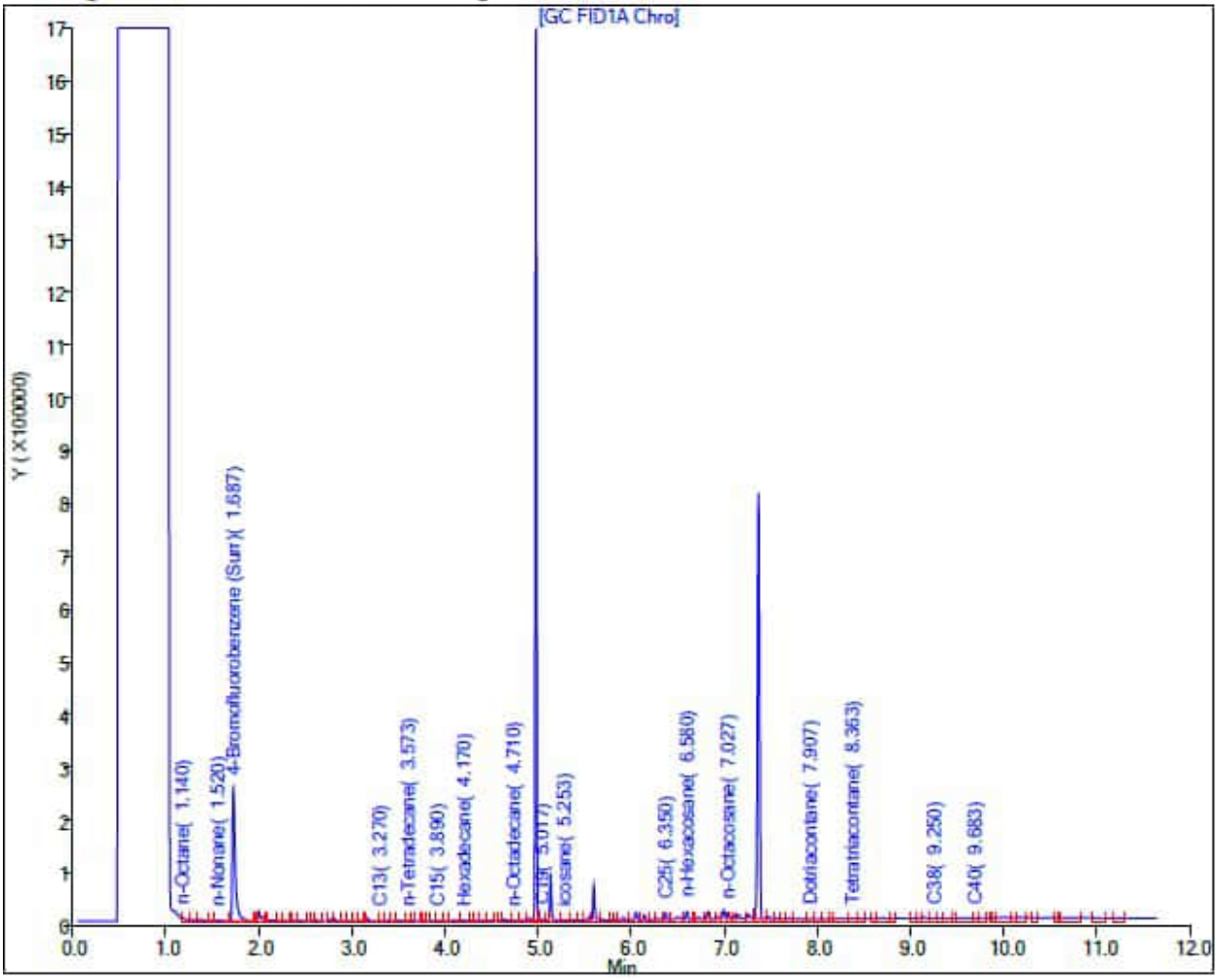
Results (ug/L): **TPH-d (C10 to C24) <97 U** **TPH-o (C24 to C40) <290 U**

Report Date: 31-Oct-2022 14:51:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A044.D				
Injection Date:	29-Oct-2022 02:08:57	Instrument ID:	TAC129		
Lims ID:	580-119162-N-8-A	Lab Sample ID:	580-119162-8		
Client ID:	OWDFMW08A-WGN01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2210WK4 Sample Date: 10/24/2022
Lab: Eurofins Seattle

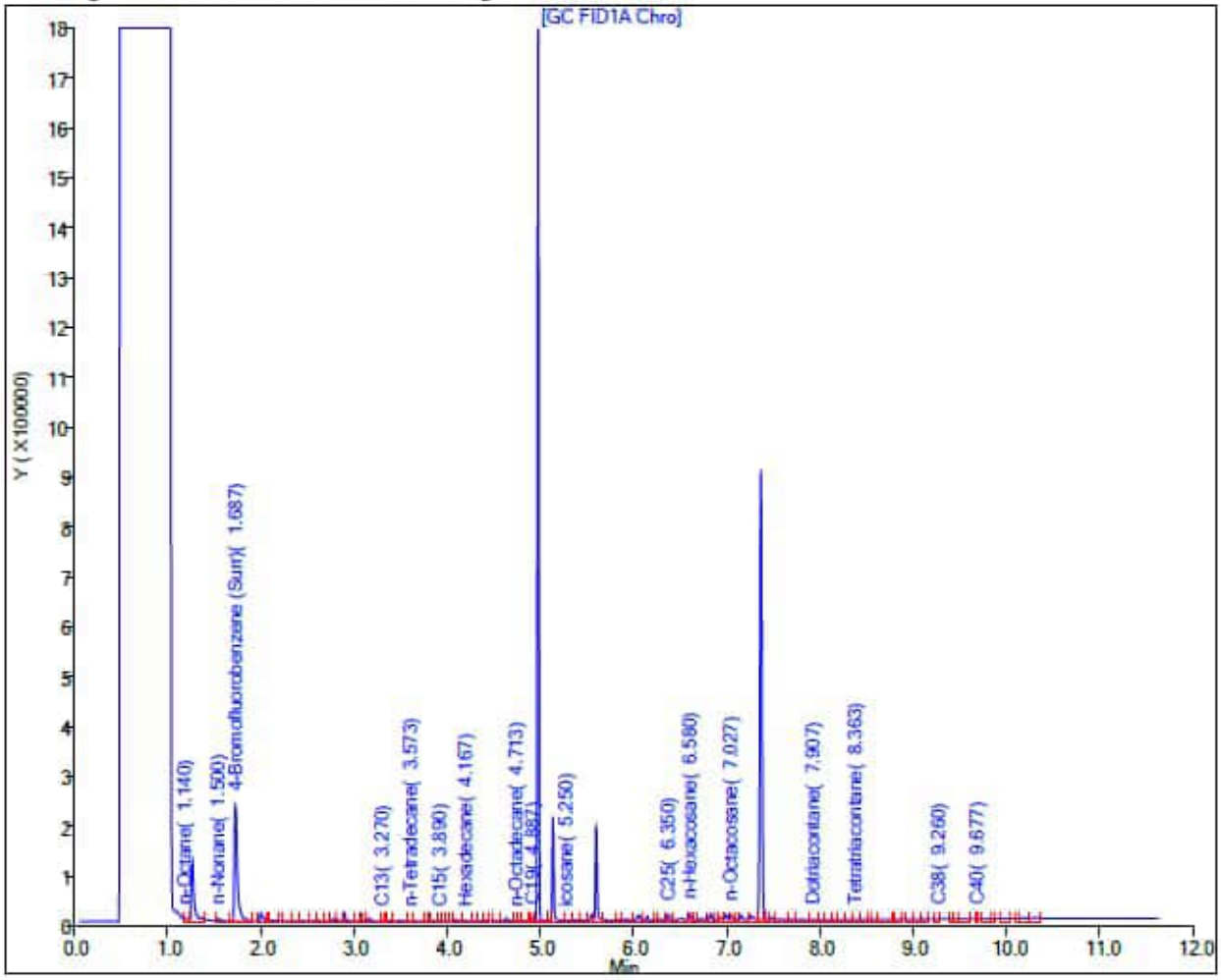
Results (ug/L): **TPH-d (C10 to C24) <95 U** **TPH-o (C24 to C40) <280 U**

Report Date: 31-Oct-2022 14:51:08 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A046.D				
Injection Date:	29-Oct-2022 02:27:21	Instrument ID:	TAC129		
Lims ID:	580-119162-I-10-A	Lab Sample ID:	580-119162-10		
Client ID:	OWDFMW08A-WGFD01LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	47
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

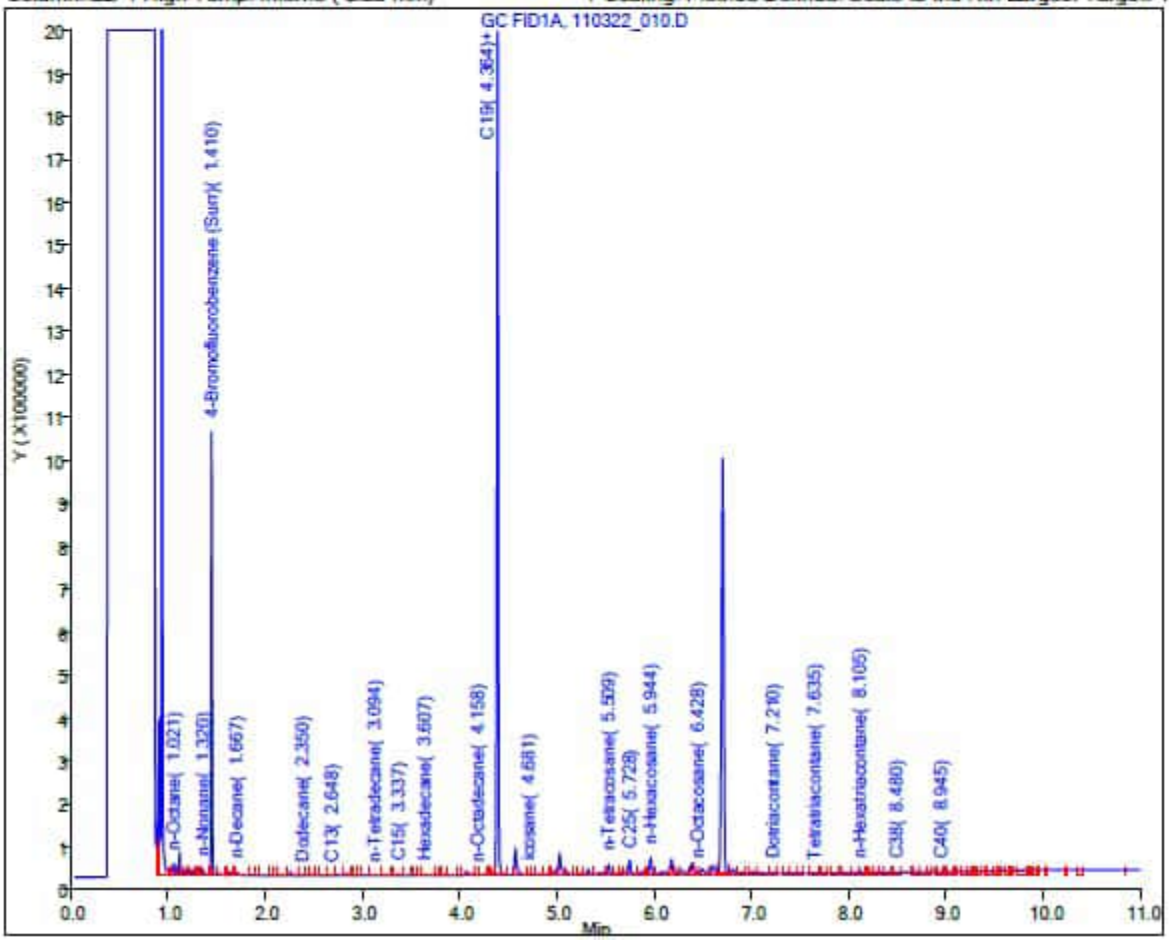
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 03-Nov-2022 20:15:12 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_010.D				
Injection Date:	03-Nov-2022 17:52:30	Instrument ID:	TAC020		
Lims ID:	580-119430-D-11-A	Lab Sample ID:	580-119430-11		
Client ID:	OWDFMW08A-WGN02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	35
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD02LF-2210WK4 Sample Date: 10/28/2022
Lab: Eurofins Seattle

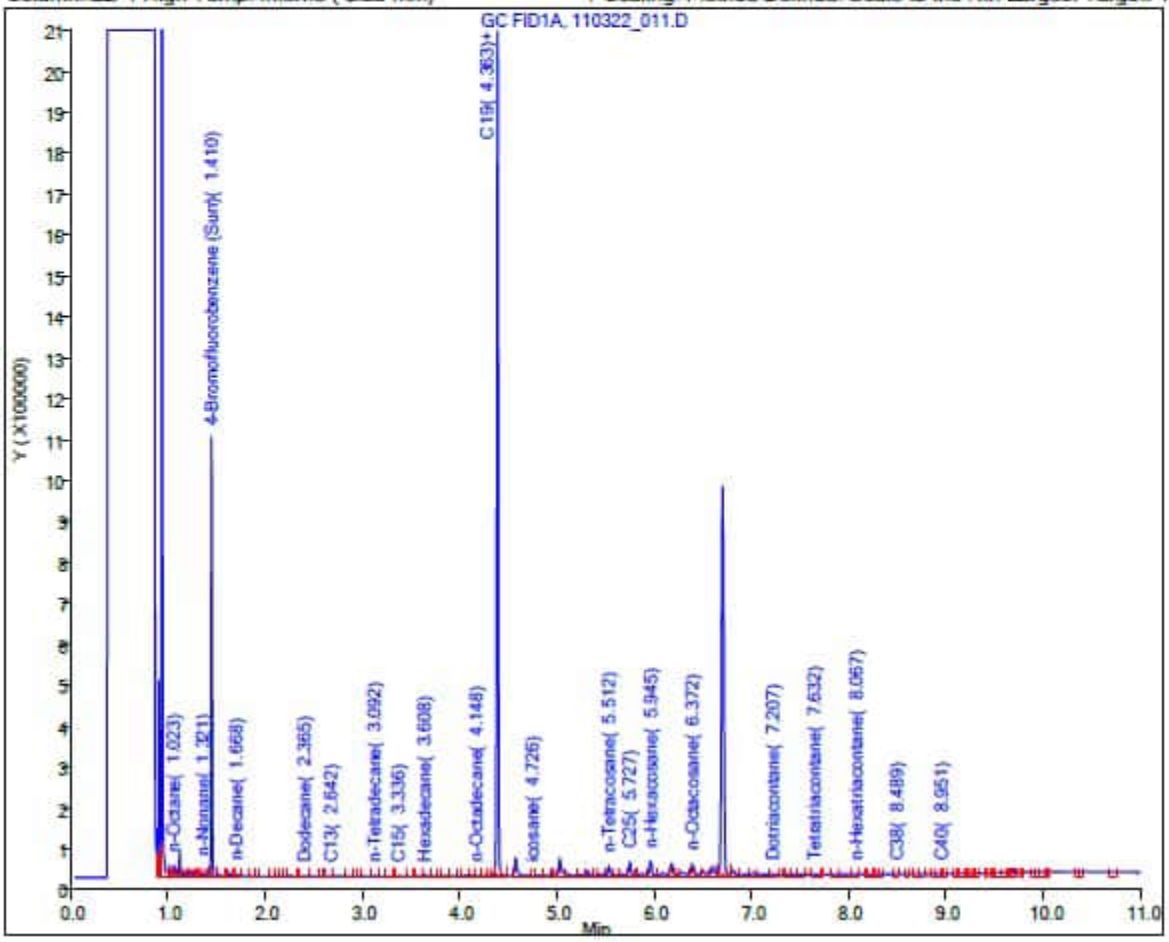
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 03-Nov-2022 20:11:50 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_011.D				
Injection Date:	03-Nov-2022 18:12:30	Instrument ID:	TAC020		
Lims ID:	580-119430-D-13-A	Lab Sample ID:	580-119430-13		
Client ID:	OWDFMW08A-WGFD02LF-2210WK4				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

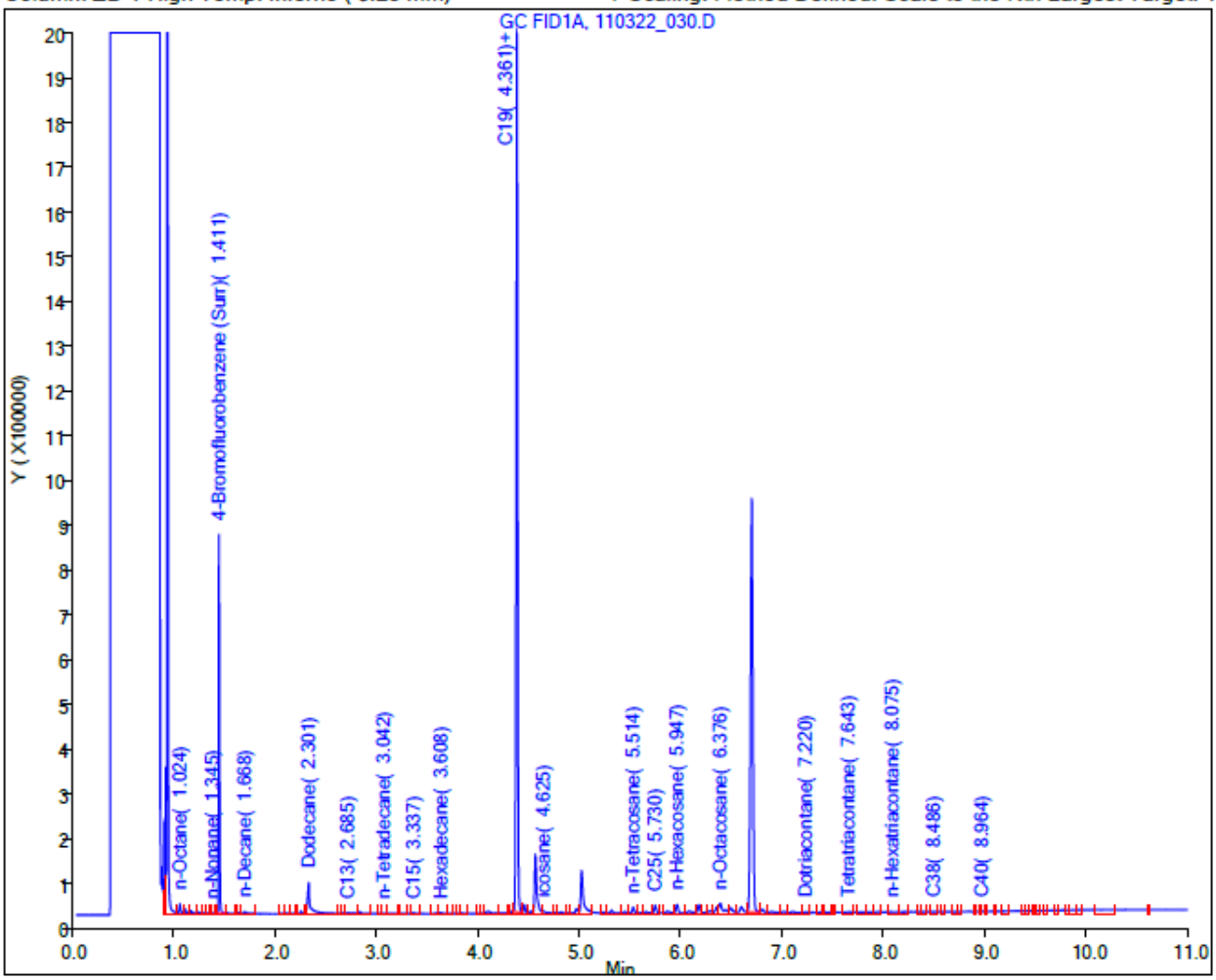
Results (ug/L): **TPH-d (C10 to C24) <79 U** **TPH-o (C24 to C40) <240 U**

Report Date: 04-Nov-2022 13:45:18 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_030.D				
Injection Date:	04-Nov-2022 00:35:30	Instrument ID:	TAC020		
Lims ID:	580-119483-N-13-A	Lab Sample ID:	580-119483-13		
Client ID:	OWDFMW08A-WGN01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	29	Worklist Smp#:	55
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2210WK5 Sample Date: 10/31/2022
Lab: Eurofins Seattle

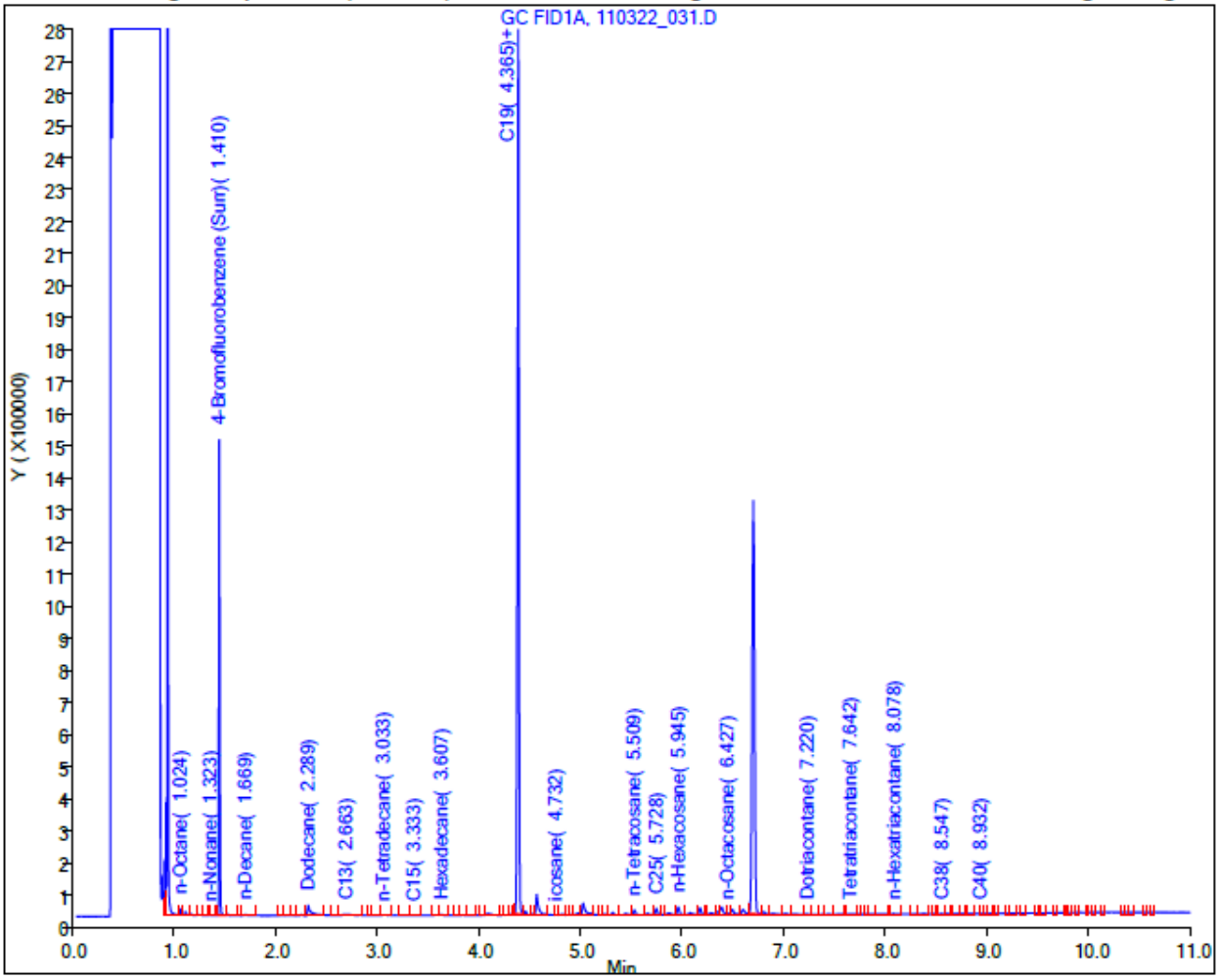
Results (ug/L): **TPH-d (C10 to C24) <82 U** **TPH-o (C24 to C40) <250 U**

Report Date: 04-Nov-2022 13:45:23 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_031.D				
Injection Date:	04-Nov-2022 00:55:30	Instrument ID:	TAC020		
Lims ID:	580-119483-I-15-A	Lab Sample ID:	580-119483-15		
Client ID:	OWDFMW08A-WGFD01LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	56
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

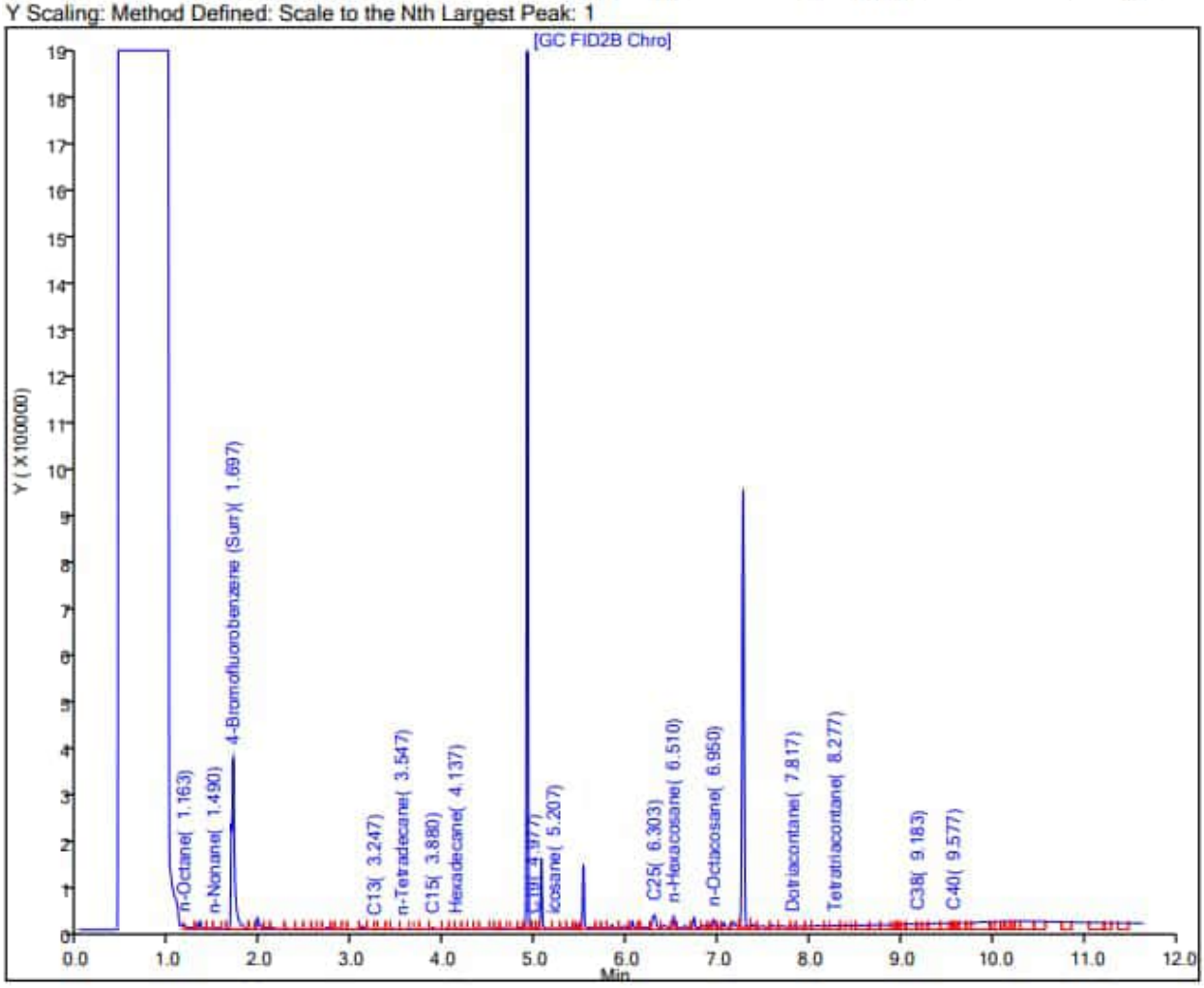
Results (ug/L): **TPH-d (C10 to C24) <97 U** **TPH-o (C24 to C40) <290 U**

Report Date: 11-Nov-2022 16:01:13 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A029.D				
Injection Date:	10-Nov-2022 22:53:51	Instrument ID:	TAC129_R		
Lims ID:	580-119745-N-5-A	Lab Sample ID:	580-119745-5		
Client ID:	OWDFMW08A-WGN02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	43
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD02LF-2210WK5 Sample Date: 11/4/2022
Lab: Eurofins Seattle

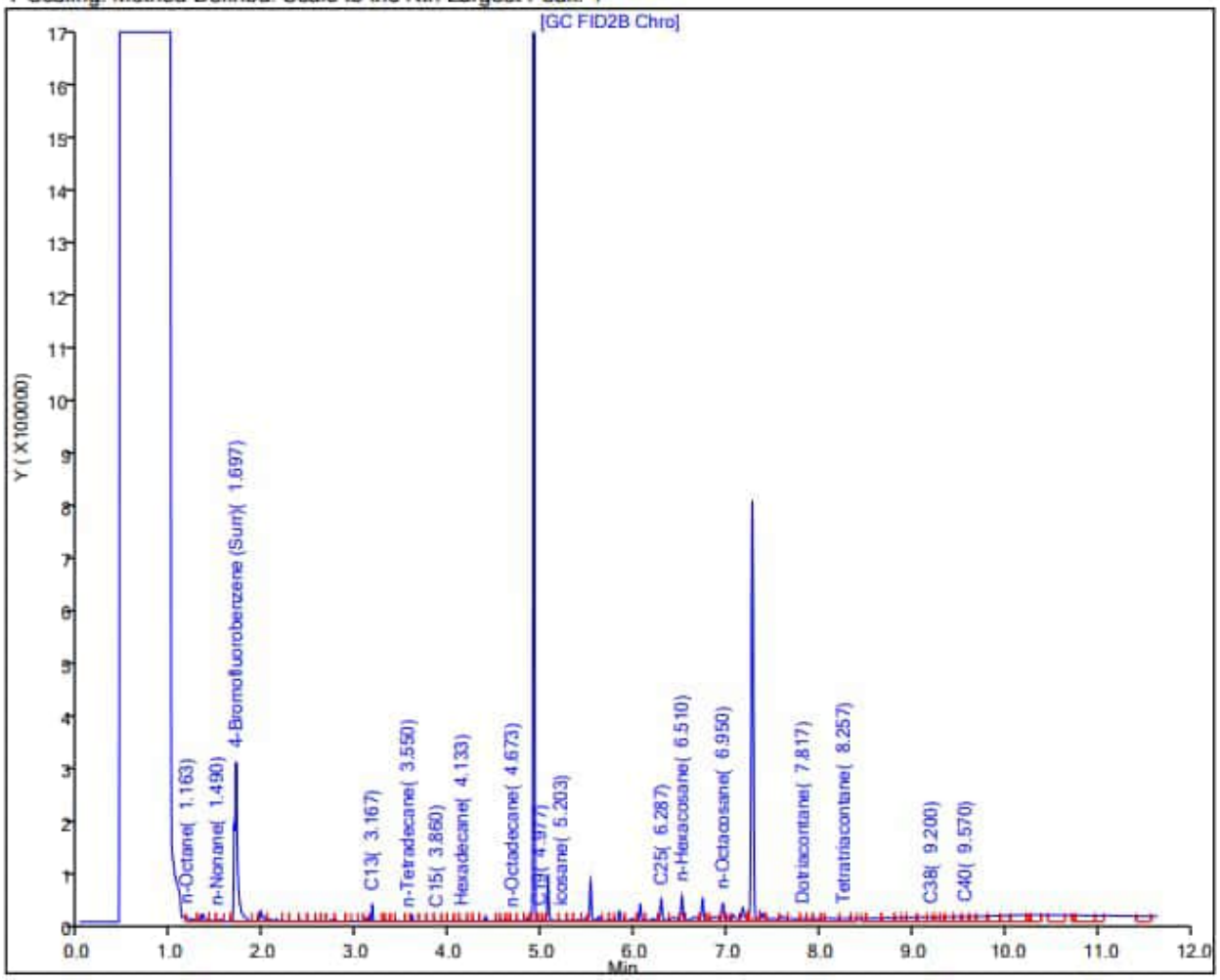
Results (ug/L): **TPH-d (C10 to C24) <95 U** **TPH-o (C24 to C40) <280 U**

Report Date: 11-Nov-2022 16:01:16 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A031.D				
Injection Date:	10-Nov-2022 23:12:20	Instrument ID:	TAC129_R		
Lims ID:	580-119745-N-7-A	Lab Sample ID:	580-119745-7		
Client ID:	OWDFMW08A-WGFD02LF-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2211WK1 Sample Date: 11/8/2022
Lab: Eurofins Seattle

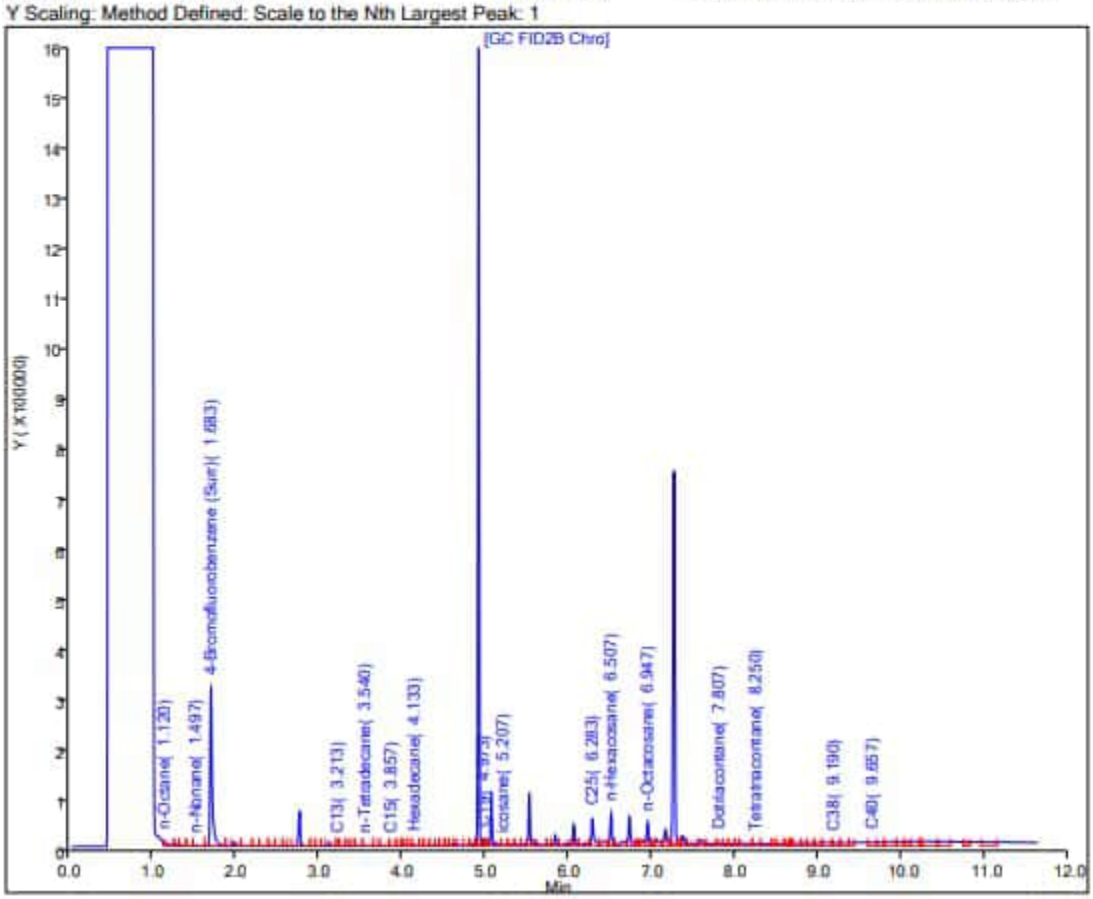
Results (ug/L): **TPH-d (C10 to C24) <84 U** **TPH-o (C24 to C40) <250 U**

Report Date: 15-Nov-2022 19:16:18 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A045.D				
Injection Date:	15-Nov-2022 05:29:02	Instrument ID:	TAC129_R		
Lims ID:	580-119919-O-8-A	Lab Sample ID:	580-119919-8		
Client ID:	OWDFMW08A-WGN01LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2211WK1 Sample Date: 11/8/2022
Lab: Eurofins Seattle

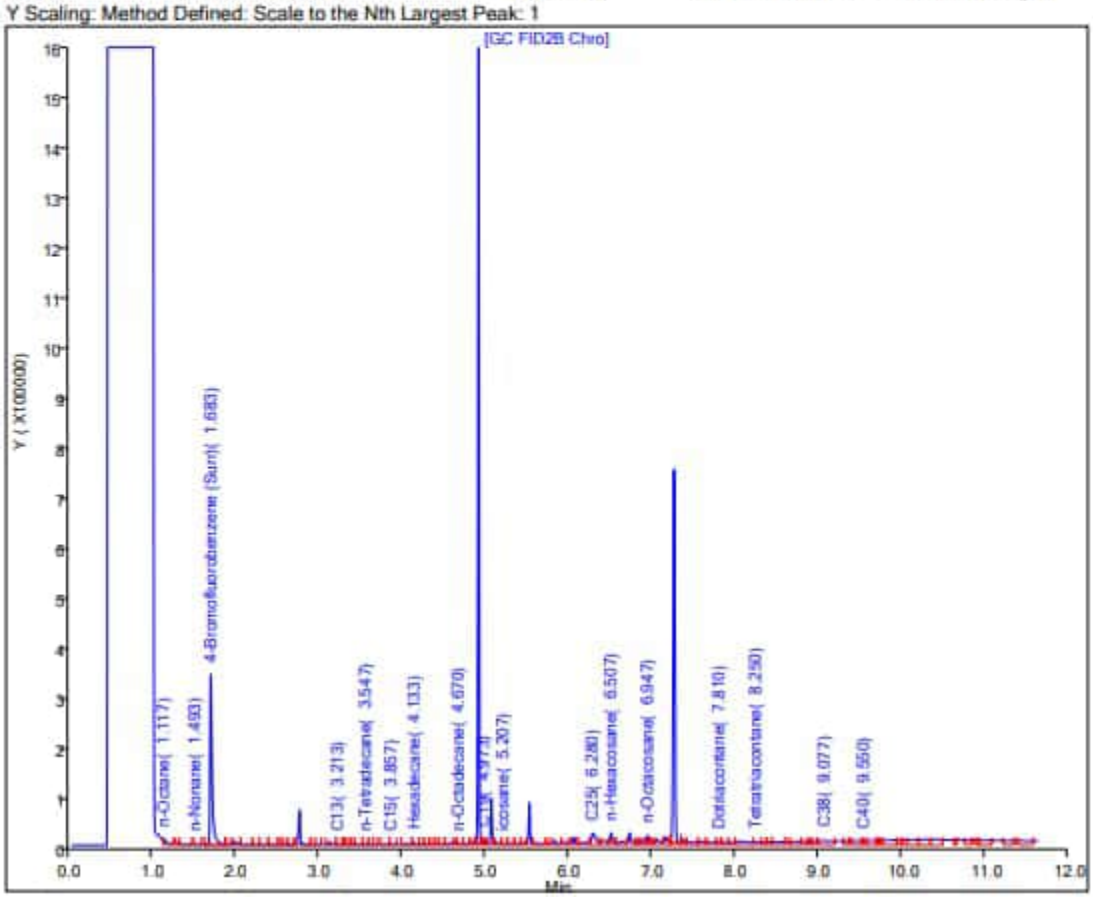
Results (ug/L): **TPH-d (C10 to C24) <80 U** **TPH-o (C24 to C40) <240 U**

Report Date: 15-Nov-2022 19:16:20 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A047.D				
Injection Date:	15-Nov-2022 05:47:22	Instrument ID:	TAC129_R		
Lims ID:	580-119919-I-10-O	Lab Sample ID:	Client 580-410107/24-A		
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

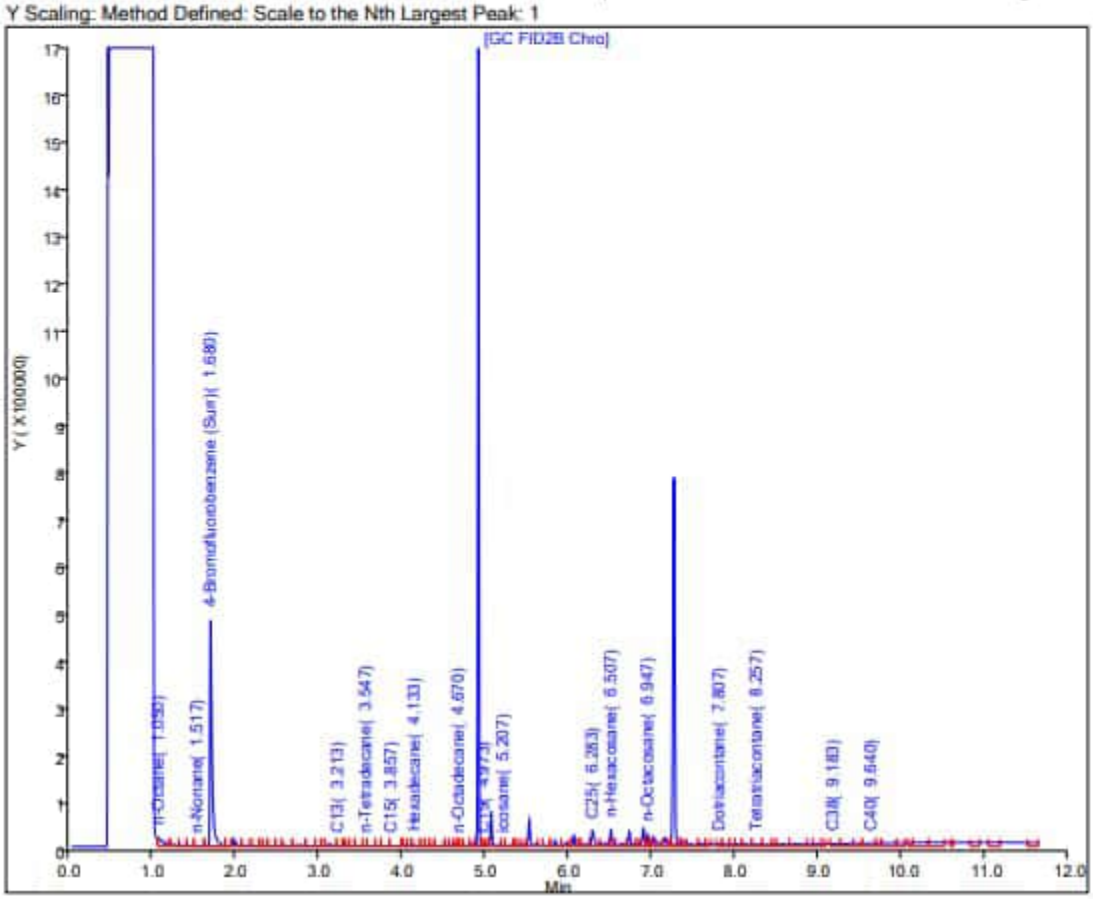
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 16-Nov-2022 12:11:57 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85807.b\091522A041.D				
Injection Date:	16-Nov-2022 05:33:51	Instrument ID:	TAC129_R		
Lims ID:	580-120006-O-1-A	Lab Sample ID:	580-120006-1		
Client ID:	OWDFMW08A-WGN02LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	48
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD02LF-2211WK1 Sample Date: 11/11/2022
Lab: Eurofins Seattle

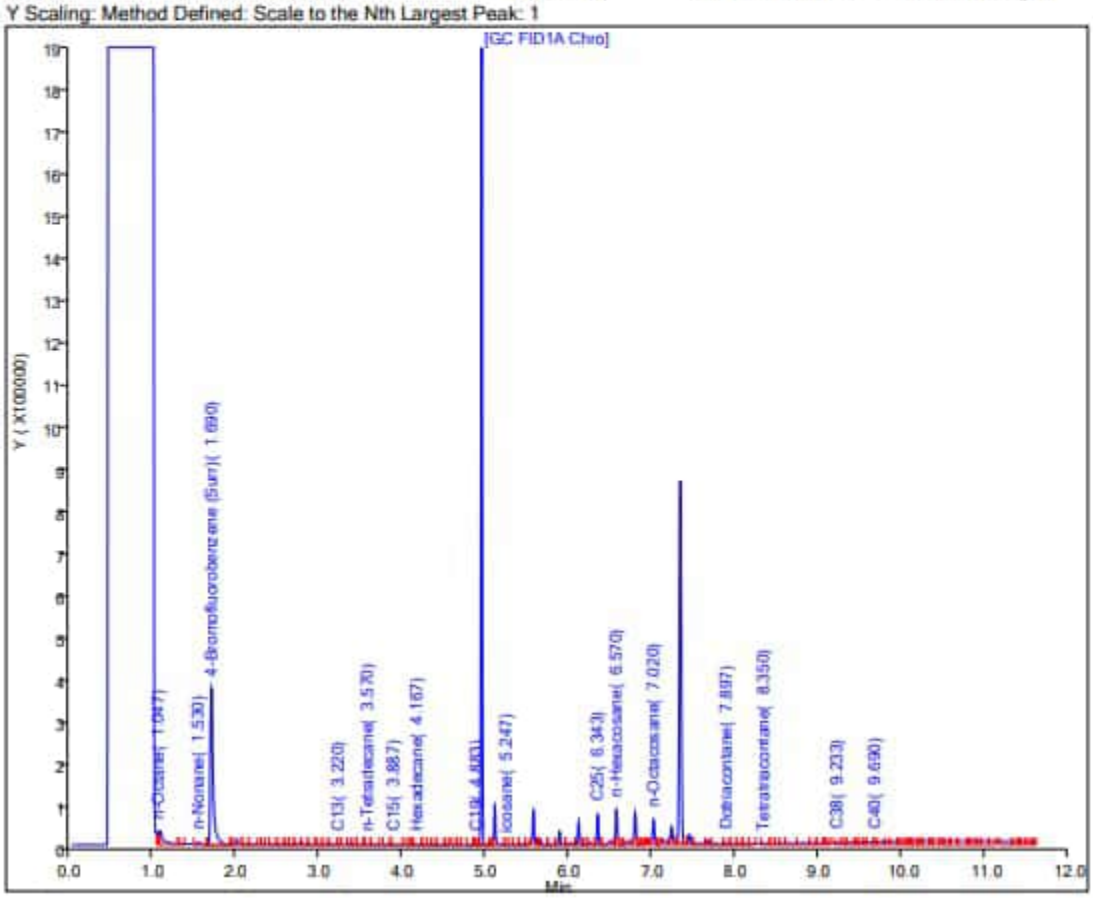
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 17-Nov-2022 11:38:42 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221116-85833.b\1116z22A048.D				
Injection Date:	17-Nov-2022 05:11:46	Instrument ID:	TAC129		
Lims ID:	580-120006-J-3-A	Lab Sample ID:	580-120006-3		
Client ID:	OWDFMW08A-WGFD02LF-2211WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

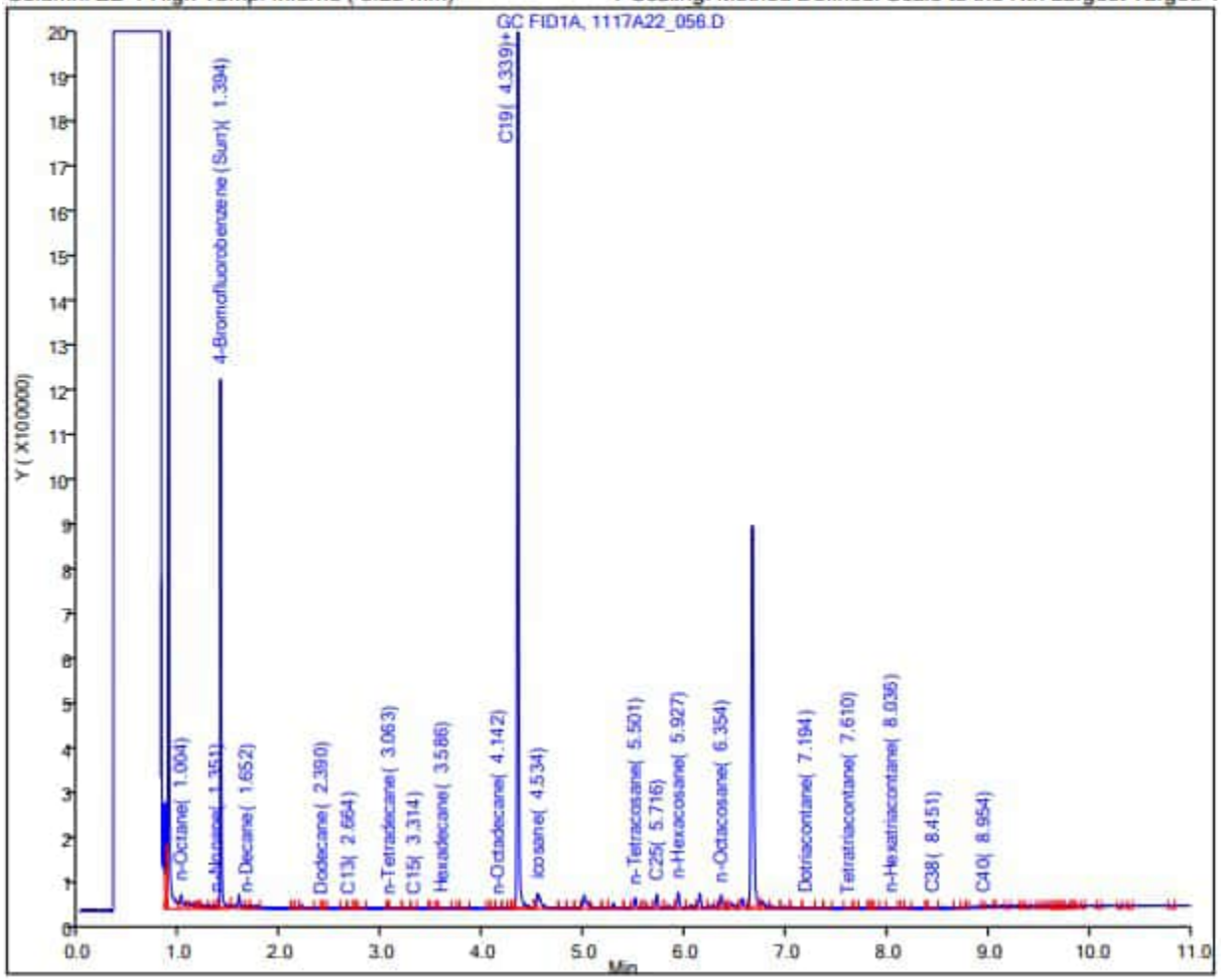
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 20:35:34 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_056.D				
Injection Date:	18-Nov-2022 14:05:30	Instrument ID:	TAC020		
Lims ID:	580-120090-O-8-A	Lab Sample ID:	580-120090-8		
Client ID:	OWDFMW08A-WGN01LF-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	55	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2211WK2 Sample Date: 11/14/2022
Lab: Eurofins Seattle

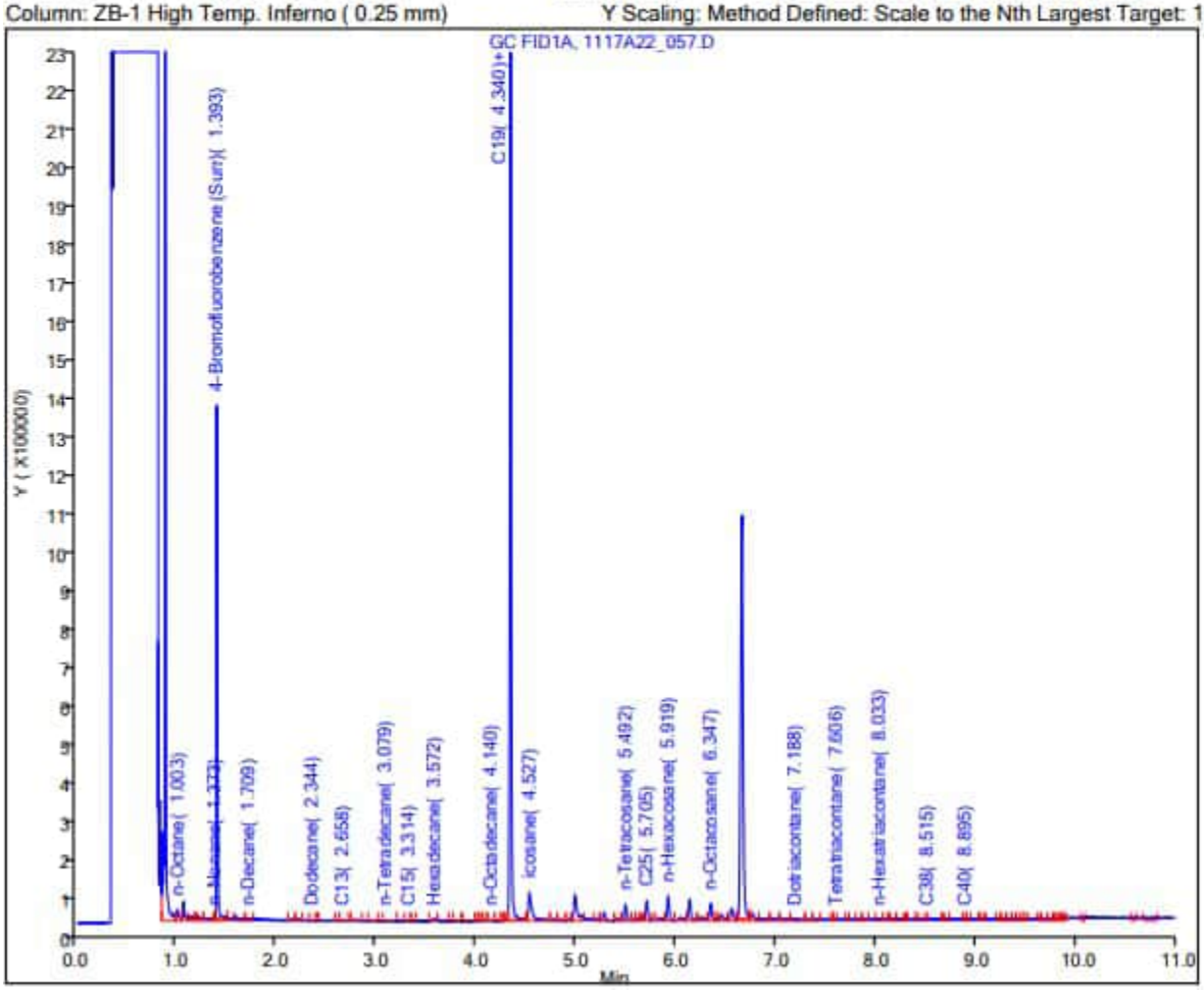
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 18-Nov-2022 20:35:37 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_057.D				
Injection Date:	18-Nov-2022 14:25:30	Instrument ID:	TAC020		
Lims ID:	580-120090-J-10-A	Lab Sample ID:	580-120090-10		
Client ID:	OWDFMW08A-WGFD01LF-2211WK2				
Operator ID:	DH/CC	ALS Bottle#:	56	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGN01LF-2211WK4 Sample Date: 11/28/2022
Lab: Eurofins Seattle

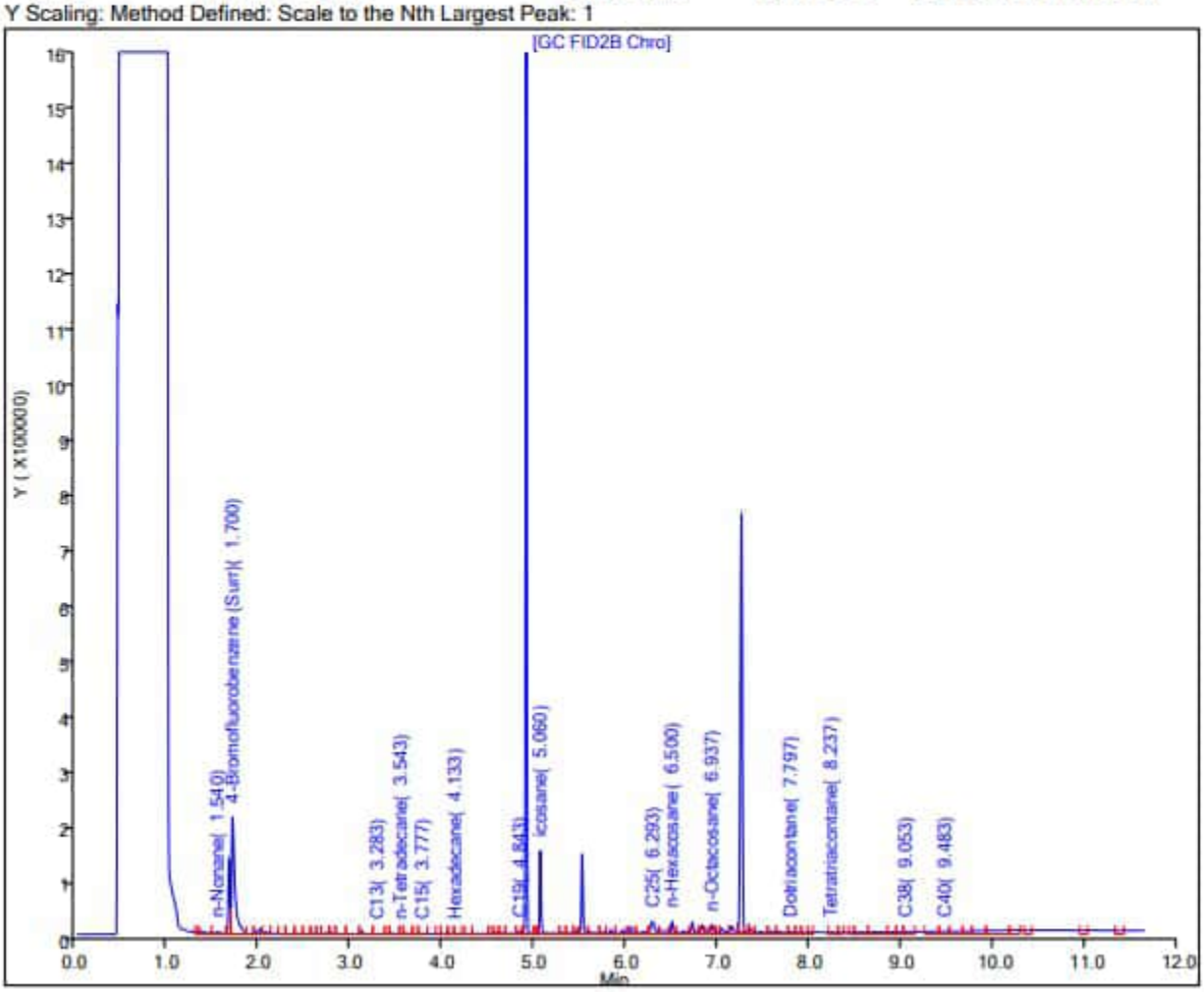
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <300 U**

Report Date: 02-Dec-2022 17:20:19 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221201-86064.b\1201A22A019.D				
Injection Date:	02-Dec-2022 02:08:03	Instrument ID:	TAC129_R		
Lims ID:	580-120490-O-7-A	Lab Sample ID:	580-120490-7		
Client ID:	OWDFMW08A-WGN01LF-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **OWDFMW08A** Sample ID: OWDFMW08A-WGFD01LF-2211WK4 Sample Date: 11/28/2022
Lab: Eurofins Seattle

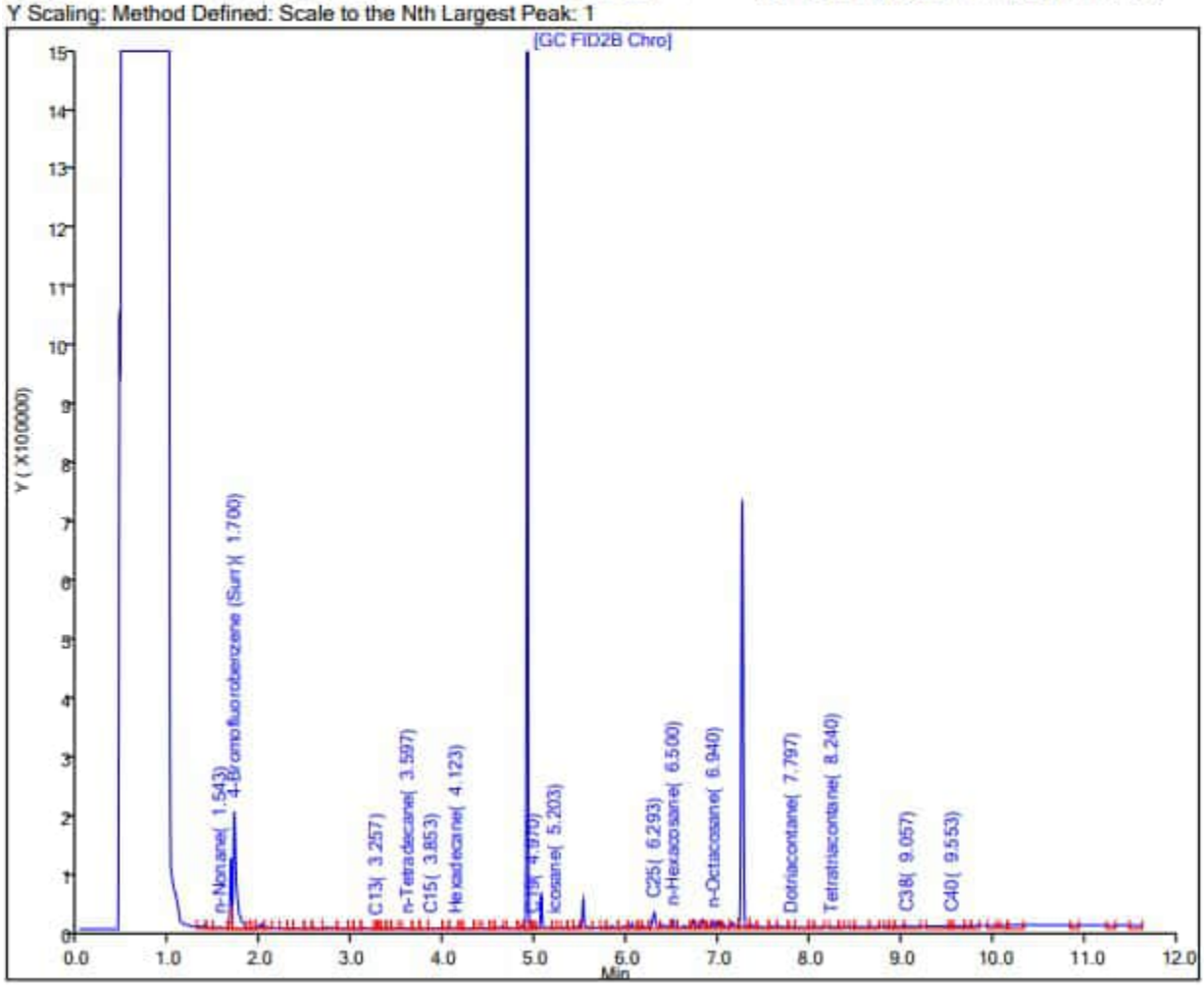
Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) <310 U**

Report Date: 02-Dec-2022 17:20:21 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221201-86064.b\1201A22A021.D				
Injection Date:	02-Dec-2022 02:26:28	Instrument ID:	TAC129_R		
Lims ID:	580-120490-J-9-A	Lab Sample ID:	580-120490-9		
Client ID:	OWDFMW08A-WGFD01LF-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



No Silica Gel Cleanup performed.

Location: **RHMW01R** Sample ID: RHMW01R-WGN01B-2209WK1 Sample Date: 9/6/2022

Lab: Eurofins Seattle

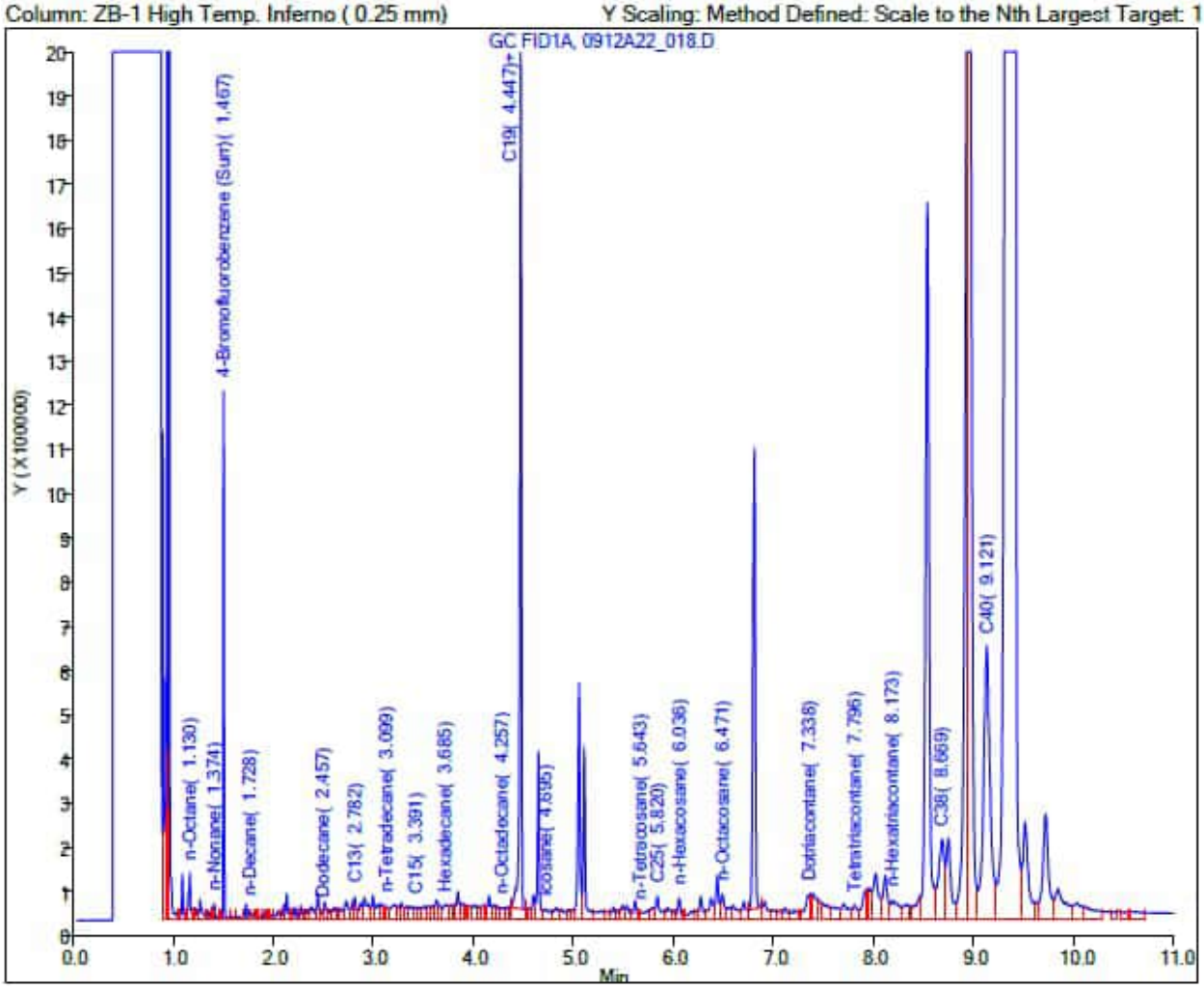
Results (ug/L): **TPH-d (C10 to C24) 230** **TPH-o (C24 to C40) 1200**

Report Date: 13-Sep-2022 12:01:06 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_018.D				
Injection Date:	12-Sep-2022 23:01:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-5-A	Lab Sample ID:	580-117667-5		
Client ID:	RHMW01R-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



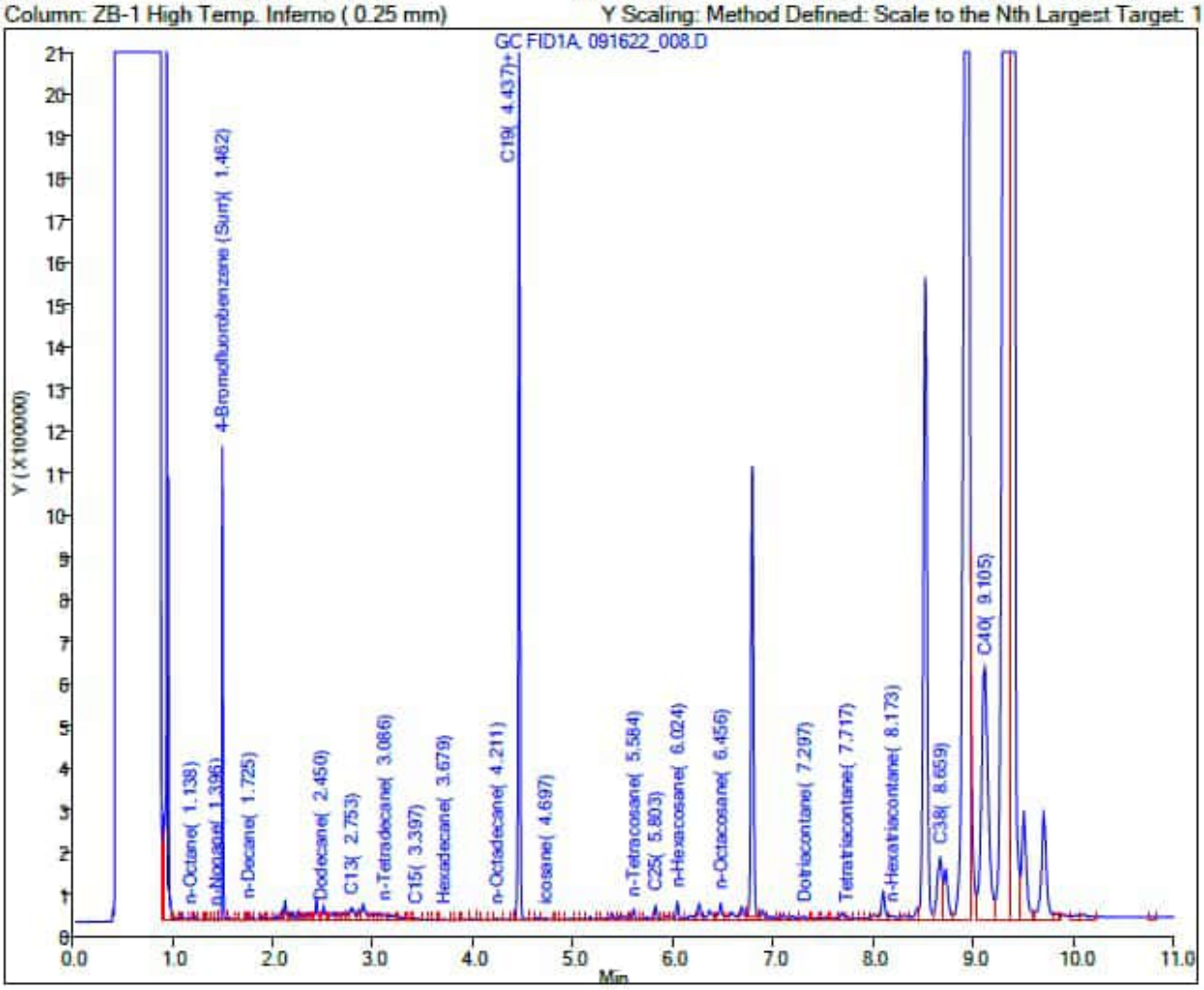
Results (ug/L): **TPH-d SGC (C10 to C24) 320** **TPH-o SGC (C24 to C40) 1400 J**

Report Date: 18-Sep-2022 14:50:58 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_008.D				
Injection Date:	16-Sep-2022 20:33:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-5-B	Lab Sample ID:	580-117667-5		
Client ID:	RHMW01R-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	38
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW01R** Sample ID: RHMW01R-WGN02B-2210WK5 Sample Date: 11/3/2022

Lab: Eurofins Seattle

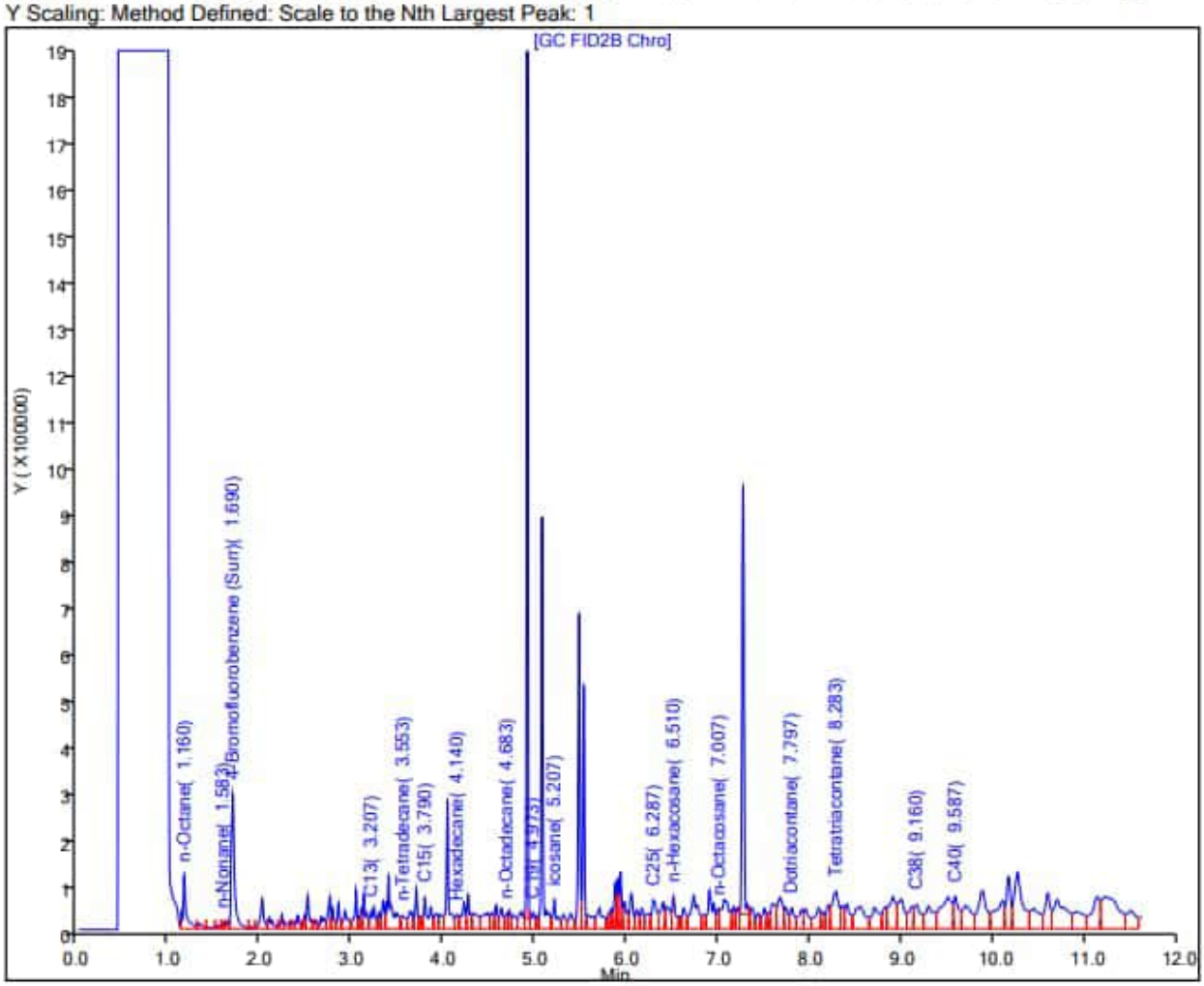
Results (ug/L): **TPH-d (C10 to C24) 400** **TPH-o (C24 to C40) 500 J**

Report Date: 11-Nov-2022 16:00:52 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A015.D				
Injection Date:	10-Nov-2022 20:44:14	Instrument ID:	TAC129_R		
Lims ID:	580-119733-N-3-A	Lab Sample ID:	580-119733-3		
Client ID:	RHMW01R-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



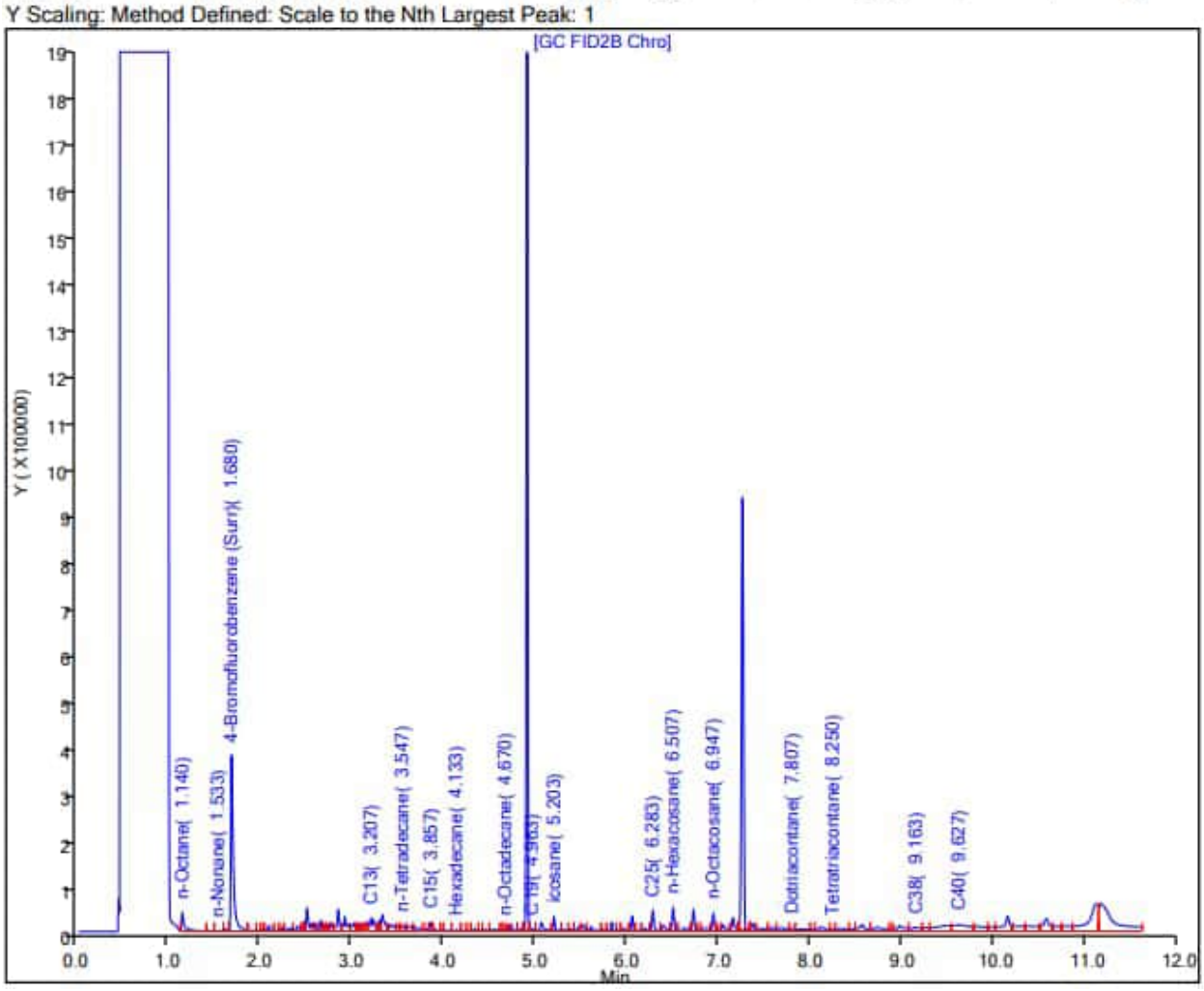
Results (ug/L): **TPH-d SGC (C10 to C24) 70 J** **TPH-o SGC (C24 to C40) <240 U**

Report Date: 15-Nov-2022 22:31:55 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A019.D				
Injection Date:	15-Nov-2022 19:52:38	Instrument ID:	TAC129_R		
Lims ID:	580-119733-N-3-B	Lab Sample ID:	580-119733-3		
Client ID:	RHMW01R-WGN02B-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	10
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2208WK4 Sample Date: 8/23/2022
Lab: Eurofins Seattle

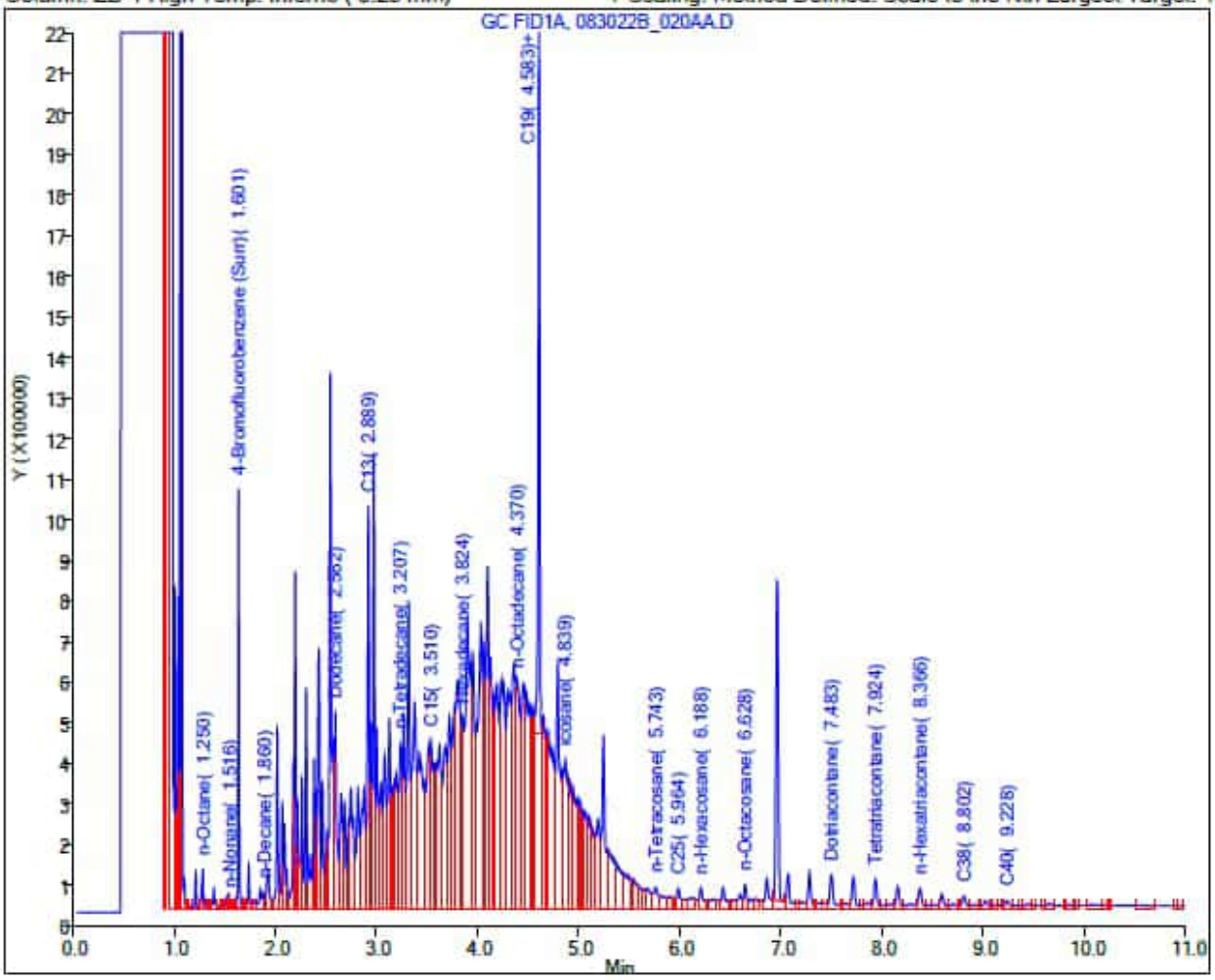
Results (ug/L): **TPH-d (C10 to C24) 2300 J** **TPH-o (C24 to C40) 190 J**

Report Date: 31-Aug-2022 13:05:56 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220830-84577.b\083022B_020AA.D		
Injection Date:	31-Aug-2022 02:17:30	Instrument ID:	TAC020
Lims ID:	580-117283-O-5-A	Lab Sample ID:	580-117283-5
Client ID:	RHMW02-WGN01B-2208WK4		
Operator ID:	DH	ALS Bottle#:	19 Worklist Smp#: 77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



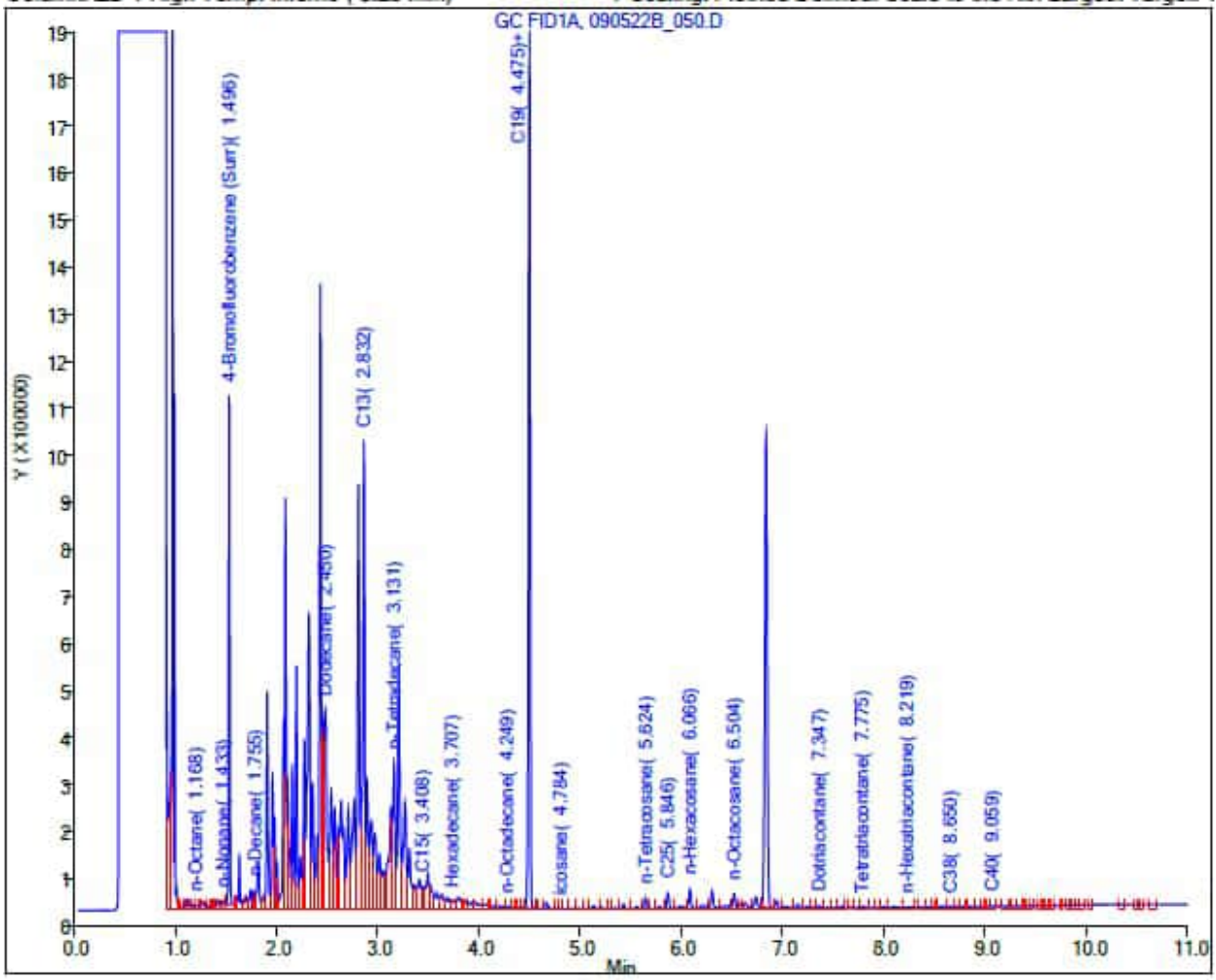
Results (ug/L): **TPH-d SGC (C10 to C24) 610** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 06-Sep-2022 16:23:10 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_050.D				
Injection Date:	06-Sep-2022 15:03:30	Instrument ID:	TAC020		
Lims ID:	580-117283-O-5-C	Lab Sample ID:	580-117283-5		
Client ID:	RHMW02-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	49	Worklist Smp#:	115
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2209WK1 Sample Date: 9/6/2022
Lab: Eurofins Seattle

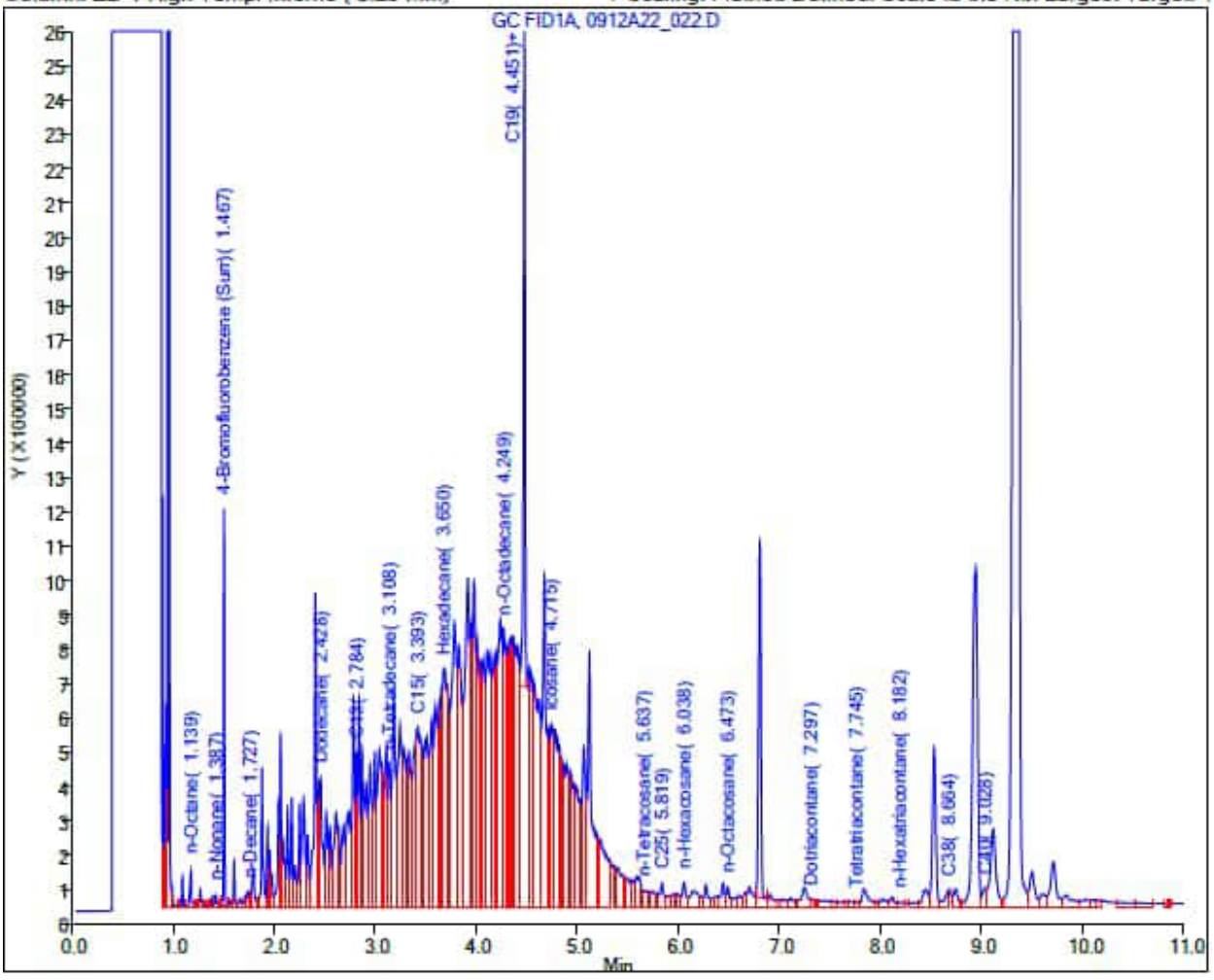
Results (ug/L): **TPH-d (C10 to C24) 2900** **TPH-o (C24 to C40) 580**

Report Date: 13-Sep-2022 12:01:56 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_022.D				
Injection Date:	13-Sep-2022 00:22:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-3-A	Lab Sample ID:	580-117667-3		
Client ID:	RHMW02-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	24
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) 470** **TPH-o SGC (C24 to C40) 340 J**

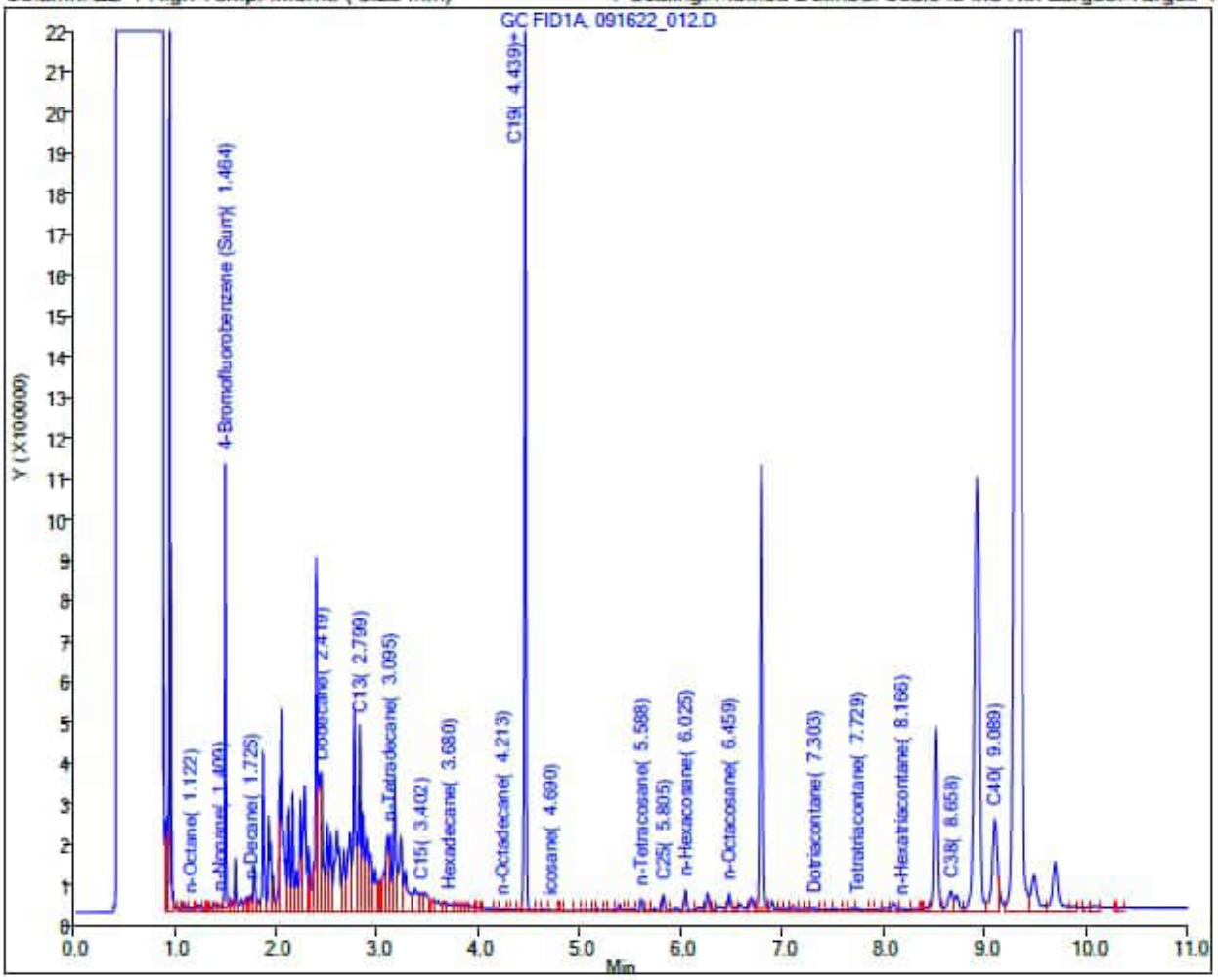
Report Date: 18-Sep-2022 14:51:22 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220916-84868.b\091622_012.D

Injection Date:	16-Sep-2022 21:54:30	Instrument ID:	TAC020		
Lims ID:	580-117667-F-3-B	Lab Sample ID:	580-117667-3		
Client ID:	RHMW02-WGN01B-2209WK1				
Operator ID:	DH	ALS Bottle#:	11	Worklist Smp#:	42
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2209WK2 Sample Date: 9/13/2022
Lab: Eurofins Seattle

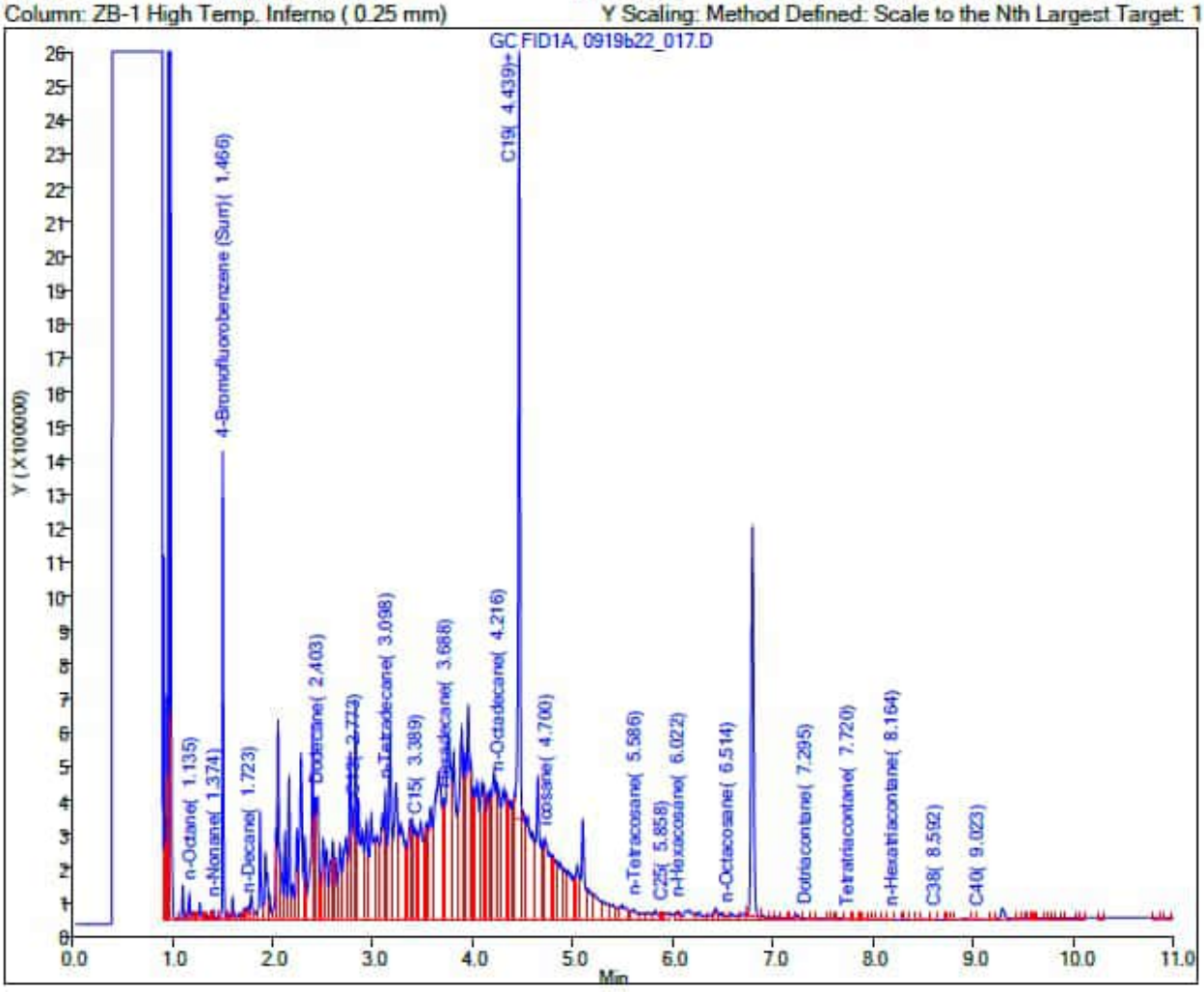
Results (ug/L): **TPH-d (C10 to C24) 1700** **TPH-o (C24 to C40) <300 U**

Report Date: 20-Sep-2022 11:51:03 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_017.D		
Injection Date:	19-Sep-2022 21:48:30	Instrument ID:	TAC020
Lims ID:	580-117880-E-5-A	Lab Sample ID:	580-117880-5
Client ID:	RHMW02-WGN01B-2209WK2		
Operator ID:	DH	ALS Bottle#:	16 Worklist Smp#: 32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



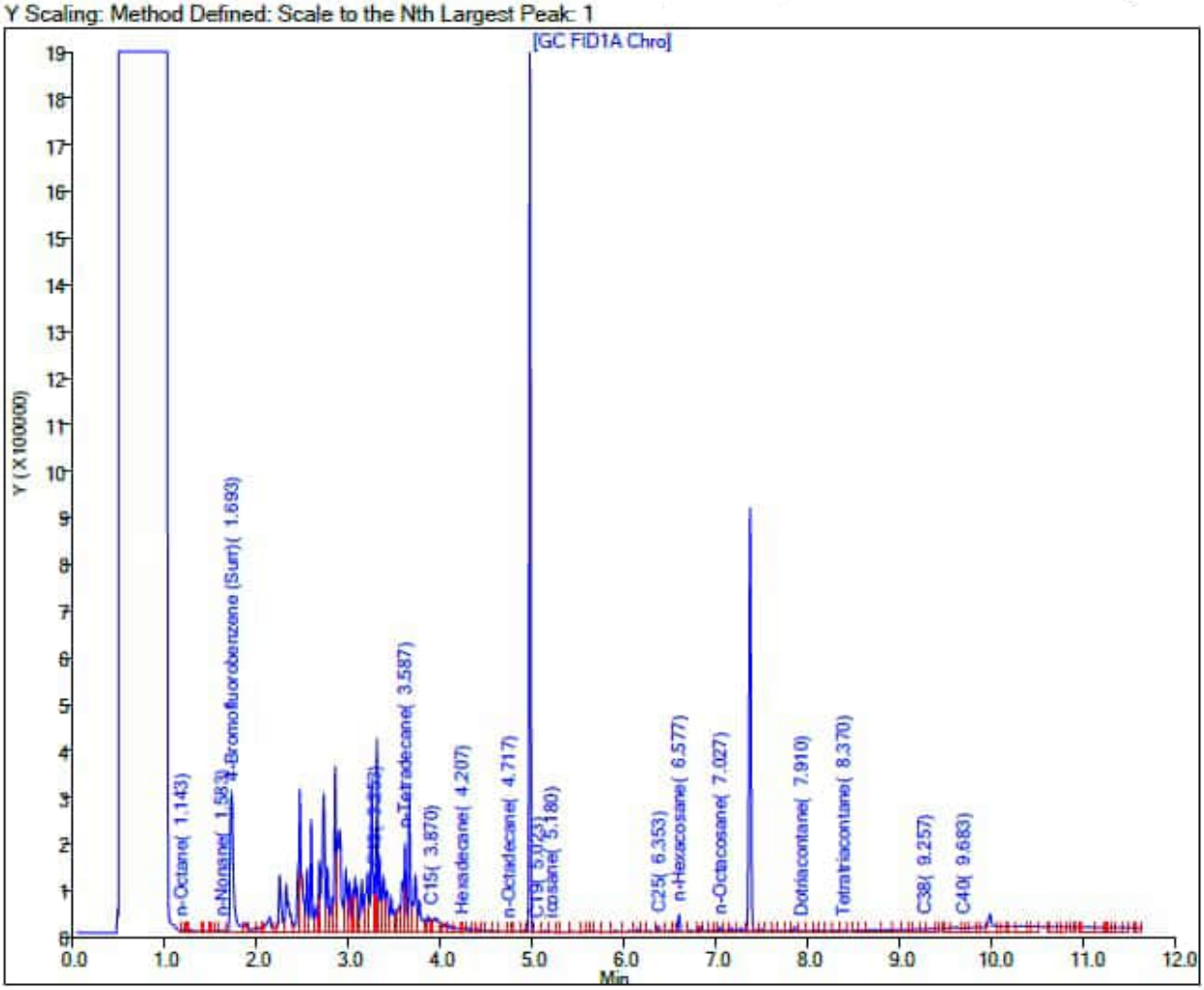
Results (ug/L): **TPH-d SGC (C10 to C24) 410** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 21-Sep-2022 19:22:51 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20220921-84938.b\092122A014.D				
Injection Date:	21-Sep-2022 16:11:48	Instrument ID:	TAC129		
Lims ID:	580-117880-E-5-B	Lab Sample ID:	580-117880-5		
Client ID:	RHMW02-WGN01B-2209WK2				
Operator ID:	ADB	ALS Bottle#:	0	Worklist Smp#:	20
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK1 Sample Date: 10/4/2022
Lab: Eurofins Seattle

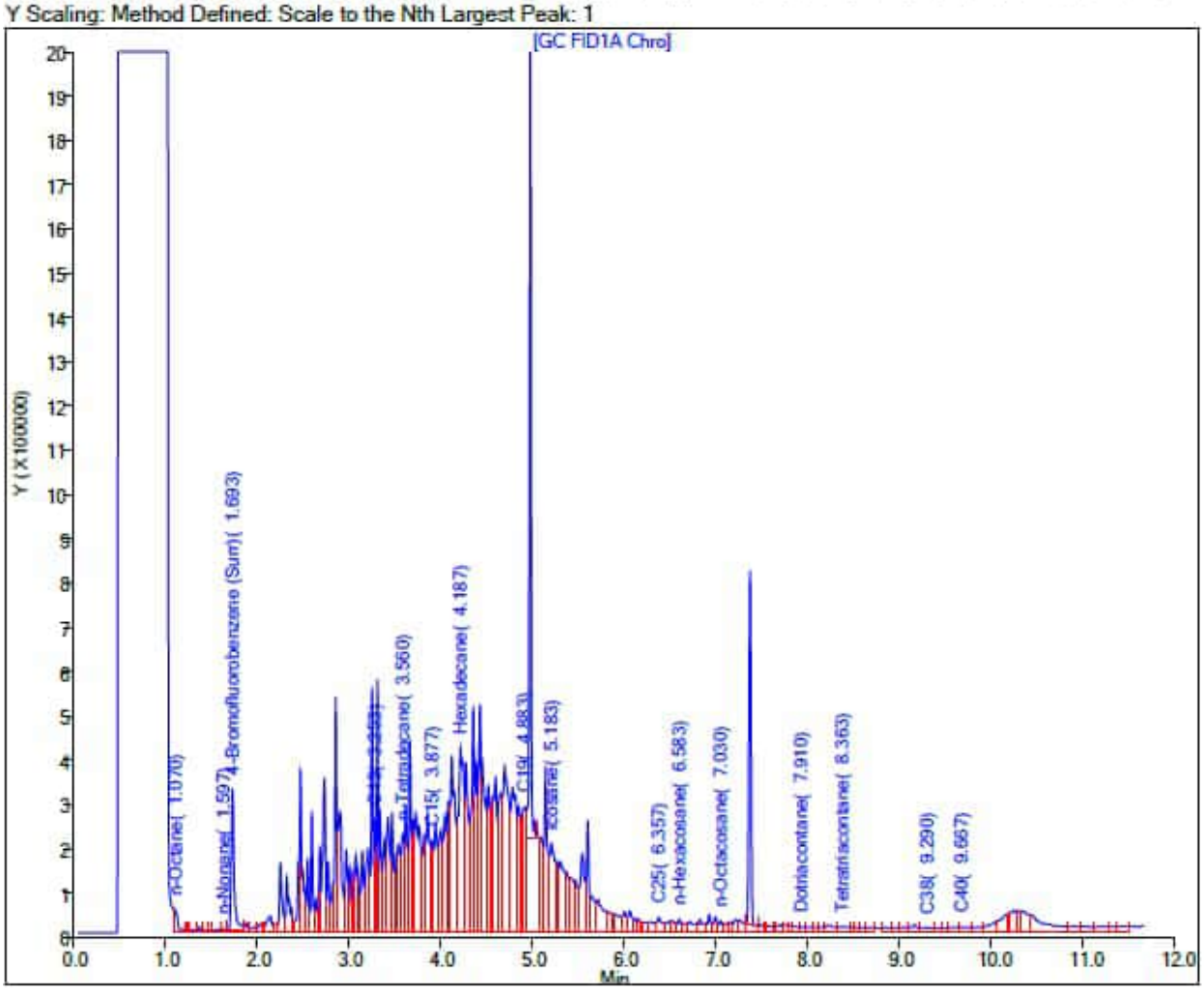
Results (ug/L): **TPH-d (C10 to C24) 1900** **TPH-o (C24 to C40) 180 J**

Report Date: 11-Oct-2022 13:55:42 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A038.D				
Injection Date:	10-Oct-2022 22:47:58	Instrument ID:	TAC129		
Lims ID:	580-118612-F-3-A	Lab Sample ID:	580-118612-3		
Client ID:	RHMW02-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	51
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



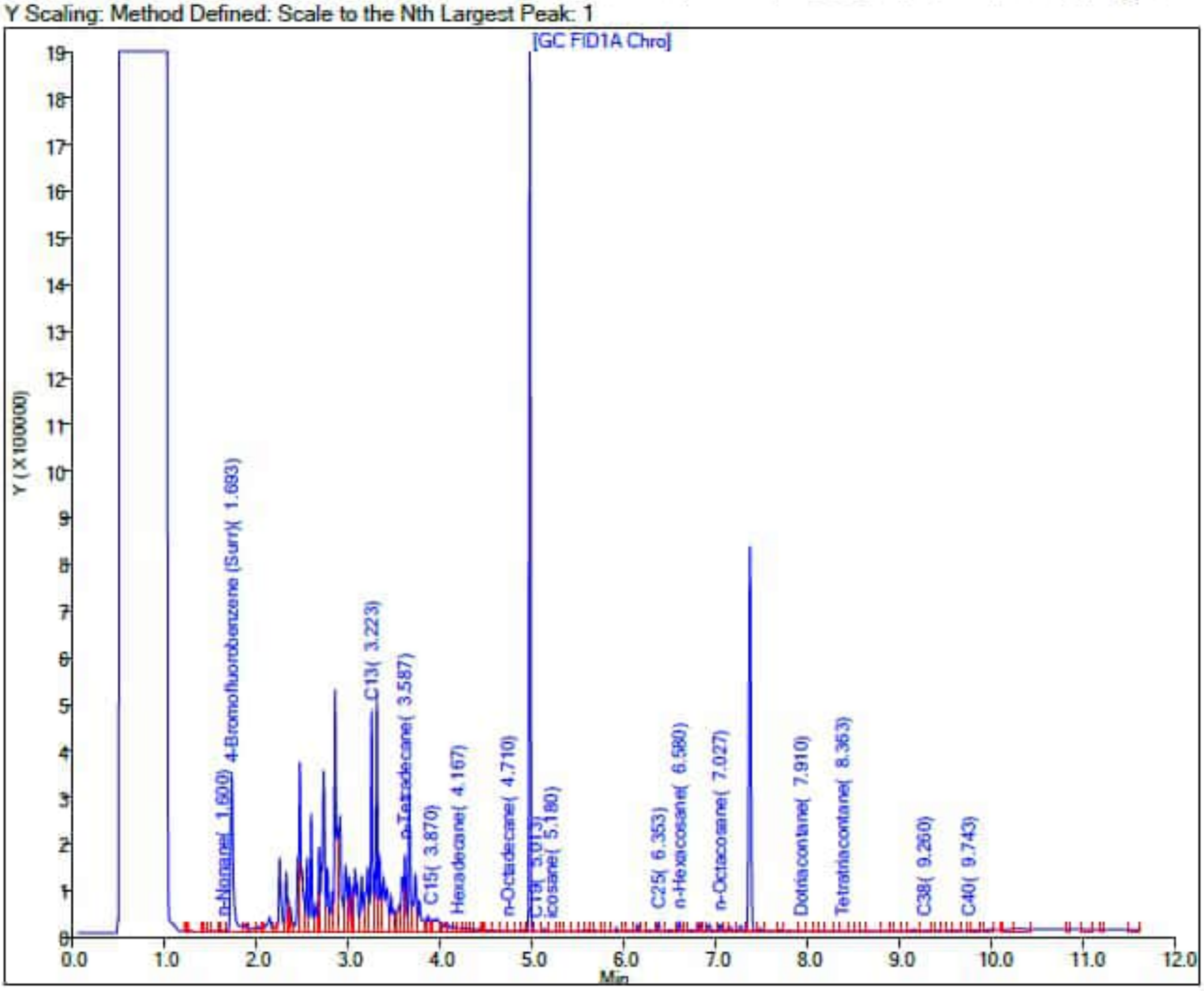
Results (ug/L): **TPH-d SGC (C10 to C24) 450** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 12-Oct-2022 13:55:47 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A018.D				
Injection Date:	11-Oct-2022 19:39:40	Instrument ID:	TAC129		
Lims ID:	580-118612-F-3-B	Lab Sample ID:	580-118612-3		
Client ID:	RHMW02-WGN01B-2210WK1				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK2 Sample Date: 10/14/2022
Lab: Eurofins Seattle

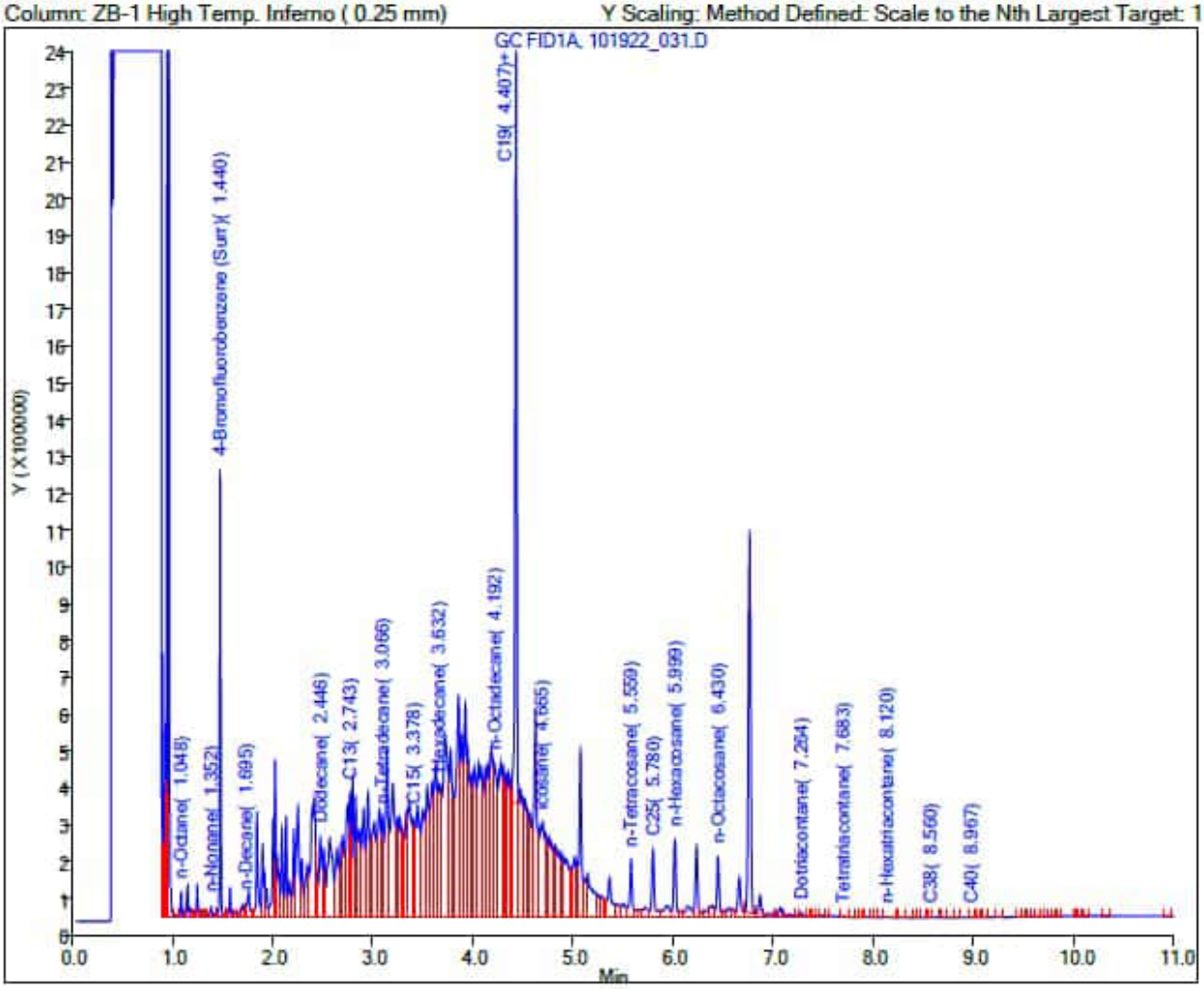
Results (ug/L): **TPH-d (C10 to C24) 1700** **TPH-o (C24 to C40) 190 J**

Report Date: 20-Oct-2022 13:42:20 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_031.D				
Injection Date:	20-Oct-2022 02:14:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-15-A	Lab Sample ID:	580-118920-15		
Client ID:	RHMW02-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	30	Worklist Smp#:	58
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



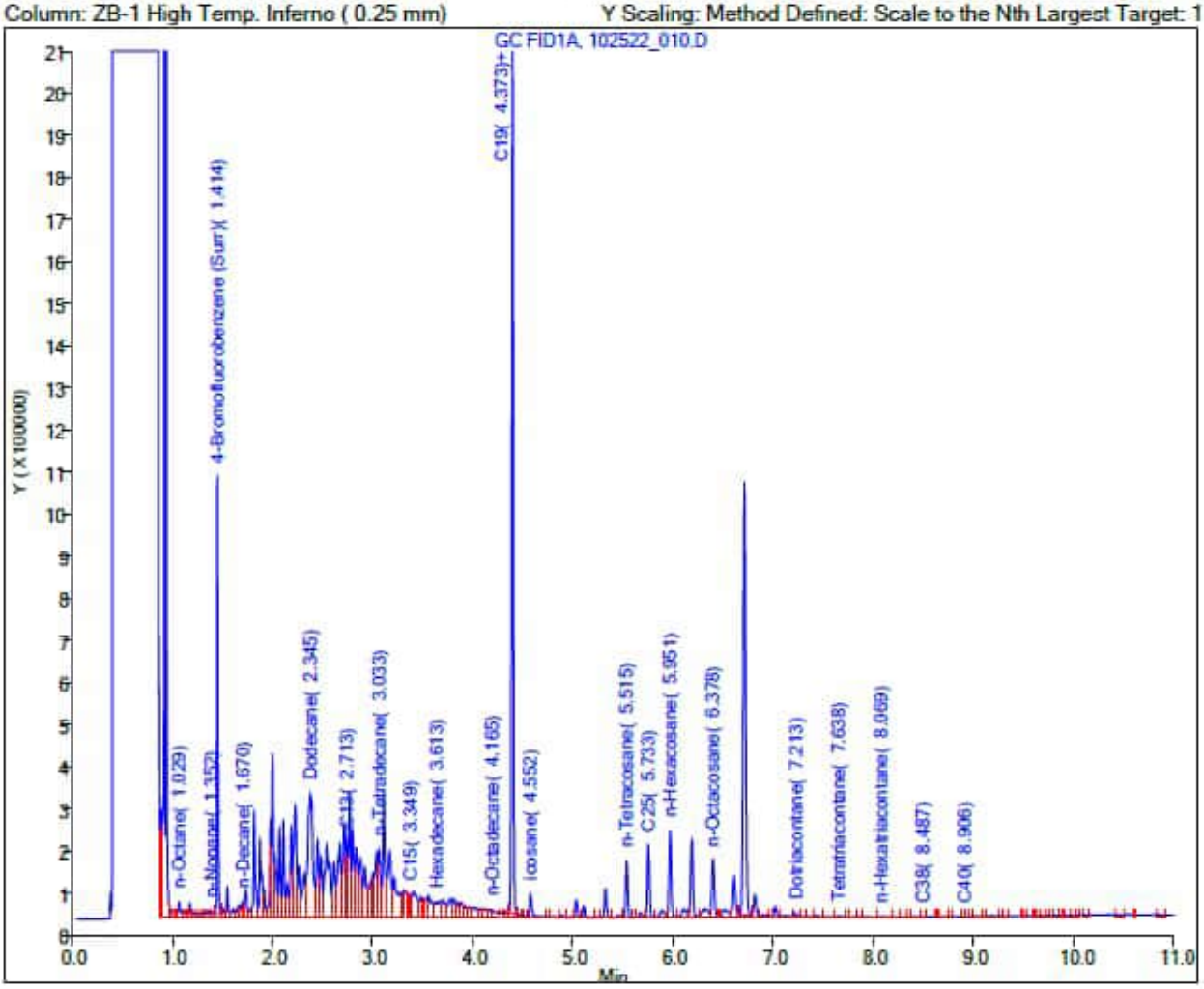
Results (ug/L): **TPH-d SGC (C10 to C24) 440** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 26-Oct-2022 13:51:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221025-85465.b\102522_010.D				
Injection Date:	25-Oct-2022 20:49:30	Instrument ID:	TAC020		
Lims ID:	580-118920-O-15-B	Lab Sample ID:	580-118920-15		
Client ID:	RHMW02-WGN01B-2210WK2				
Operator ID:	DH	ALS Bottle#:	9	Worklist Smp#:	39
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK3 Sample Date: 10/18/2022
Lab: Eurofins Seattle

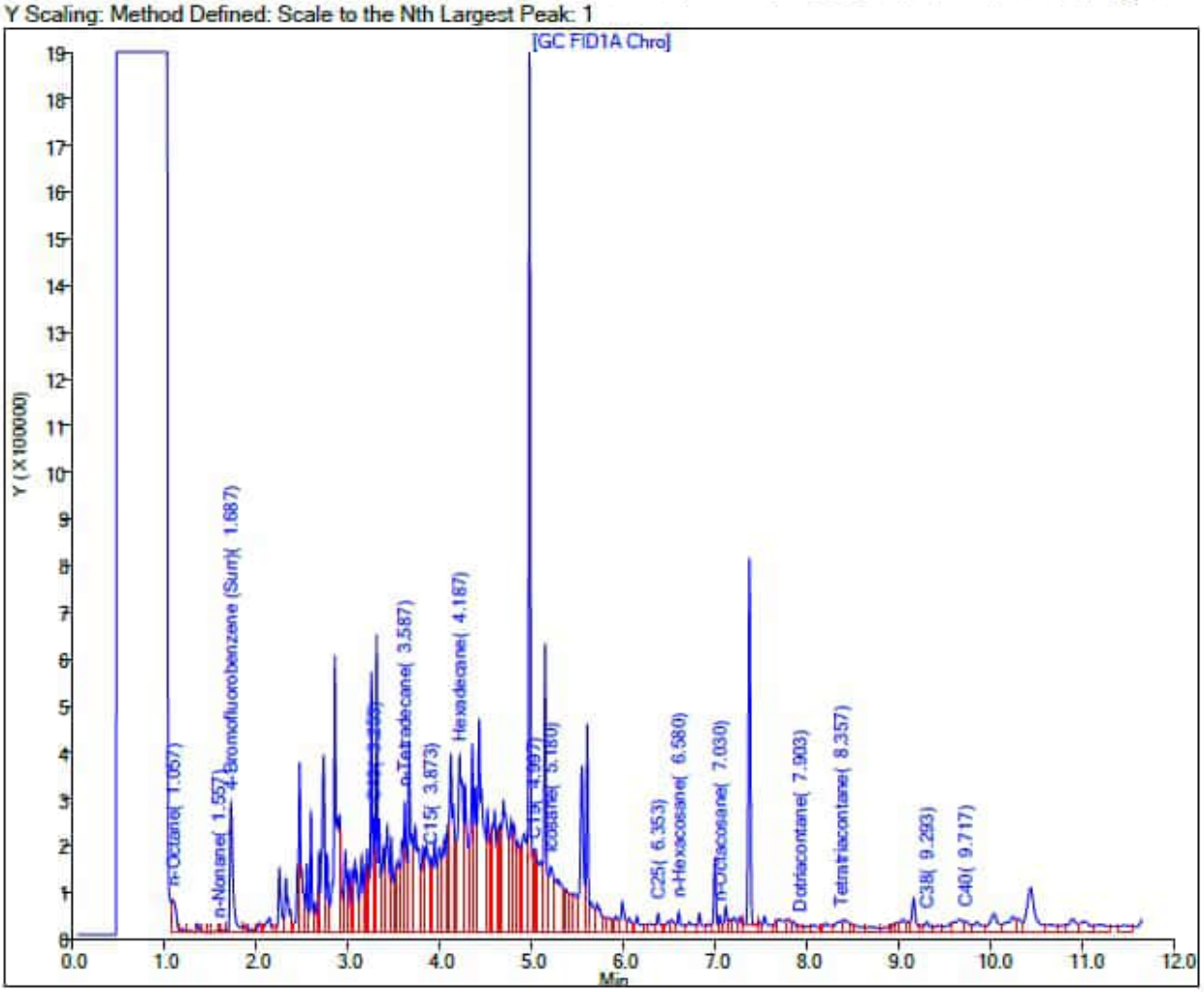
Results (ug/L): **TPH-d (C10 to C24) 1600** **TPH-o (C24 to C40) 290 J**

Report Date: 26-Oct-2022 13:36:06 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A016.D				
Injection Date:	25-Oct-2022 22:09:22	Instrument ID:	TAC129		
Lims ID:	580-119027-O-5-A	Lab Sample ID:	580-119027-5		
Client ID:	RHMW02-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



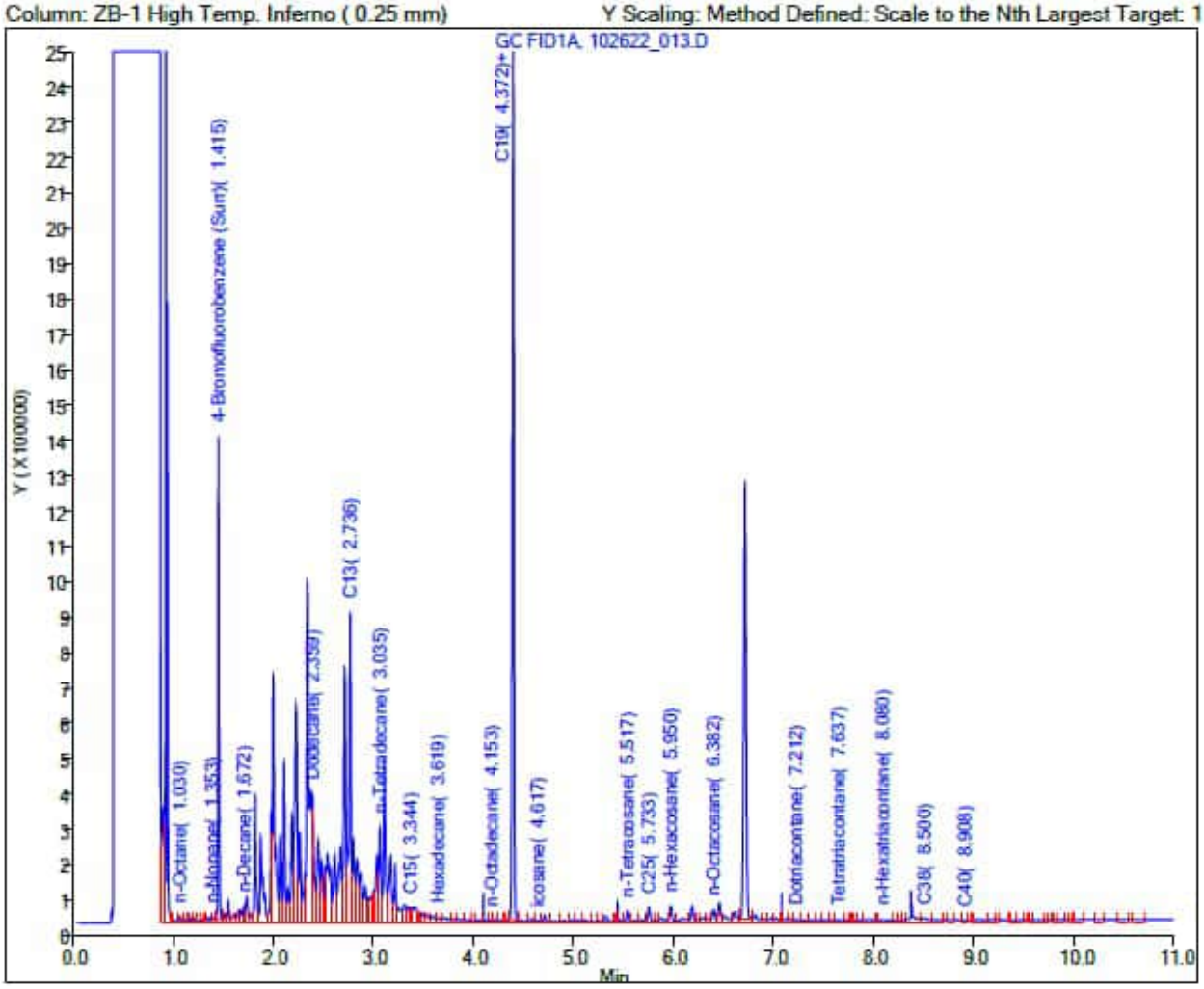
Results (ug/L): **TPH-d SGC (C10 to C24) 530** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 27-Oct-2022 13:34:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_013.D				
Injection Date:	26-Oct-2022 18:17:30	Instrument ID:	TAC020		
Lims ID:	580-119027-O-5-B	Lab Sample ID:	580-119027-5		
Client ID:	RHMW02-WGN01B-2210WK3				
Operator ID:	DH	ALS Bottle#:	12	Worklist Smp#:	22
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

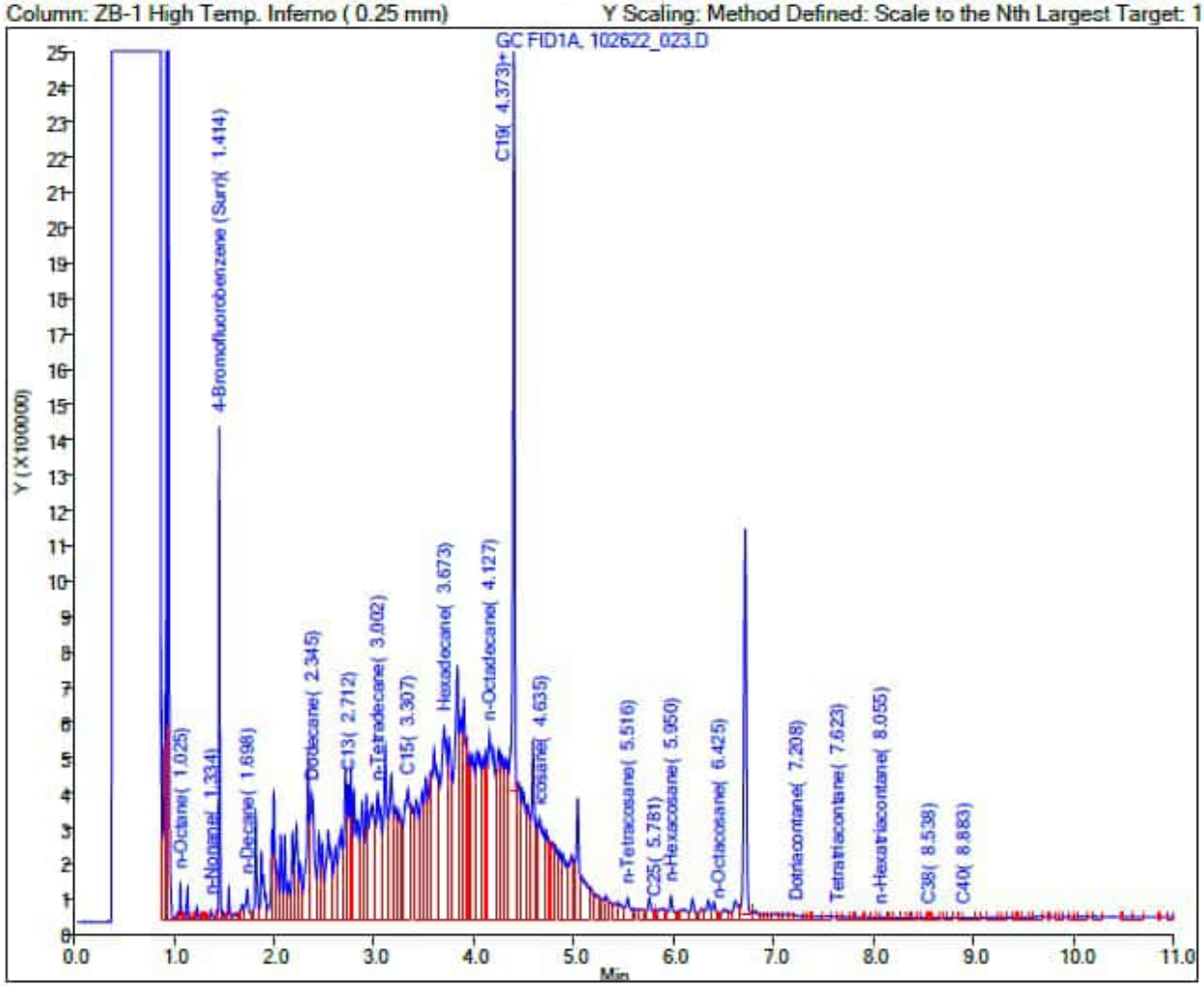
Results (ug/L): **TPH-d (C10 to C24) 2000** **TPH-o (C24 to C40) 180 J**

Report Date: 27-Oct-2022 13:37:59 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_023.D				
Injection Date:	26-Oct-2022 21:39:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-13-A	Lab Sample ID:	580-119152-13		
Client ID:	RHMW02-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	22	Worklist Smp#:	32
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



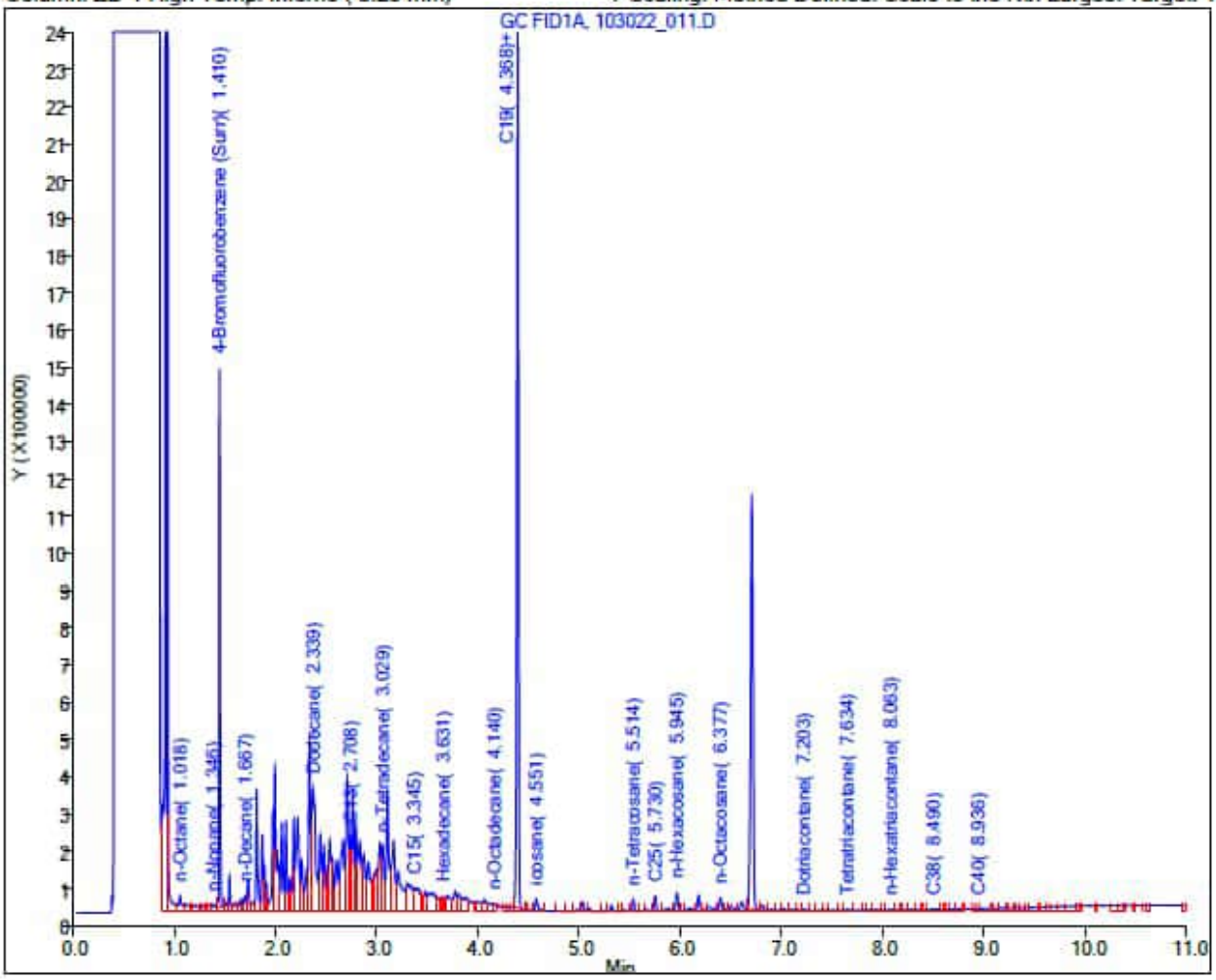
Results (ug/L): **TPH-d SGC (C10 to C24) 490** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 01-Nov-2022 13:45:05 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_011.D				
Injection Date:	31-Oct-2022 20:29:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-13-B	Lab Sample ID:	580-119152-13		
Client ID:	RHMW02-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	10	Worklist Smp#:	60
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

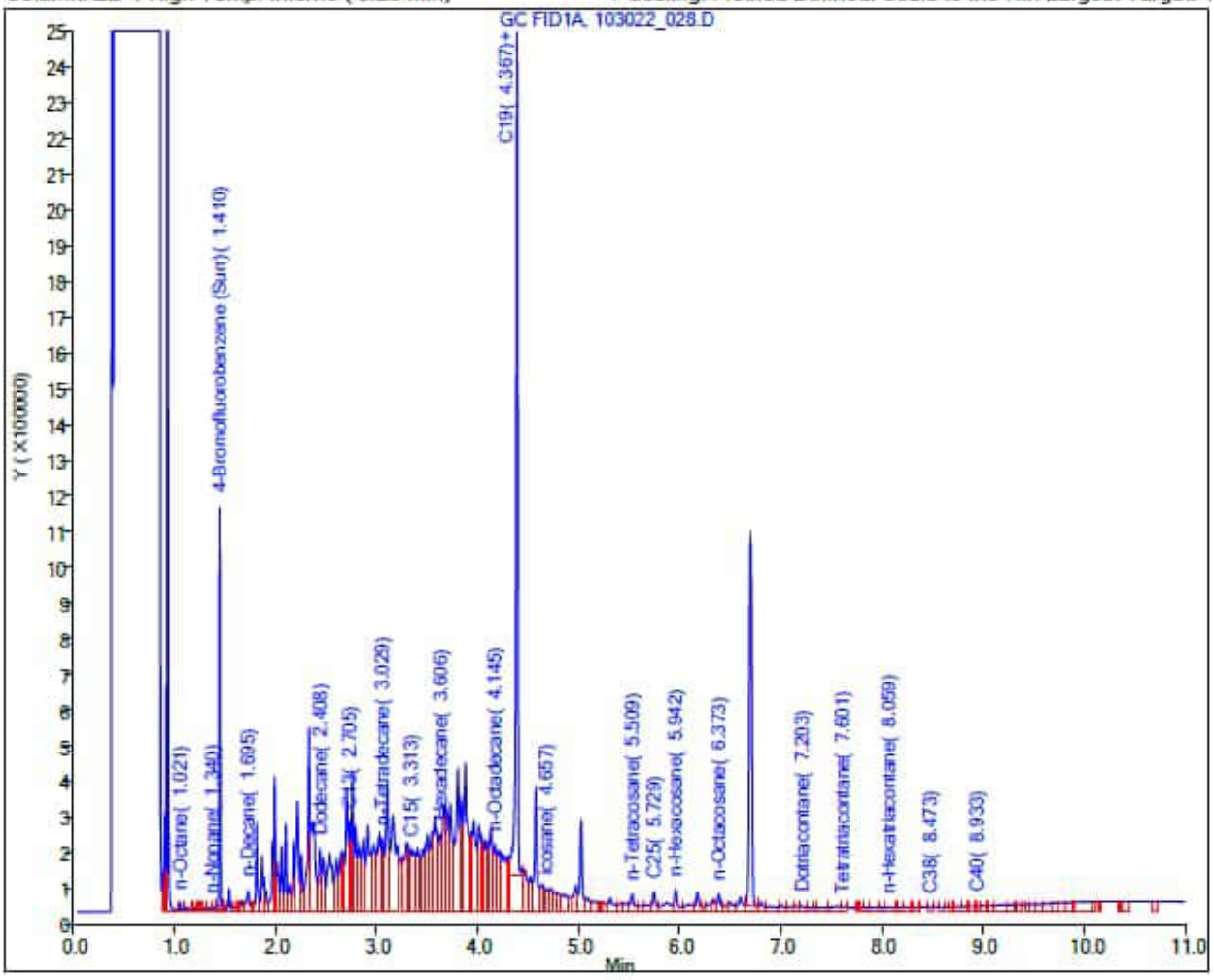
Results (ug/L): **TPH-d (C10 to C24) 1000** **TPH-o (C24 to C40) <320 U**

Report Date: 01-Nov-2022 13:47:30 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_028.D		
Injection Date:	01-Nov-2022 02:11:30	Instrument ID:	TAC020
Lims ID:	580-119339-O-11-A	Lab Sample ID:	580-119339-11
Client ID:	RHMW02-WGN01B-2210WK4		
Operator ID:	DH	ALS Bottle#:	27 Worklist Smp#: 77
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



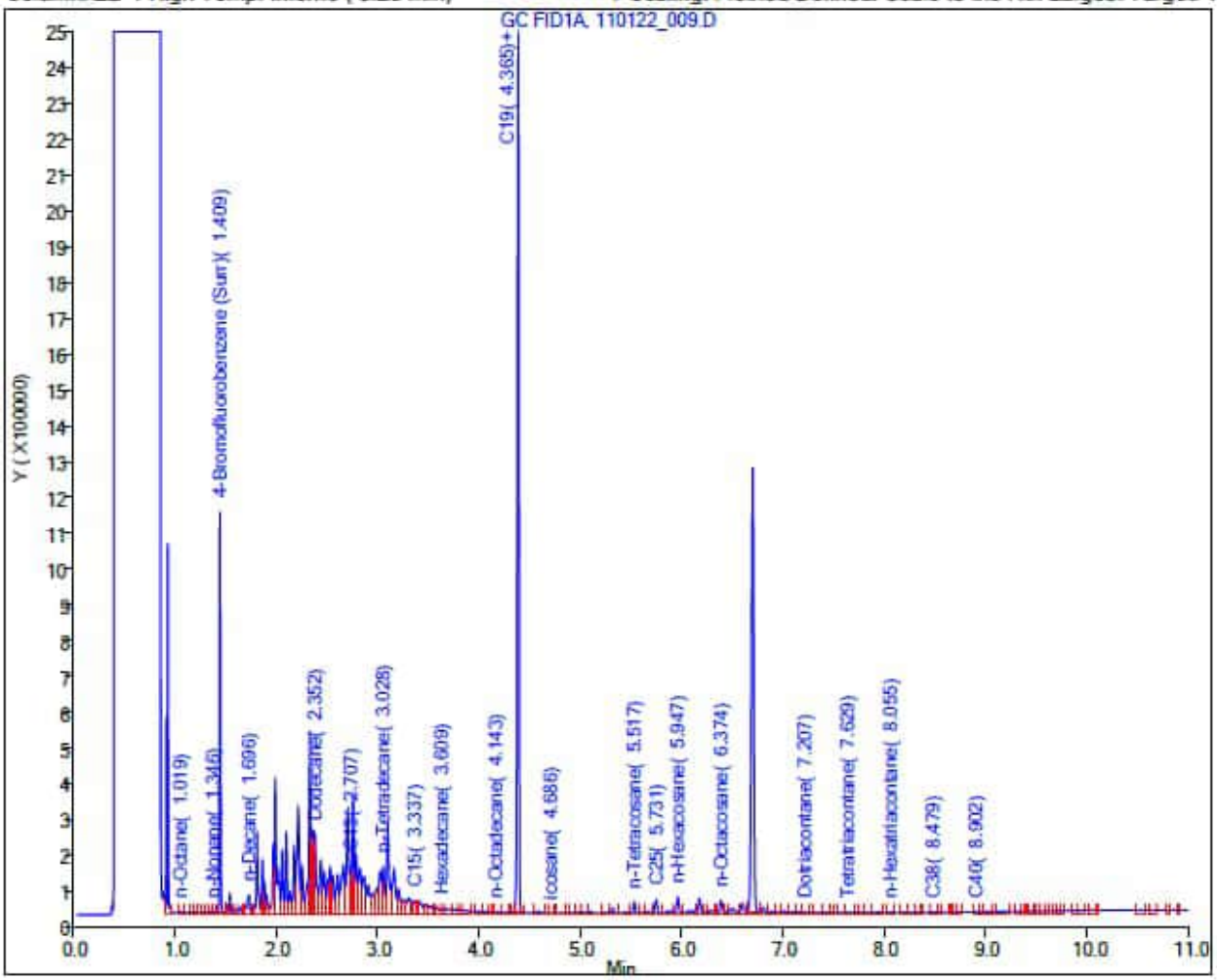
Results (ug/L): **TPH-d SGC (C10 to C24) 350** **TPH-o SGC (C24 to C40) <320 U**

Report Date: 02-Nov-2022 13:51:50 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_009.D				
Injection Date:	01-Nov-2022 18:20:30	Instrument ID:	TAC020		
Lims ID:	580-119339-O-11-B	Lab Sample ID:	580-119339-11		
Client ID:	RHMW02-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	8	Worklist Smp#:	46
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK4 Sample Date: 10/27/2022
Lab: Eurofins Seattle

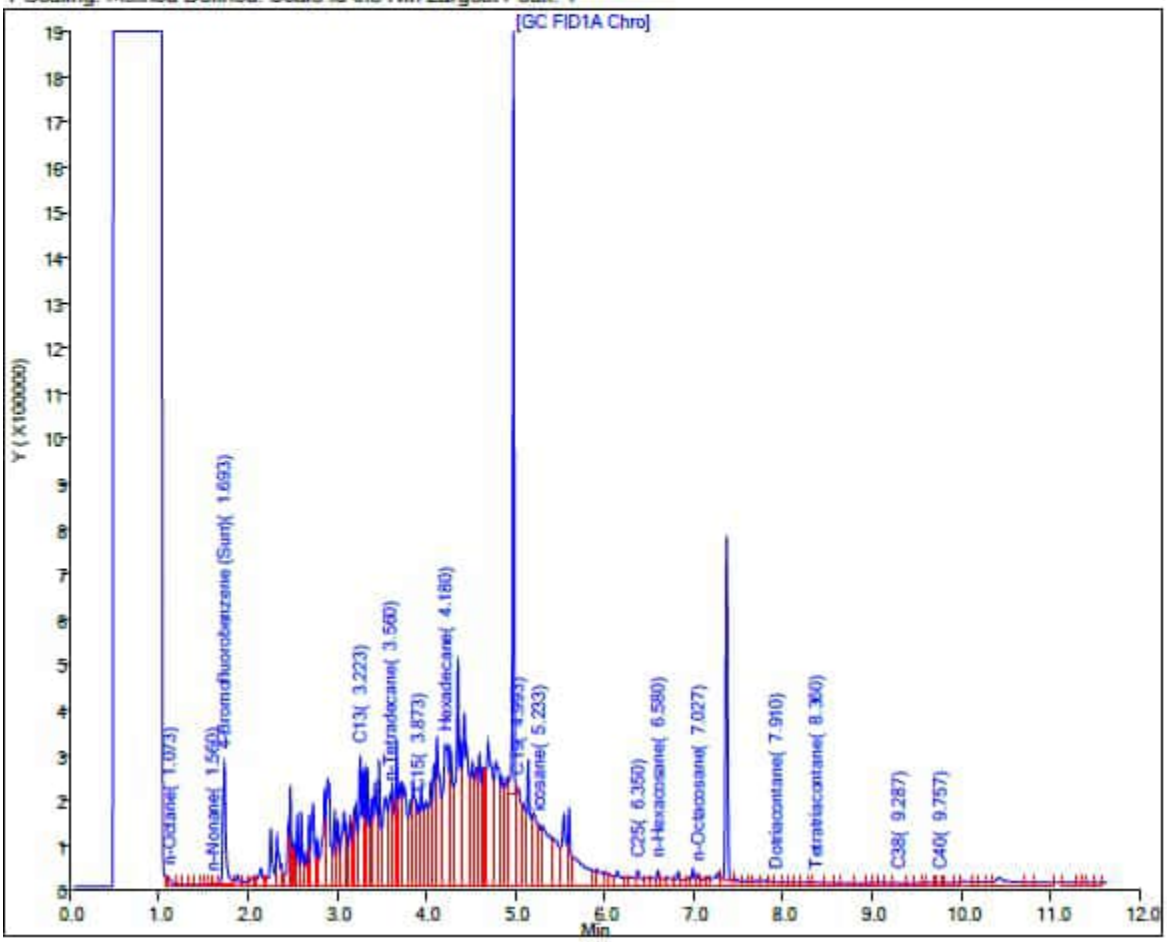
Results (ug/L): **TPH-d (C10 to C24) 1500 J** **TPH-o (C24 to C40) <290 U**

Report Date: 03-Nov-2022 14:12:03 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221102-85592.b\1102a22A042.D		
Injection Date:	02-Nov-2022 23:26:28	Instrument ID:	TAC129
Lims ID:	580-119481-N-3-A	Lab Sample ID:	580-119481-3
Client ID:	RHMW02-WGN02B-2210WK4		
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 30
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Results (ug/L): **TPH-d SGC (C10 to C24) 420 J** **TPH-o SGC (C24 to C40) <290 U**

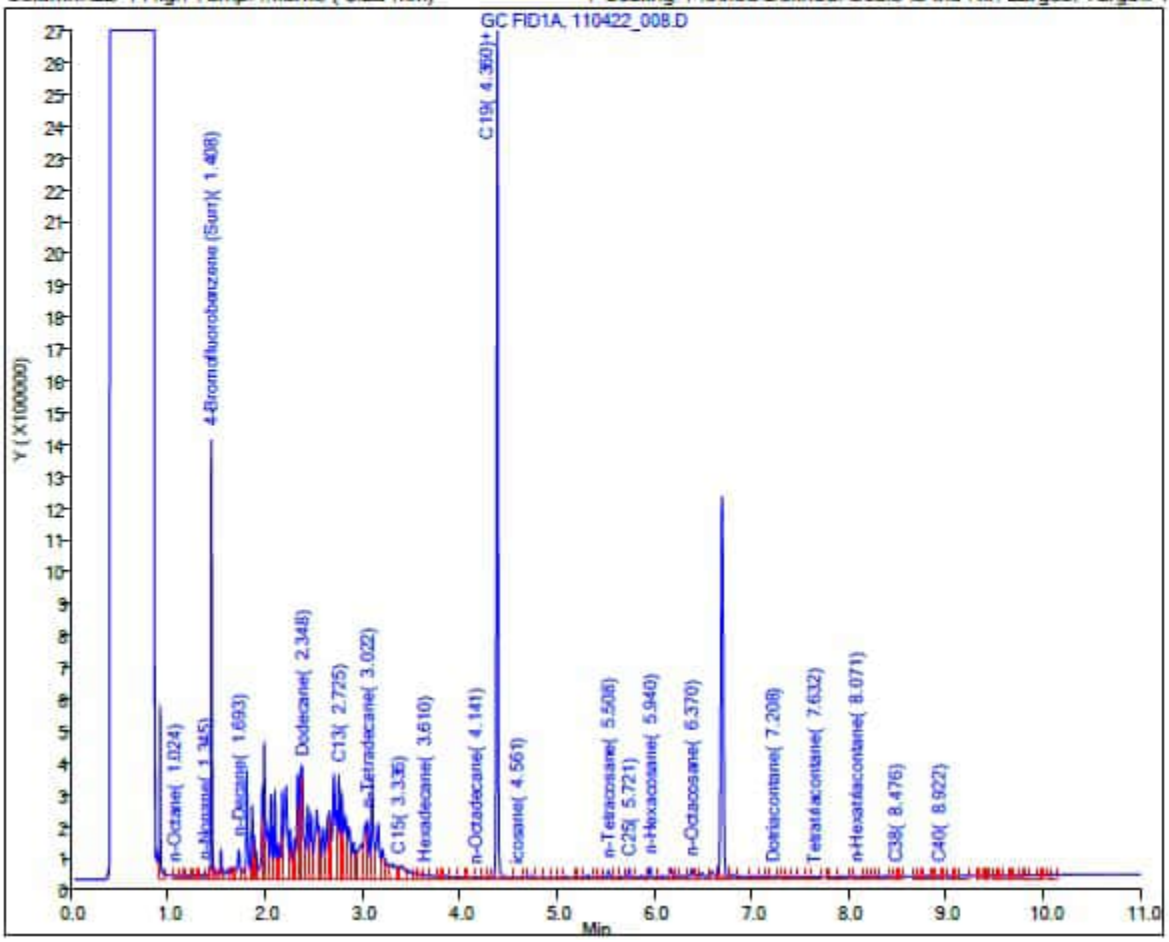
Report Date: 04-Nov-2022 19:56:26 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221104-85629.b\110422_008.D

Injection Date:	04-Nov-2022 18:17:30	Instrument ID:	TAC020		
Lims ID:	580-119481-N-3-B	Lab Sample ID:	580-119481-3		
Client ID:	RHMW02-WGN02B-2210WK4				
Operator ID:	DH	ALS Bottle#:	7	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN01B-2210WK5 Sample Date: 11/1/2022
Lab: Eurofins Seattle

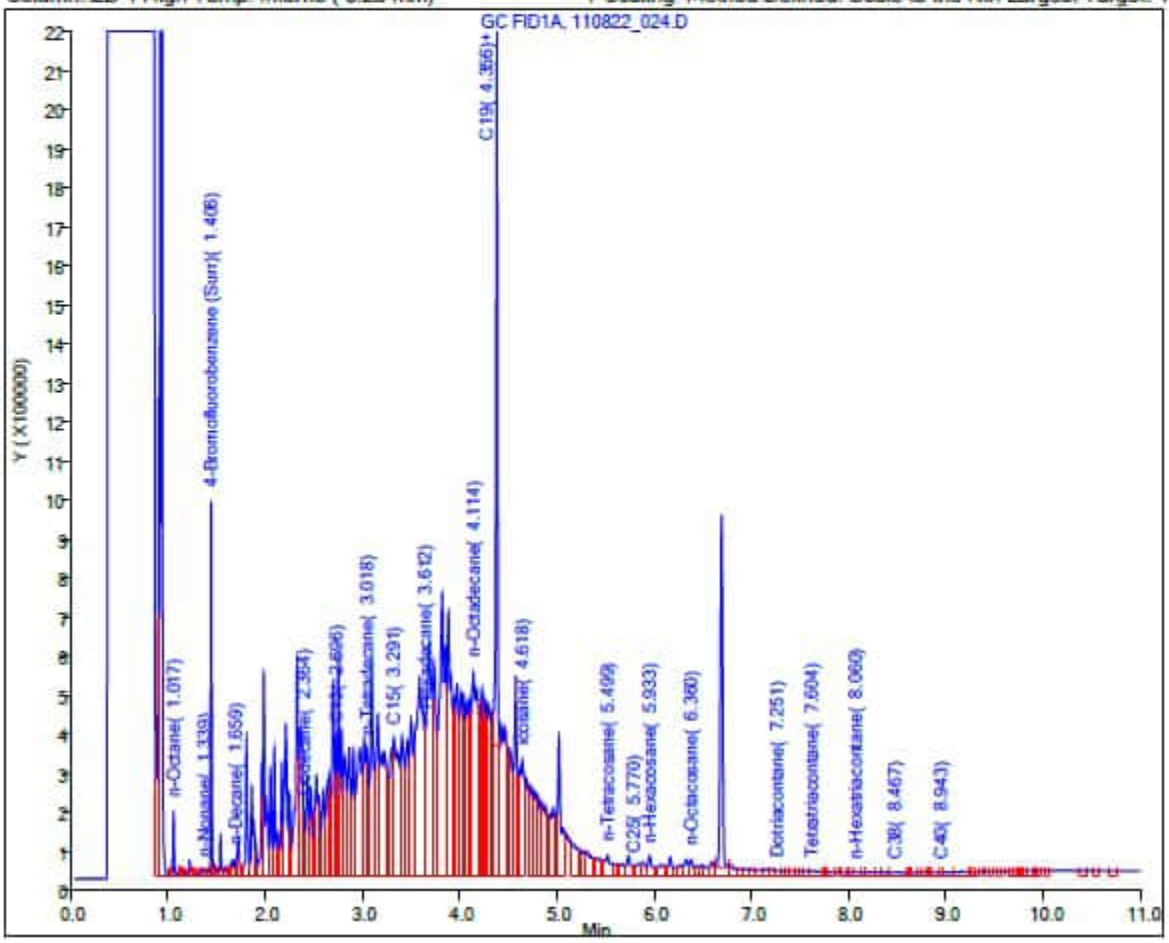
Results (ug/L): **TPH-d (C10 to C24) 1500 J** **TPH-o (C24 to C40) 140 J**

Report Date: 09-Nov-2022 13:55:36 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_024.D		
Injection Date:	09-Nov-2022 01:14:30	Instrument ID:	TAC020
Lims ID:	580-119618-O-1-A	Lab Sample ID:	580-119618-1
Client ID:	RHMW02-WGN01B-2210WK5		
Operator ID:	DH	ALS Bottle#: 23	Worklist Smp#: 23
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) 350 J** **TPH-o SGC (C24 to C40) 230 UJ**

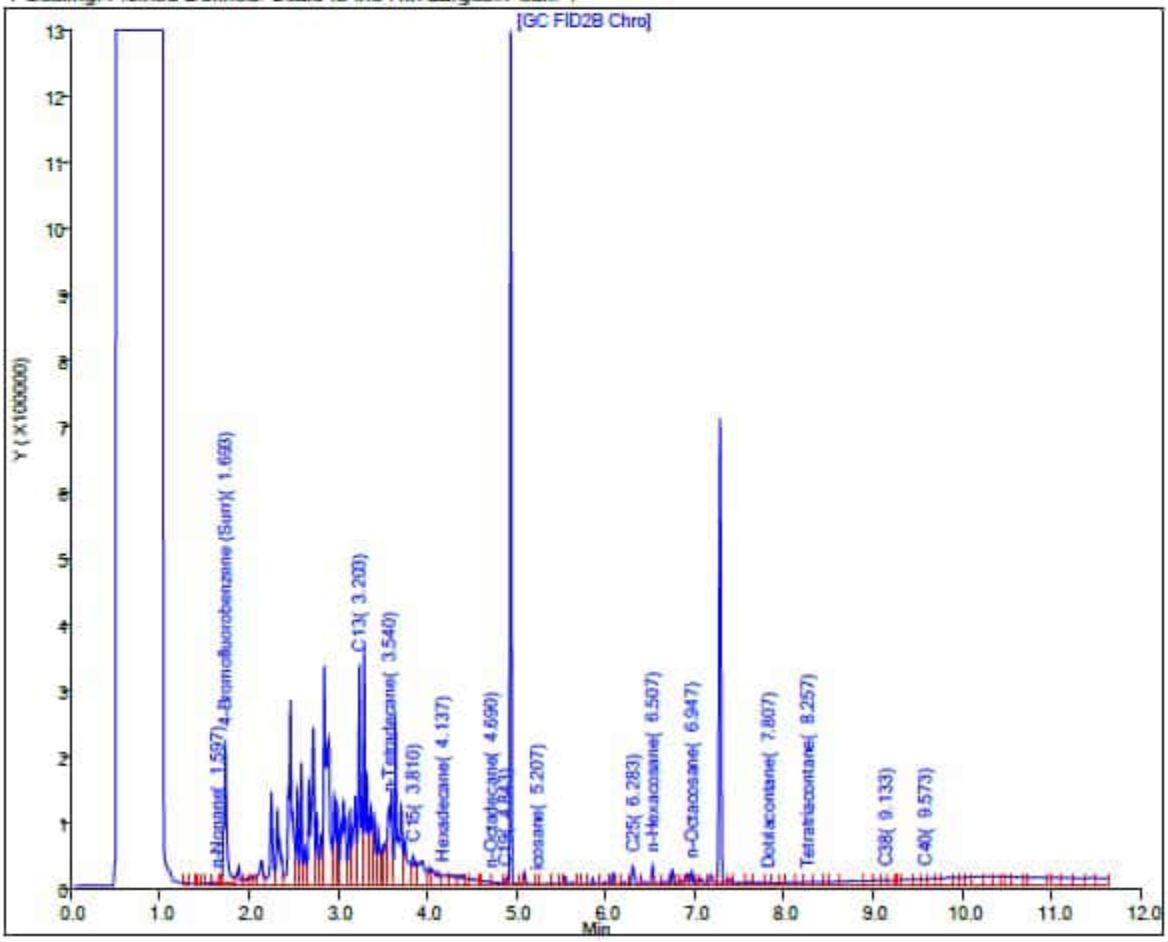
Report Date: 14-Nov-2022 16:15:34 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221111-85750.b\111122A019.D

Injection Date:	11-Nov-2022 19:10:02	Instrument ID:	TAC129_R		
Lims ID:	580-119618-O-1-B	Lab Sample ID:	580-119618-1		
Client ID:	RHMW02-WGN01B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	41
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2210WK5 Sample Date: 11/3/2022
Lab: Eurofins Seattle

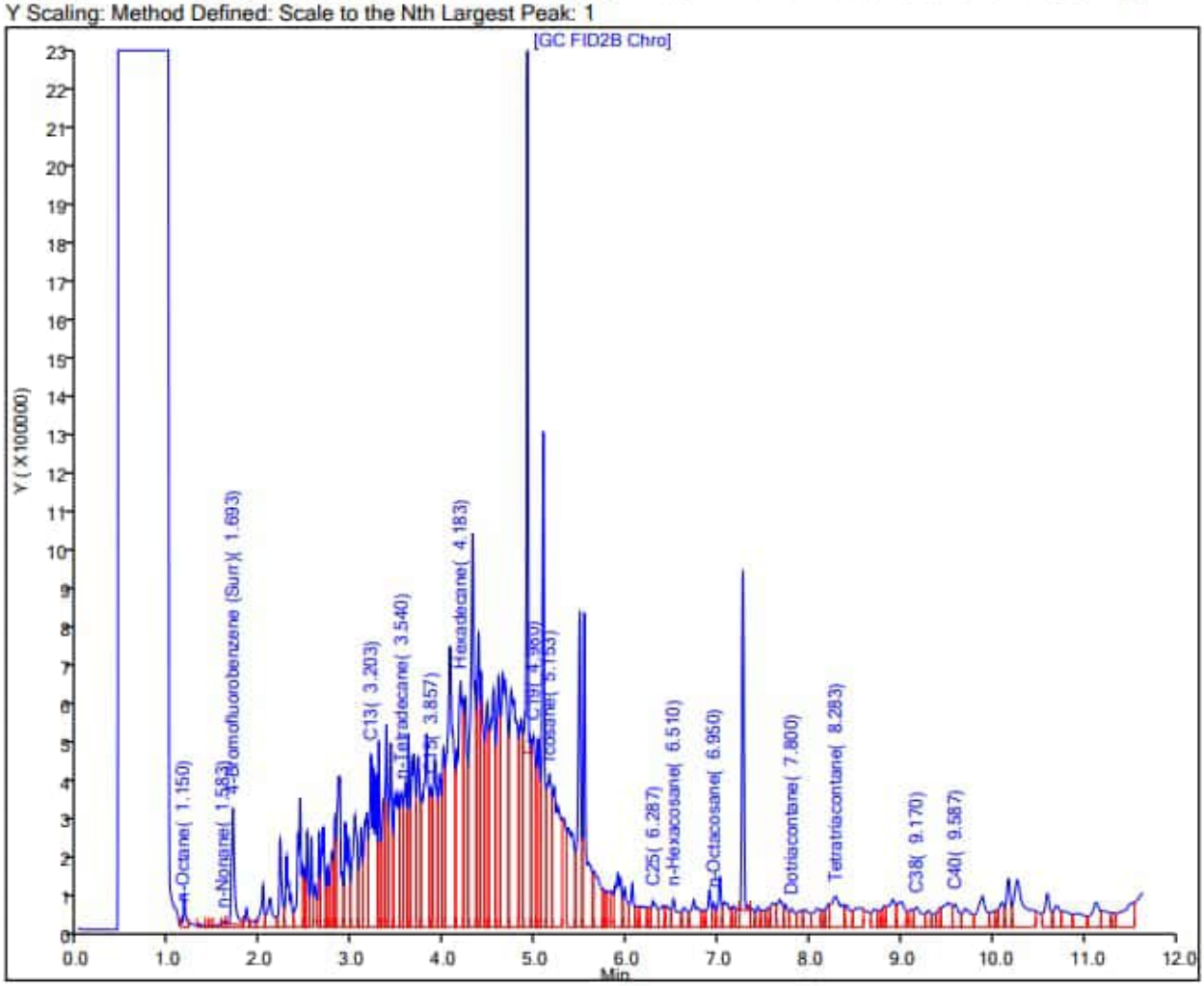
Results (ug/L): **TPH-d (C10 to C24) 2900** **TPH-o (C24 to C40) 630**

Report Date: 11-Nov-2022 16:00:55 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A017.D				
Injection Date:	10-Nov-2022 21:02:52	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-5-A	Lab Sample ID:	580-119733-5		
Client ID:	RHMW02-WGN02B-2210WK5				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	37
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



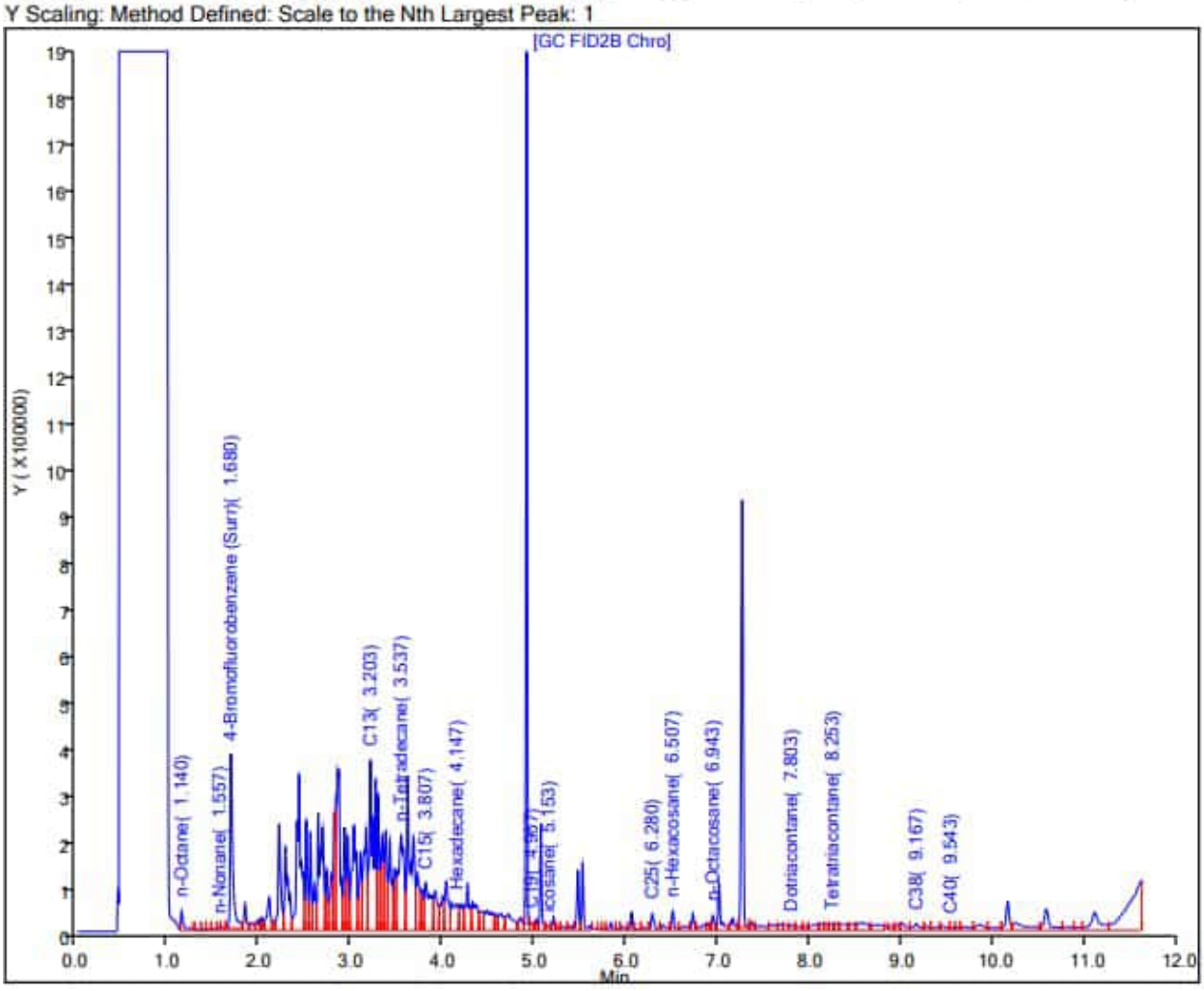
Results (ug/L): **TPH-d SGC (C10 to C24) 700** **TPH-o SGC (C24 to C40) 140 J**

Report Date: 15-Nov-2022 22:31:58 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221115-85801.b\1115abcd22A021.D				
Injection Date:	15-Nov-2022 20:11:17	Instrument ID:	TAC129_R		
Lims ID:	580-119733-O-5-B	Lab Sample ID:	580-119733-5		
Client ID:	RHMW02-WGN02B-2210WK5				
Operator ID:	ar	ALS Bottle#:	0	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

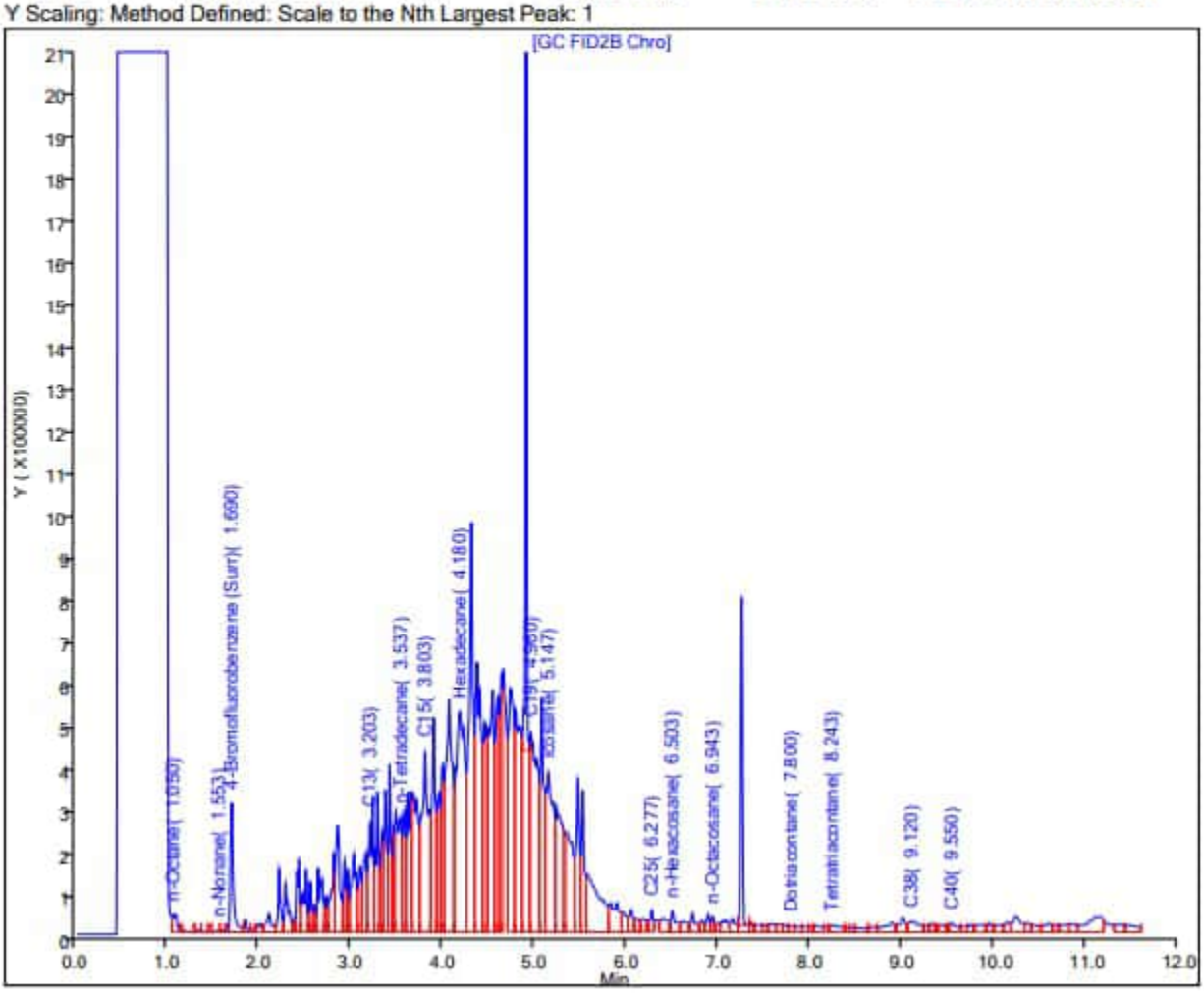
Results (ug/L): **TPH-d (C10 to C24) 3000** **TPH-o (C24 to C40) 340 J**

Report Date: 30-Nov-2022 12:33:10 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A047.D				
Injection Date:	30-Nov-2022 01:13:26	Instrument ID:	TAC129_R		
Lims ID:	580-120410-E-9-A	Lab Sample ID:	580-120410-9		
Client ID:	RHMW02-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	70
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



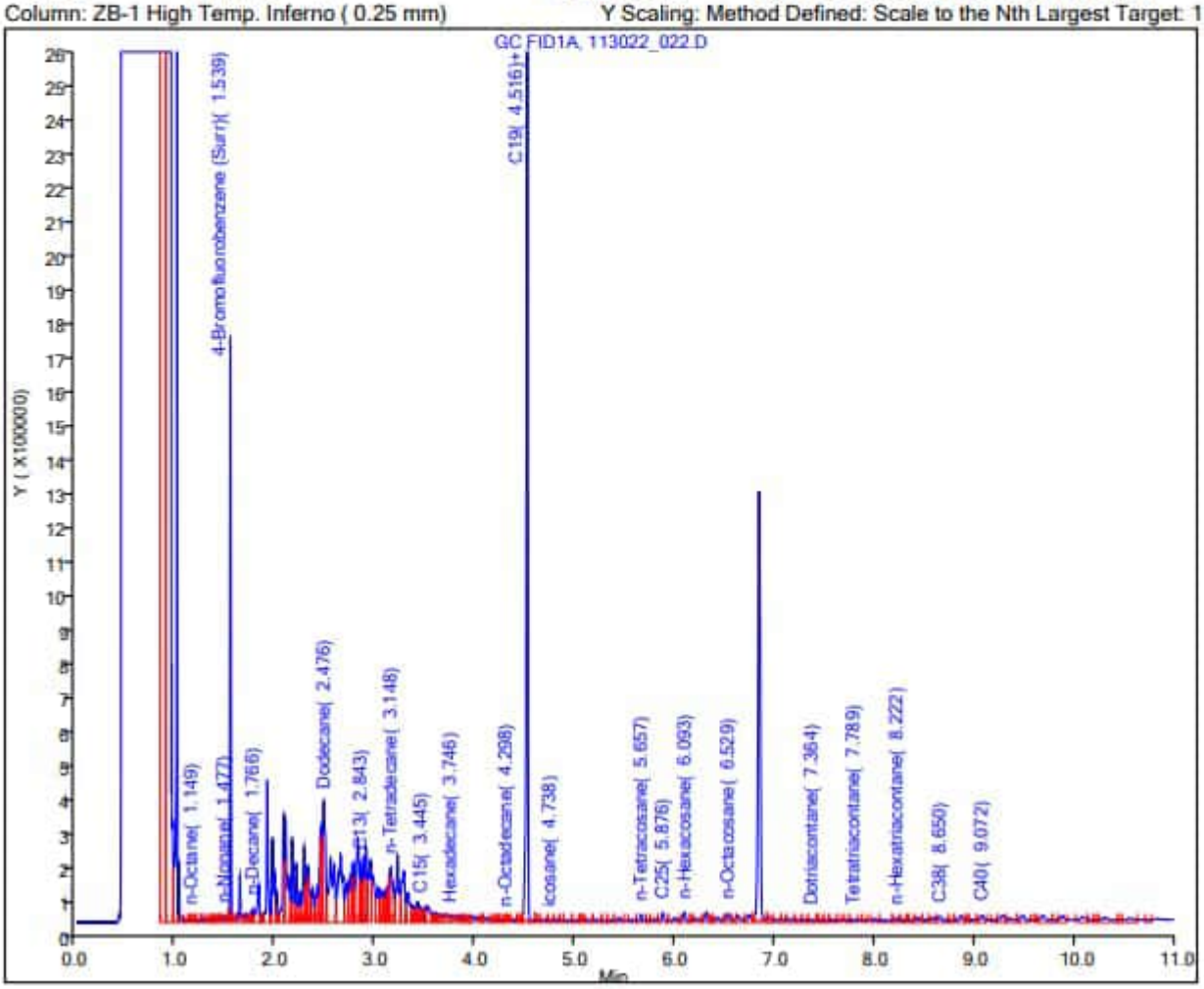
Results (ug/L): **TPH-d SGC (C10 to C24) 400** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 30-Nov-2022 22:33:08 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_022.D				
Injection Date:	30-Nov-2022 19:51:30	Instrument ID:	TAC020		
Lims ID:	580-120410-E-9-B	Lab Sample ID:	580-120410-9		
Client ID:	RHMW02-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	63
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW02** Sample ID: RHMW02-WGN02B-2211WK4 Sample Date: 11/30/2022
Lab: Eurofins Seattle

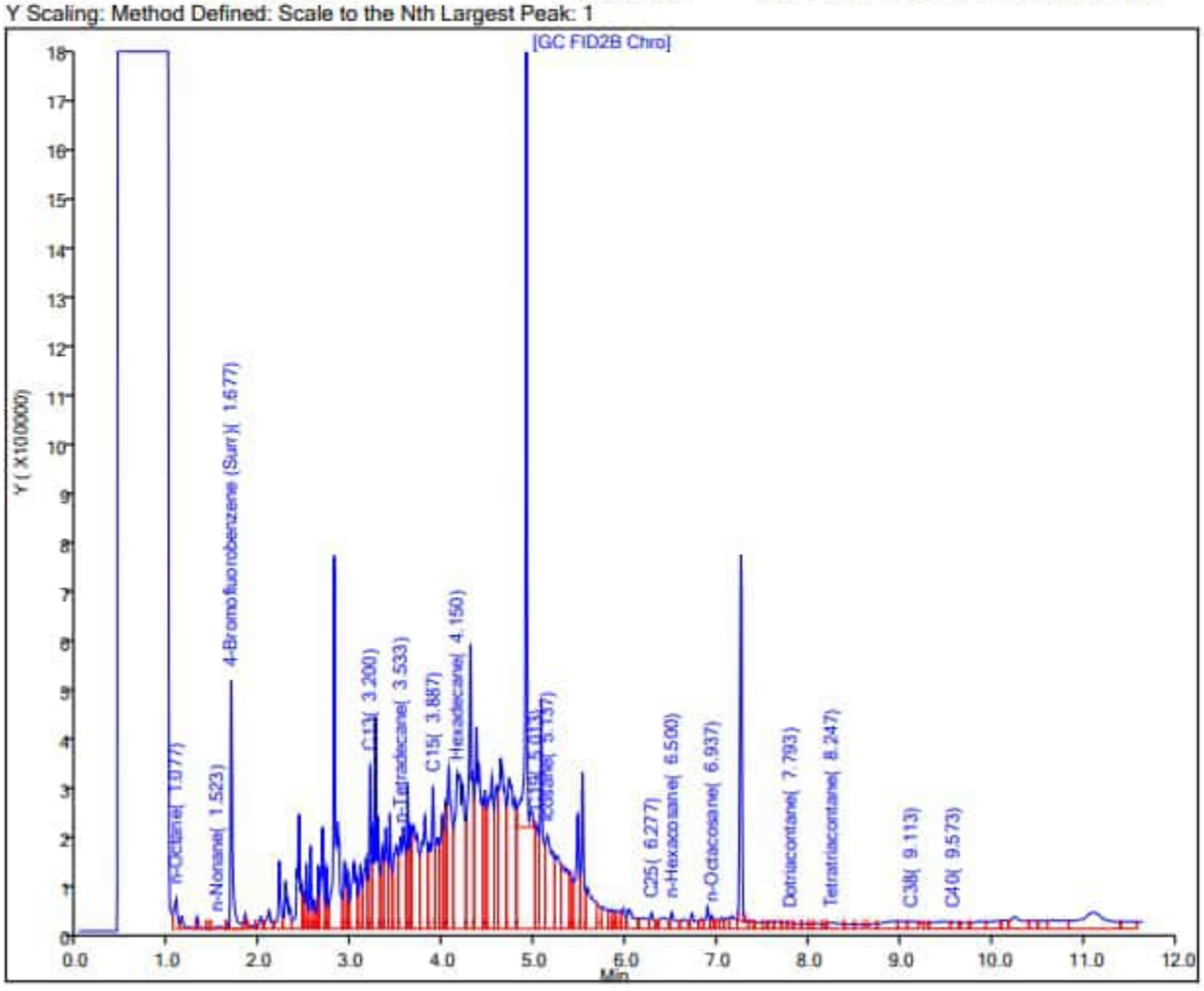
Results (ug/L): **TPH-d (C10 to C24) 1900** **TPH-o (C24 to C40) 280 J**

Report Date: 06-Dec-2022 13:59:40 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A025.D				
Injection Date:	05-Dec-2022 22:58:05	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-11-A	Lab Sample ID:	580-120678-11		
Client ID:	RHMW02-WGN02B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



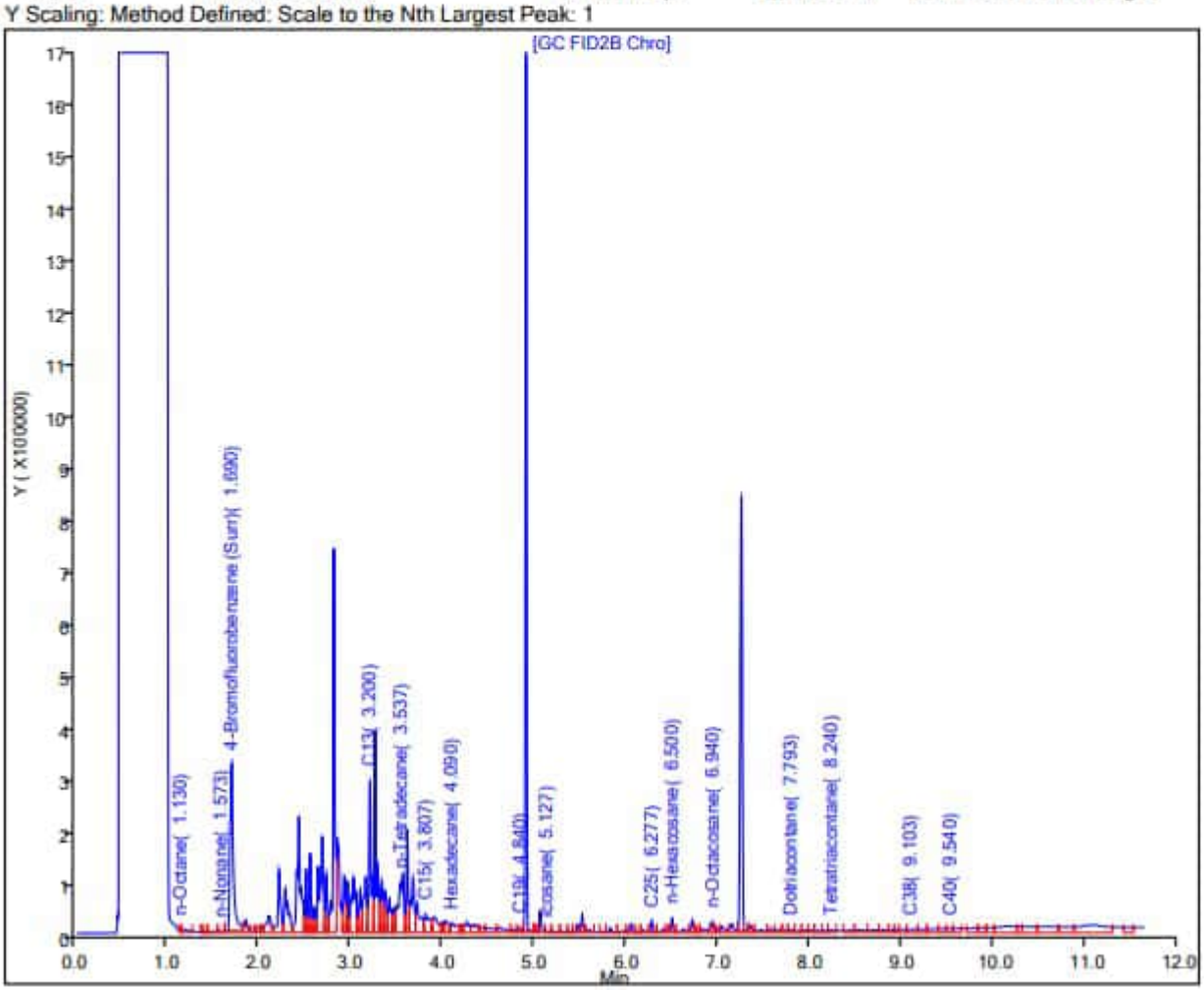
Results (ug/L): **TPH-d SGC (C10 to C24) 430** **TPH-o SGC (C24 to C40) <300 U**

Report Date: 09-Dec-2022 15:19:30 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A023.D				
Injection Date:	06-Dec-2022 23:56:03	Instrument ID:	TAC129_R		
Lims ID:	580-120678-O-11-B	Lab Sample ID:	580-120678-11		
Client ID:	RHMW02-WGN02B-2211WK4				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	12
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2210WK3 Sample Date: 10/20/2022
Lab: Eurofins Seattle

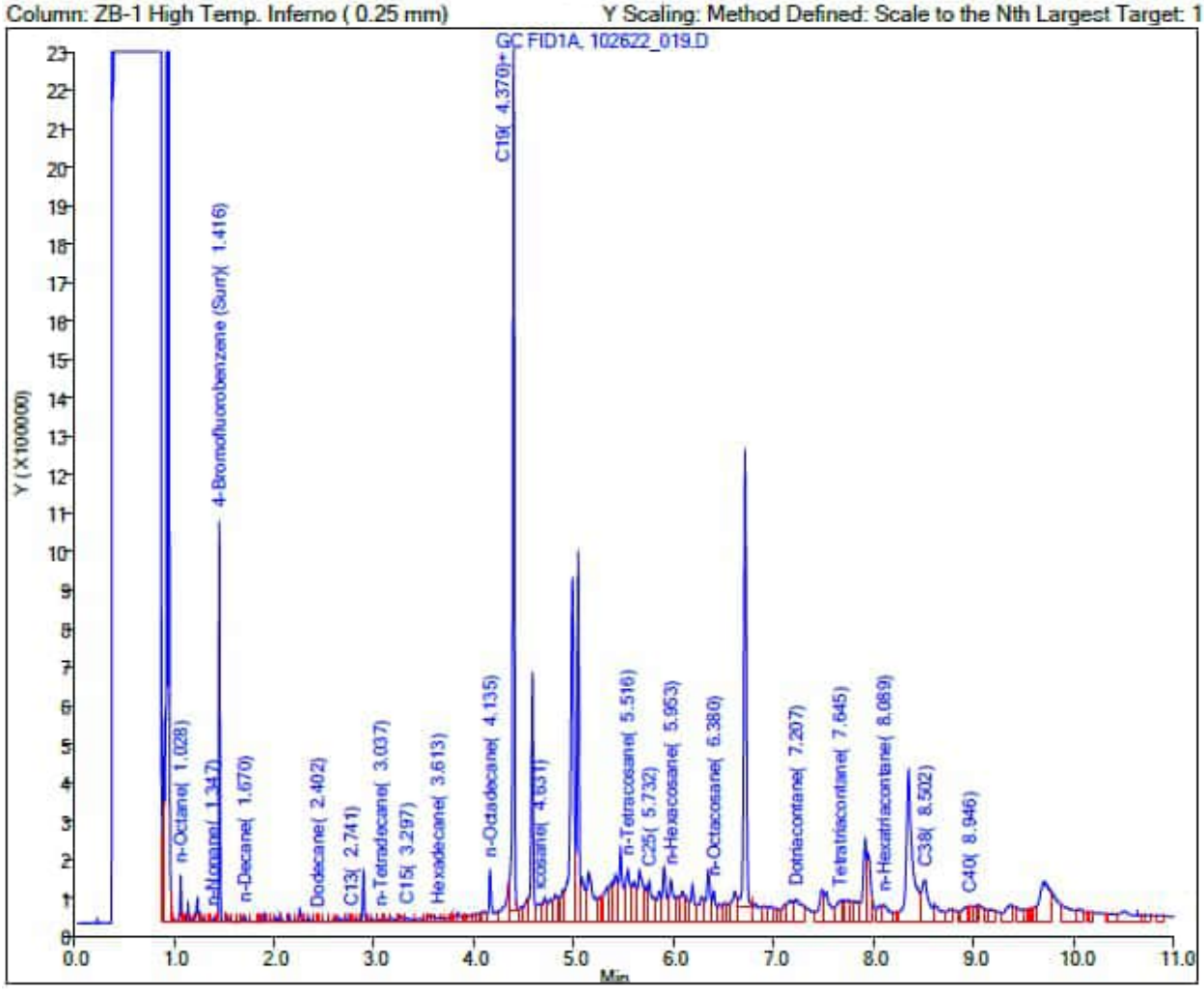
Results (ug/L): **TPH-d (C10 to C24) 360** **TPH-o (C24 to C40) 540**

Report Date: 27-Oct-2022 13:37:31 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_019.D				
Injection Date:	26-Oct-2022 20:18:30	Instrument ID:	TAC020		
Lims ID:	580-119152-N-1-A	Lab Sample ID:	580-119152-1		
Client ID:	RHMW03-WGN02B-2210WK3				
Operator ID:	DH	ALS Bottle#:	18	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 190 J**

Report Date: 01-Nov-2022 13:44:56 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_009.D

Injection Date: 31-Oct-2022 19:48:30 Instrument ID: TAC020

Lims ID: 580-119152-N-1-B Lab Sample ID: 580-119152-1

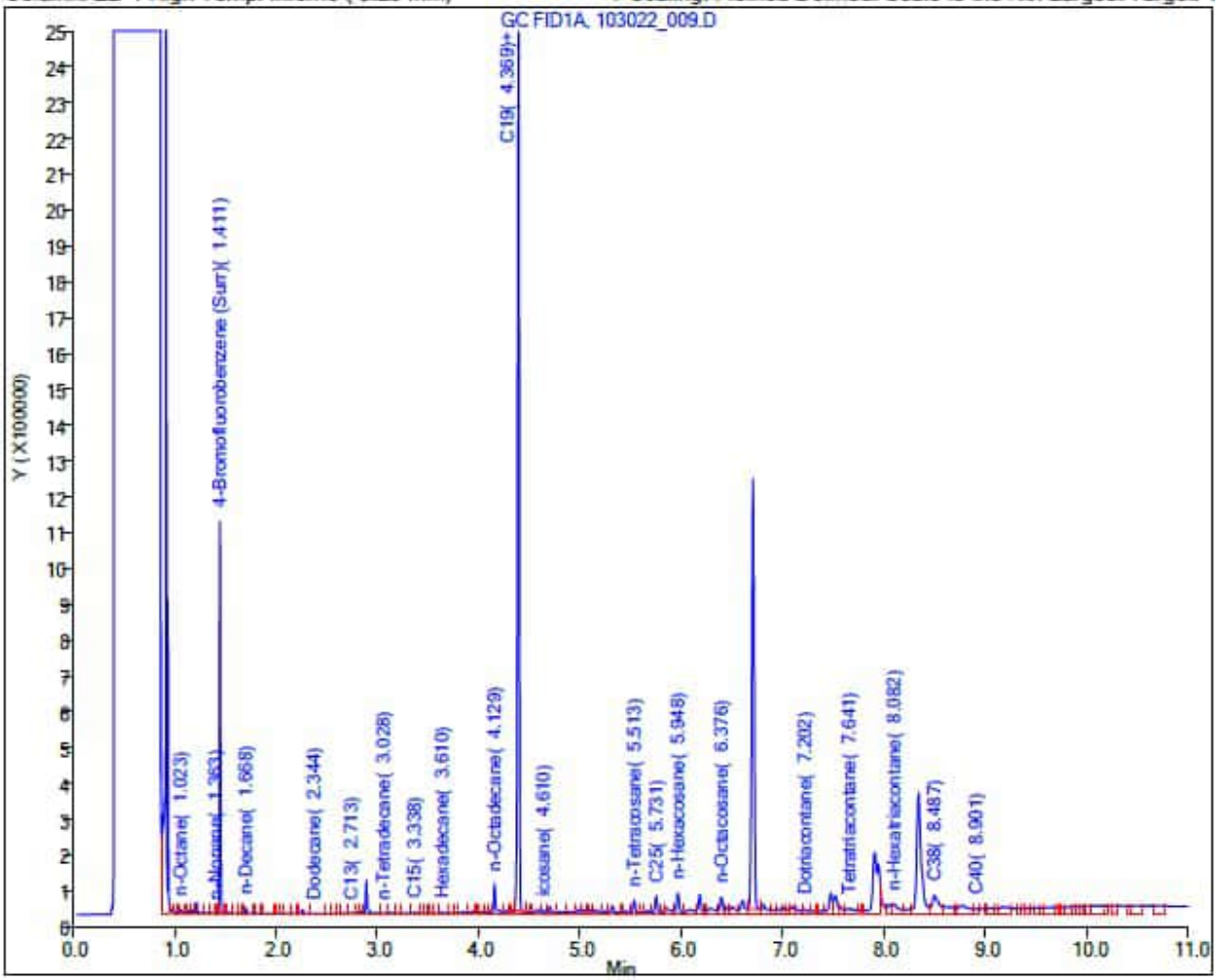
Client ID: RHMW03-WGN02B-2210WK3

Operator ID: DH ALS Bottle#: 8 Worklist Smp#: 58

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW03** Sample ID: RHMW03-WGN02B-2211WK3 Sample Date: 11/22/2022
Lab: Eurofins Seattle

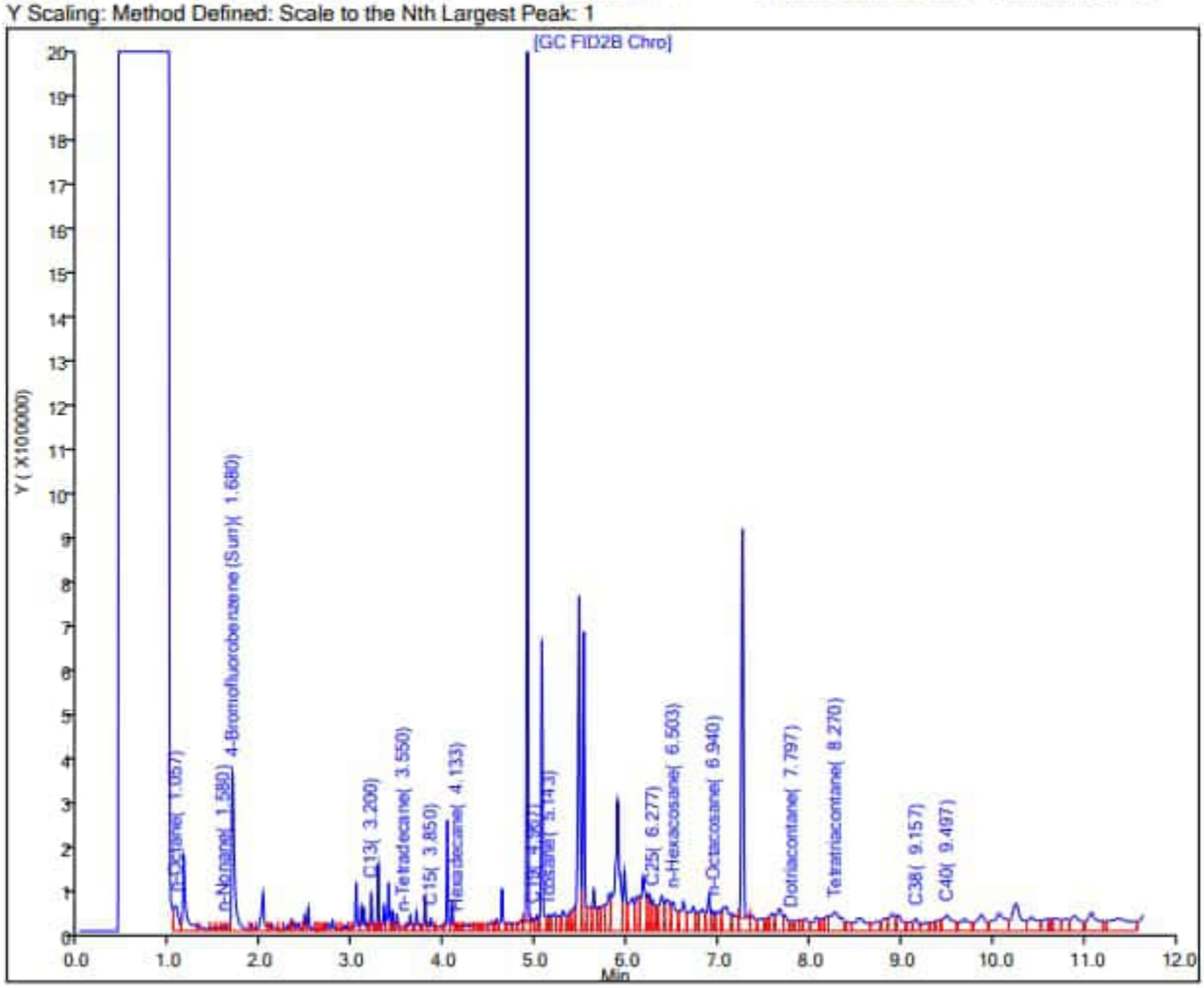
Results (ug/L): **TPH-d (C10 to C24) 470** **TPH-o (C24 to C40) 500**

Report Date: 30-Nov-2022 12:32:27 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A025.D				
Injection Date:	29-Nov-2022 21:49:24	Instrument ID:	TAC129_R		
Lims ID:	580-120405-F-3-A	Lab Sample ID:	580-120405-3		
Client ID:	RHMW03-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



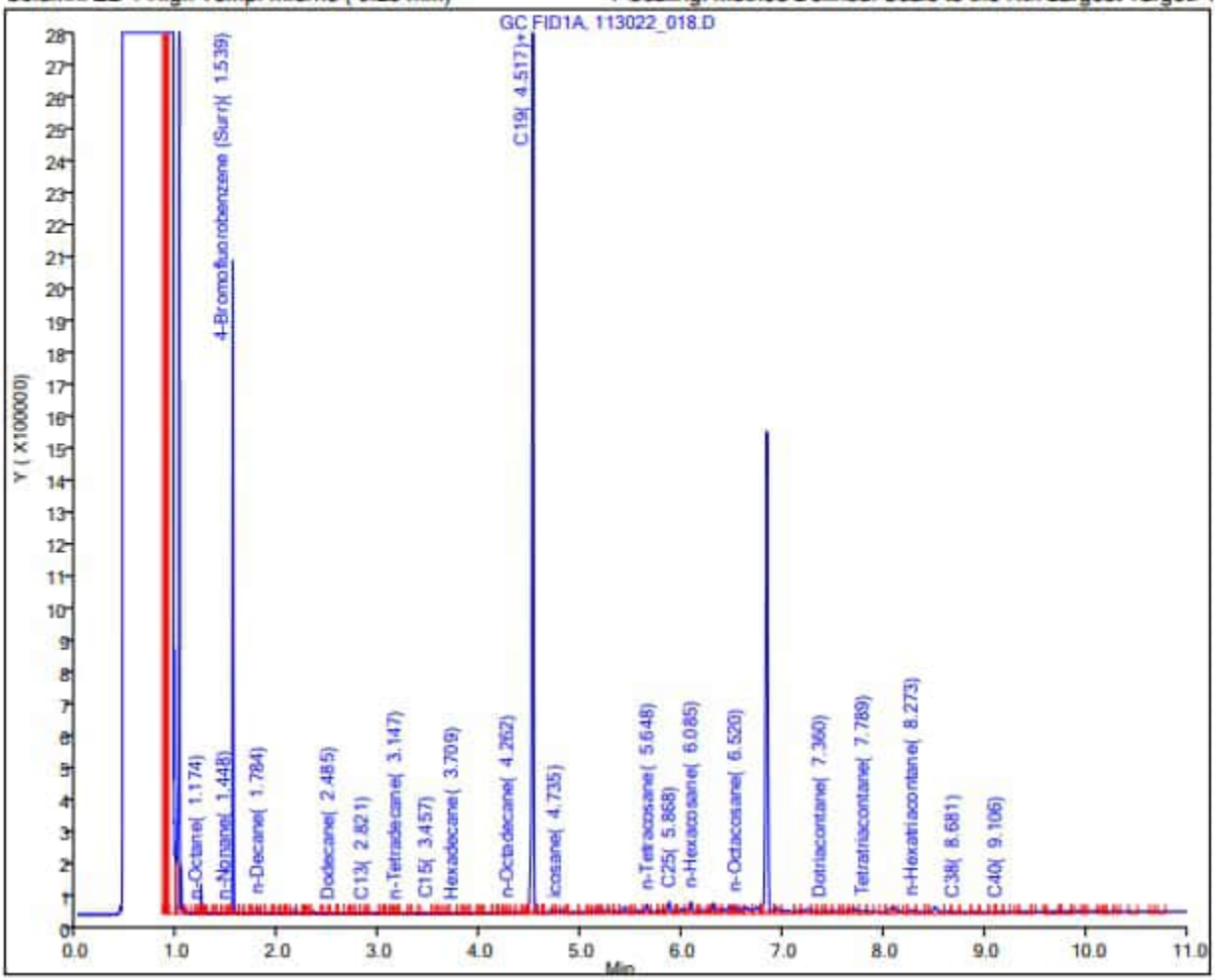
Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <310 U**

Report Date: 30-Nov-2022 22:32:48 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221130-86029.b\113022_018.D				
Injection Date:	30-Nov-2022 18:30:30	Instrument ID:	TAC020		
Lims ID:	580-120405-F-3-B	Lab Sample ID:	580-120405-3		
Client ID:	RHMW03-WGN02B-2211WK3				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	59
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW05** Sample ID: RHMW05-WGN01B-2210WK4 Sample Date: 10/25/2022
Lab: Eurofins Seattle

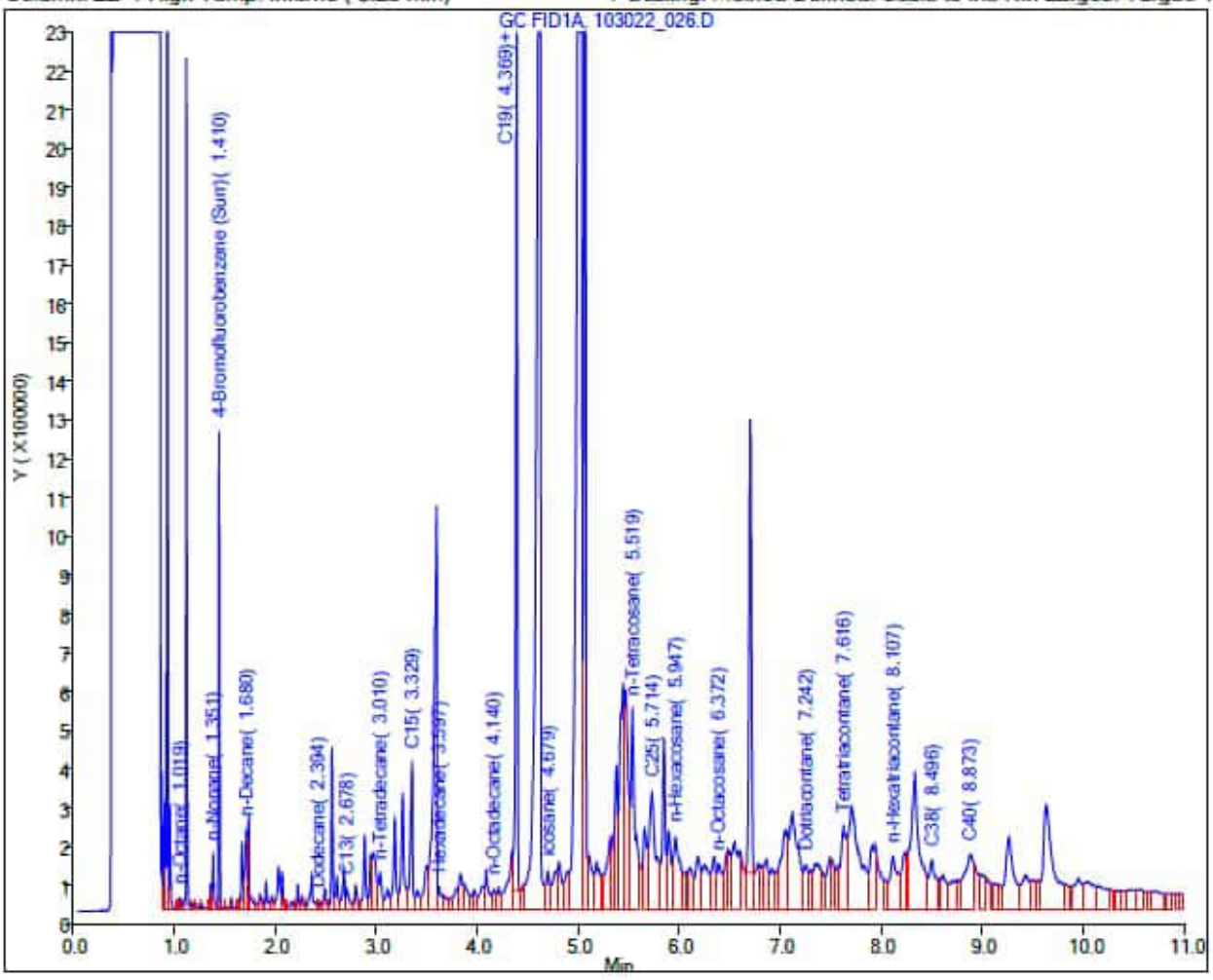
Results (ug/L): **TPH-d (C10 to C24) 1500** **TPH-o (C24 to C40) 1200**

Report Date: 01-Nov-2022 13:47:17 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_026.D				
Injection Date:	01-Nov-2022 01:31:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-5-A	Lab Sample ID:	580-119339-5		
Client ID:	RHMW05-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	25	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



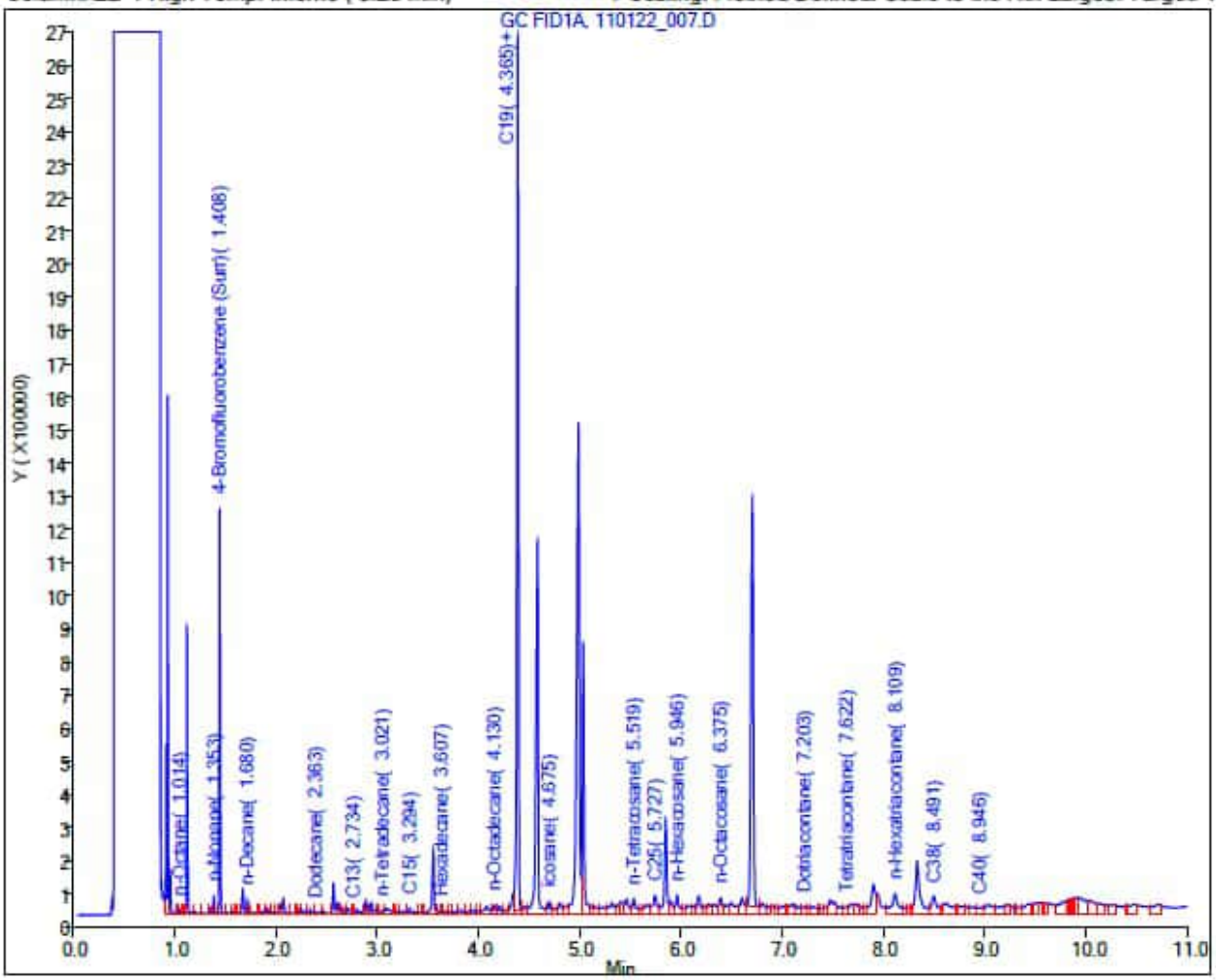
Results (ug/L): **TPH-d SGC (C10 to C24) 280** **TPH-o SGC (C24 to C40) 260 J**

Report Date: 02-Nov-2022 13:51:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20221101-85569.b\110122_007.D				
Injection Date:	01-Nov-2022 17:40:30	Instrument ID:	TAC020		
Lims ID:	580-119339-N-5-B	Lab Sample ID:	580-119339-5		
Client ID:	RHMW05-WGN01B-2210WK4				
Operator ID:	DH	ALS Bottle#:	6	Worklist Smp#:	44
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Location: **RHMW2254-01** Sample ID: RHMW2254-01-WGN01B-2208WK4 Sample Date: 8/25/2022
Lab: Eurofins Seattle

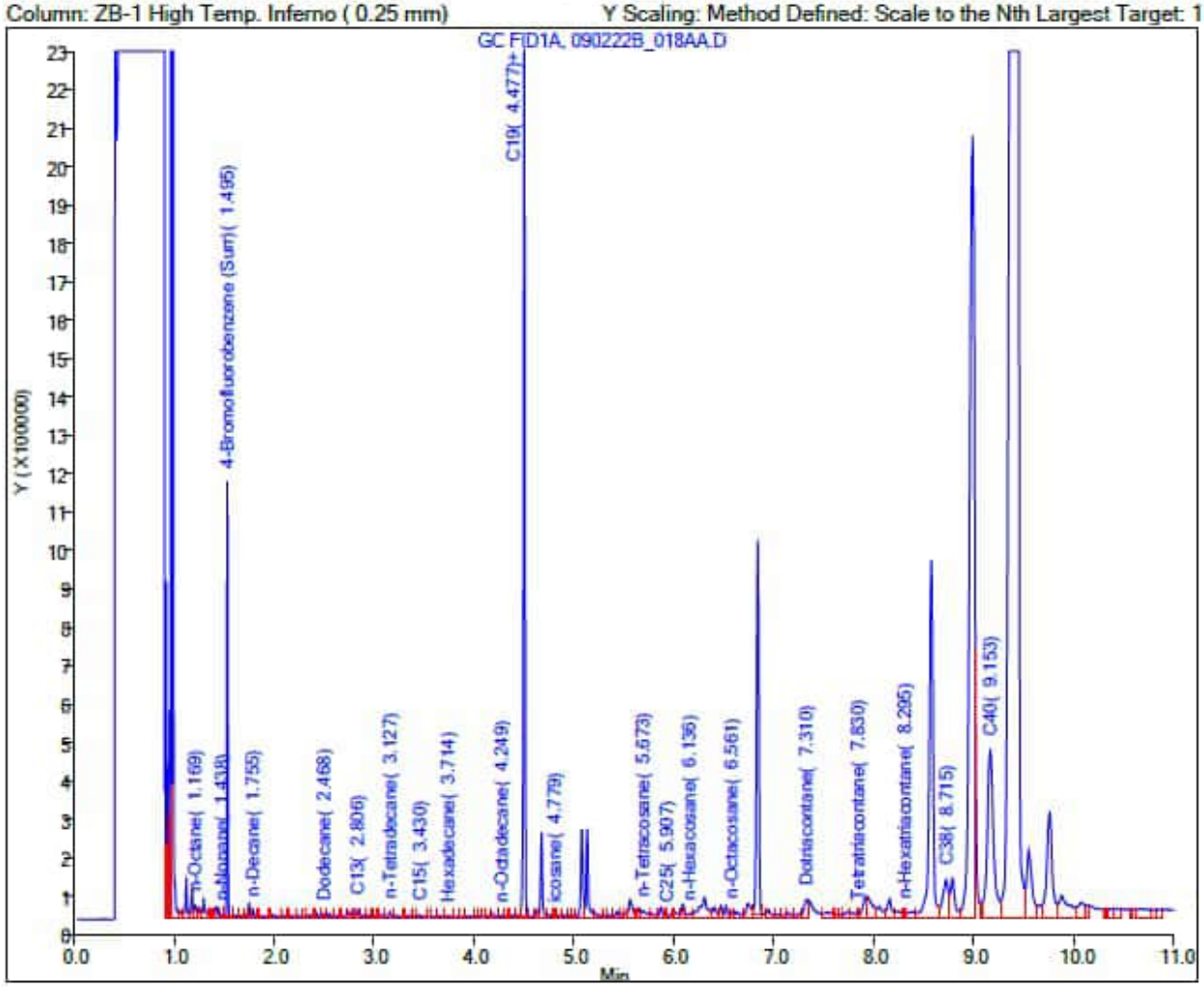
Results (ug/L): **TPH-d (C10 to C24) 90 J** **TPH-o (C24 to C40) 730 J**

Report Date: 06-Sep-2022 14:17:53 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220902-84641.b\090222B_018AA.D				
Injection Date:	03-Sep-2022 04:01:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-1-A	Lab Sample ID:	580-117347-1		
Client ID:	RHMW2254-01-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	17	Worklist Smp#:	75
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



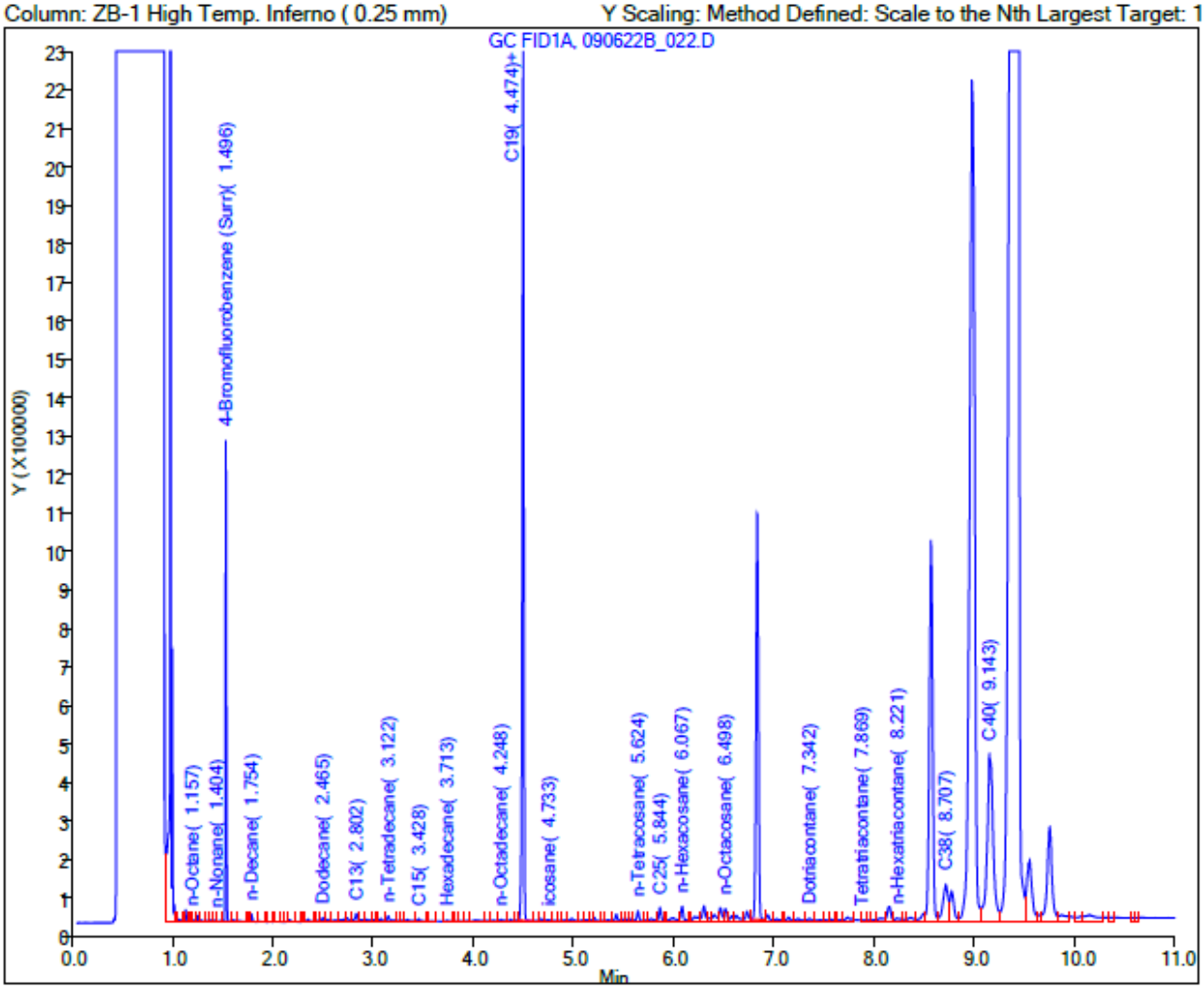
Results (ug/L): **TPH-d SGC (C10 to C24) <100 UJ** **TPH-o SGC (C24 to C40) 660 J**

Report Date: 07-Sep-2022 13:40:17 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC020\20220906-84685.b\090622B_022.D				
Injection Date:	07-Sep-2022 05:07:30	Instrument ID:	TAC020		
Lims ID:	580-117347-C-1-B	Lab Sample ID:	580-117347-1		
Client ID:	RHMW2254-01-WGN01B-2208WK4				
Operator ID:	DH	ALS Bottle#:	21	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-Front_TAC020	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117085-1

Sample ID:
RHMW04-WGFD01B-2208WK3, RHMW04-WGN01B-2208WK3, RHMW06-WGN01B-2208WK3, RHMW08-WGN01B-2208WK3, RHMW11-05-WGN01G-2208WK3, RHMW17-WGN01B-2208WK3

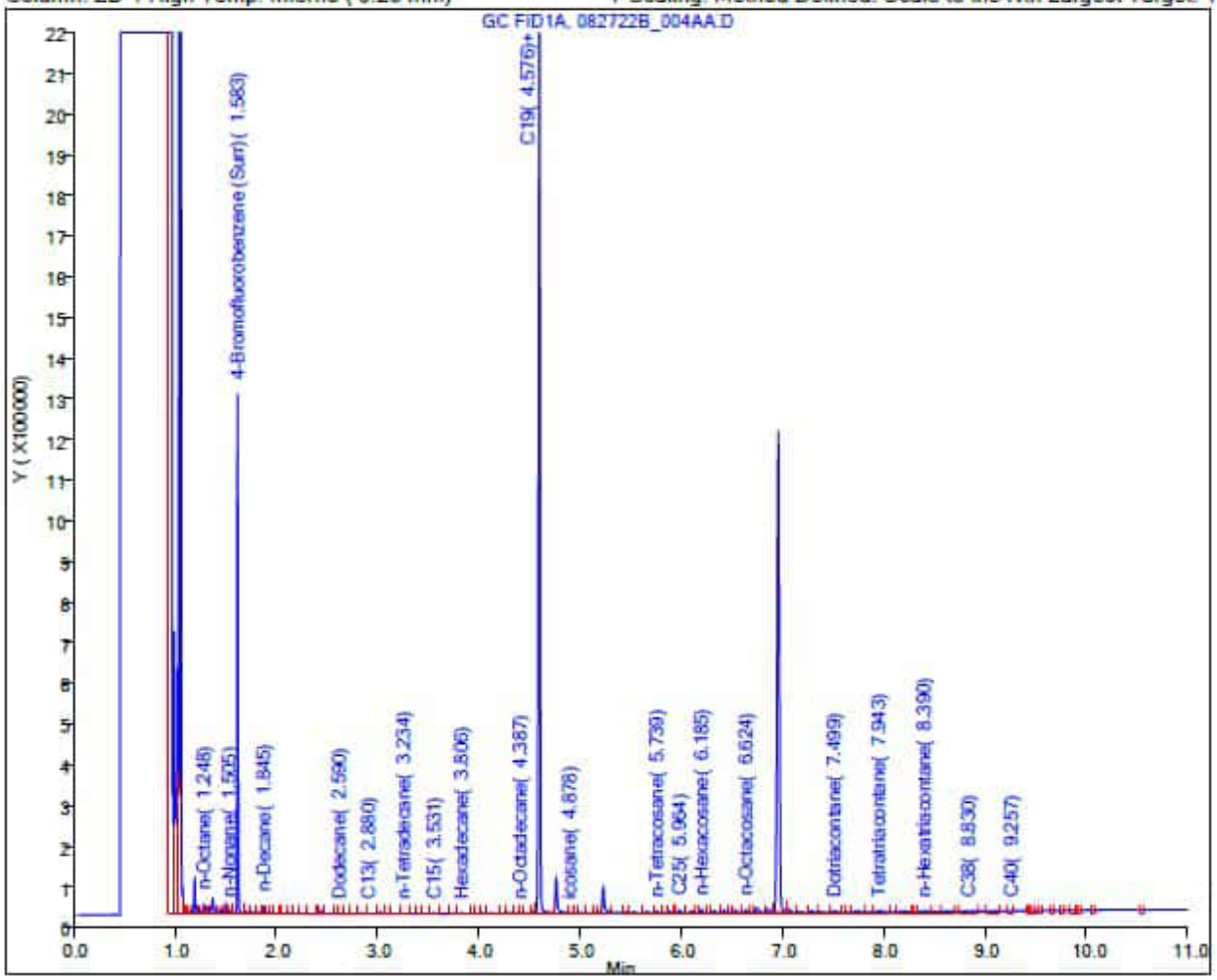
Sample Date: 8/17/22

Lab: Eurofins Seattle

Report Date: 29-Aug-2022 14:33:35 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220826-84528.b\082722B_004AA.D
Injection Date: 26-Aug-2022 23:43:30 Instrument ID: TAC020
Lims ID: MB 580-401965/1-A
Client ID:
Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 53
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119804-2

Sample ID: OWDFMW01-WGN02LF-2210WK5, RHMW11-05-WGN02G-2210WK5, RHMW13-05-WGN02G-2210WK5

Sample Date: 11/4/22

Lab: Eurofins Seattle

Report Date: 17-Nov-2022 11:55:17 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221116-85834.b\1116z22A057.D

Injection Date: 17-Nov-2022 06:43:54 Instrument ID: TAC129_R

Lims ID: MB 580-409650/1-C

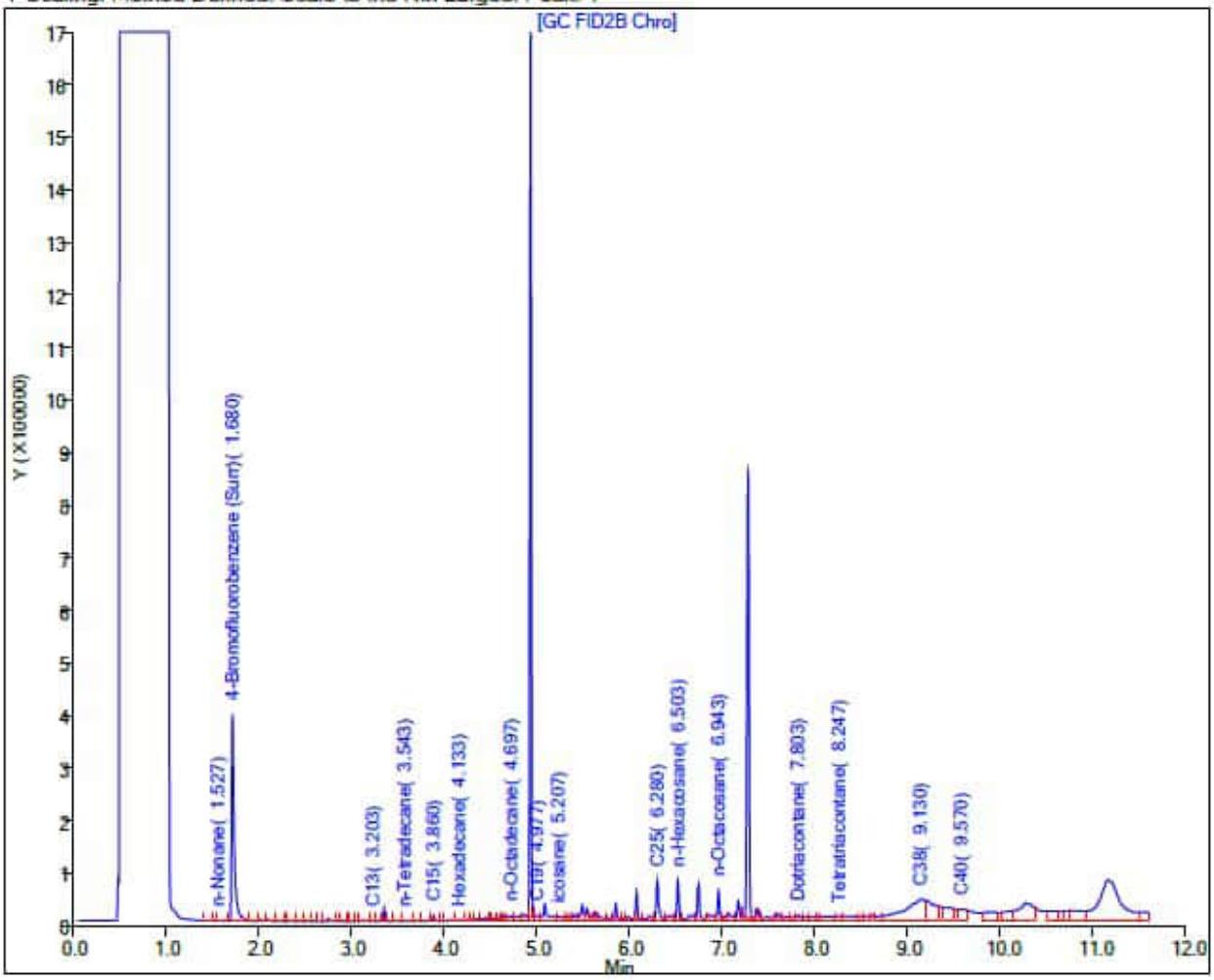
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 58

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-116749-1

Sample ID: OWDFMW04A-WGFD01LF-2208WK2, OWDFMW04A-WGN01LF-2208WK2, OWDFMW05A-WGN01LF-2208WK2, RHMW09-WGN01B-2208WK2, RHMW19-WGN01B-2208WK2

Sample Date: 8/8/22

Lab: Eurofins Seattle

Report Date: 18-Aug-2022 20:54:34 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220818-84373.b\081822B_017A.D

Injection Date: 18-Aug-2022 19:17:30 Instrument ID: TAC020

Lims ID: MB 580-400546/1-B

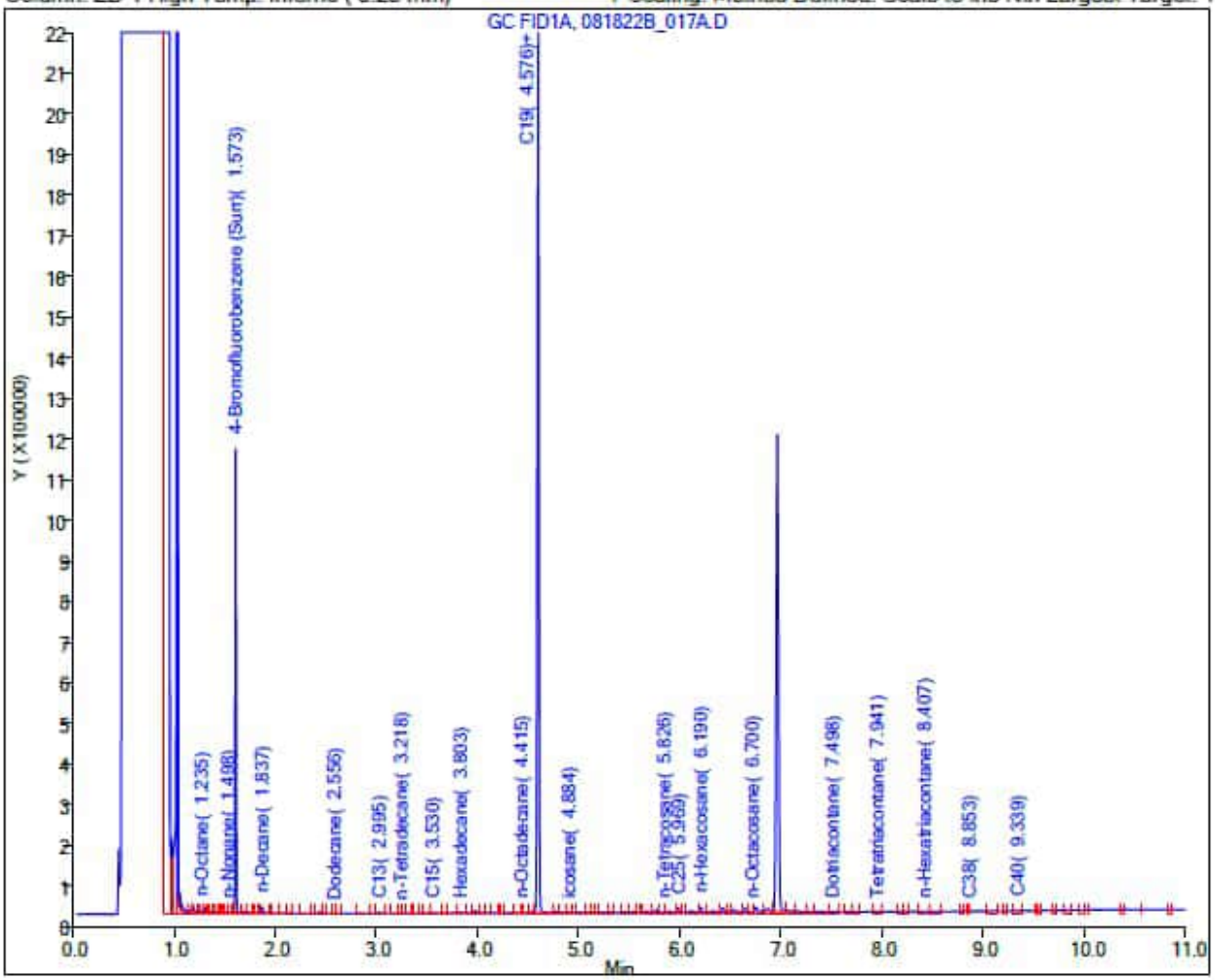
Client ID:

Operator ID: DH ALS Bottle#: 17 Worklist Smp#: 54

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-116835-1

Sample ID: RHMW01R-WGN01B-2208WK2, RHMW03-WGN01B-2208WK2

Sample Date: 8/9/22

Lab: Eurofins Seattle

Report Date: 22-Aug-2022 20:40:42 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220822-84439.b\082222B_006AA.D

Injection Date: 22-Aug-2022 17:46:30 Instrument ID: TAC020

Lims ID: MB 580-401359/1-A

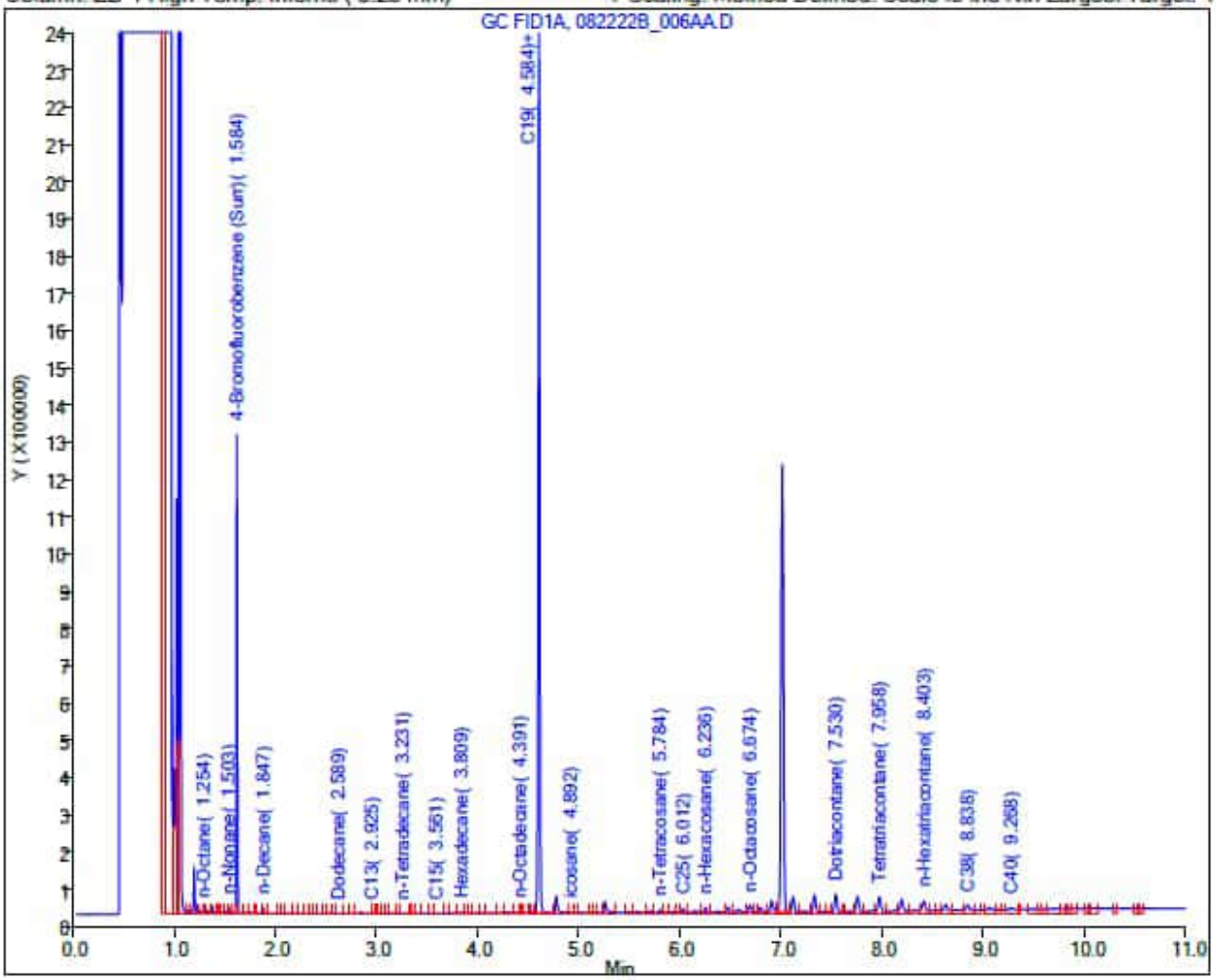
Client ID:

Operator ID: DH ALS Bottle#: 6 Worklist Smp#: 7

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117058-1

Sample ID: RHMW01R-WGN01B-2208WK3, RHMW05-WGN01B-2208WK3

Sample Date: 8/16/22

Lab: Eurofins Seattle

Report Date: 24-Aug-2022 09:25:02 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220823-84443.b\082322B_021AA.D

Injection Date: 24-Aug-2022 00:45:30 Instrument ID: TAC020

Lims ID: MB 580-401512/1-A

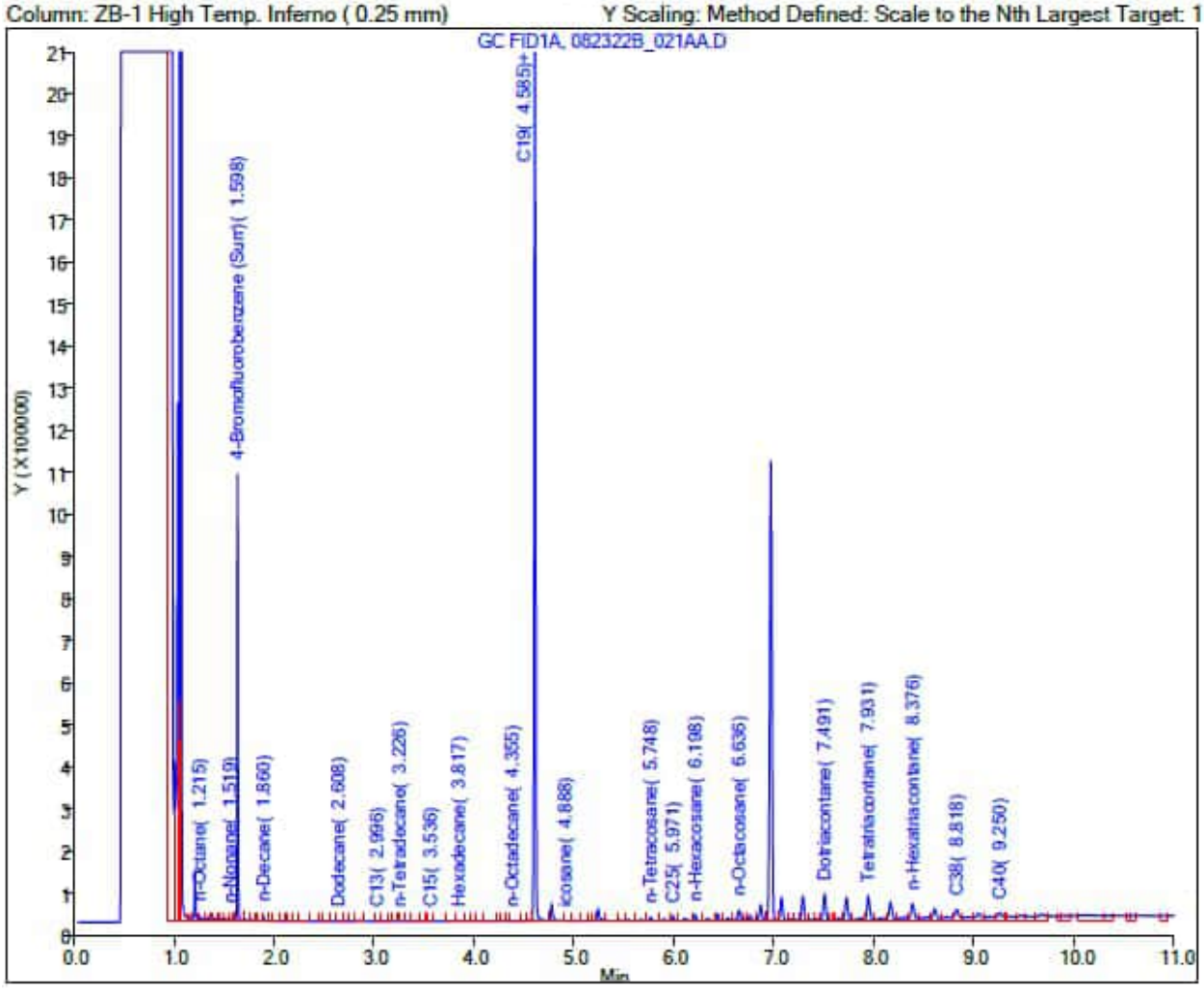
Client ID:

Operator ID: DH ALS Bottle#: 21 Worklist Smp#: 41

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117140-1

Sample ID: OWDFMW01-WGN01LF-2208WK3, RHMW13-05-WGN01G-2208WK3

Sample Date: 8/17/22, 8/28/22

Lab: Eurofins Seattle

Report Date: 25-Aug-2022 10:41:35 Chrom Revision: 2.3 08-Aug-2022 16:03:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220824-84478.b\082422B_031AA.D

Injection Date: 25-Aug-2022 06:46:30 Instrument ID: TAC020

Lims ID: MB 580-401640/1-A

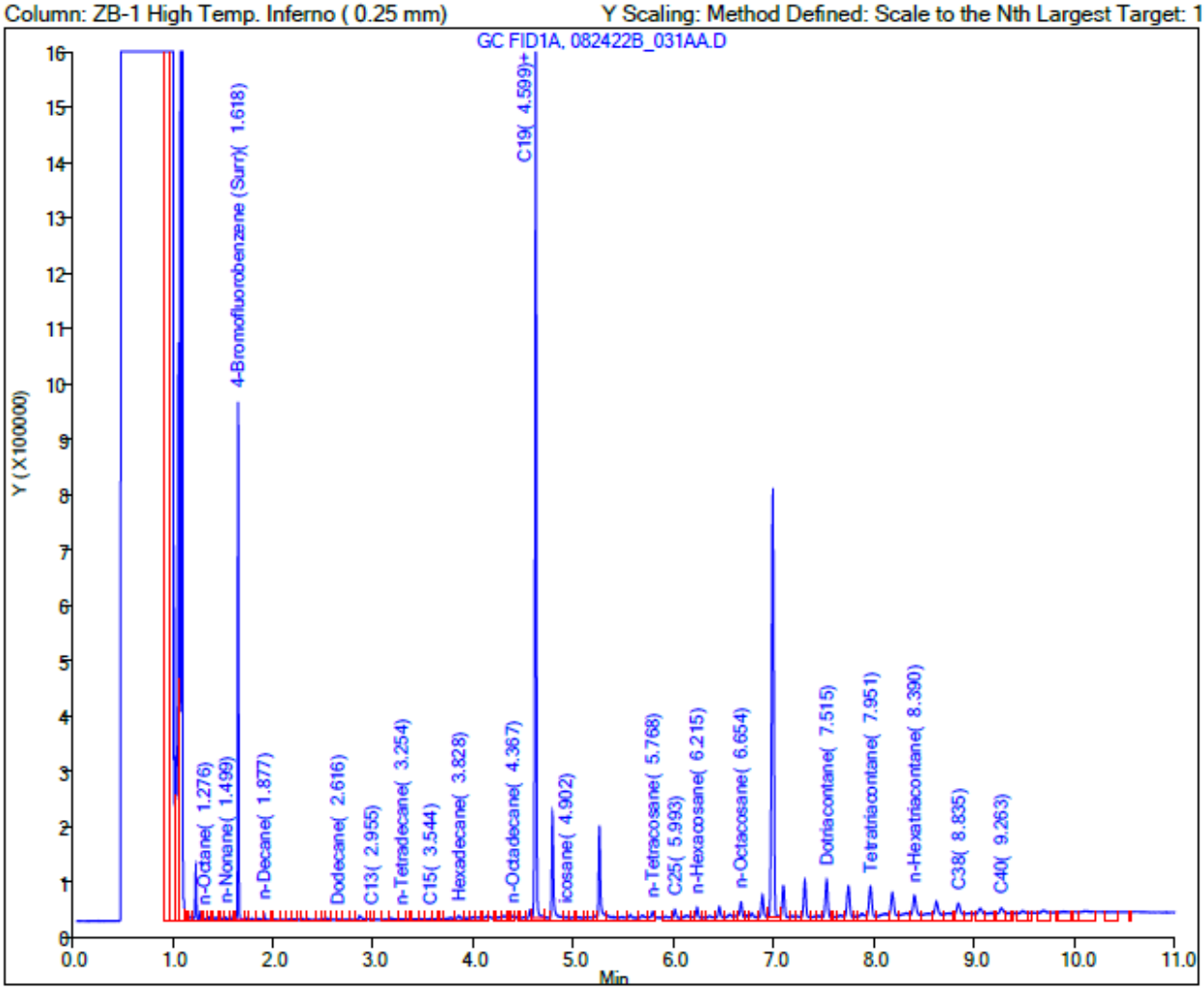
Client ID:

Operator ID: DH ALS Bottle#: 30 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117162-1

Sample ID: ADIT3-SUMP-WGN01B-2208WK3, RHMW2254-01-WGN01LF-2208WK3

Sample Date: 8/18/22

Lab: Eurofins Seattle

Report Date: 28-Aug-2022 22:42:24 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220826-84521.b\0825A22B_034AA.D

Injection Date: 26-Aug-2022 11:04:30 Instrument ID: TAC020

Lims ID: MB 580-401818/1-A

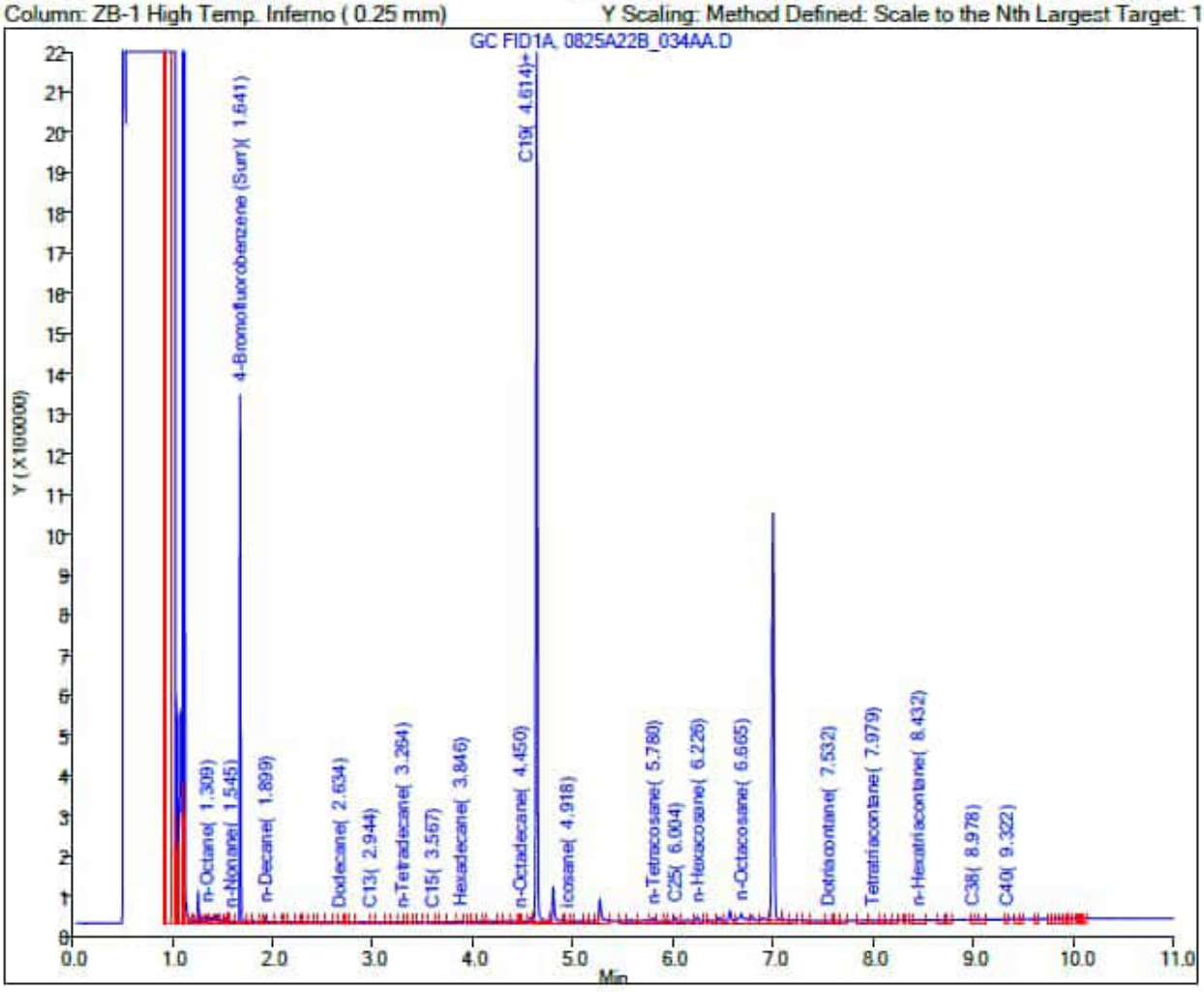
Client ID:

Operator ID: DH ALS Bottle#: 33 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117283-1

Sample ID: OWDFMW08A-WGFD01LF-2208WK4, OWDFMW08A-WGN01LF-2208WK4, RHMW02-WGN01B-2208WK4

Sample Date: 8/23/22

Lab: Eurofins Seattle

Report Date: 31-Aug-2022 14:58:00 Chrom Revision: 2.3 25-Aug-2022 20:53:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220830-84577.b\083022B_055AA.D

Injection Date: 31-Aug-2022 14:07:30 Instrument ID: TAC020

Lims ID: MB 580-402293/1-A

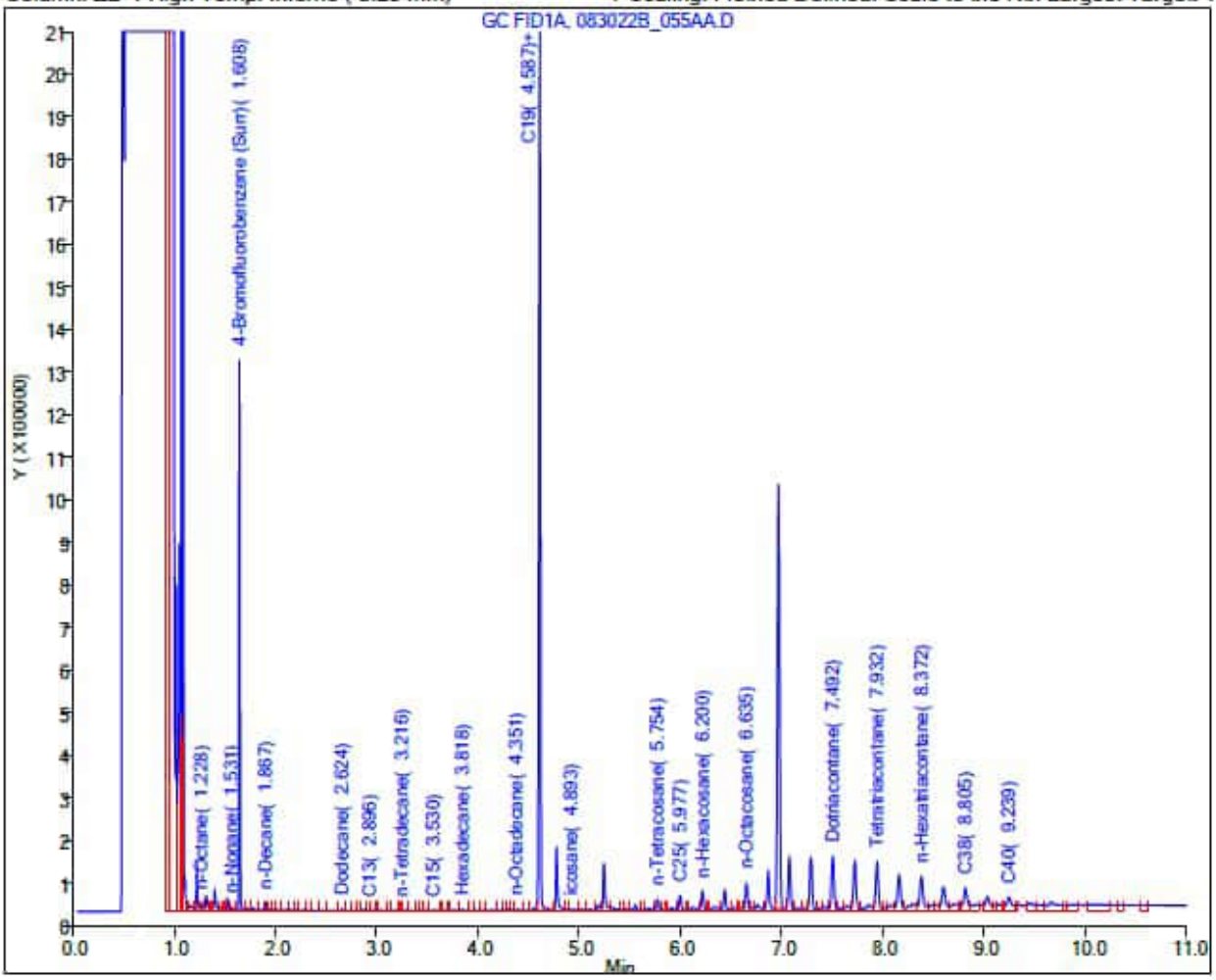
Client ID:

Operator ID: DH ALS Bottle#: 54 Worklist Smp#: 113

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117295-1

Sample ID: OWDFMW01-WGN01LF-2208WK4, RHMW04-WGFD01B-2208WK4, RHMW04-WGN01B-2208WK4, RHMW06-WGN01B-2208WK4, RHMW08-WGN01B-2208WK4, RHMW13-05-WGN01G-2208WK4, RHMW17-WGN01B-2208WK4

Sample Date: 8/24/22

Lab: Eurofins Seattle

Report Date: 01-Sep-2022 14:03:49 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220831-84605.b\0831ICAL22B_016AA.D

Injection Date: 01-Sep-2022 04:25:30 Instrument ID: TAC020

Lims ID: MB 580-402500/1-A

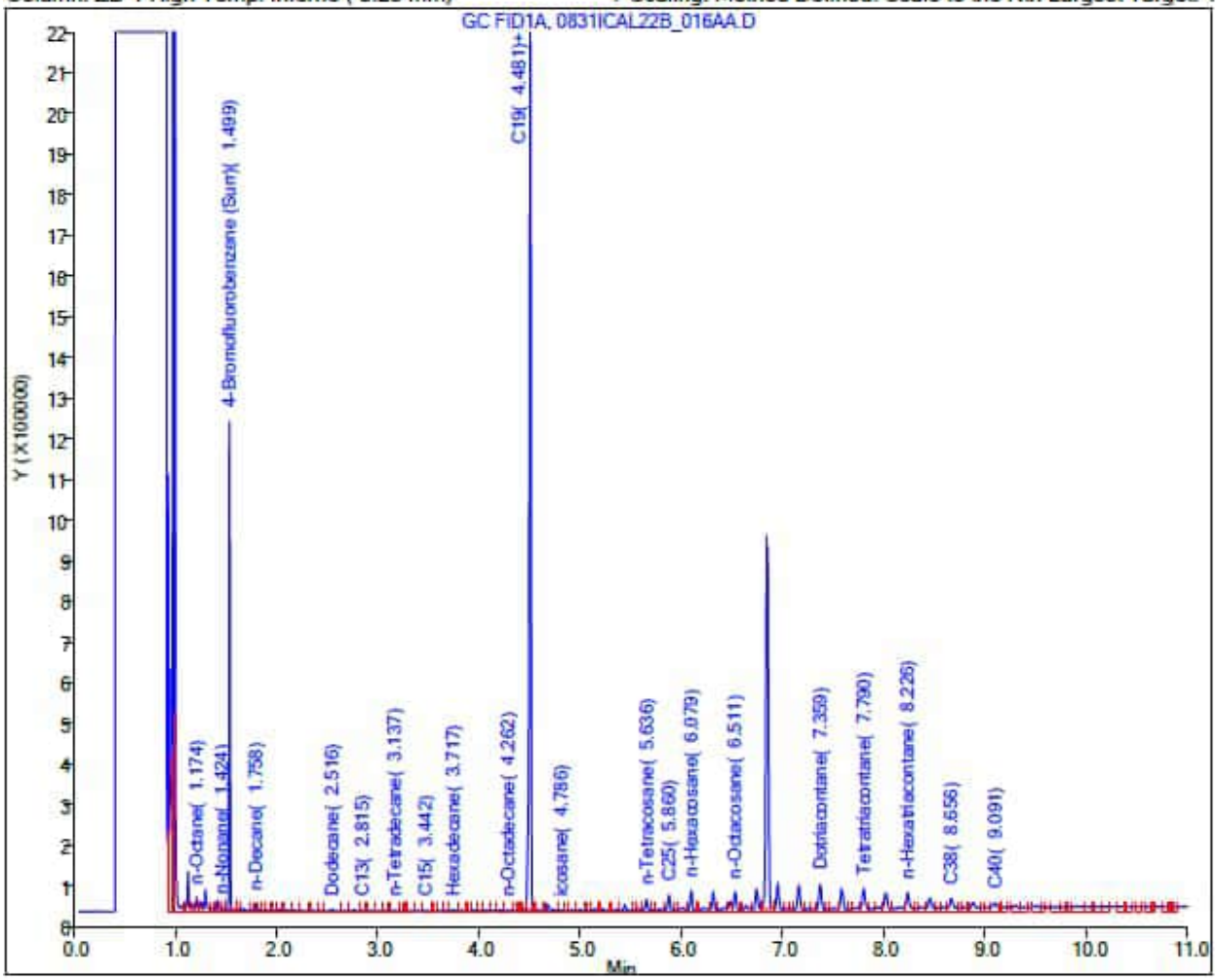
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 15

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117347-1

Sample ID: ADIT3-SUMP-WGN01B-2208WK4, RHMW12A-WGN01LF-2208WK4, RHMW16-WGN01LF-2208WK4, RHMW2254-01-WGN01B-2208WK4, RHMW2254-01-WGN01LF-2208WK4

Sample Date: 8/25/22

Lab: Eurofins Seattle

Report Date: 06-Sep-2022 21:39:02 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220905-84660.b\090522B_061.D

Injection Date: 06-Sep-2022 21:01:30 Instrument ID: TAC020

Lims ID: MB 580-402808/1-A

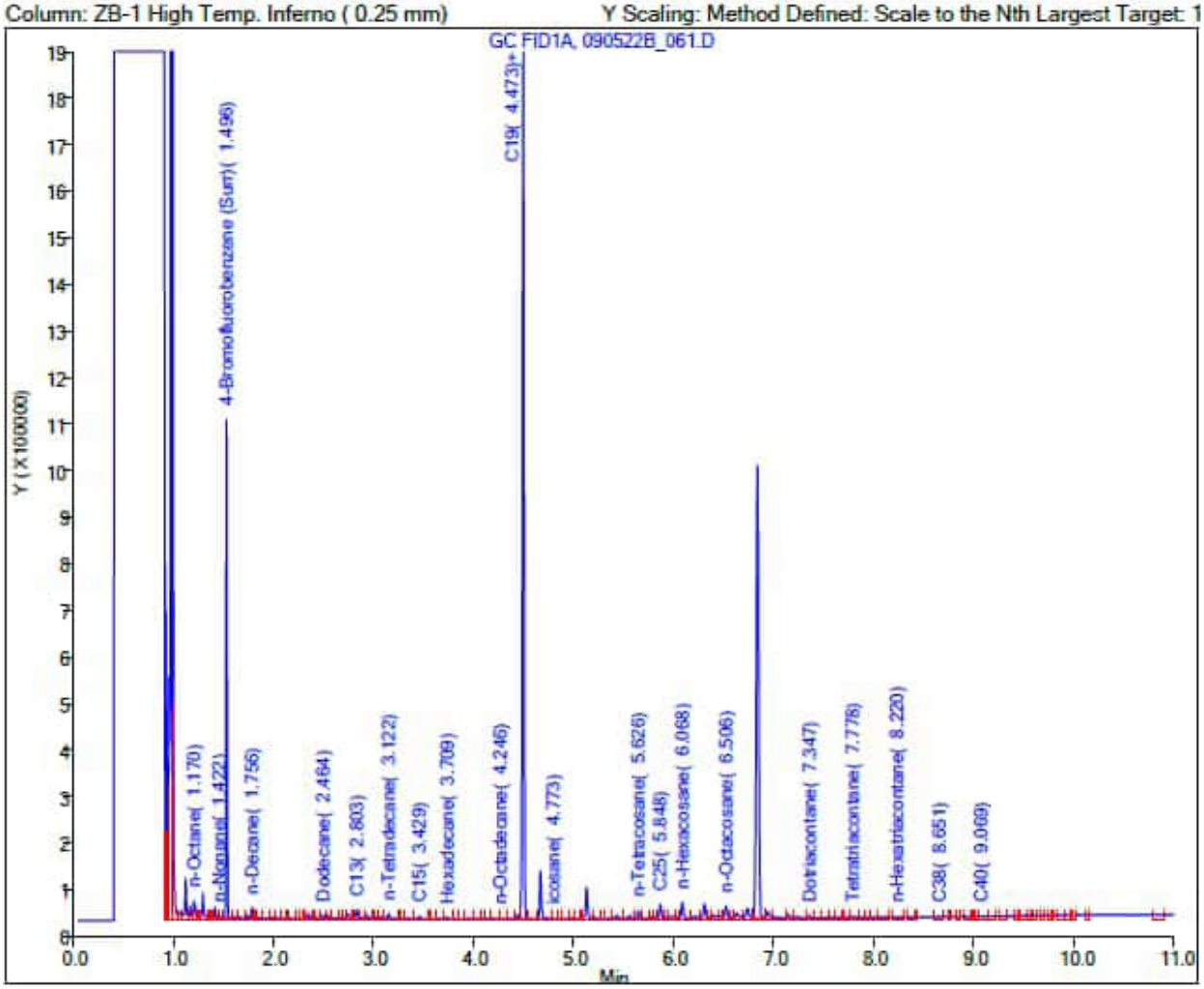
Client ID:

Operator ID: DH ALS Bottle#: 59 Worklist Smp#: 122

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117607-1

Sample ID: OWDFMW08A-WGFD01LF-2208WK5, OWDFMW08A-WGN01LF-2208WK5, ADIT3-SUMP-WGN01B-2208WK5

Sample Date: 8/31/22, 9/1/22

Lab: Eurofins Seattle

Report Date: 09-Sep-2022 15:12:46 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220909-84744.b\090922B_005.D

Injection Date: 09-Sep-2022 14:09:30 Instrument ID: TAC020

Lims ID: MB 580-403257/1-A

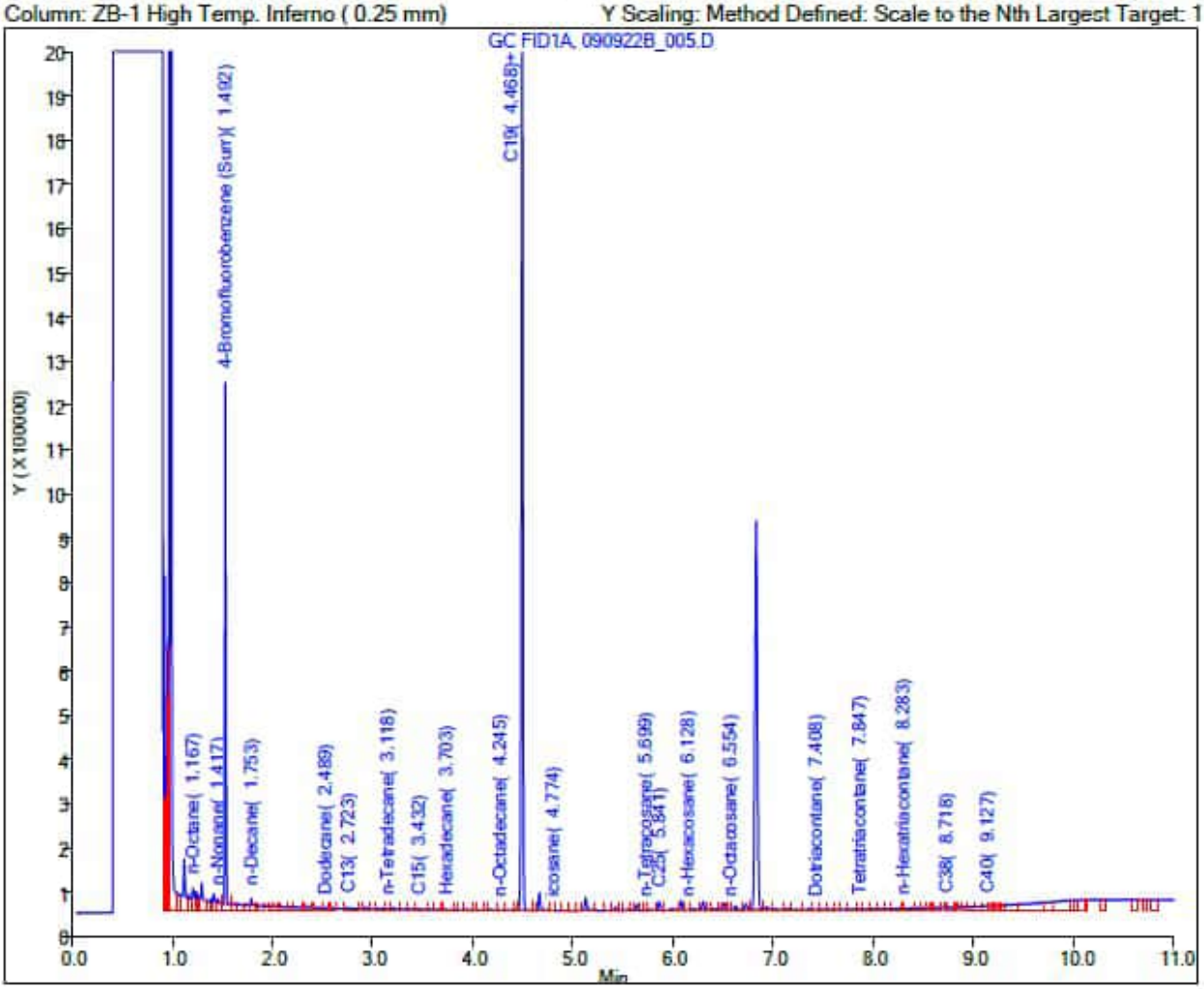
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117667-1

Sample ID: RHMW01R-WGN01B-2209WK1, RHMW02-WGN01B-2209WK1, RHMW03-WGN01B-2209WK1, RHMW05-WGN01B-2209WK1, RHMW15-05-WGN01G-2209WK1

Sample Date: 9/6/22

Lab: Eurofins Seattle

Report Date: 13-Sep-2022 12:00:33 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_015.D

Injection Date: 12-Sep-2022 22:00:30 Instrument ID: TAC020

Lims ID: MB 580-403530/1-A

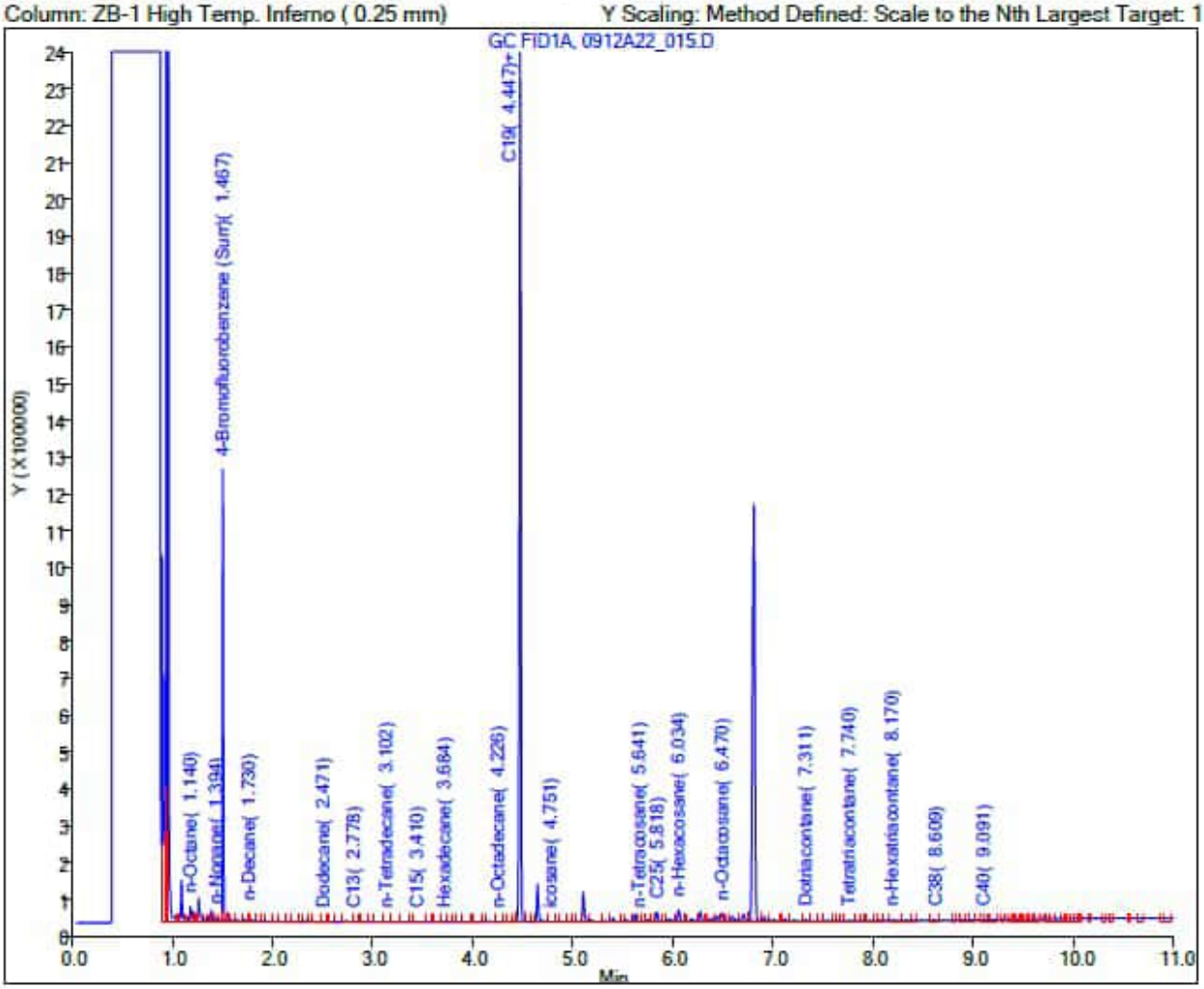
Client ID:

Operator ID: DH ALS Bottle#: 15 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117675-1

Sample ID: RHMW09-WGN01B-2209WK1, RHMW12A-WGN01LF-2209WK1, RHMW16-WGN01LF-2209WK1, RHMW19-WGN01B-2209WK1

Sample Date: 9/7/22

Lab: Eurofins Seattle

Report Date: 13-Sep-2022 22:12:27 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220913-84802.b\0913A22_005.D

Injection Date: 13-Sep-2022 20:59:30 Instrument ID: TAC020

Lims ID: MB 580-403676/1-A

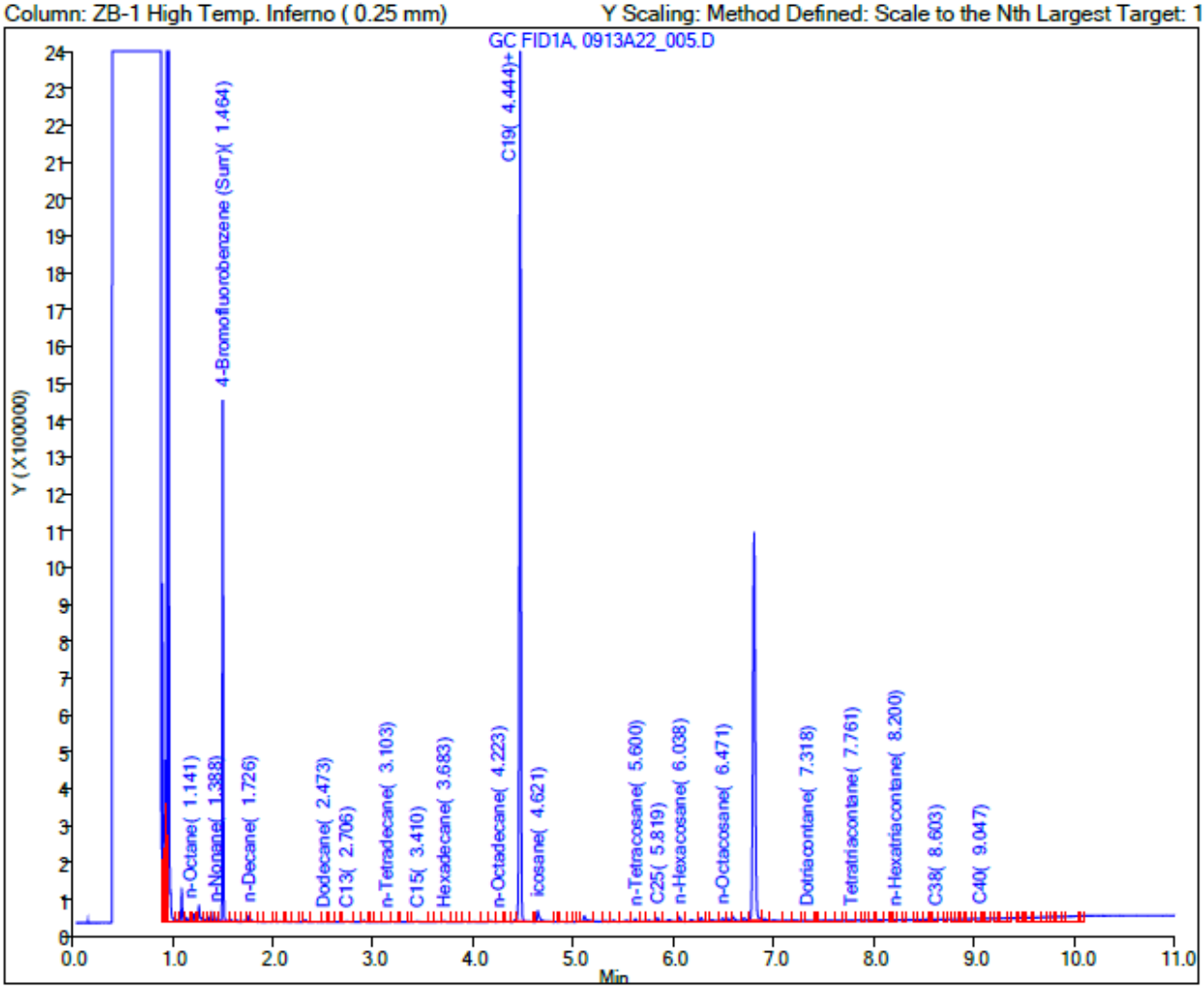
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117706-1

Sample ID: RHMW11-05-WGN01G-2209WK1, RHMW14-03-WGN01G-2209WK1, ADIT3-SUMP-WGN01B-2209WK1, RHMW2254-01-WGN01B-2209WK1, RHMW2254-01-WGN01LF-2209WK1

Sample Date: 9/8/22

Lab: Eurofins Seattle

Report Date: 13-Sep-2022 12:00:33 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220912-84780.b\0912A22_015.D

Injection Date: 12-Sep-2022 22:00:30 Instrument ID: TAC020

Lims ID: MB 580-403530/1-A

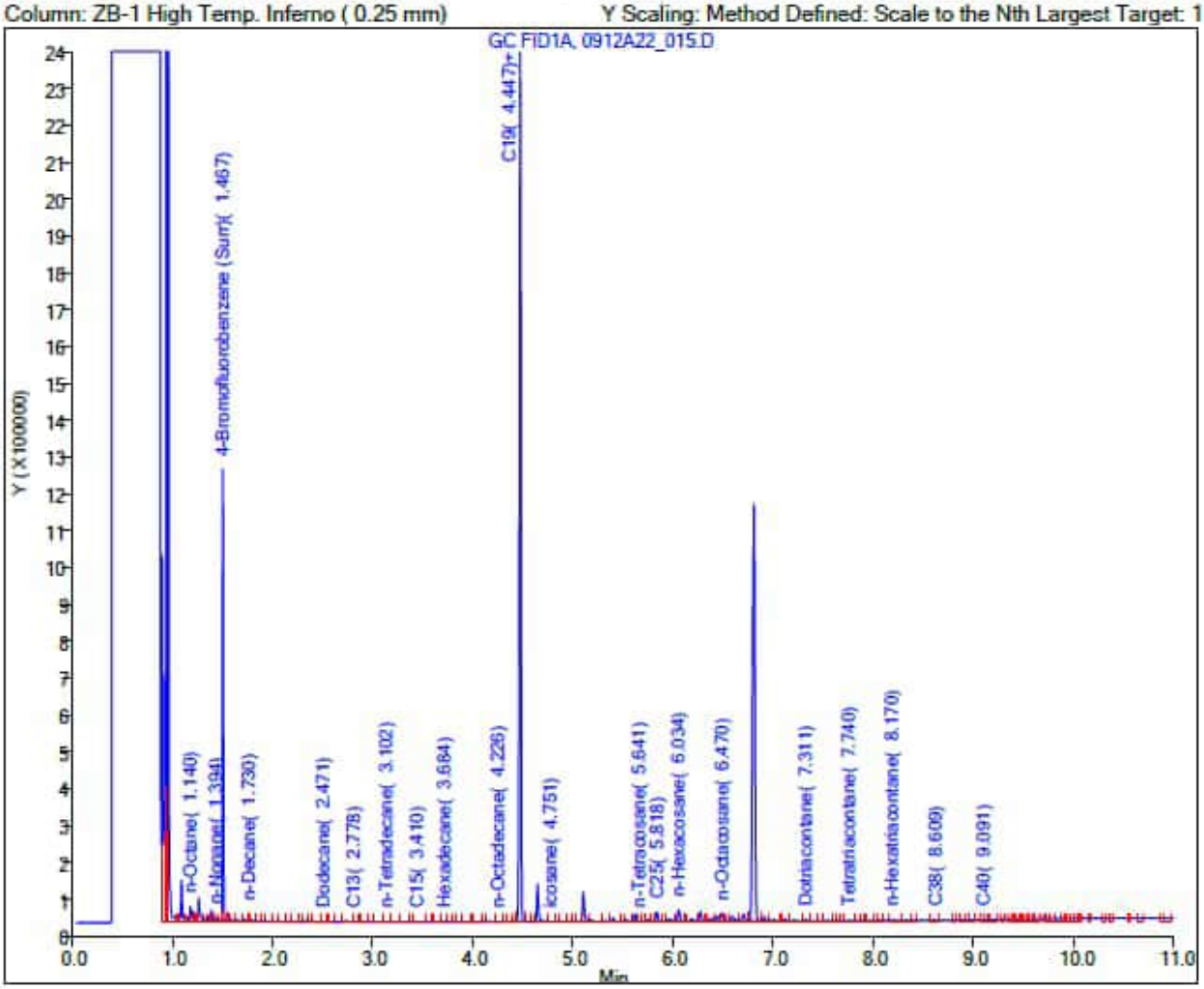
Client ID:

Operator ID: DH ALS Bottle#: 15 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117771-1

Sample ID: OWDFMW07A-WGN01LF-2209WK1, OWDFMW08A-WGFD01LF-2209WK1, OWDFMW08A-WGN01LF-2209WK1, RHMW04-WGFD01B-2209WK1, RHMW04-WGN01B-2209WK1

Sample Date: 9/8/22, 9/9/22

Lab: Eurofins Seattle

Report Date: 15-Sep-2022 14:58:19 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_100.D

Injection Date: 14-Sep-2022 20:59:30 Instrument ID: TAC020

Lims ID: MB 580-403808/1-A

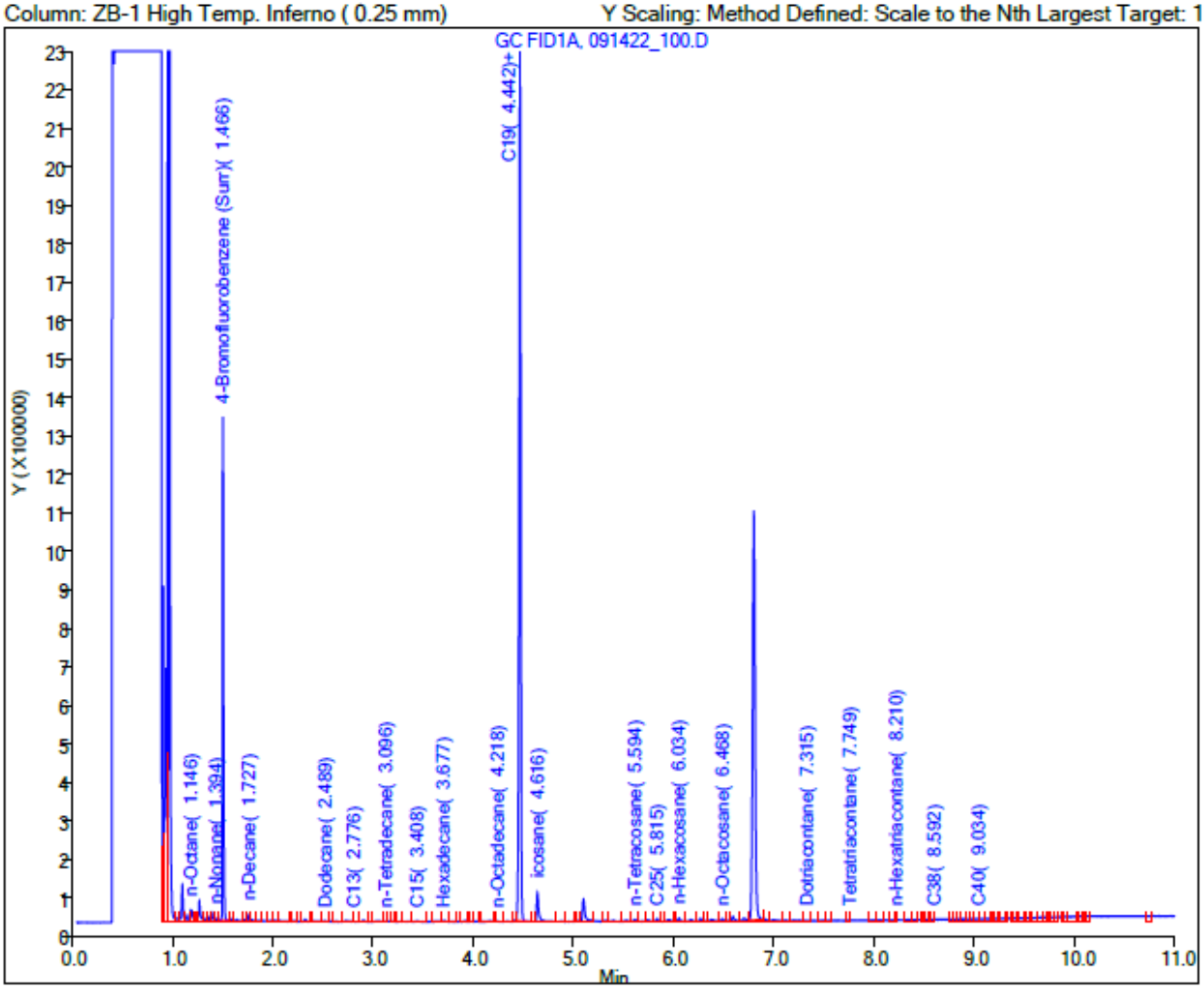
Client ID:

Operator ID: DH ALS Bottle#: 100 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117769-1

Sample ID: OWDFMW01-WGN01LF-2209WK1, RHMW06-WGN01B-2209WK1, RHMW08-WGN01B-2209WK1

Sample Date: 9/9/22

Lab: Eurofins Seattle

Report Date: 15-Sep-2022 14:58:19 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220914-84823.b\091422_100.D

Injection Date: 14-Sep-2022 20:59:30 Instrument ID: TAC020

Lims ID: MB 580-403808/1-A

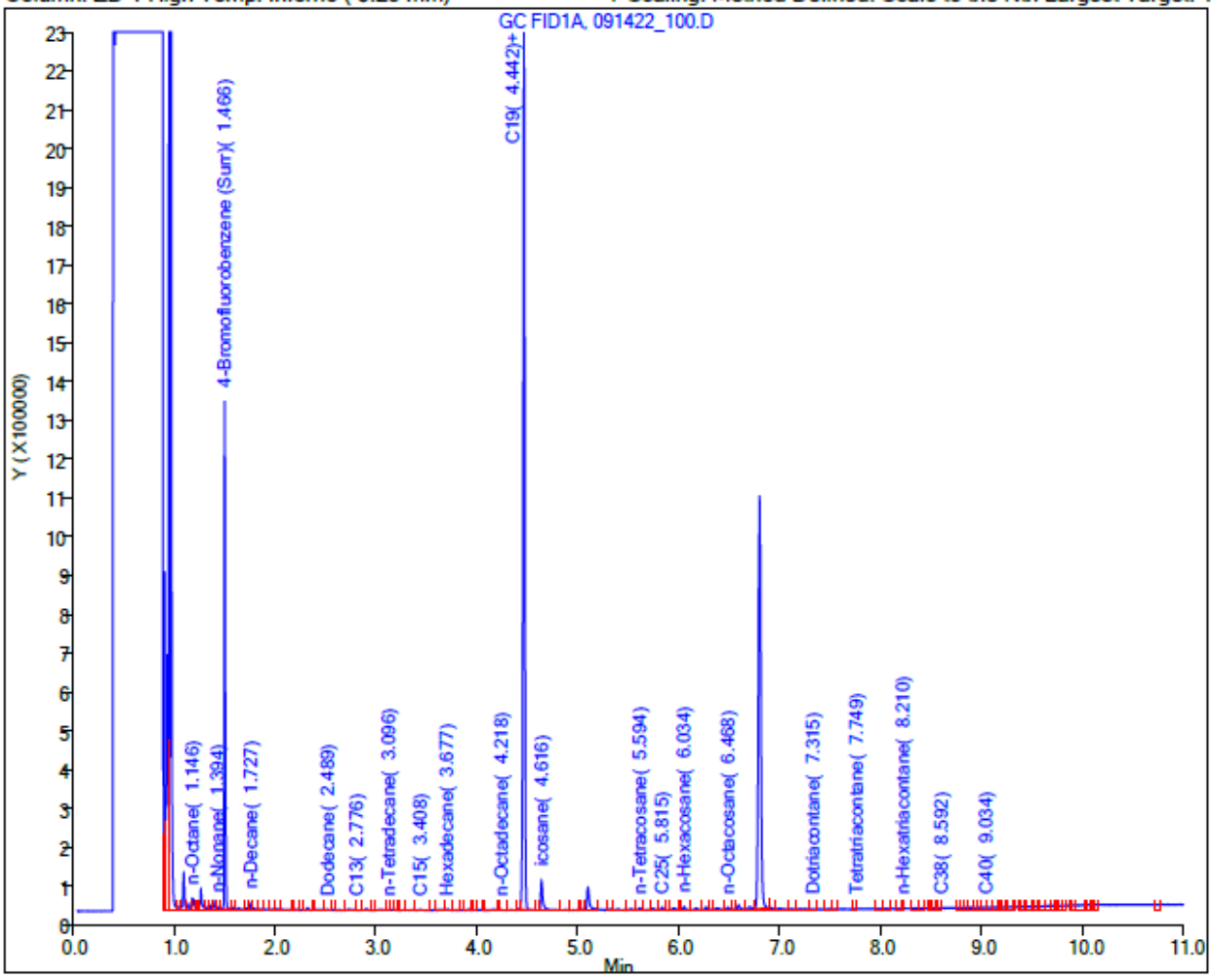
Client ID:

Operator ID: DH ALS Bottle#: 100 Worklist Smp#: 17

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117801-1

Sample ID: RHMW17-WGN01B-2209WK1, OWDFMW04A-WGFD01LF-2209WK2, OWDFMW04A-WGN01LF-2209WK2, RHMW09-WGN01B-2209WK2, RHMW19-WGN01B-2209WK2

Sample Date: 9/9/22, 9/12/22

Lab: Eurofins Seattle

Report Date: 16-Sep-2022 14:53:41 Chrom Revision: 2.3 30-Aug-2022 19:06:20

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220915-84852.b\091522_005.D

Injection Date: 15-Sep-2022 19:05:30 Instrument ID: TAC020

Lims ID: MB 580-403945/1-A

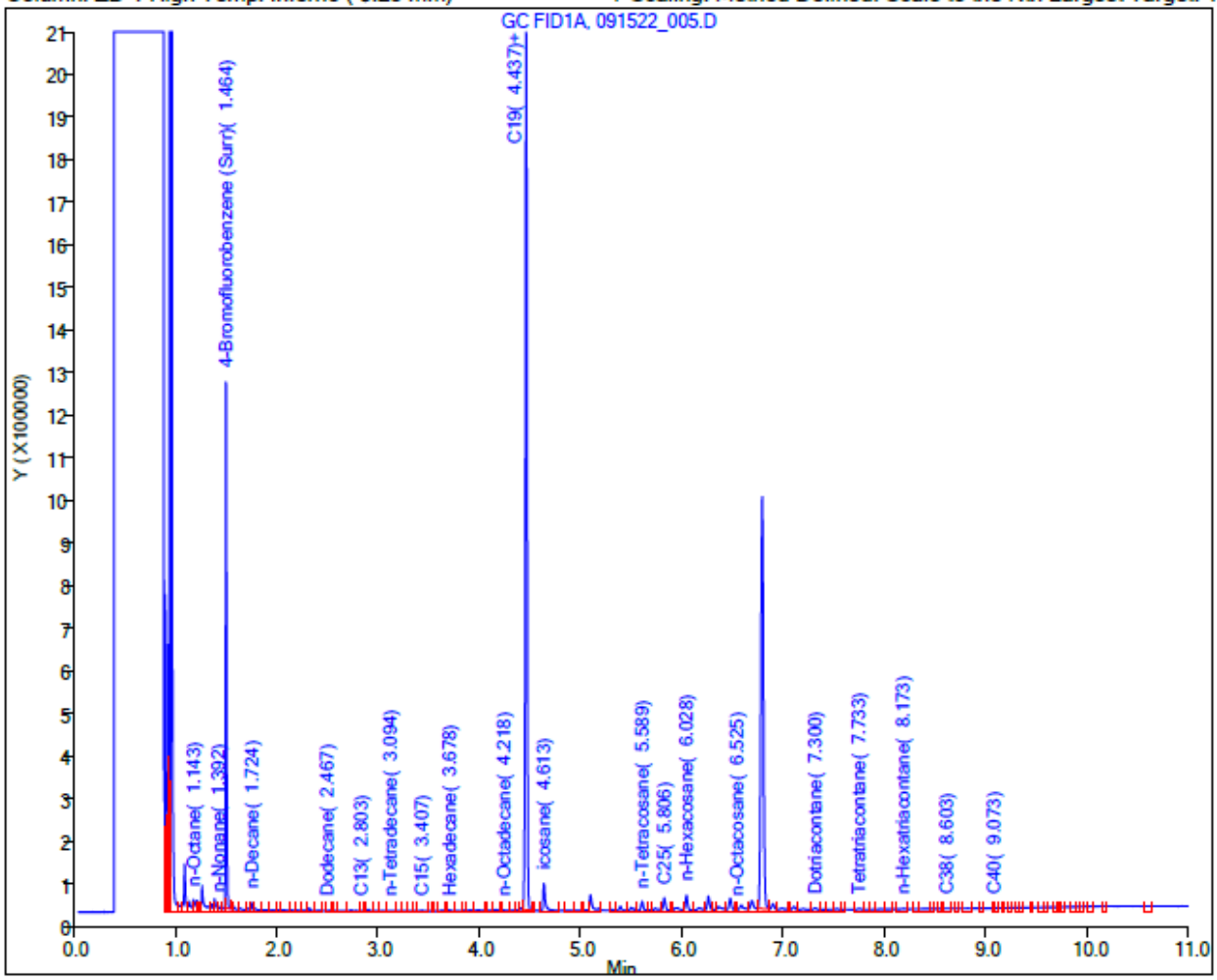
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117907-1

Sample ID: RHMW01R-WGN01B-2209WK2, RHMW03-WGN01B-2209WK2, RHMW05-WGN01B-2209WK2, RHMW11-05-WGN01G-2209WK2

Sample Date: 9/13/22

Lab: Eurofins Seattle

Report Date: 21-Sep-2022 13:07:35 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220920-84921.b\092022_005.D

Injection Date: 20-Sep-2022 19:18:30 Instrument ID: TAC020

Lims ID: MB 580-404350/1-A

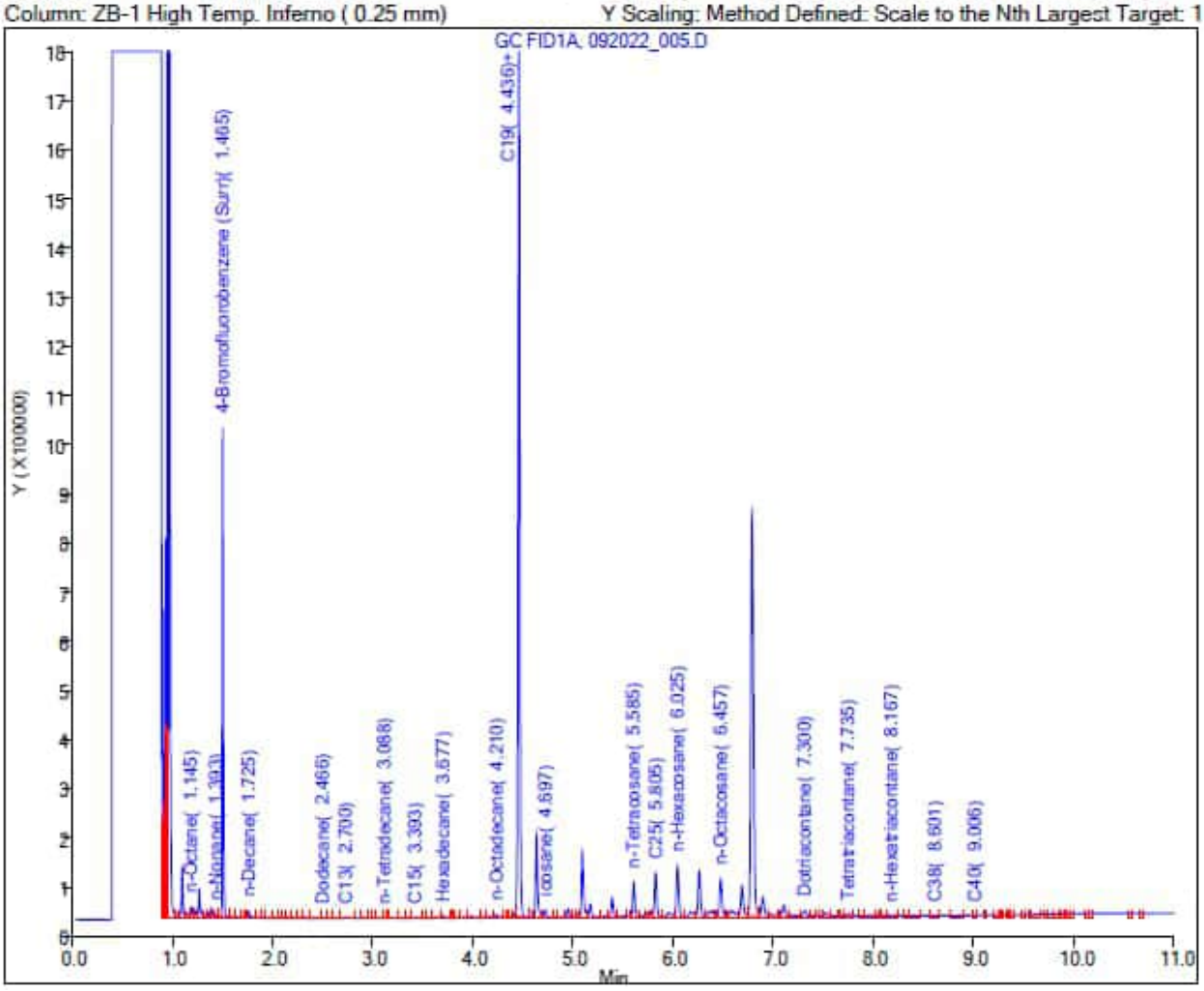
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 32

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-117880-1

Sample ID: RHMW02-WGN01B-2209WK2, RHMW12A-WGN01LF-2209WK2, RHMW14-03-WGN01G-2209WK2, RHMW16-WGN01LF-2209WK2

Sample Date: 9/13/22

Lab: Eurofins Seattle

Report Date: 20-Sep-2022 11:49:47 Chrom Revision: 2.3 15-Sep-2022 17:10:48

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220919-84893.b\0919b22_013.D

Injection Date: 19-Sep-2022 20:28:30 Instrument ID: TAC020

Lims ID: MB 580-404222/1-A

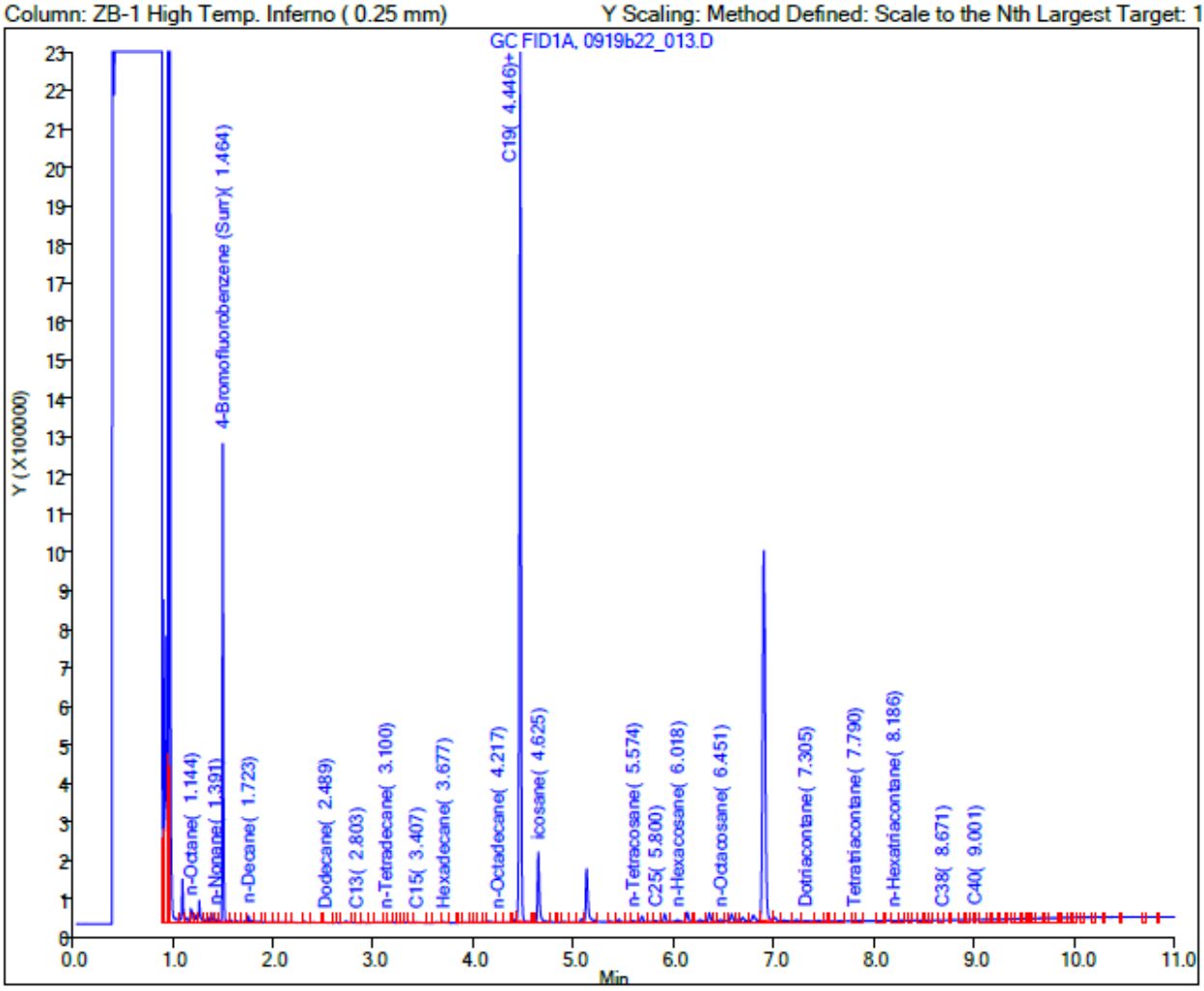
Client ID:

Operator ID: DH ALS Bottle#: 12 Worklist Smp#: 28

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-118064-1

Sample ID: RHMW15-05-WGN01G-2209WK3

Sample Date: 9/19/22

Lab: Eurofins Seattle

Report Date: 23-Sep-2022 12:22:27 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20220922-84977.b\092222_005.D

Injection Date: 22-Sep-2022 21:17:30 Instrument ID: TAC020

Lims ID: MB 580-404633/1-A

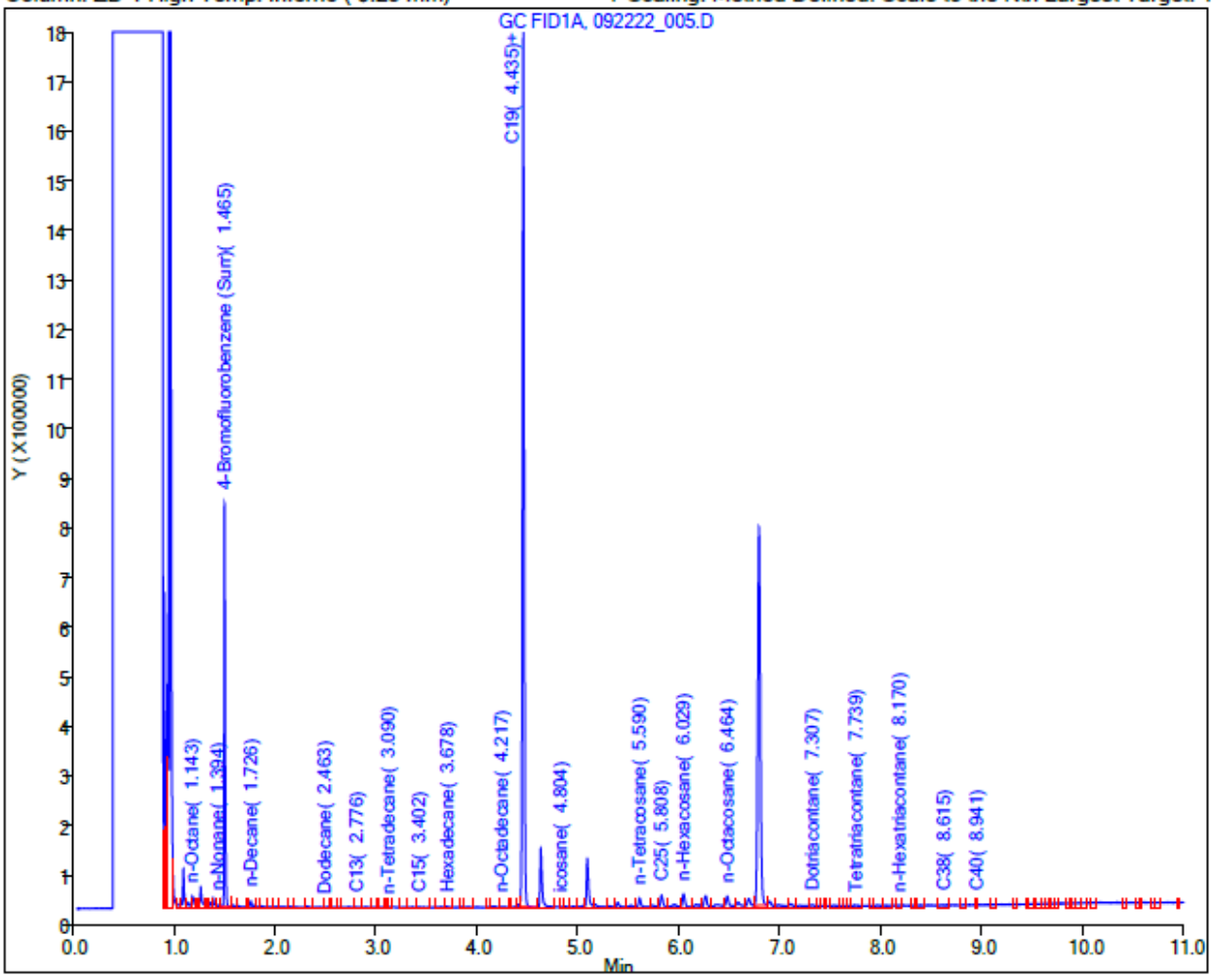
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-118158-1

Sample ID: OWDFMW07A-WGN01LF-2209WK3, RHMW01R-WGN01B-2209WK3, RHMW11-05-WGN01G-2209WK3, RHMW13-05-WGN01G-2209WK3, RHMW17-WGN01B-2209WK3

Sample Date: 9/20/22, 9/21/22

Lab: Eurofins Seattle

Report Date: 27-Sep-2022 18:26:12 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20220927-85043.b\092722A007.D

Injection Date: 27-Sep-2022 16:43:48 Instrument ID: TAC129_R

Lims ID: MB 580-404974/1-A

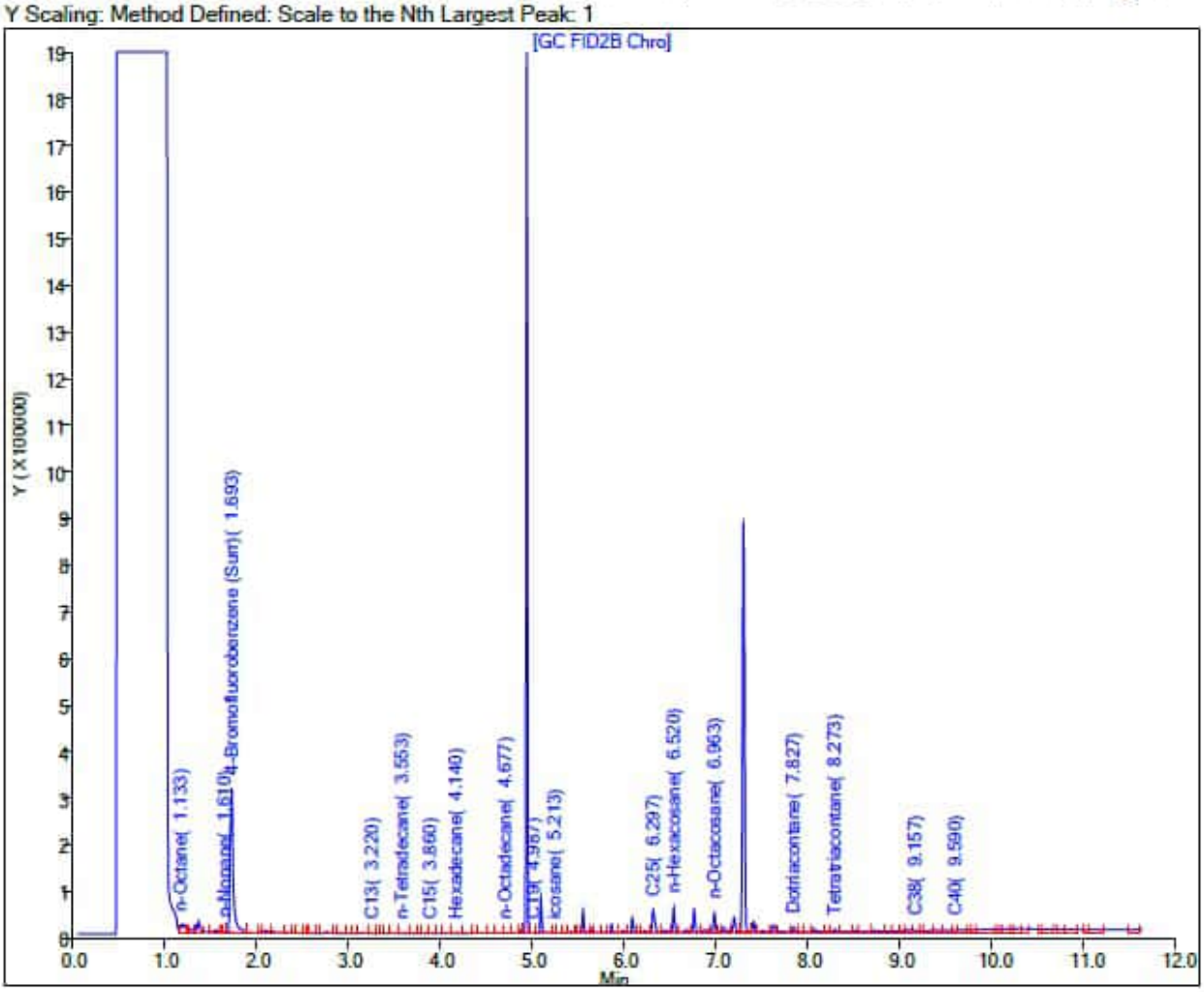
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118257-1

Sample ID: OWDFMW05A-WGN01LF-2209WK4, RHMW15-05-WGN01G-2209WK4

Sample Date: 9/26/22

Lab: Eurofins Seattle

Report Date: 30-Sep-2022 15:18:30 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20220929-85106.b\092922A008.D

Injection Date: 29-Sep-2022 20:05:37 Instrument ID: TAC129

Lims ID: MB 580-405395/1-A

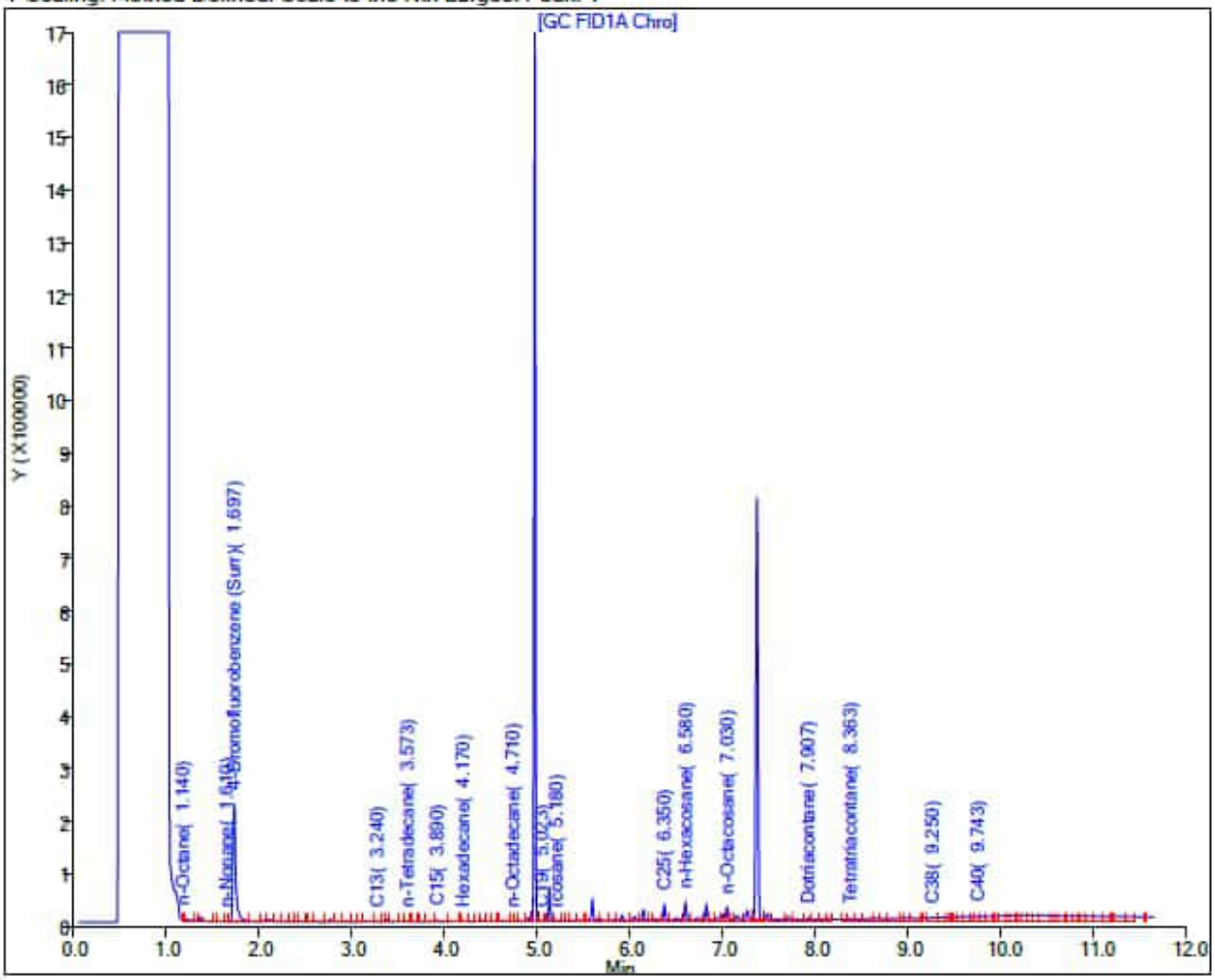
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 13

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118462-1

Sample ID: OWDFMW07A-WGN01LF-2209WK4, OWDFMW08A-WGFD01LF-2209WK4, OWDFMW08A-WGN01LF-2209WK4

Sample Date: 9/29/22

Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:37 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A022.D

Injection Date: 04-Oct-2022 21:22:36 Instrument ID: TAC129

Lims ID: MB 580-405868/1-A

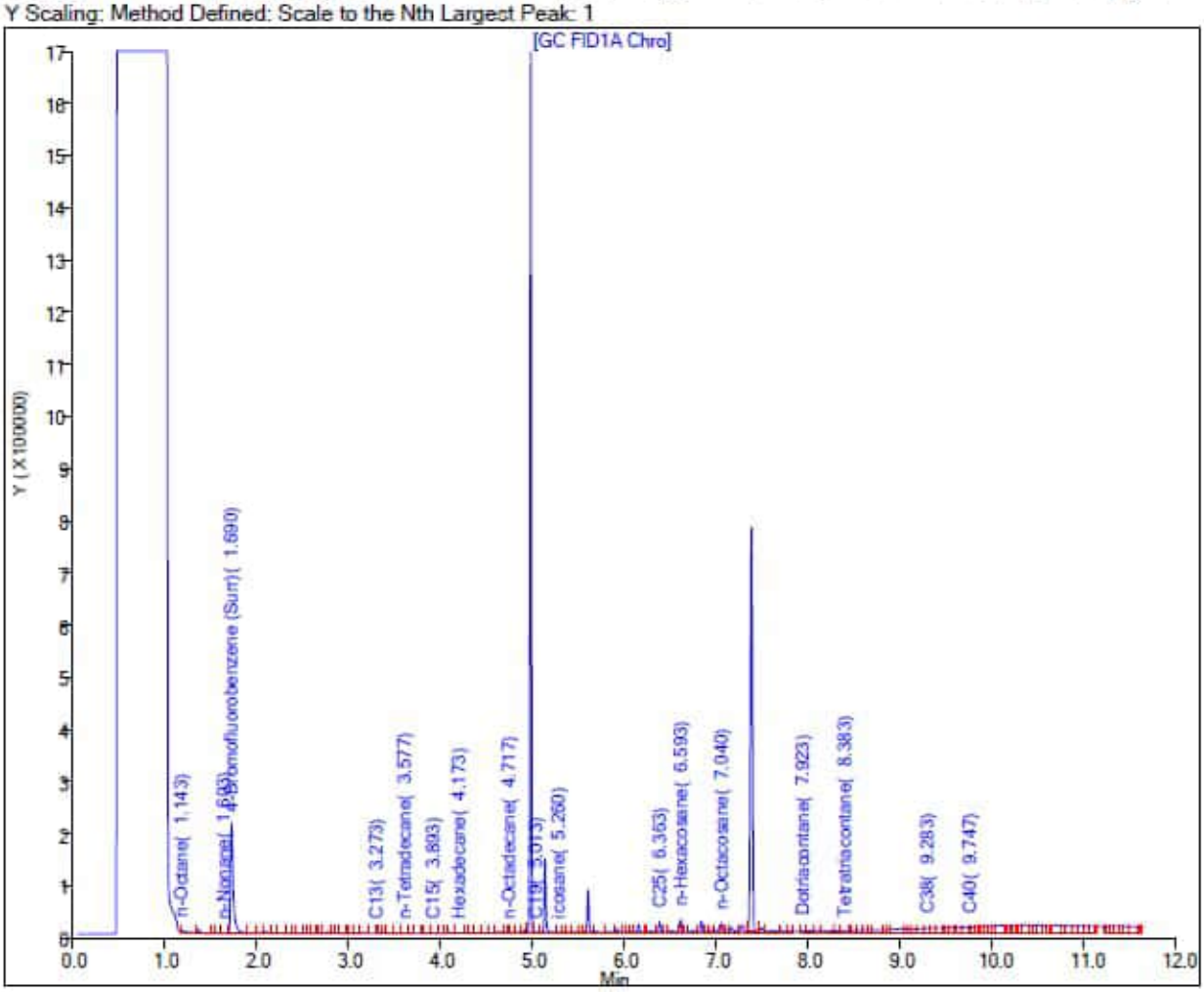
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118383-1

Sample ID: ADIT3-SUMP-WGN01B-2209WK4, RHMW2254-01-WGN01B-2209WK4, RHMW2254-01-WGN01LF-2209WK4

Sample Date: 9/29/22

Lab: Eurofins Seattle

Report Date: 05-Oct-2022 12:39:37 Chrom Revision: 2.3 22-Sep-2022 21:23:26

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221004-85179.b\1004A22A022.D

Injection Date: 04-Oct-2022 21:22:36 Instrument ID: TAC129

Lims ID: MB 580-405868/1-A

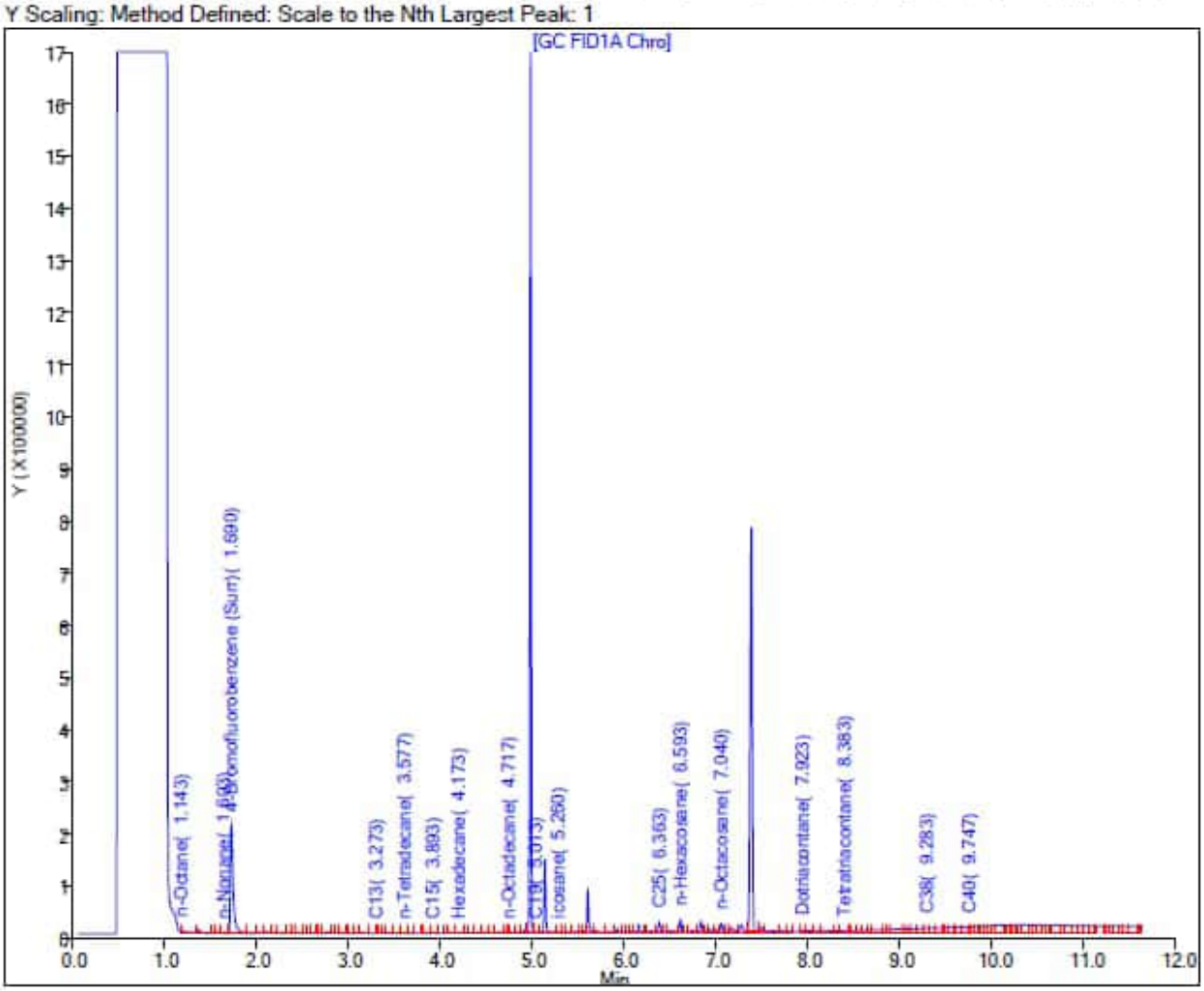
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 26

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118611-1

Sample ID: RHMW01R-WGN01B-2210WK1, RHMW03-WGN01B-2210WK1

Sample Date: 10/4/22

Lab: Eurofins Seattle

Report Date: 11-Oct-2022 13:54:21 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A008.D

Injection Date: 10-Oct-2022 18:03:22 Instrument ID: TAC129

Lims ID: MB 580-406459/1-A

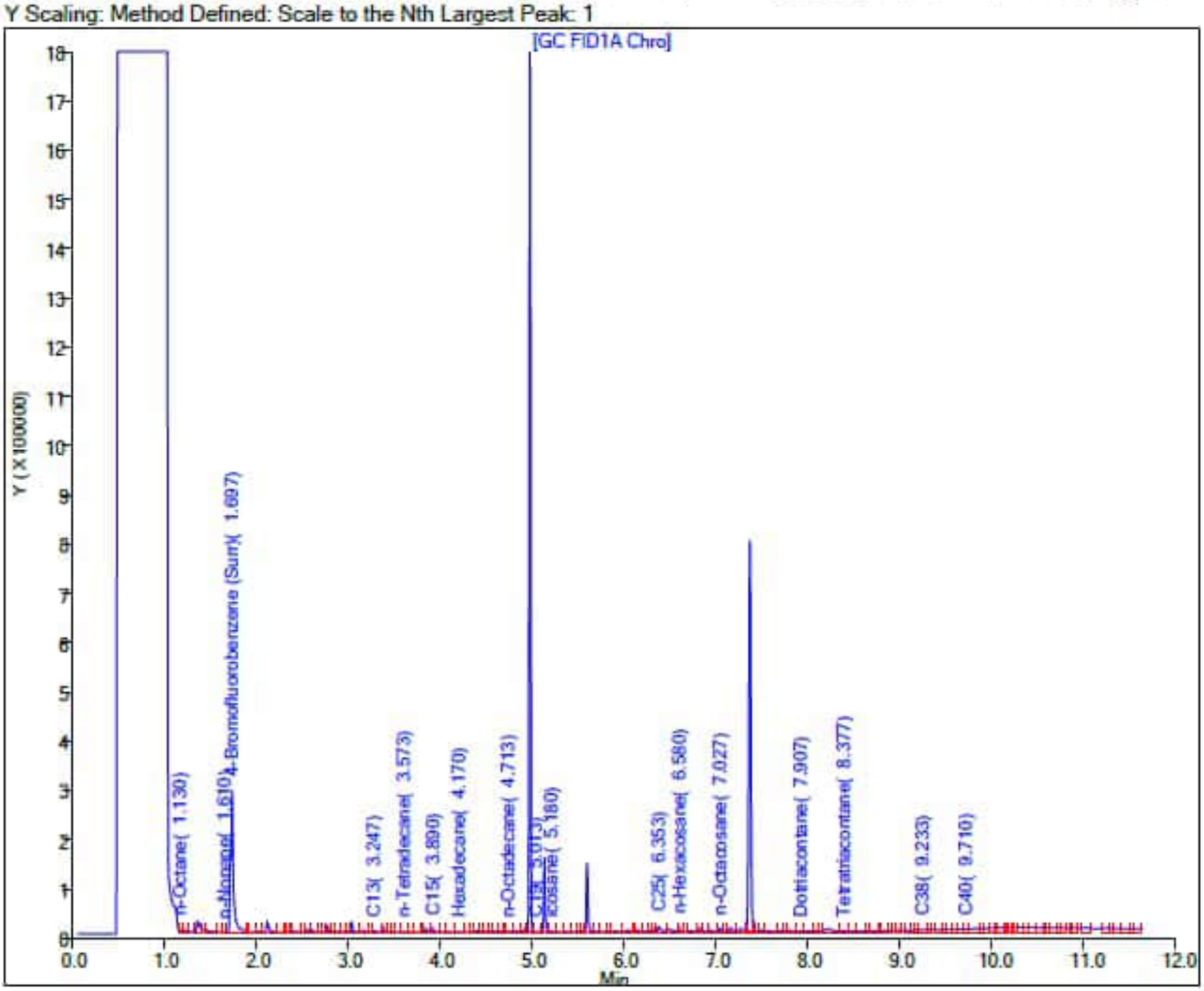
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 36

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118575-1

Sample ID: RHMW09-WGN01B-2210WK1, RHMW11-05-WGN01G-2210WK1, RHMW12A-WGN01LF-2210WK1, RHMW16-WGN01LF-2210WK1

Sample Date: 10/3/22, 10/4/22

Lab: Eurofins Seattle

Report Date: 10-Oct-2022 02:27:29 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221007-85244.b\100722A008.D

Injection Date: 07-Oct-2022 20:21:23 Instrument ID: TAC129

Lims ID: MB 580-406293/1-A

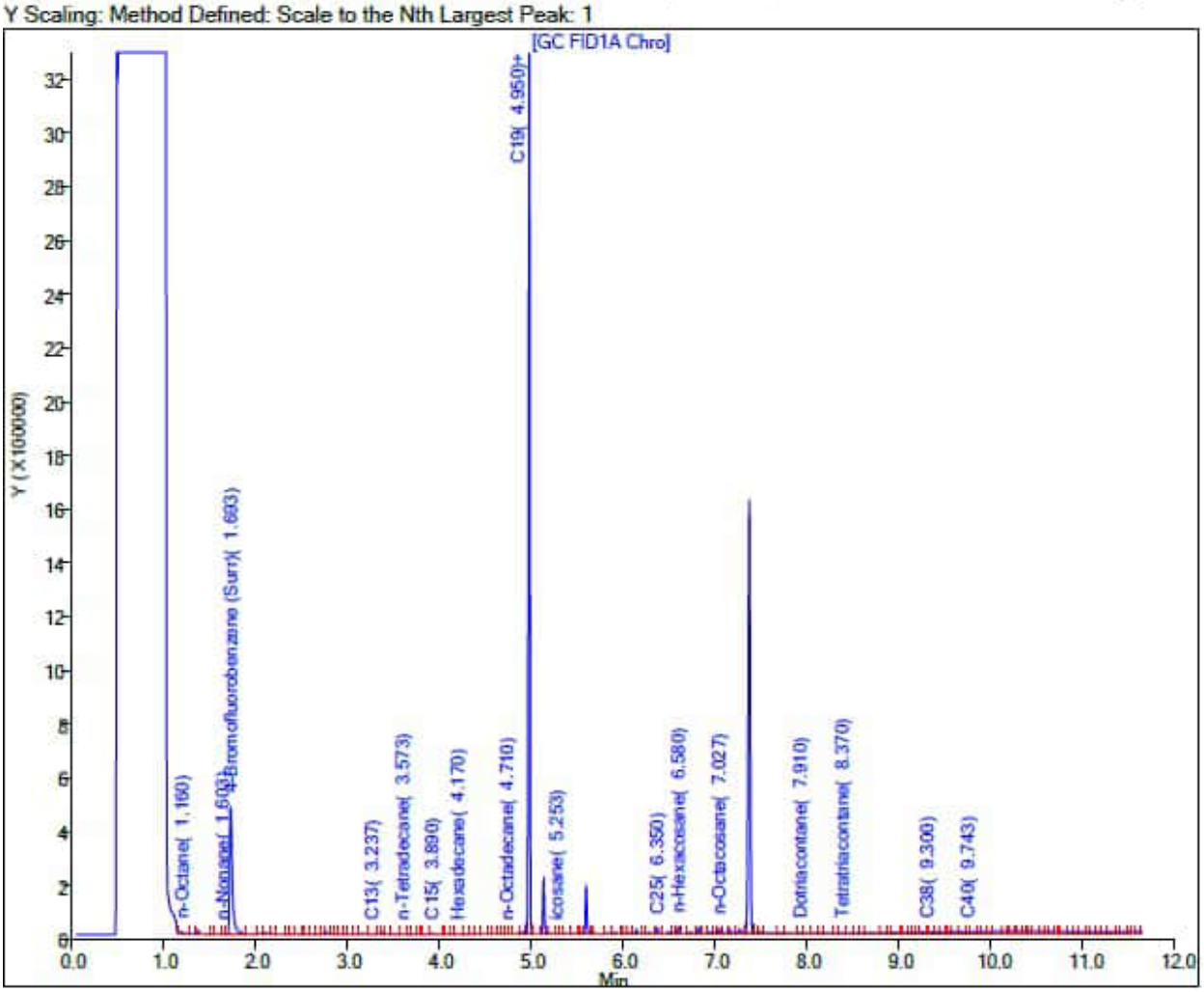
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 6

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118612-1
Sample ID: RHMW02-WGN01B-2210WK1, RHMW05-WGN01B-2210WK1, RHMW15-05-WGN01G-2210WK1, RHMW14-03-WGN01G-2210WK1

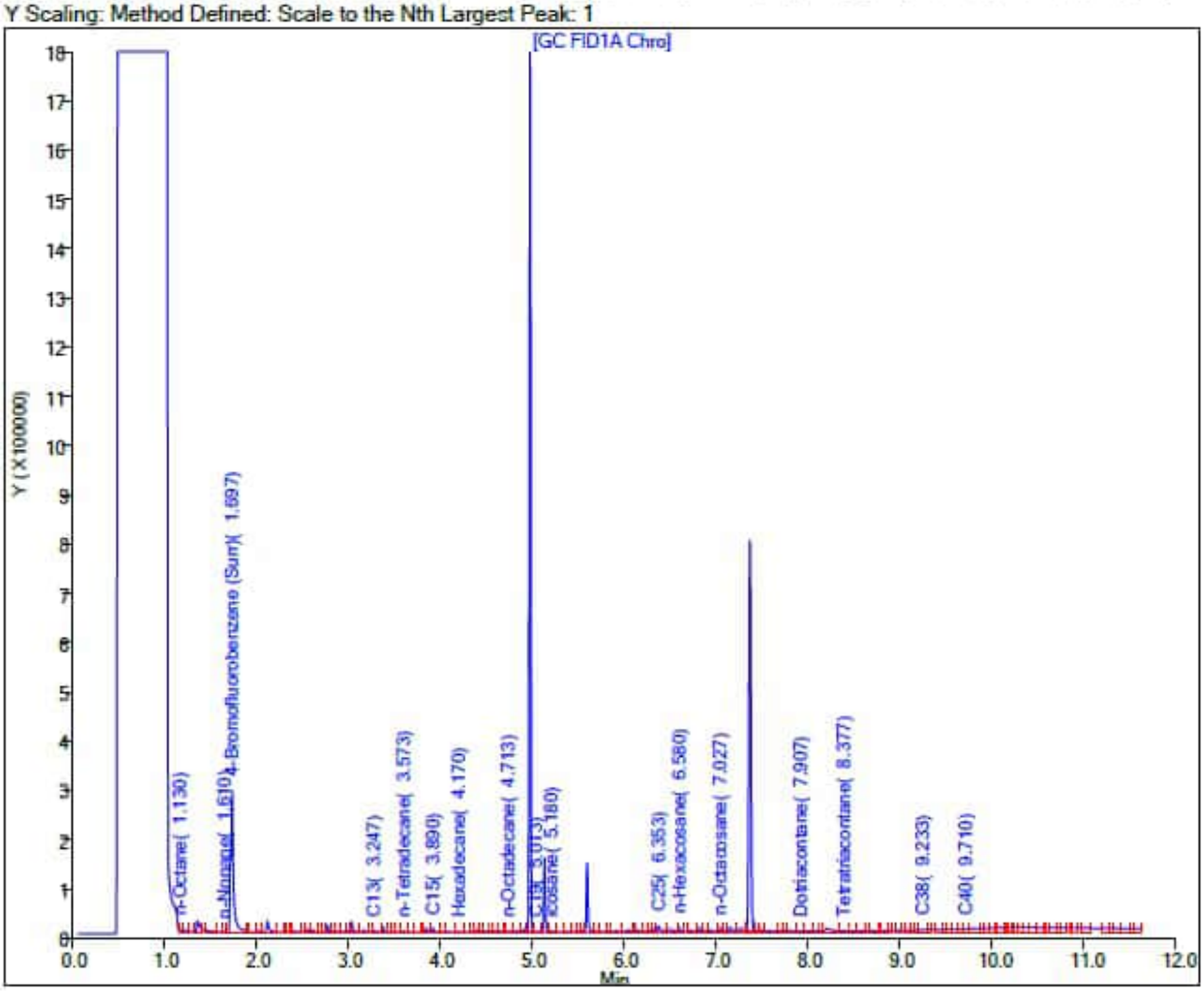
Sample Date: 10/4/22, 10/5/22

Lab: Eurofins Seattle

Report Date: 11-Oct-2022 13:54:21 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A008.D
Injection Date: 10-Oct-2022 18:03:22 Instrument ID: TAC129
Lims ID: MB 580-406459/1-A
Client ID:
Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges
Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118888-1

Sample ID: OWDFMW05A-WGN01LF-2210WK2, RHMW09-WGN01B-2210WK2, RHMW19-WGN01B-2210WK2

Sample Date: 10/14/22

Lab: Eurofins Seattle

Report Date: 19-Oct-2022 21:23:49 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_015.D

Injection Date: 19-Oct-2022 20:51:30 Instrument ID: TAC020

Lims ID: MB 580-407319/1-A

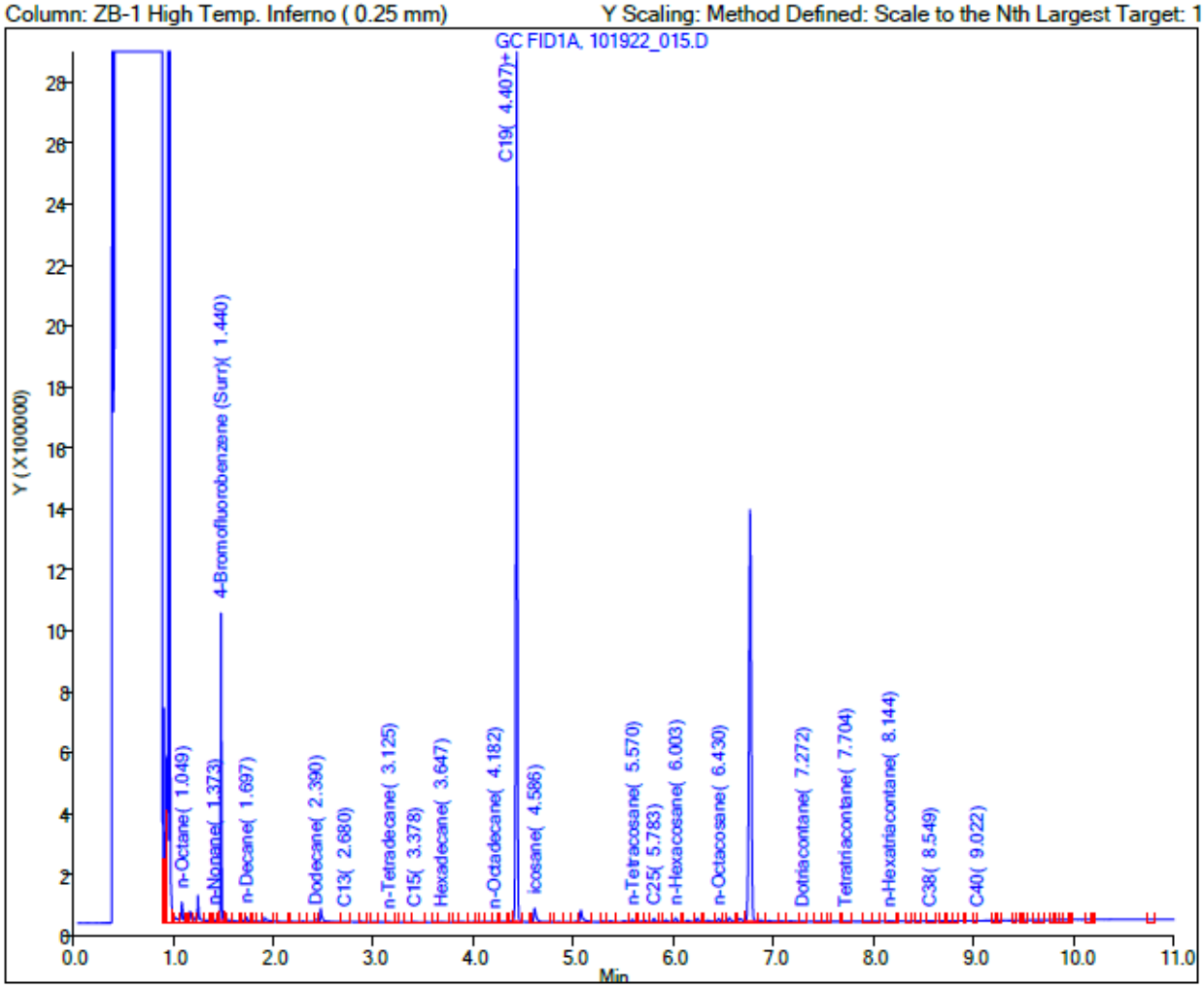
Client ID:

Operator ID: DH ALS Bottle#: 14 Worklist Smp#: 42

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-118920-1

Sample ID: RHMW01R-WGN01B-2210WK2, RHMW02-WGN01B-2210WK2, RHMW05-WGN01B-2210WK2, OWDFMW01-WGN01LF-2210WK2, OWDFMW07A-WGN01LF-2210WK2, RHMW06-WGN01B-2210WK2, RHMW17-WGN01B-2210WK2

Sample Date: 10/14/22, 10/15/22

Lab: Eurofins Seattle

Report Date: 19-Oct-2022 21:23:49 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_015.D

Injection Date: 19-Oct-2022 20:51:30 Instrument ID: TAC020

Lims ID: MB 580-407319/1-A

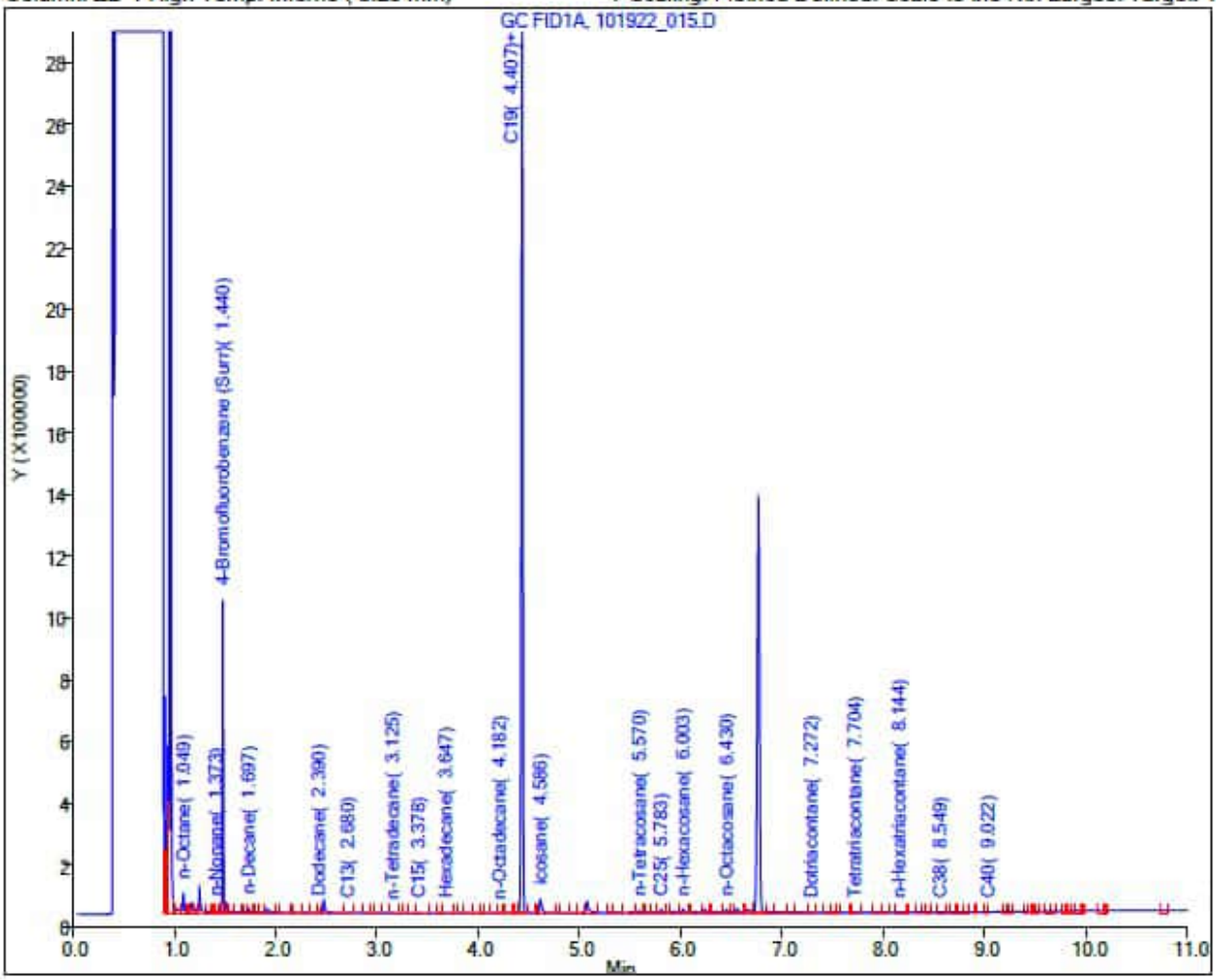
Client ID:

Operator ID: DH ALS Bottle#: 14 Worklist Smp#: 42

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-118941-1

Sample ID: OWDFMW04A-WGFD01LF-2210WK2, OWDFMW04A-WGN01LF-2210WK2, RHMW03-WGN01B-2210WK2, OWDFMW08A-WGFD01LF-2210WK2, OWDFMW08A-WGN01LF-2210WK2, RHMW04-WGFD01B-2210WK2, RHMW04-WGN01B-2210WK2, RHMW08-WGN01B-2210WK2, ADIT3-SUMP-WGN01B-2210WK2, RHMW2254-01-WGN01B-2210WK2, RHMW2254-01-WGN01LF-2210WK2

Sample Date: 10/14/22, 10/15/22, 10/16/22

Lab: Eurofins Seattle

Report Date: 19-Oct-2022 21:23:49 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221019-85394.b\101922_015.D

Injection Date: 19-Oct-2022 20:51:30 Instrument ID: TAC020

Lims ID: MB 580-407319/1-A

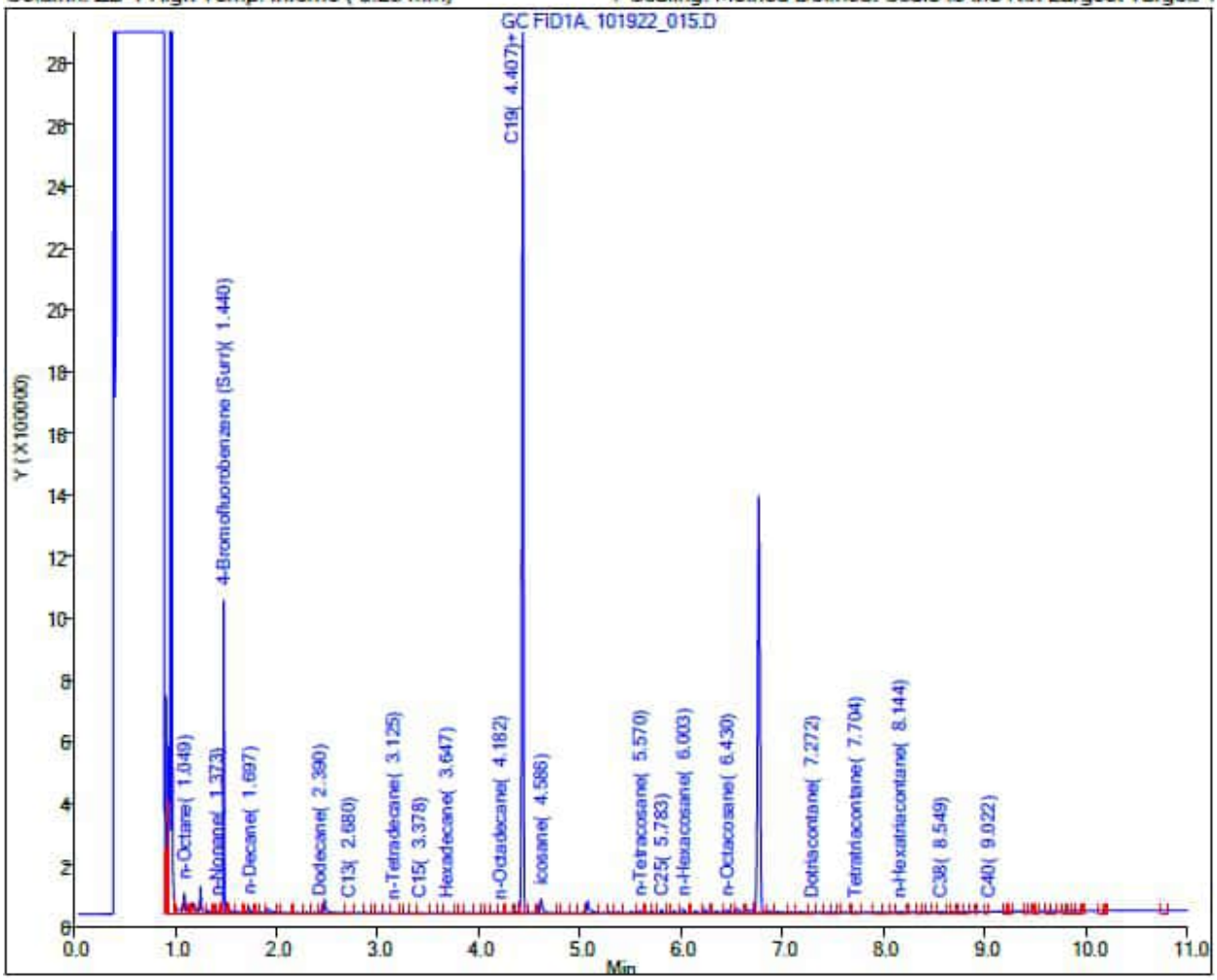
Client ID:

Operator ID: DH ALS Bottle#: 14 Worklist Smp#: 42

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-118964-1

Sample ID: OWDFMW04A-WGFD01LF-2210WK3, OWDFMW04A-WGN01LF-2210WK3, OWDFMW08A-WGFD01LF-2210WK3, OWDFMW08A-WGN01LF-2210WK3, RHMW08-WGN01B-2210WK3, RHMW11-05-WGN01G-2210WK3, RHMW14-03-WGN01G-2210WK3

Sample Date: 10/17/22

Lab: Eurofins Seattle

Report Date: 26-Oct-2022 21:10:48 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221026-85490.b\102622A008.D

Injection Date: 26-Oct-2022 18:56:40 Instrument ID: TAC129

Lims ID: MB 580-407932/1-A

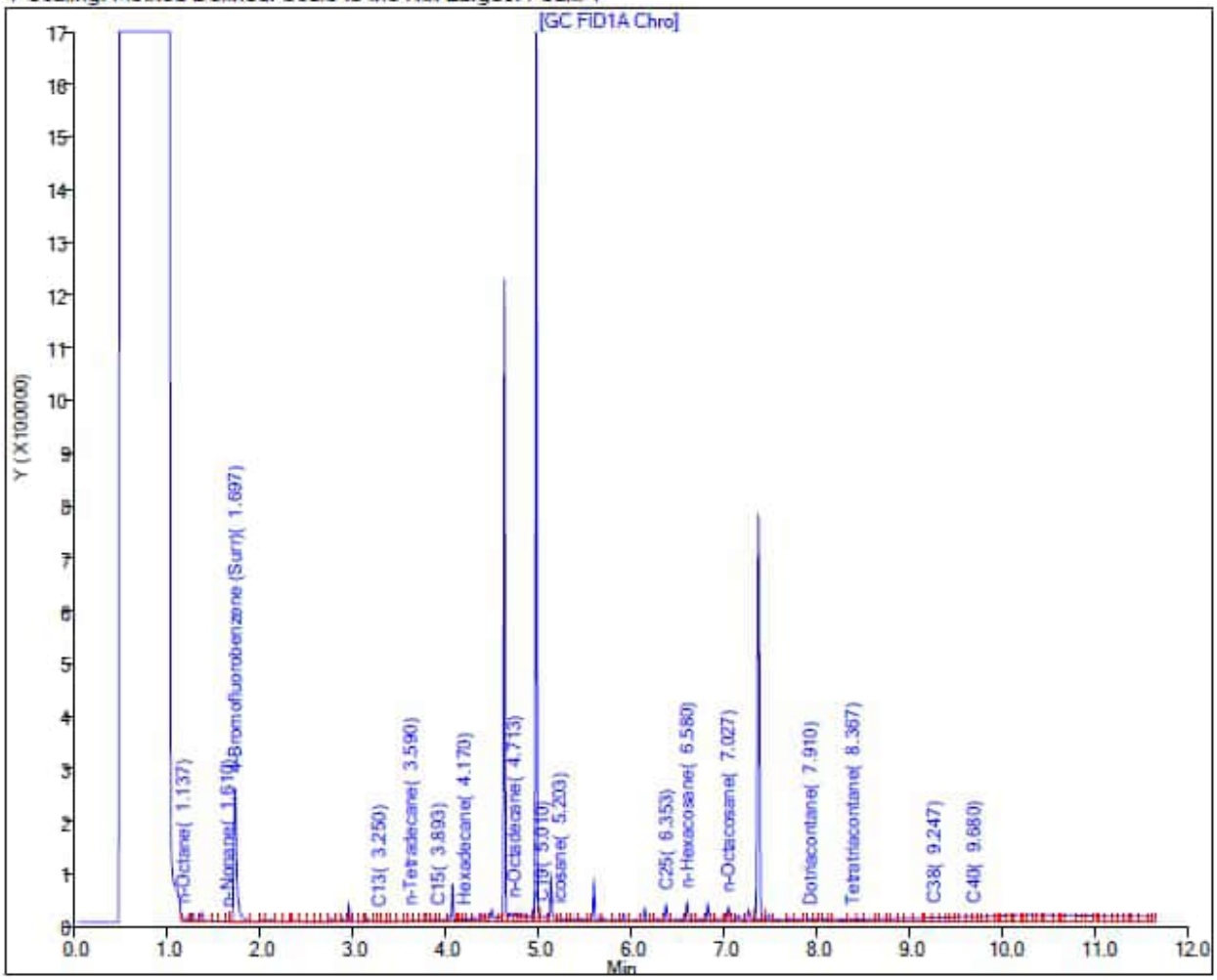
Client ID:

Operator ID: DH/CC ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118934-1

Sample ID: OWDFMW05A-WGN01LF-2210WK3, OWDFMW07A-WGN01LF-2210WK3, RHMW04-WGFD01B-2210WK3, RHMW04-WGN01B-2210WK3, RHMW06-WGN01B-2210WK3, RHMW09-WGN01B-2210WK3, RHMW19-WGN01B-2210WK3

Sample Date: 10/17/22

Lab: Eurofins Seattle

Report Date: 21-Oct-2022 20:50:22 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221021-85432.b\102122A008.D

Injection Date: 21-Oct-2022 18:34:57 Instrument ID: TAC129

Lims ID: MB 580-407573/1-A

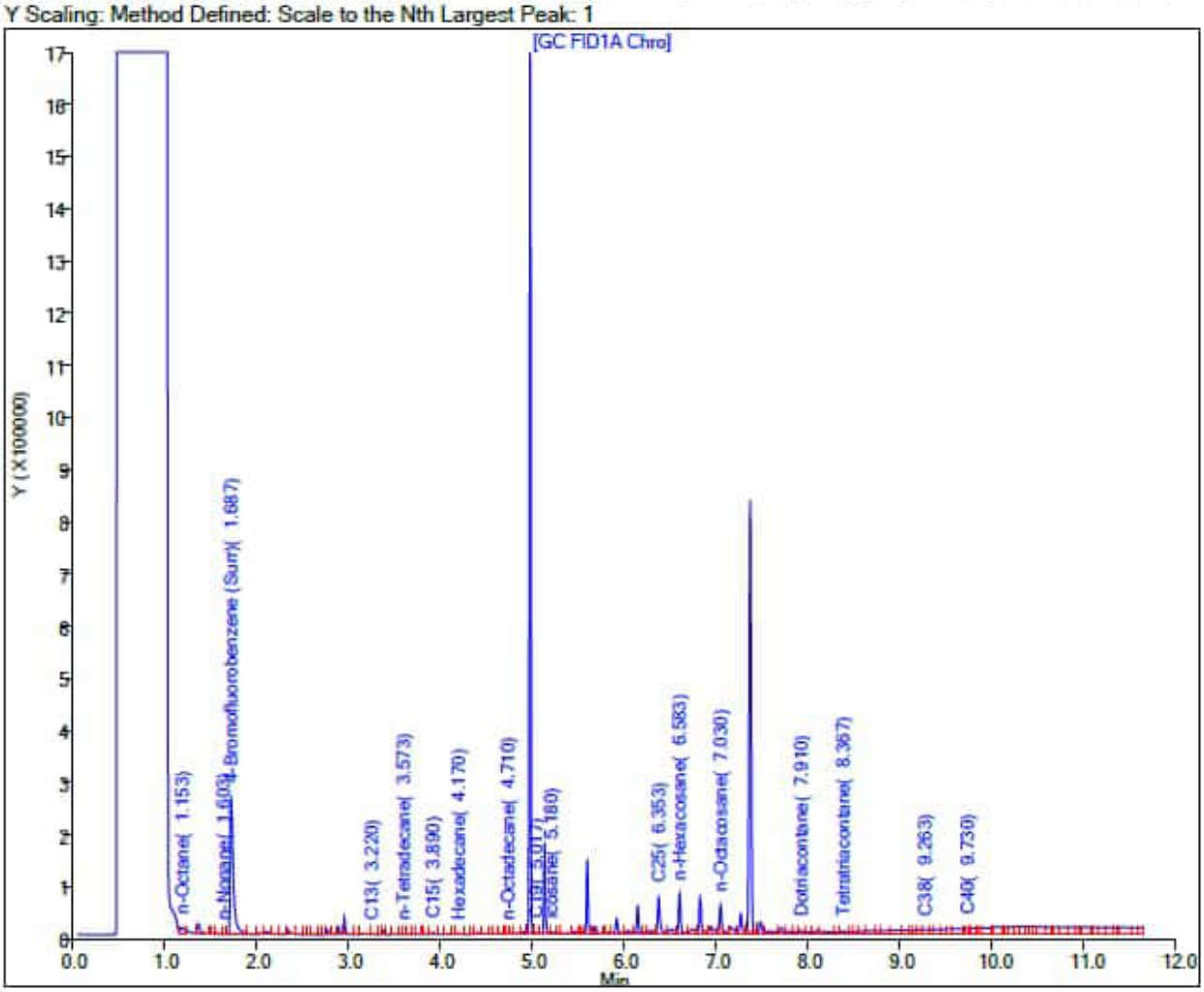
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 16

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119027-1

Sample ID: RHMW01R-WGN01B-2210WK3, RHMW02-WGN01B-2210WK3, RHMW03-WGN01B-2210WK3, RHMW05-WGN01B-2210WK3, RHMW15-05-WGN01G-2210WK3

Sample Date: 10/18/22

Lab: Eurofins Seattle

Report Date: 26-Oct-2022 13:35:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A008.D

Injection Date: 25-Oct-2022 20:54:45 Instrument ID: TAC129

Lims ID: MB 580-407857/1-A

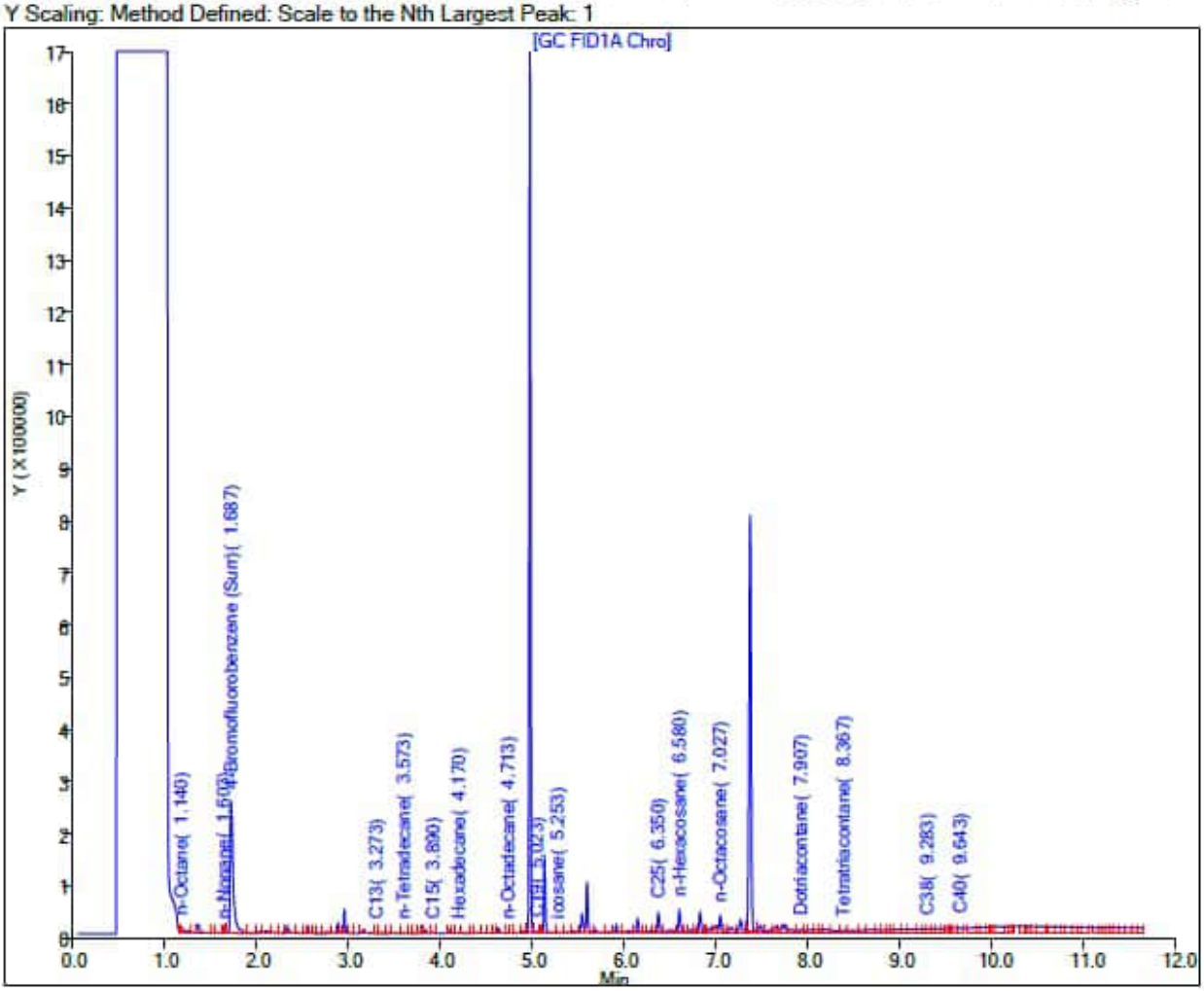
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118648-1

Sample ID: ADIT3-SUMP-WGN01B-2210WK1, OWDFMW01-WGN01LF-2210WK1, RHMW04-WGFD01B-2210WK1, RHMW04-WGN01B-2210WK1, RHMW08-WGN01B-2210WK1, RHMW17-WGN01B-2210WK1

Sample Date: 10/5/22

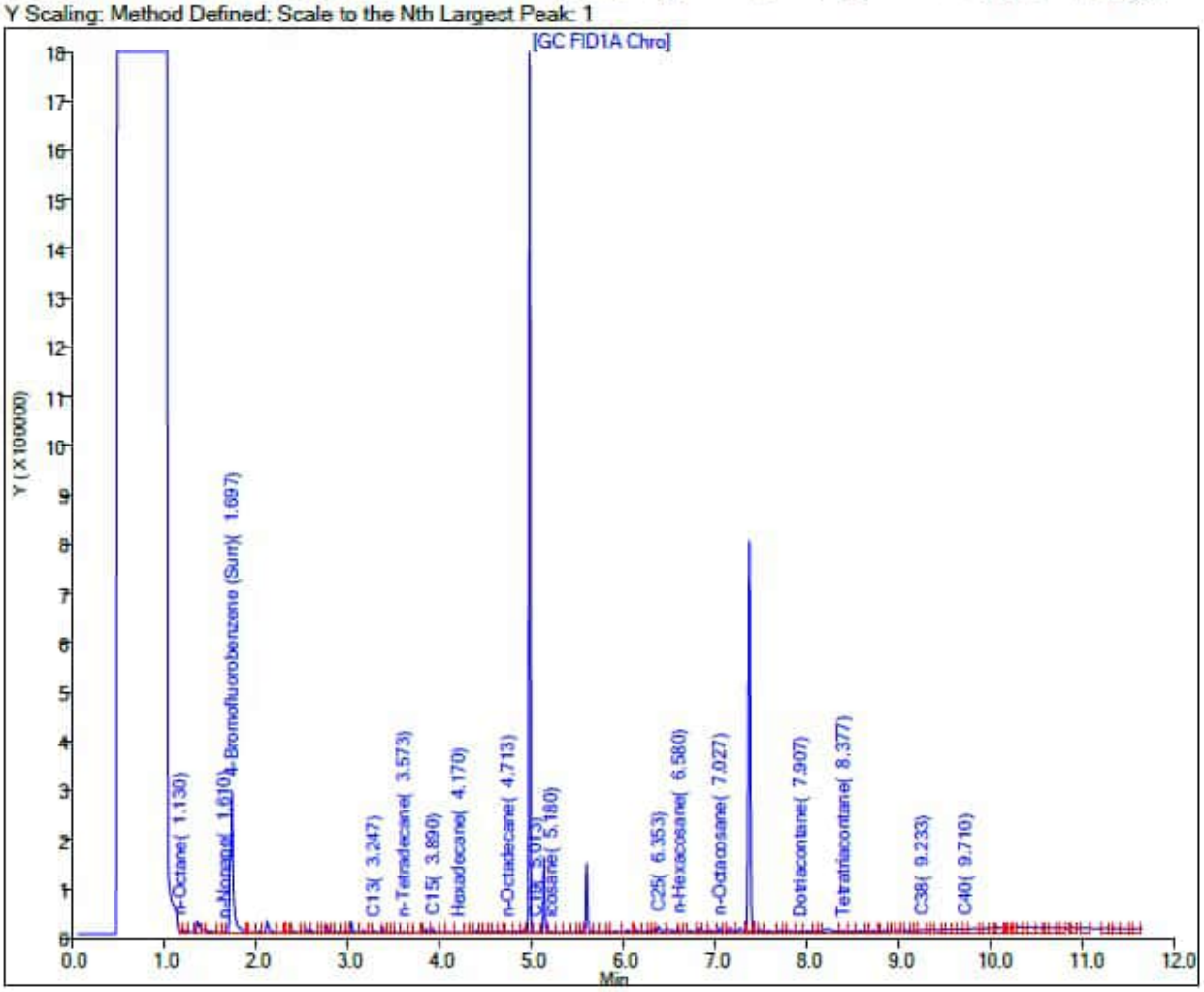
Lab: Eurofins Seattle

Report Date: 11-Oct-2022 13:54:21 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221010-85271.b\101022A008.D				
Injection Date:	10-Oct-2022 18:03:22	Instrument ID:	TAC129		
Lims ID:	MB 580-406459/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	36
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118644-1

Sample ID: OWDFMW07A-WGN01LF-2210WK1, OWDFMW08A-WGFD01LF-2210WK1, OWDFMW08A-WGN01LF-2210WK1, RHMW06-WGN01B-2210WK1, RHMW2254-01-WGN01B-2210WK1, RHMW2254-01-WGN01LF-2210WK1

Sample Date: 10/6/22

Lab: Eurofins Seattle

Report Date: 12-Oct-2022 13:56:25 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221011-85289.b\101122A022.D

Injection Date: 11-Oct-2022 20:17:31 Instrument ID: TAC129

Lims ID: MB 580-406569/1-A

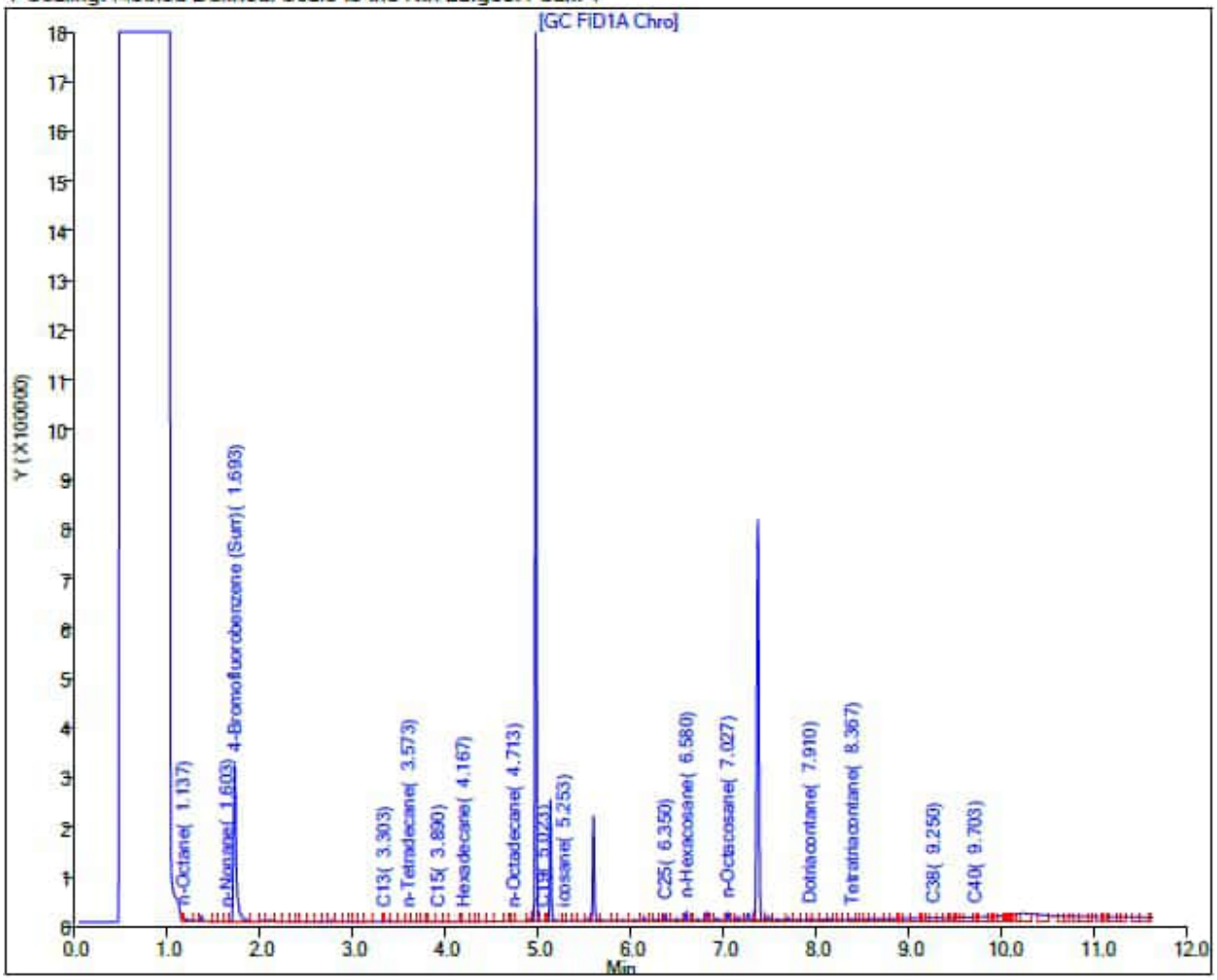
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 41

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-118961-1

Sample ID: ADIT3-SUMP-WGN01B-2210WK3, RHMW12A-WGN01LF-2210WK3, RHMW16-WGN01LF-2210WK3, RHMW2254-01-WGN01B-2210WK3, RHMW2254-01-WGN01LF-2210WK3

Sample Date: 10/18/22

Lab: Eurofins Seattle

Report Date: 25-Oct-2022 12:11:25 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221024-85453.b\102422A008.D

Injection Date: 24-Oct-2022 18:34:59 Instrument ID: TAC129

Lims ID: MB 580-407734/1-A

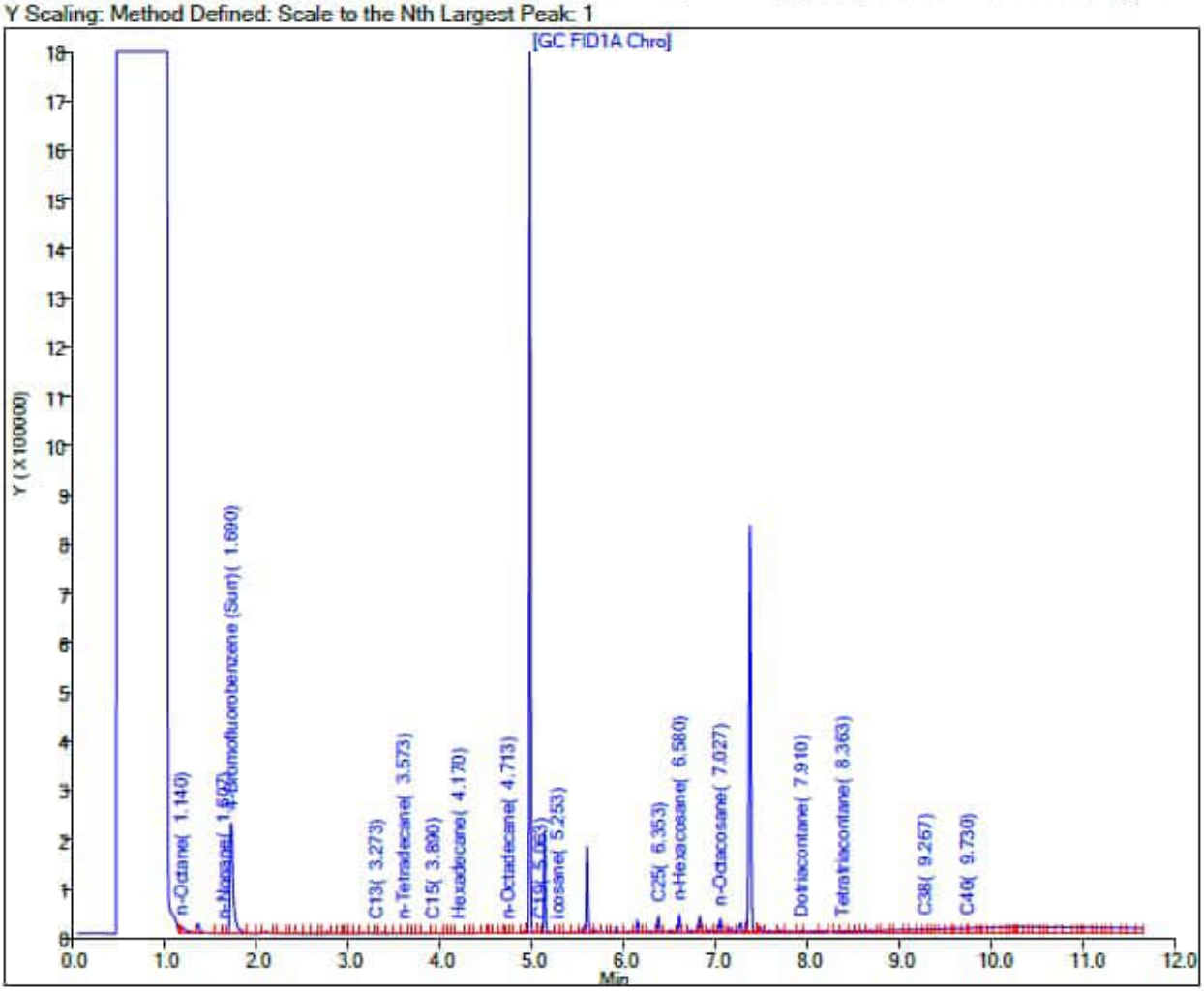
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 63

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119014-1

Sample ID: OWDFMW01-WGN01LF-2210WK3, RHMW04-WGFD02B-2210WK3, RHMW04-WGN02B-2210WK3, RHMW06-WGN02B-2210WK3, RHMW08-WGN02B-2210WK3, RHMW09-WGN02B-2210WK3, RHMW17-WGN01B-2210WK3, RHMW19-WGN02B-2210WK3

Sample Date: 10/19/22

Lab: Eurofins Seattle

Report Date: 26-Oct-2022 13:35:33 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221025-85467.b\102522A008.D

Injection Date: 25-Oct-2022 20:54:45 Instrument ID: TAC129

Lims ID: MB 580-407857/1-A

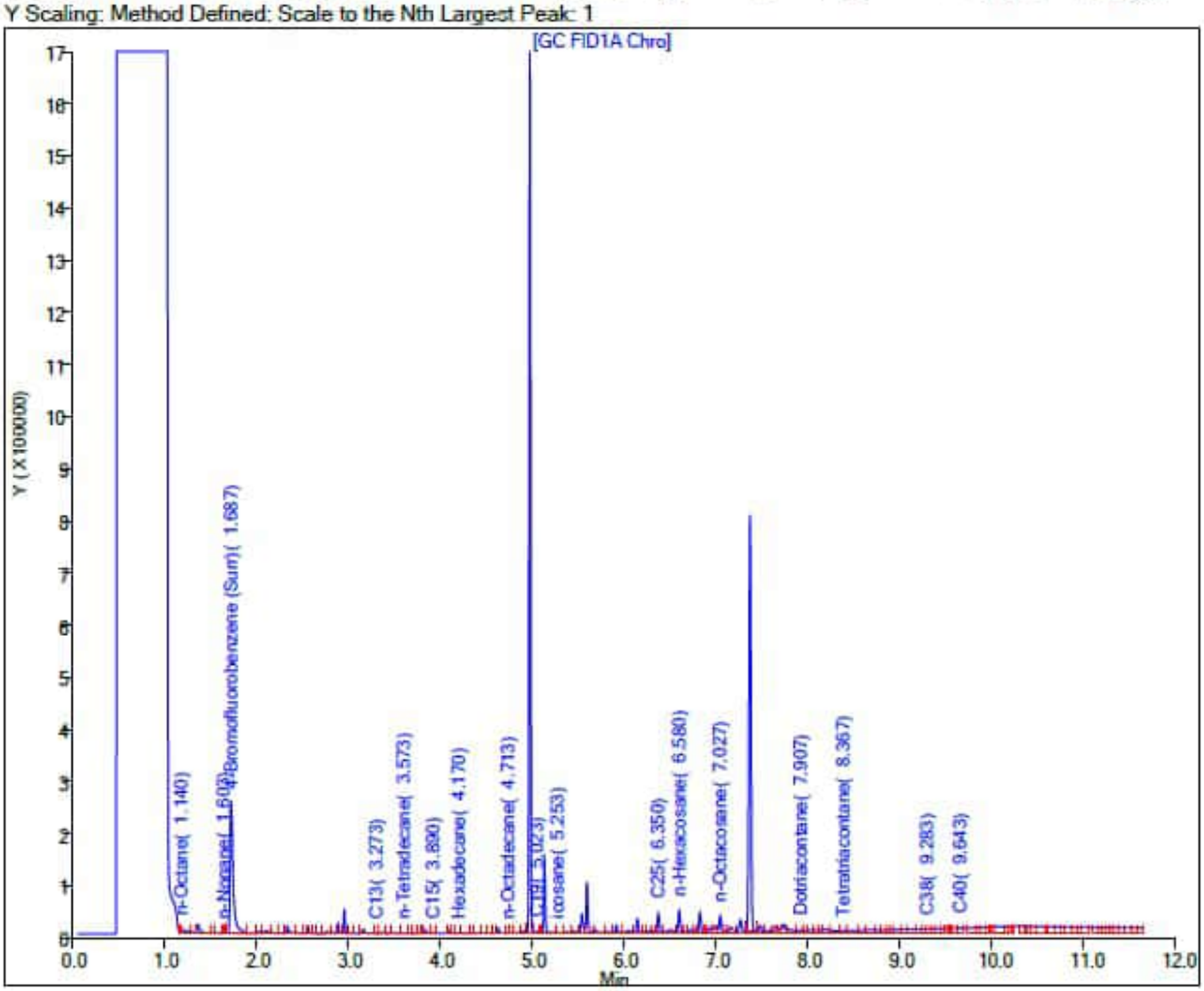
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 24

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119078-1

Sample ID: RHMW13-05-WGN01G-2210WK3, RHMW14-03-WGN02G-2210WK3, ADIT3-SUMP-WGN02B-2210WK3, RHMW12A-WGN02LF-2210WK3, RHMW15-05-WGN02G-2210WK3, RHMW16-WGN02LF-2210WK3, RHMW2254-01-WGN02B-2210WK3, RHMW2254-01-WGN02LF-2210WK3

Sample Date: 10/19/22, 10/20/22

Lab: Eurofins Seattle

Report Date: 28-Oct-2022 14:34:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A008.D

Injection Date: 27-Oct-2022 16:59:48 Instrument ID: TAC129

Lims ID: MB 580-408104/1-A

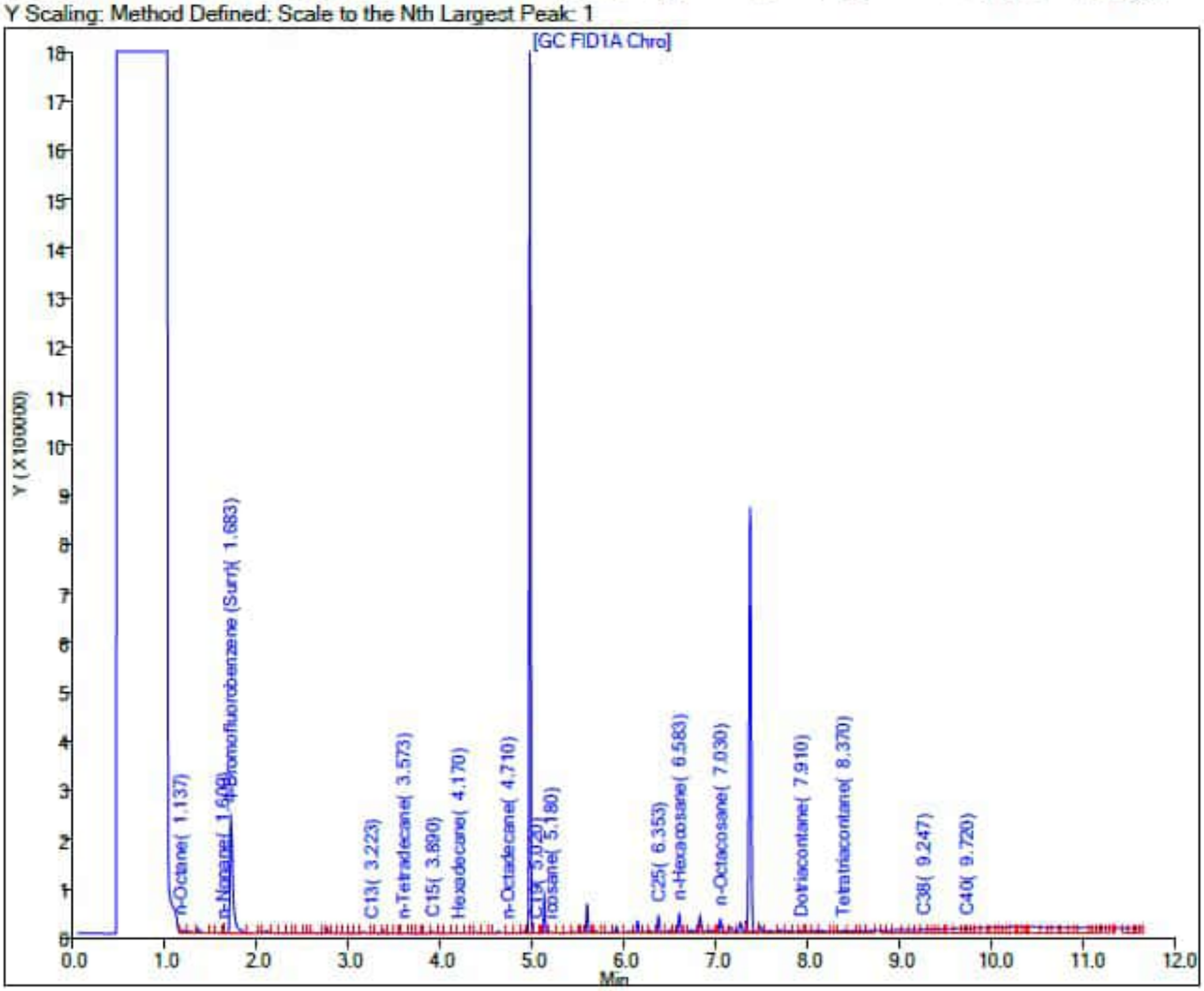
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119152-1

Sample ID: RHMW01R-WGN02B-2210WK3, RHMW02-WGN02B-2210WK3, RHMW03-WGN02B-2210WK3, RHMW05-WGN02B-2210WK3, OWDFMW01-WGN02LF-2210WK3

Sample Date: 10/20/22, 10/21/22

Lab: Eurofins Seattle

Report Date: 27-Oct-2022 13:34:39 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221026-85480.b\102622_016.D

Injection Date: 26-Oct-2022 19:18:30 Instrument ID: TAC020

Lims ID: MB 580-407929/1-A

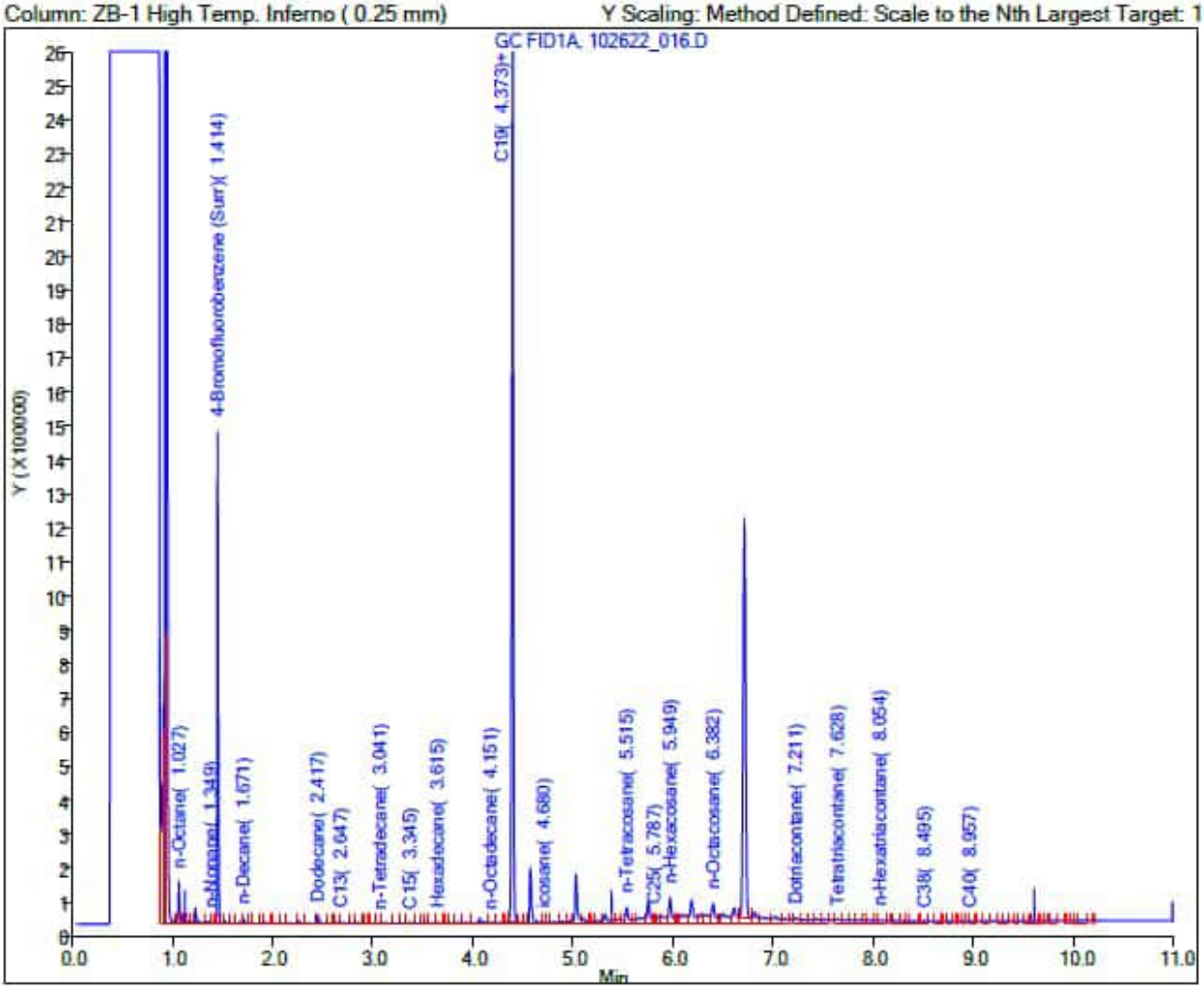
Client ID:

Operator ID: DH ALS Bottle#: 15 Worklist Smp#: 25

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119163-1

Sample ID: OWDFMW04A-WGFD02LF-2210WK3, OWDFMW04A-WGN02LF-2210WK3, RHMW11-05-WGN02G-2210WK3

Sample Date: 10/21/22

Lab: Eurofins Seattle

Report Date: 31-Oct-2022 14:49:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A008.D

Injection Date: 28-Oct-2022 20:34:52 Instrument ID: TAC129

Lims ID: MB 580-408249/1-A

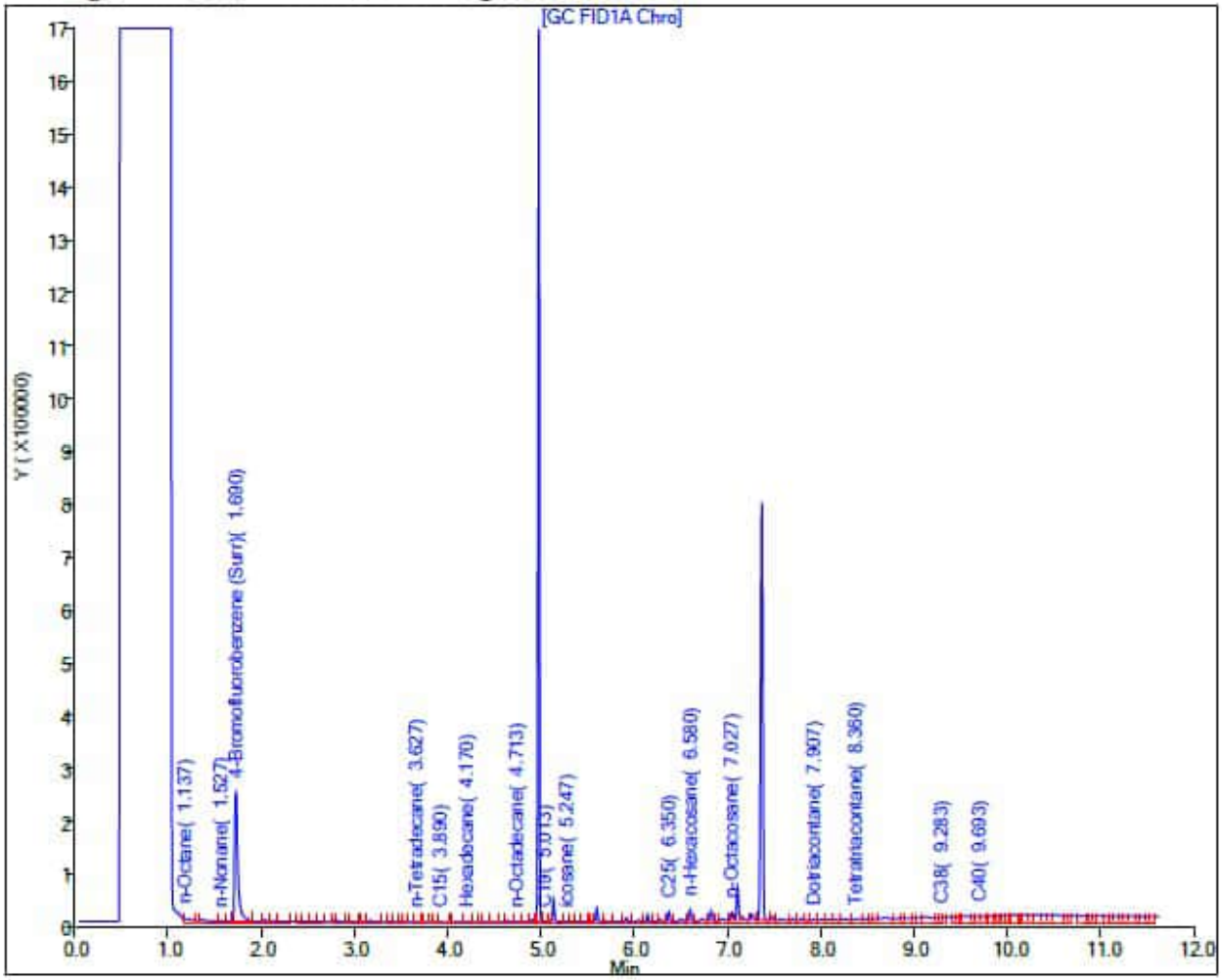
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 28

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119111-1

Sample ID: OWDFMW05A-WGN02LF-2210WK3, OWDFMW07A-WGN02LF-2210WK3, OWDFMW08A-WGFD02LF-2210WK3, OWDFMW08A-WGN02LF-2210WK3, RHMW13-05-WGN02G-2210WK3, RHMW17-WGN02B-2210WK3

Sample Date: 10/21/22

Lab: Eurofins Seattle

Report Date: 28-Oct-2022 14:34:24 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221027-85509.b\102722A008.D

Injection Date: 27-Oct-2022 16:59:48 Instrument ID: TAC129

Lims ID: MB 580-408104/1-A

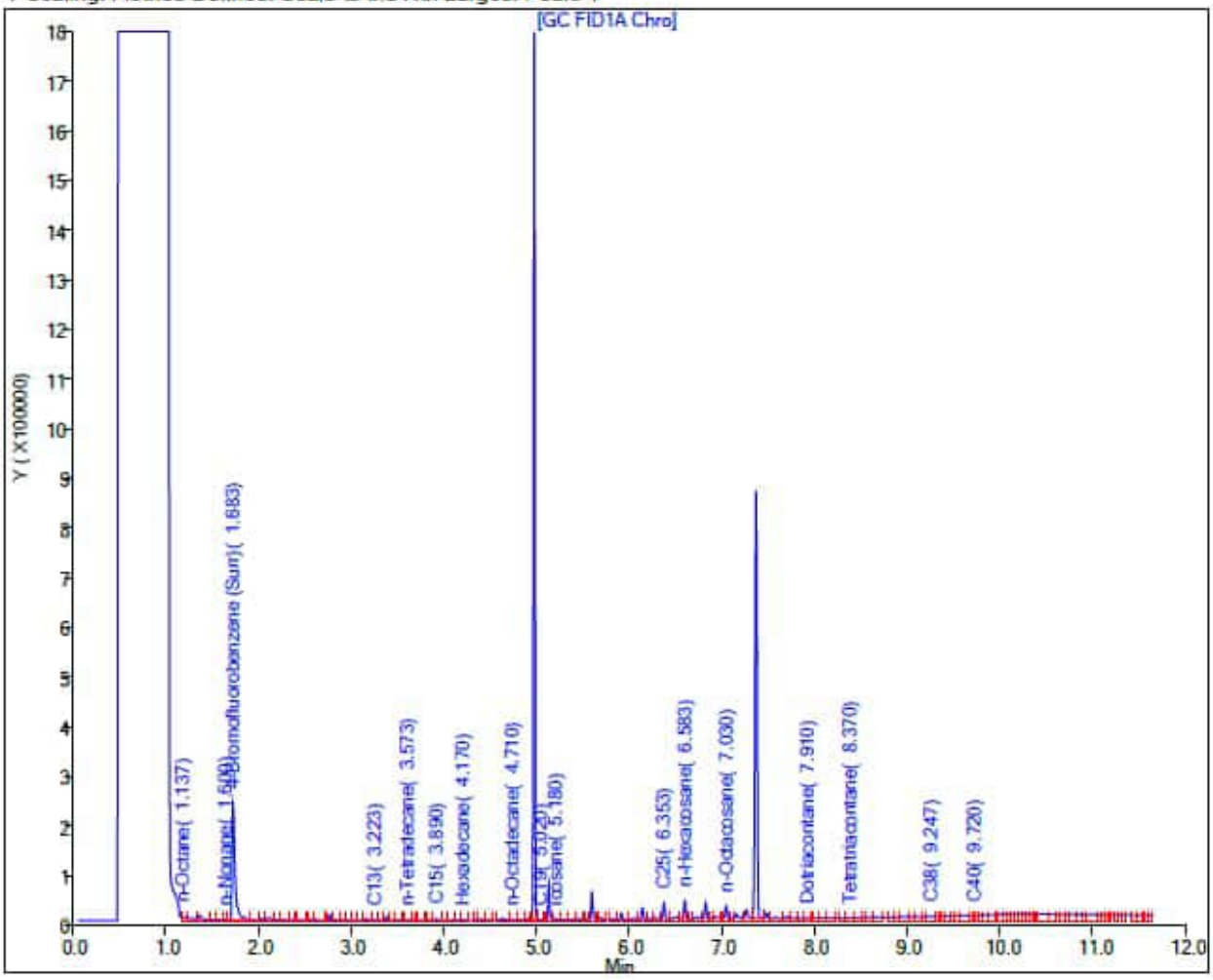
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119152-1

Sample ID: RHMW01R-WGN02B-2210WK3, RHMW02-WGN02B-2210WK3, RHMW03-WGN02B-2210WK3, RHMW05-WGN02B-2210WK3, OWDFMW01-WGN02LF-2210WK3

Sample Date: 10/20/22, 10/21/22

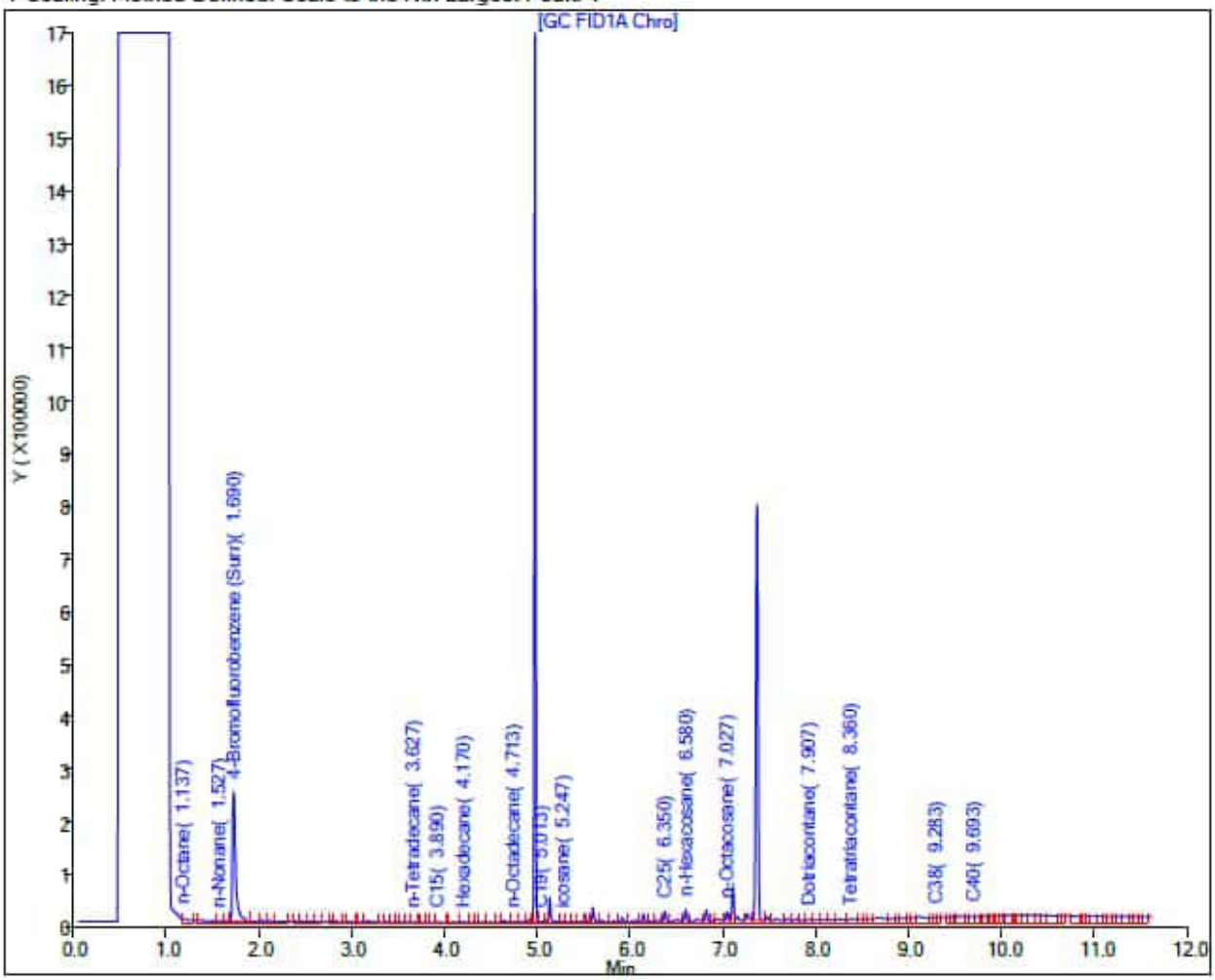
Lab: Eurofins Seattle

Report Date: 31-Oct-2022 14:49:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A008.D				
Injection Date:	28-Oct-2022 20:34:52	Instrument ID:	TAC129		
Lims ID:	MB 580-408249/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	28
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Front	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119162-1

Sample ID: OWDFMW07A-WGN01LF-2210WK4, OWDFMW08A-WGFD01LF-2210WK4, OWDFMW08A-WGN01LF-2210WK4, RHMW09-WGN01B-2210WK4, RHMW12A-WGN01LF-2210WK4, RHMW14-03-WGN01G-2210WK4, RHMW16-WGN01LF-2210WK4, RHMW19-WGN01B-2210WK4

Sample Date: 10/24/22

Lab: Eurofins Seattle

Report Date: 31-Oct-2022 14:49:36 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221028-85532.b\102822A008.D

Injection Date: 28-Oct-2022 20:34:52 Instrument ID: TAC129

Lims ID: MB 580-408249/1-A

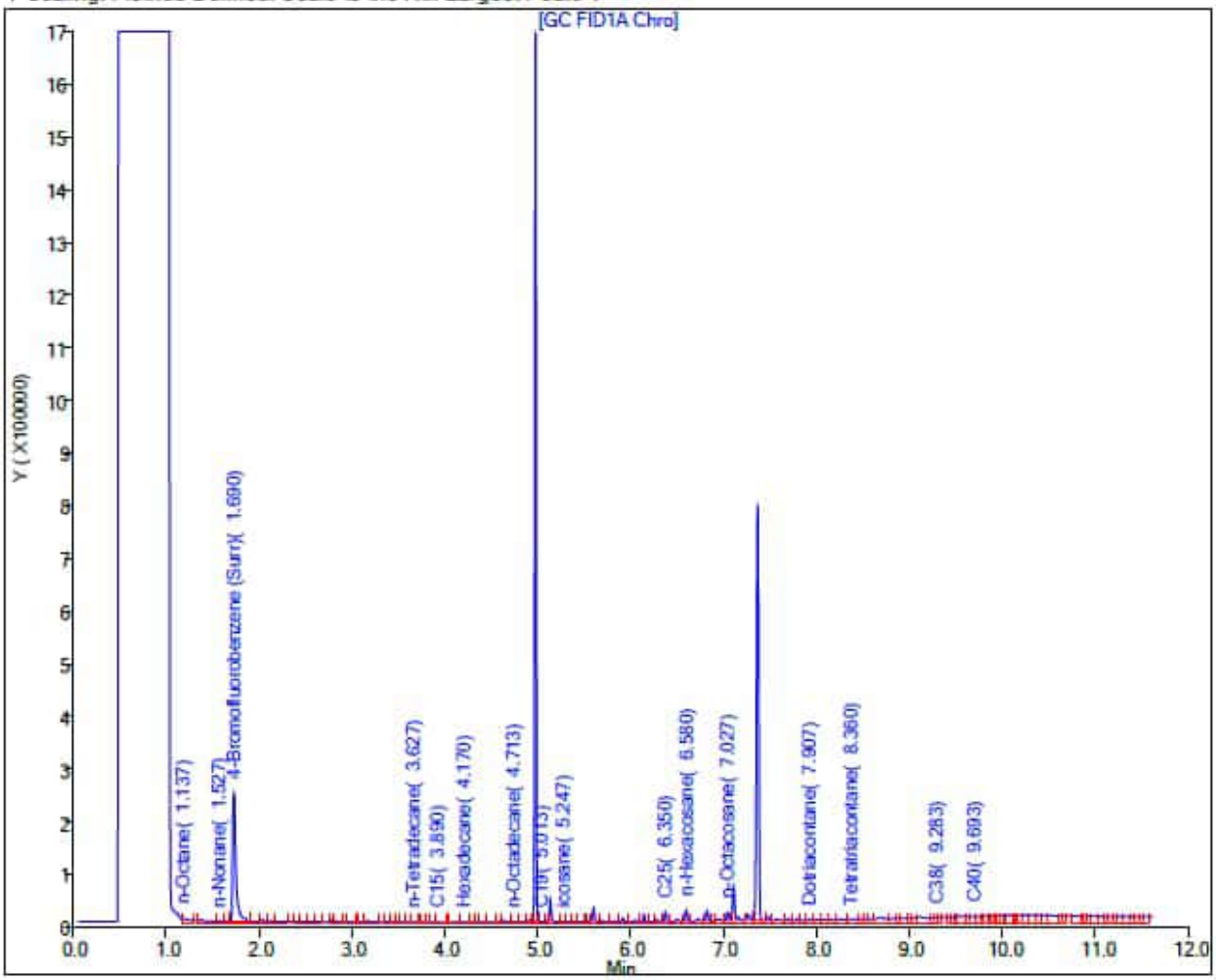
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 28

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119339-1

Sample ID: RHMW01R-WGN01B-2210WK4, RHMW02-WGN01B-2210WK4, RHMW03-WGN01B-2210WK4, RHMW05-WGN01B-2210WK4

Sample Date: 10/25/22

Lab: Eurofins Seattle

Report Date: 01-Nov-2022 13:45:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_013.D

Injection Date: 31-Oct-2022 21:09:30 Instrument ID: TAC020

Lims ID: MB 580-408396/1-A

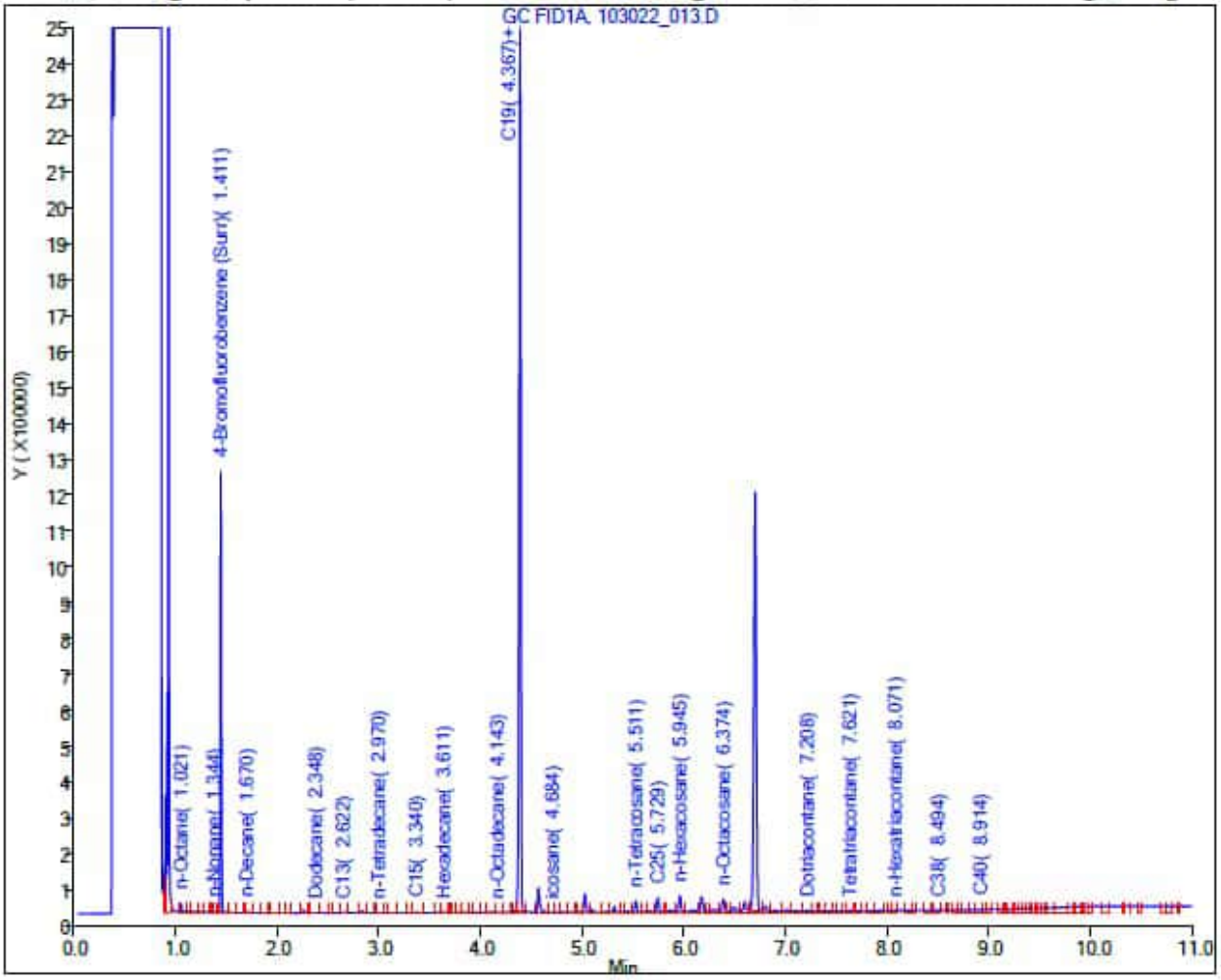
Client ID:

Operator ID: DH ALS Bottle#: 12 Worklist Smp#: 62

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119316-1

Sample ID: ADIT3-SUMP-WGN01B-2210WK4, OWDFMW01-WGN01LF-2210WK4, RHMW15-05-WGN01G-2210WK4, RHMW17-WGN01B-2210WK4, RHMW2254-01-WGN01B-2210WK4, RHMW2254-01-WGN01LF-2210WK4

Sample Date: 10/25/22

Lab: Eurofins Seattle

Report Date: 01-Nov-2022 13:45:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_013.D

Injection Date: 31-Oct-2022 21:09:30 Instrument ID: TAC020

Lims ID: MB 580-408396/1-A

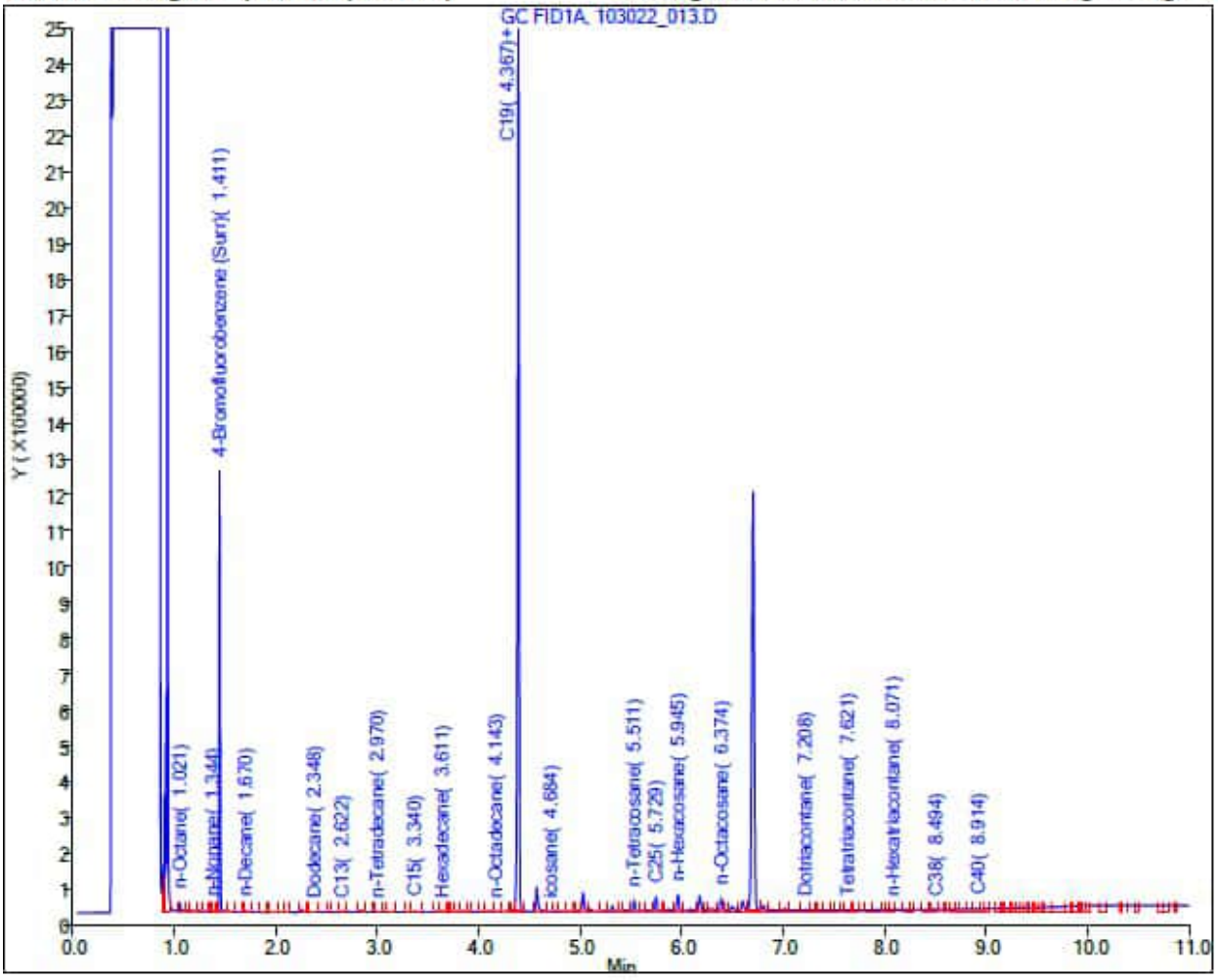
Client ID:

Operator ID: DH ALS Bottle#: 12 Worklist Smp#: 62

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119371-1

Sample ID: OWDFMW04A-WGFD01LF-2210WK4, OWDFMW04A-WGN01LF-2210WK4, OWDFMW05A-WGN01LF-2210WK4, RHMW04-WGFD02B-2210WK4, RHMW04-WGN02B-2210WK4, RHMW06-WGN02B-2210WK4, RHMW08-WGN02B-2210WK4, RHMW13-05-WGN01G-2210WK4, RHMW14-03-WGN02G-2210WK4

Sample Date: 10/26/22

Lab: Eurofins Seattle

Report Date: 07-Nov-2022 15:52:57 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221107-85642.b\110722_005.D

Injection Date: 07-Nov-2022 15:32:30 Instrument ID: TAC020

Lims ID: MB 580-408885/1-A

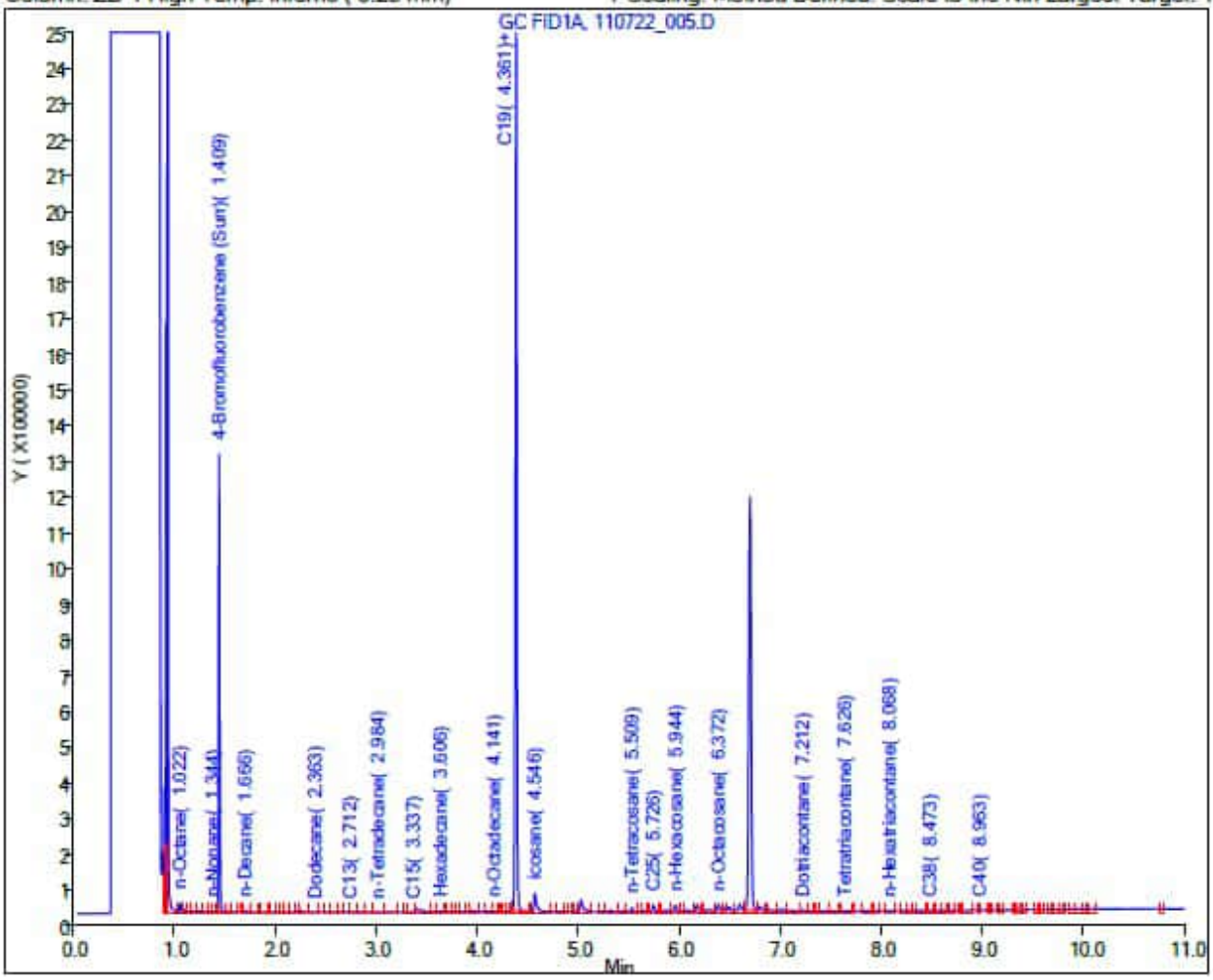
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 11

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119342-1

Sample ID: RHMW09-WGN02B-2210WK4, RHMW19-WGN02B-2210WK4

Sample Date: 10/26/22

Lab: Eurofins Seattle

Report Date: 01-Nov-2022 13:45:15 Chrom Revision: 2.3 28-Sep-2022 12:57:42

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221031-85555.b\103022_013.D

Injection Date: 31-Oct-2022 21:09:30 Instrument ID: TAC020

Lims ID: MB 580-408396/1-A

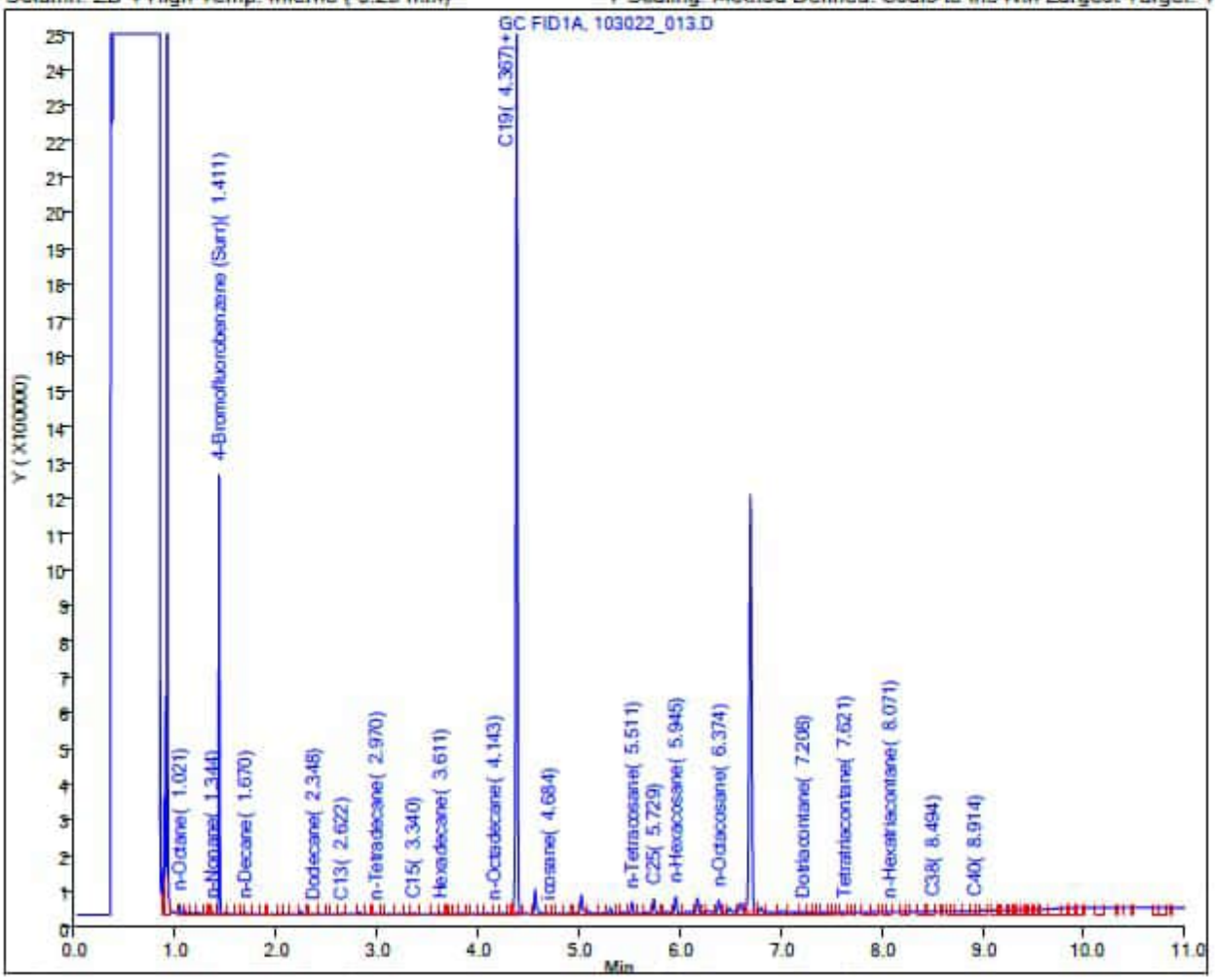
Client ID:

Operator ID: DH ALS Bottle#: 12 Worklist Smp#: 62

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119363-1

Sample ID: ADIT3-SUMP-WGN02B-2210WK4, RHMW12A-WGN02LF-2210WK4, RHMW15-05-WGN02G-2210WK4, RHMW16-WGN02LF-2210WK4, RHMW2254-01-WGN02B-2210WK4, RHMW2254-01-WGN02LF-2210WK4

Sample Date: 10/27/22

Lab: Eurofins Seattle

Report Date: 03-Nov-2022 20:11:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_005.D

Injection Date: 03-Nov-2022 16:11:30 Instrument ID: TAC020

Lims ID: MB 580-408641/1-A

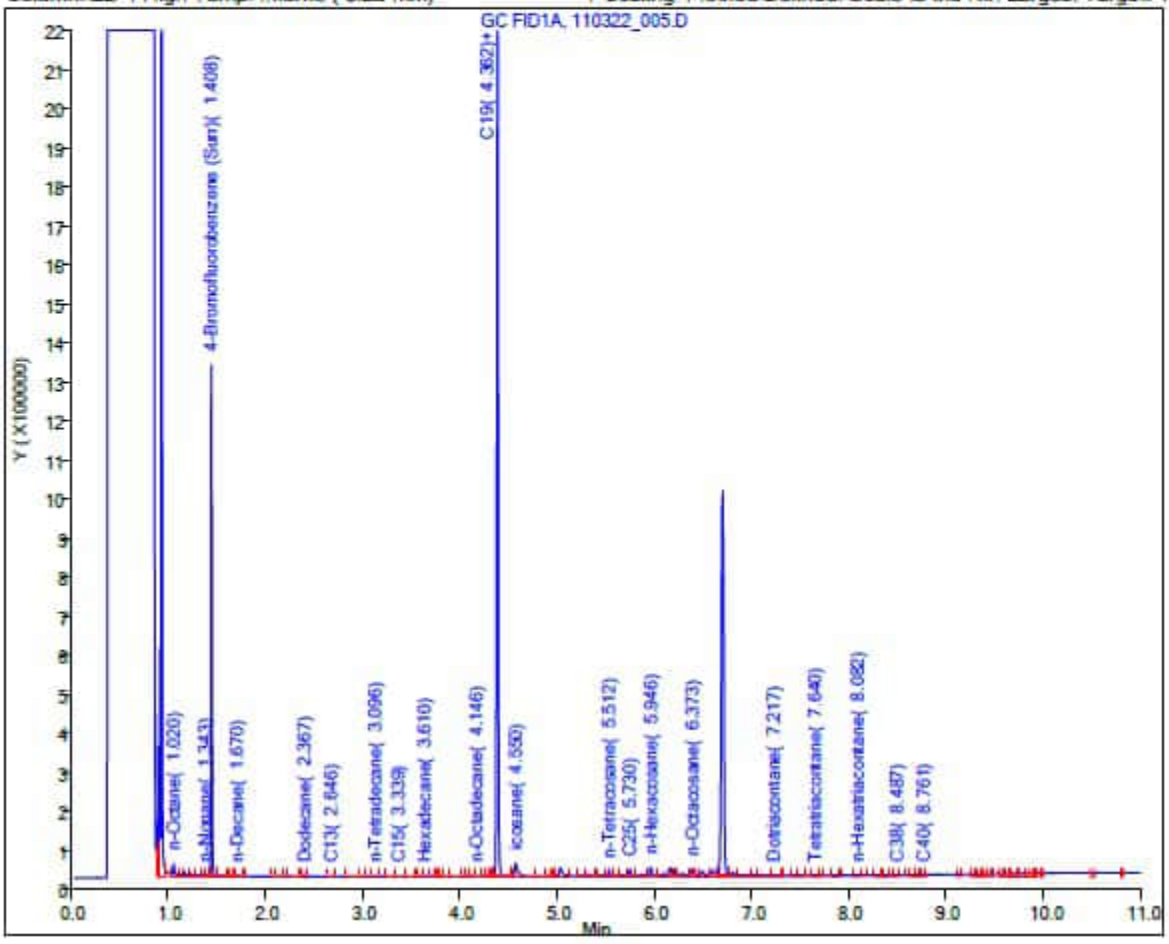
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 30

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119481-1

Sample ID: RHMW02-WGN02B-2210WK4, OWDFMW07A-WGN02LF-2210WK4

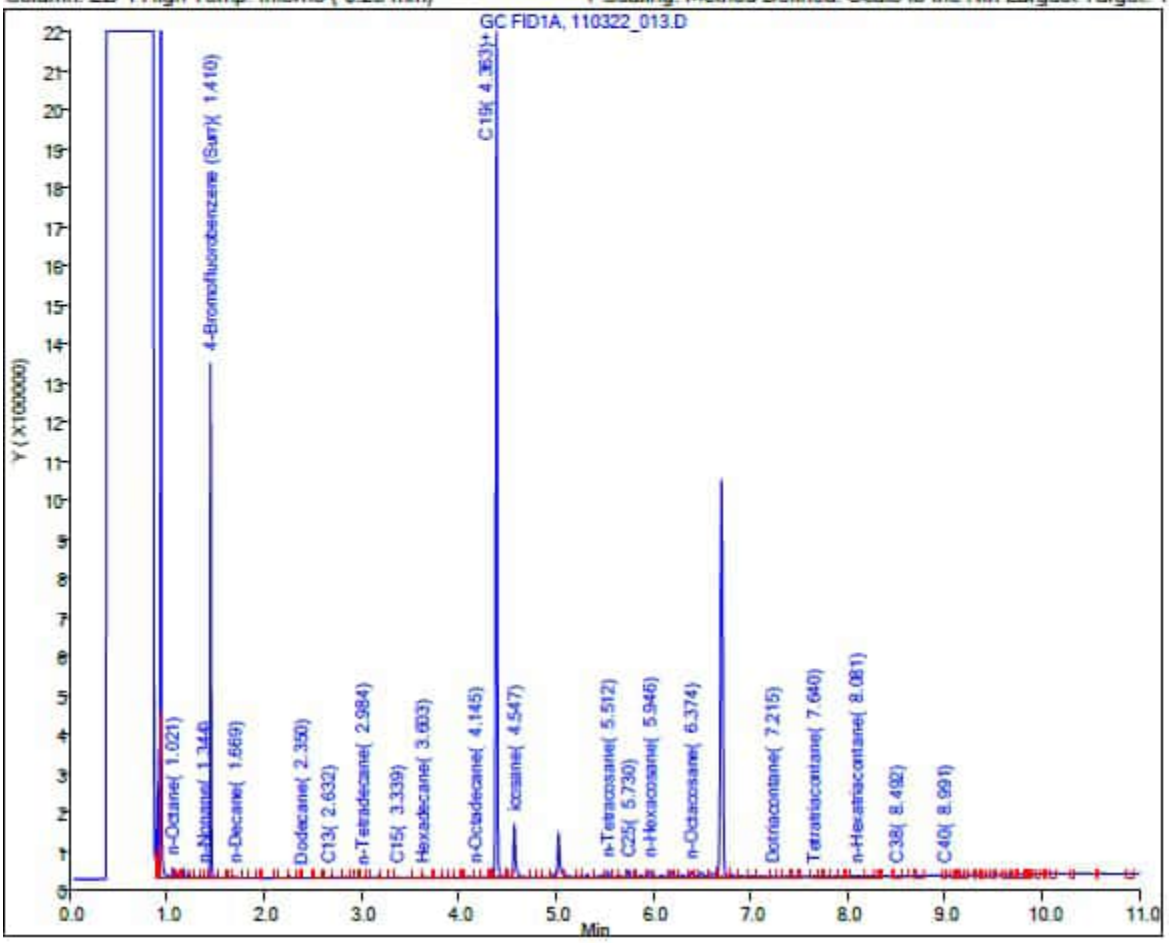
Sample Date: 10/27/22, 10/28/22

Lab: Eurofins Seattle

Report Date: 04-Nov-2022 13:43:14 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_013.D
Injection Date: 03-Nov-2022 18:52:30 Instrument ID: TAC020
Lims ID: MB 580-408762/1-A
Client ID:
Operator ID: DH ALS Bottle#: 12 Worklist Smp#: 38
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119528-1

Sample ID: ADIT3-SUMP-WGN01B-2210WK5, RHMW12A-WGN01LF-2210WK5, RHMW15-05-WGN01G-2210WK5, RHMW16-WGN01LF-2210WK5, RHMW2254-01-WGN01B-2210WK5, RHMW2254-01-WGN01LF-2210WK5

Sample Date: 11/1/22

Lab: Eurofins Seattle

Report Date: 08-Nov-2022 22:40:55 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_005.D

Injection Date: 08-Nov-2022 18:51:30 Instrument ID: TAC020

Lims ID: MB 580-409045/1-A

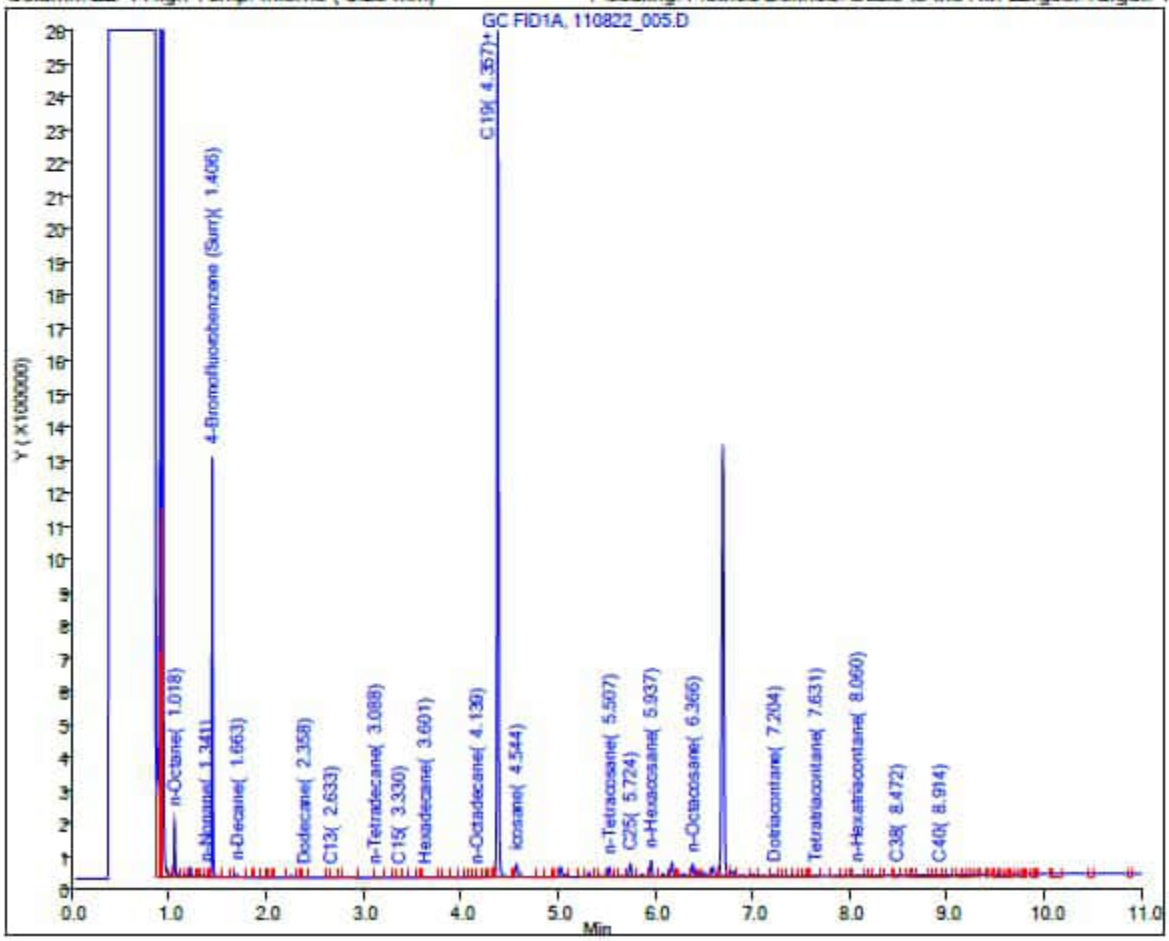
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119618-1

Sample ID: RHMW01R-WGN01B-2210WK5, RHMW02-WGN01B-2210WK5, RHMW03-WGN01B-2210WK5, RHMW05-WGN01B-2210WK5, RHMW17-WGN01B-2210WK5

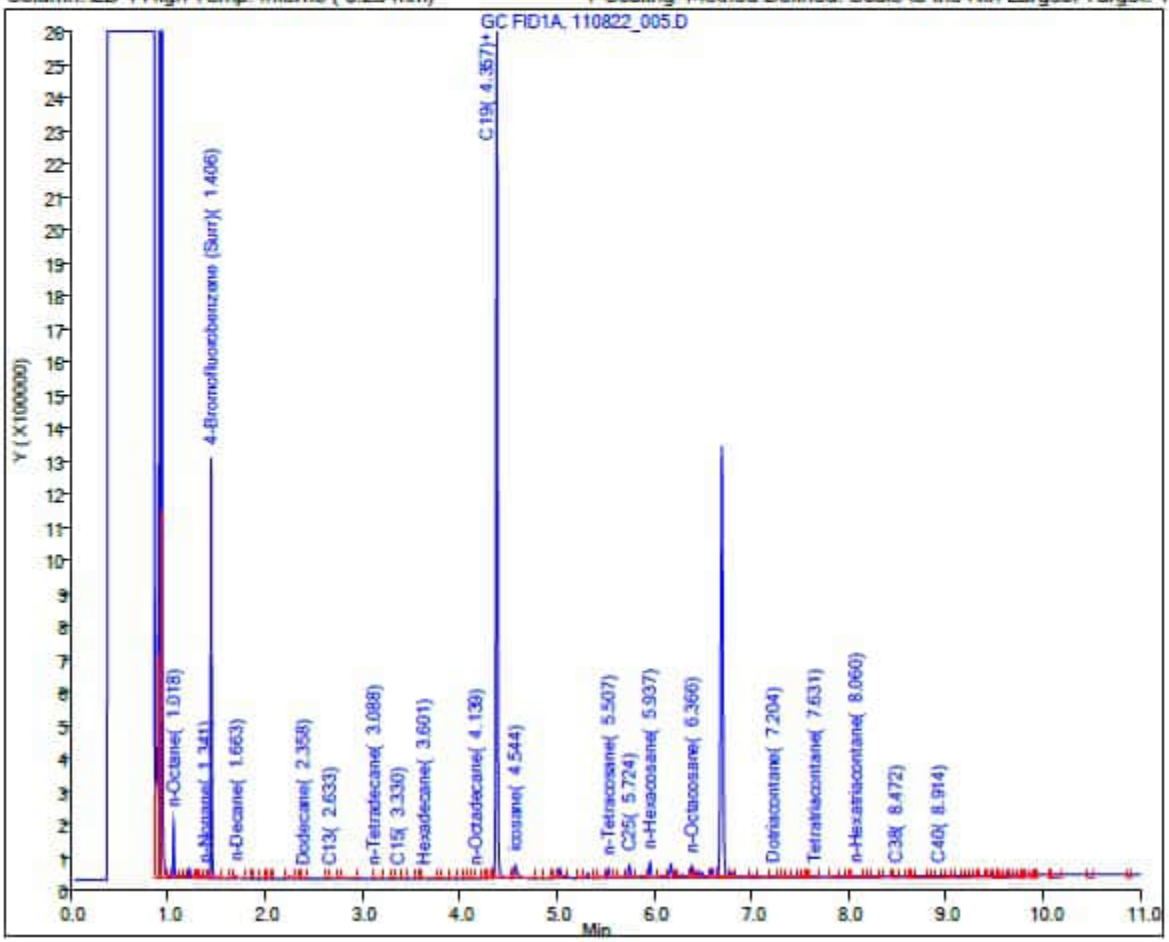
Sample Date: 11/1/22

Lab: Eurofins Seattle

Report Date: 08-Nov-2022 22:40:55 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_005.D
Injection Date: 08-Nov-2022 18:51:30 Instrument ID: TAC020
Lims ID: MB 580-409045/1-A
Client ID:
Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119523-1

Sample ID: RHMW04-WGFD01B-2210WK5, RHMW04-WGN01B-2210WK5, RHMW06-WGN01B-2210WK5, RHMW08-WGN01B-2210WK5, RHMW09-WGN01B-2210WK5, RHMW14-03-WGN01G-2210WK5, RHMW19-WGN01B-2210WK5

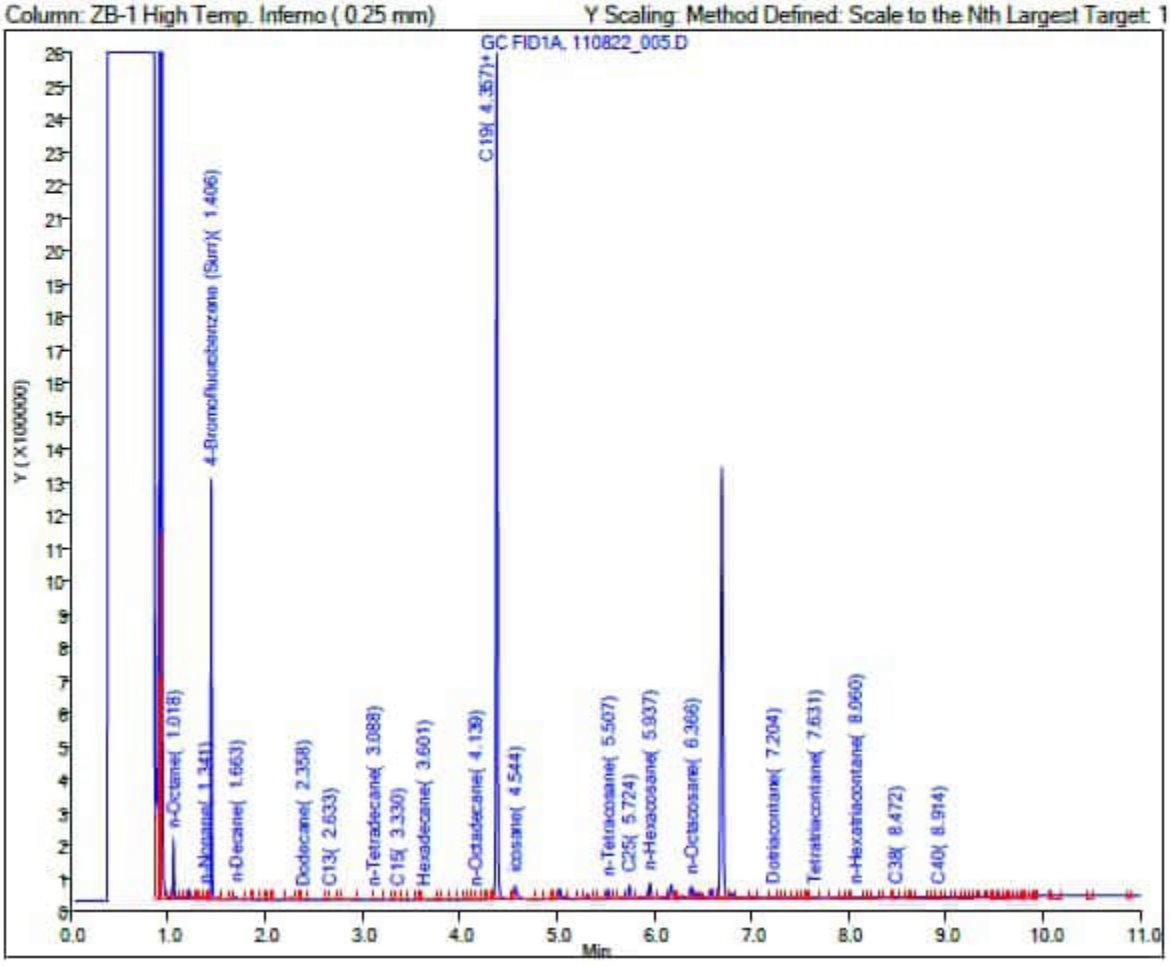
Sample Date: 10/31/22

Lab: Eurofins Seattle

Report Date: 08-Nov-2022 22:40:55 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221108-85675.b\110822_005.D
Injection Date: 08-Nov-2022 18:51:30 Instrument ID: TAC020
Lims ID: MB 580-409045/1-A
Client ID:
Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119430-1

Sample ID: RHMW01R-WGN02B-2210WK4, RHMW03-WGN02B-2210WK4, RHMW05-WGN02B-2210WK4, OWDFMW01-WGN02LF-2210WK4, OWDFMW08A-WGFD02LF-2210WK4, OWDFMW08A-WGN02LF-2210WK4, RHMW17-WGN02B-2210WK4

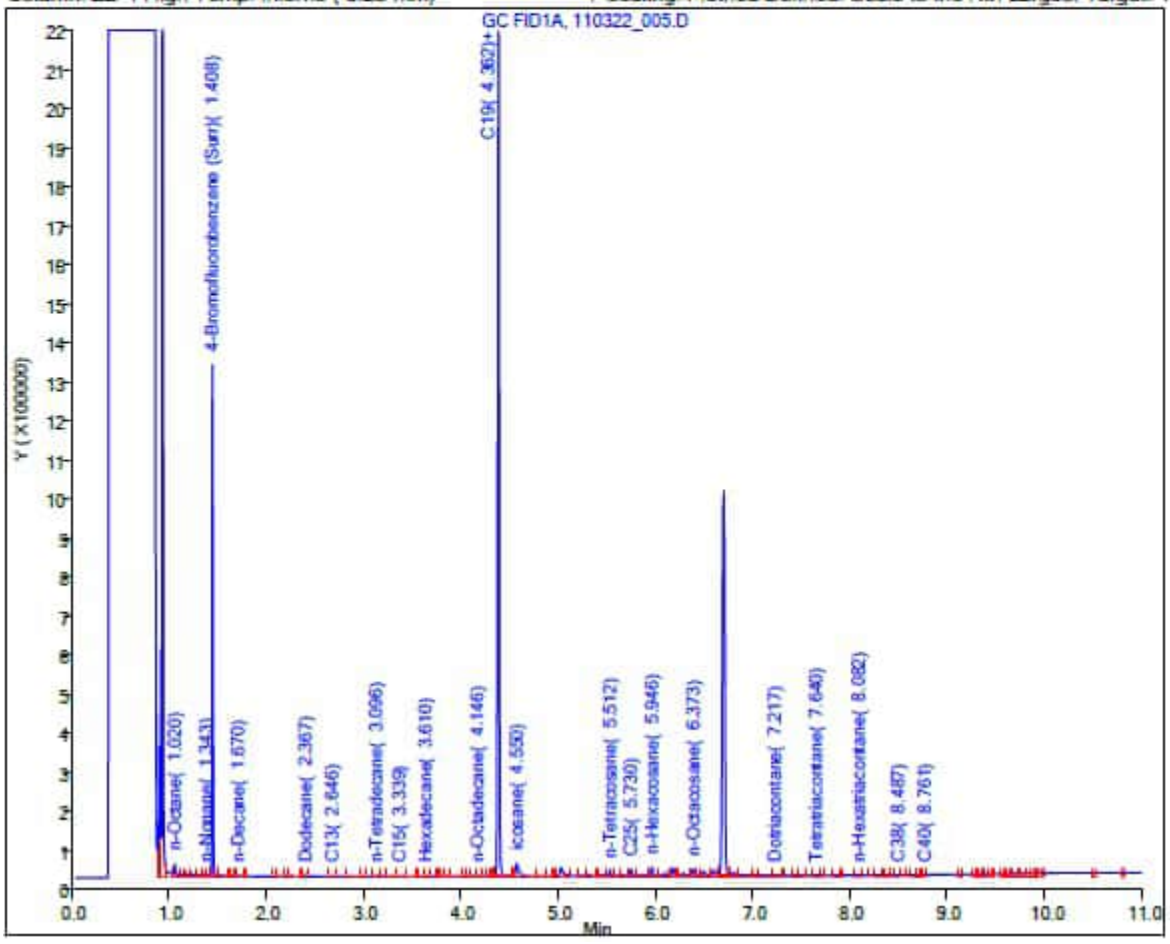
Sample Date: 10/27/22, 10/28/22

Lab: Eurofins Seattle

Report Date: 03-Nov-2022 20:11:17 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221103-85610.b\110322_005.D
Injection Date: 03-Nov-2022 16:11:30 Instrument ID: TAC020
Lims ID: MB 580-408641/1-A
Client ID:
Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 30
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges
Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119623-1

Sample ID: OWDFMW01-WGN01LF-2210WK5, RHMW04-WGFD02B-2210WK5, RHMW04-WGN02B-2210WK5, RHMW06-WGN02B-2210WK5, RHMW08-WGN02B-2210WK5, RHMW09-WGN02B-2210WK5, RHMW14-03-WGN02G-2210WK5

Sample Date: 11/2/22

Lab: Eurofins Seattle

Report Date: 17-Nov-2022 11:54:35 Chrom Revision: 2.3 16-Nov-2022 21:12:14

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221116-85834.b\1116z22A007.D

Injection Date: 16-Nov-2022 23:03:04 Instrument ID: TAC129_R

Lims ID: MB 580-410141/1-A

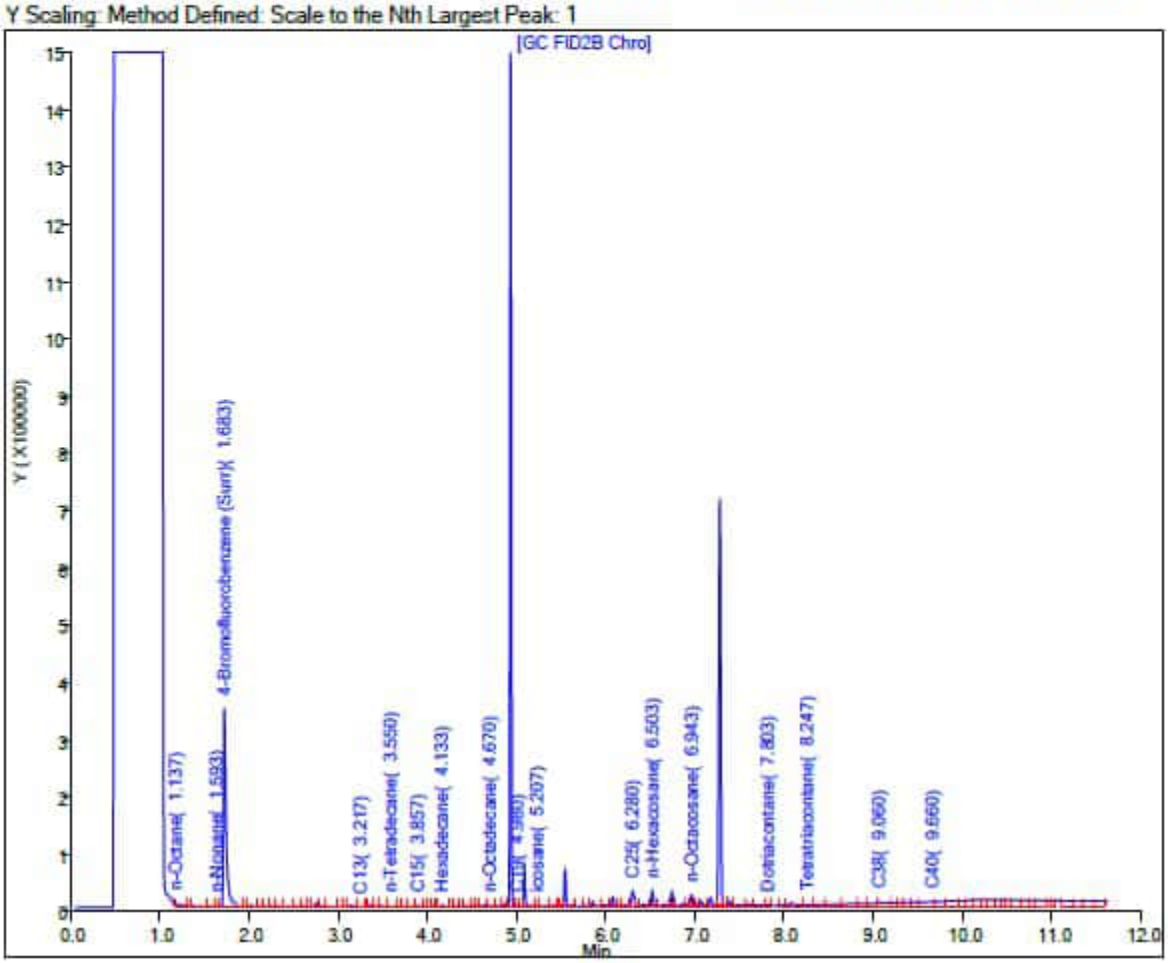
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 33

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119659-1

Sample ID: RHMW11-05-WGN01G-2210WK5, RHMW19-WGN02B-2210WK5, ADIT3-SUMP-WGN02B-2210WK5, RHMW12A-WGN02LF-2210WK5, RHMW16-WGN02LF-2210WK5, RHMW17-WGN02B-2210WK5, RHMW2254-01-WGN02B-2210WK5, RHMW2254-01-WGN02LF-2210WK5

Sample Date: 11/2/22, 11/3/22

Lab: Eurofins Seattle

Lab: Eurofins Seattle

Report Date: 10-Nov-2022 14:17:31 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221109-85708.b\110922_005.D

Injection Date: 09-Nov-2022 23:06:30 Instrument ID: TAC020

Lims ID: MB 580-409346/1-A

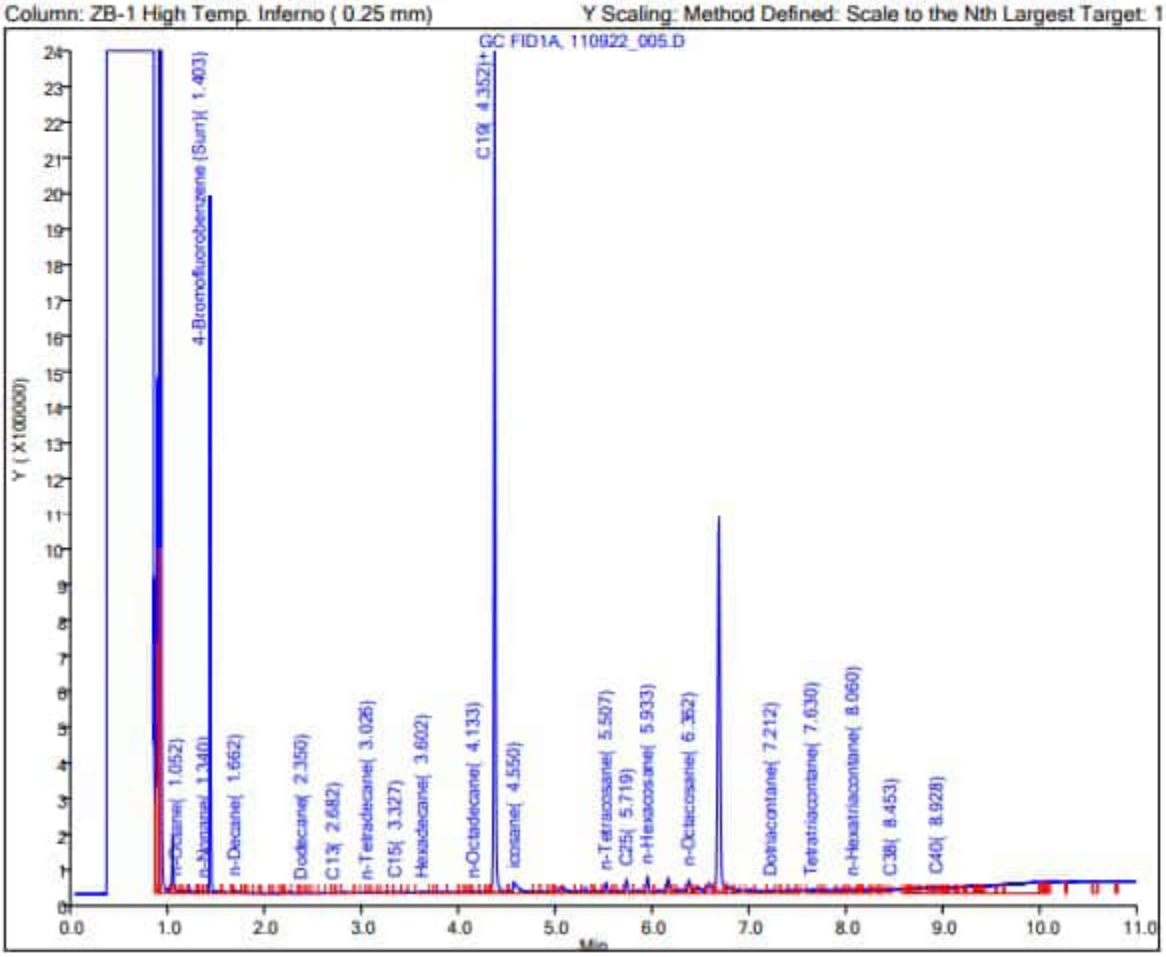
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-119745-1

Sample ID: OWDFMW04A-WGFD02LF-2210WK5, OWDFMW04A-WGN02LF-2210WK5, OWDFMW05A-WGN02LF-2210WK5, OWDFMW07A-WGN02LF-2210WK5, OWDFMW08A-WGFD02LF-2210WK5, OWDFMW08A-WGN02LF-2210WK5

Sample Date: 11/4/22

Lab: Eurofins Seattle

Report Date: 11-Nov-2022 16:00:31 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A007.D

Injection Date: 10-Nov-2022 19:29:44 Instrument ID: TAC129_R

Lims ID: MB 580-409506/1-A

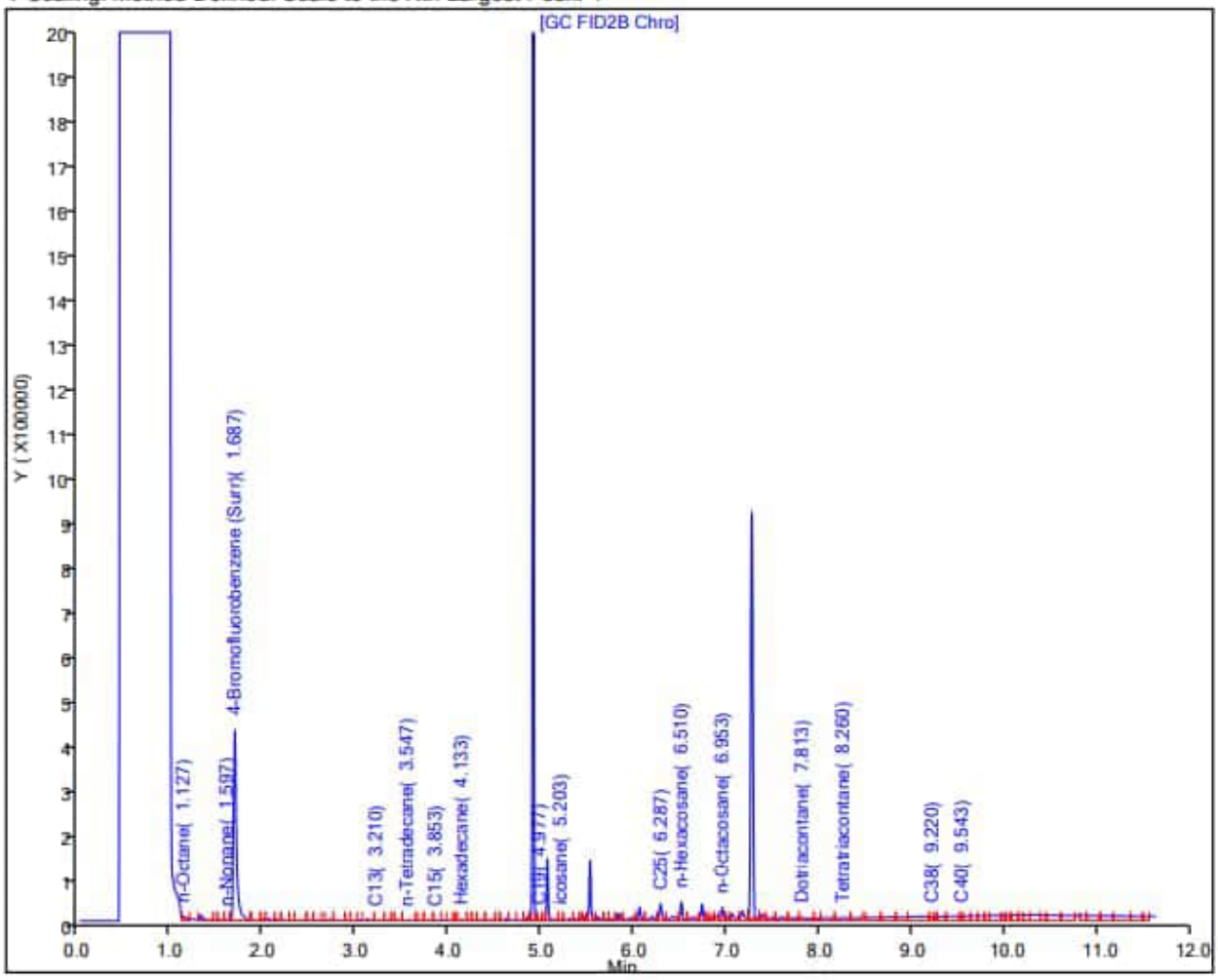
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 32

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119733-1

Sample ID: RHMW01R-WGN02B-2210WK5, RHMW02-WGN02B-2210WK5, RHMW03-WGN02B-2210WK5, RHMW05-WGN02B-2210WK5, RHMW15-05-WGN02G-2210WK5

Sample Date: 11/3/22

Lab: Eurofins Seattle

Report Date: 11-Nov-2022 16:00:31 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221110-85726.b\1110a22A007.D

Injection Date: 10-Nov-2022 19:29:44 Instrument ID: TAC129_R

Lims ID: MB 580-409506/1-A

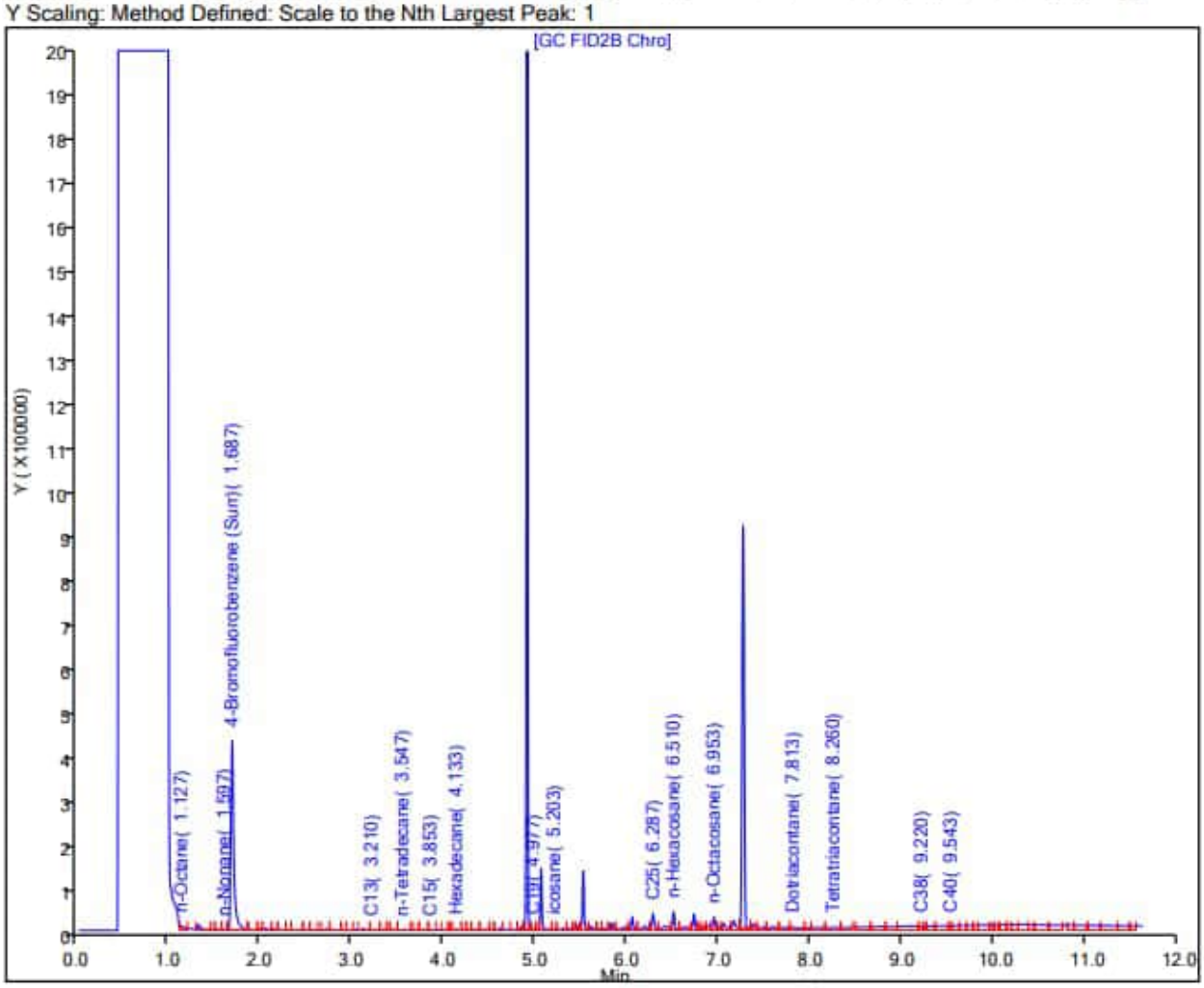
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 32

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119804-1

Sample ID: RHMW09-WGN01B-2211WK1, RHMW12A-WGN01LF-2211WK1, RHMW13-05-WGN01G-2211WK1, RHMW14-03-WGN01G-2211WK1, RHMW16-WGN01LF-2211WK1, RHMW19-WGN01B-2211WK1

Sample Date: 11/7/22

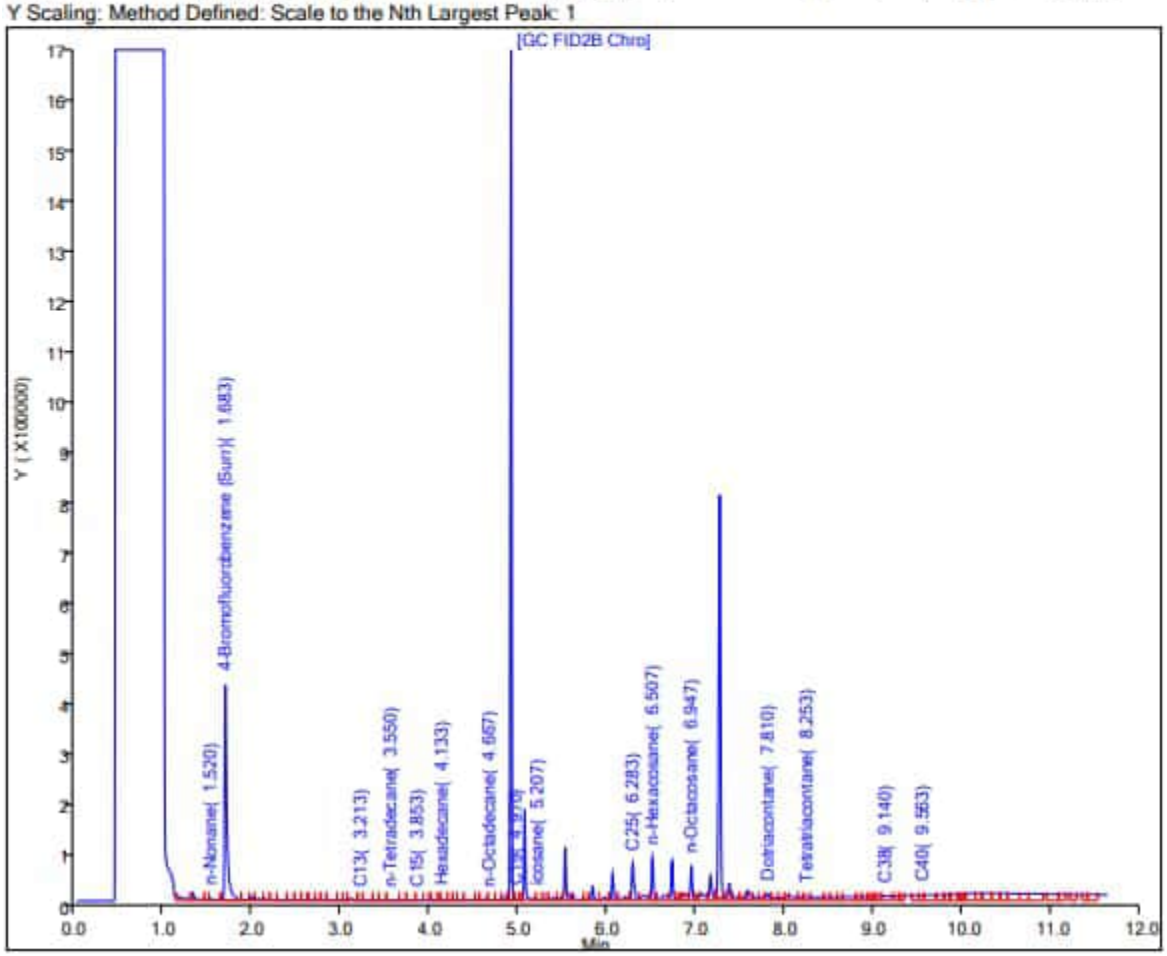
Lab: Eurofins Seattle

Report Date: 14-Nov-2022 13:31:18 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221111-85756.b\111222A007.D				
Injection Date:	12-Nov-2022 00:22:59	Instrument ID:	TAC129_R		
Lims ID:	MB 580-409650/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	14
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-119919-1

Sample ID: OWDFMW04A-WGFD01LF-2211WK1, OWDFMW04A-WGN01LF-2211WK1, OWDFMW05A-WGN01LF-2211WK1, OWDFMW08A-WGFD01LF-2211WK1, OWDFMW08A-WGN01LF-2211WK1, RHMW15-05-WGN01G-2211WK1

Sample Date: 11/8/22

Lab: Eurofins Seattle

Report Date: 15-Nov-2022 19:14:54 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221115-85802.b\1114aa22A007.D

Injection Date: 14-Nov-2022 23:38:37 Instrument ID: TAC129_R

Lims ID: MB 580-409847/1-A

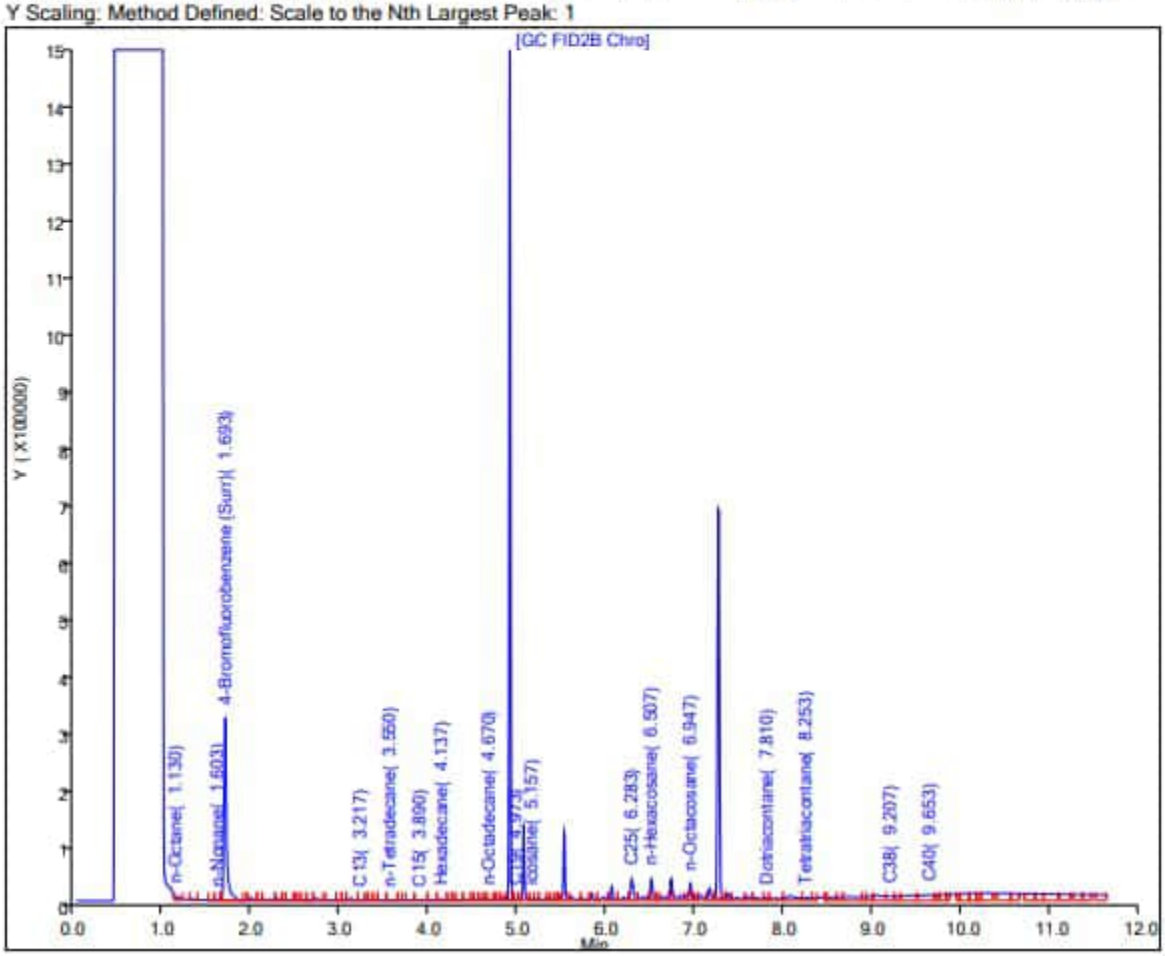
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120006-1

Sample ID: OWDFMW01-WGN02LF-2211WK1, OWDFMW04A-WGFD02LF-2211WK1, OWDFMW04A-WGN02LF-2211WK1, OWDFMW05A-WGN02LF-2211WK1, OWDFMW07A-WGN02LF-2211WK1, OWDFMW08A-WGFD02LF-2211WK1, OWDFMW08A-WGN02LF-2211WK1, RHMW11-05-WGN02G-2211WK1, RHMW13-05-WGN02G-2211WK1

Sample Date: 11/11/22

Lab: Eurofins Seattle

Report Date: 16-Nov-2022 12:10:51 Chrom Revision: 2.3 08-Nov-2022 12:31:00

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221115-85807.b\091522A007.D

Injection Date: 16-Nov-2022 00:20:08 Instrument ID: TAC129_R

Lims ID: MB 580-409977/1-A

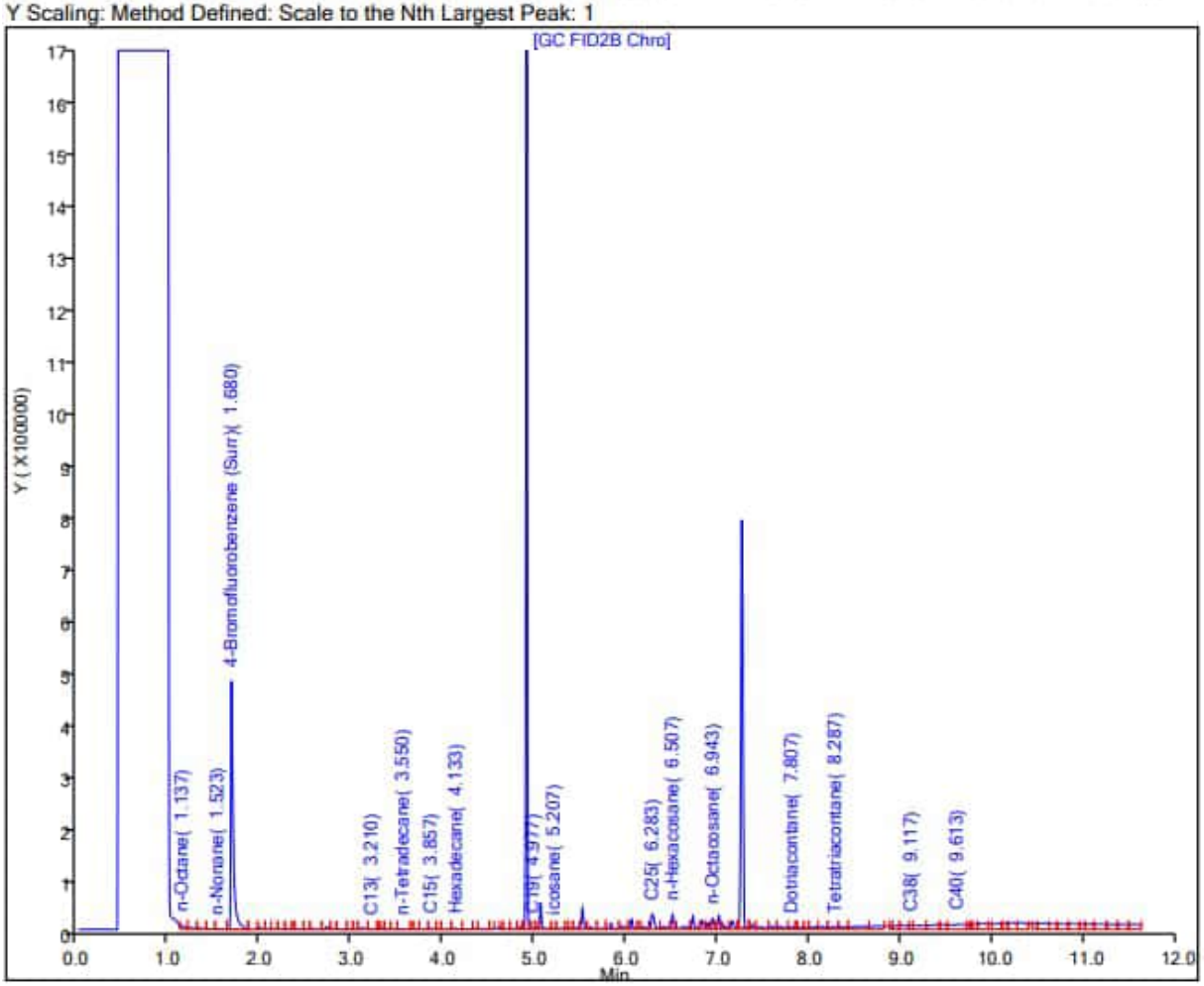
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 31

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120022-1

Sample ID: OWDFMW04A-WGFD01LF-2211WK2, OWDFMW04A-WGN01LF-2211WK2, OWDFMW05A-WGN01LF-2211WK2, OWDFMW07A-WGN01LF-2211WK2, RHMW04-WGFD01B-2211WK2, RHMW04-WGN01B-2211WK2, RHMW08-WGN01B-2211WK2, RHMW13-05-WGN01G-2211WK2

Sample Date: 11/14/22

Lab: Eurofins Seattle

Report Date: 23-Nov-2022 12:53:44 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221122-85931.b\1122ab22A030.D

Injection Date: 22-Nov-2022 21:03:56 Instrument ID: TAC129

Lims ID: MB 580-410756/1-A

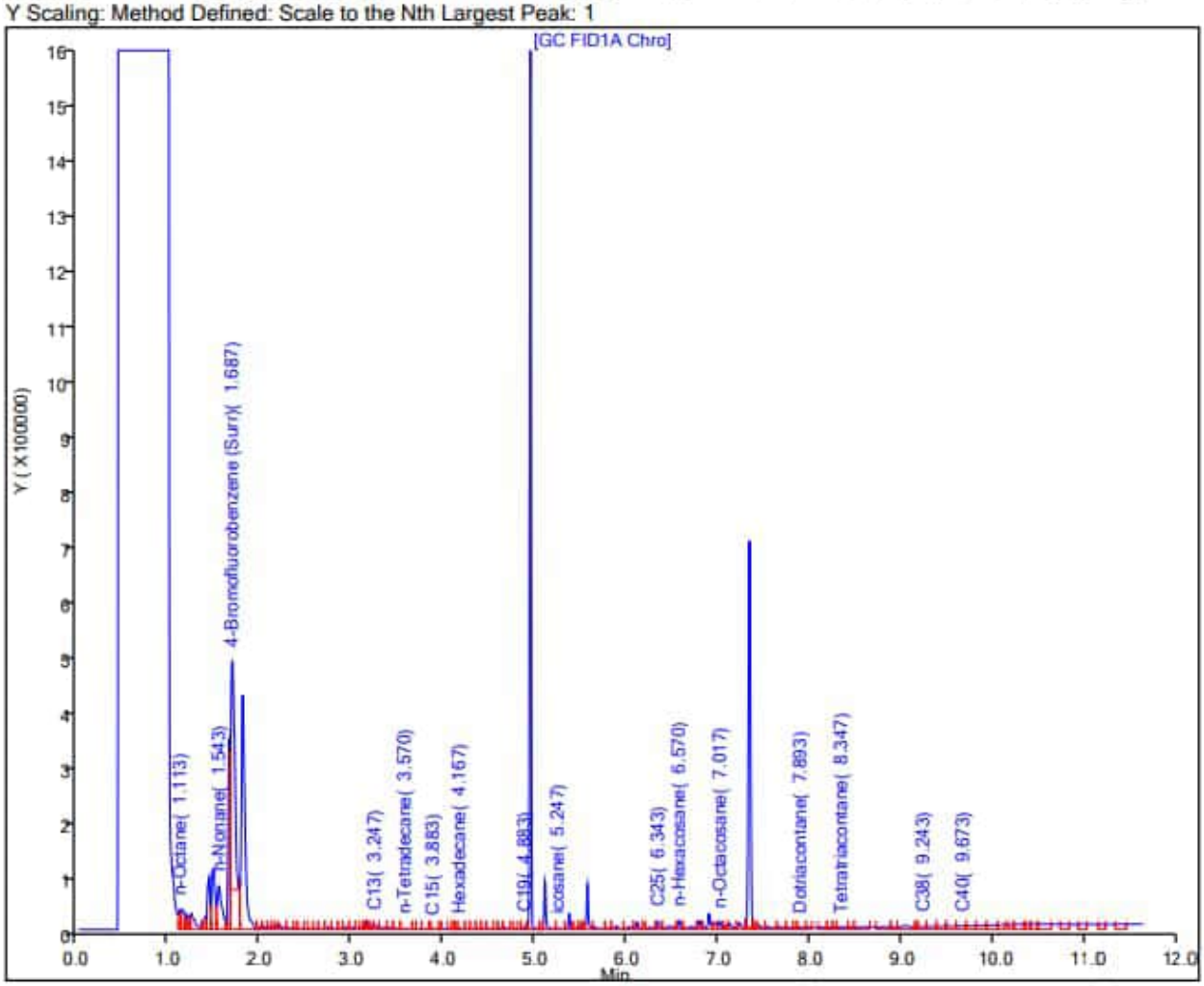
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 40

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120090-1

Sample ID: OWDFMW08A-WGFD01LF-2211WK2, OWDFMW08A-WGN01LF-2211WK2, RHMW06-WGN01B-2211WK2, RHMW09-WGN01B-2211WK2, RHMW19-WGN01B-2211WK2

Sample Date: 11/14/22

Lab: Eurofins Seattle

Report Date: 18-Nov-2022 12:04:07 Chrom Revision: 2.3 25-Oct-2022 11:16:06

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221117-85861.b\1117A22_044.D

Injection Date: 18-Nov-2022 10:03:30 Instrument ID: TAC020

Lims ID: MB 580-410361/1-A

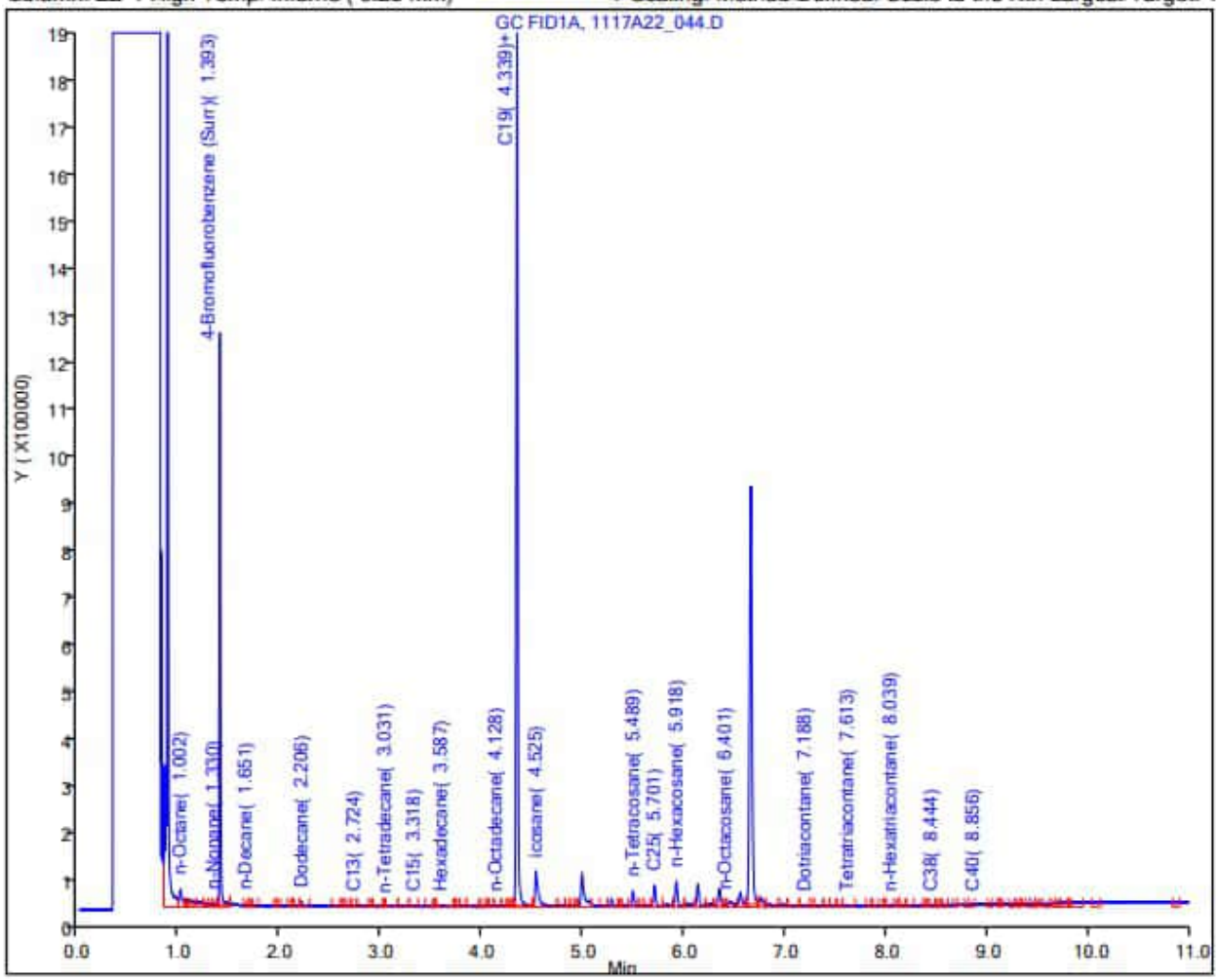
Client ID:

Operator ID: DH/CC ALS Bottle#: 43 Worklist Smp#: 46

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-120243-1

Sample ID: RHMW15-05-WGN02G-2211WK2, RHMW17-WGN02B-2211WK2, OWDFMW01-WGN02LF-2211WK2, OWDFMW04A-WGFD02LF-2211WK2, OWDFMW04A-WGN02LF-2211WK2, OWDFMW05A-WGN02LF-2211WK2, OWDFMW07A-WGN02LF-2211WK2, RHMW11-05-WGN02G-2211WK2

Sample Date: 11/17/22, 11/18/22

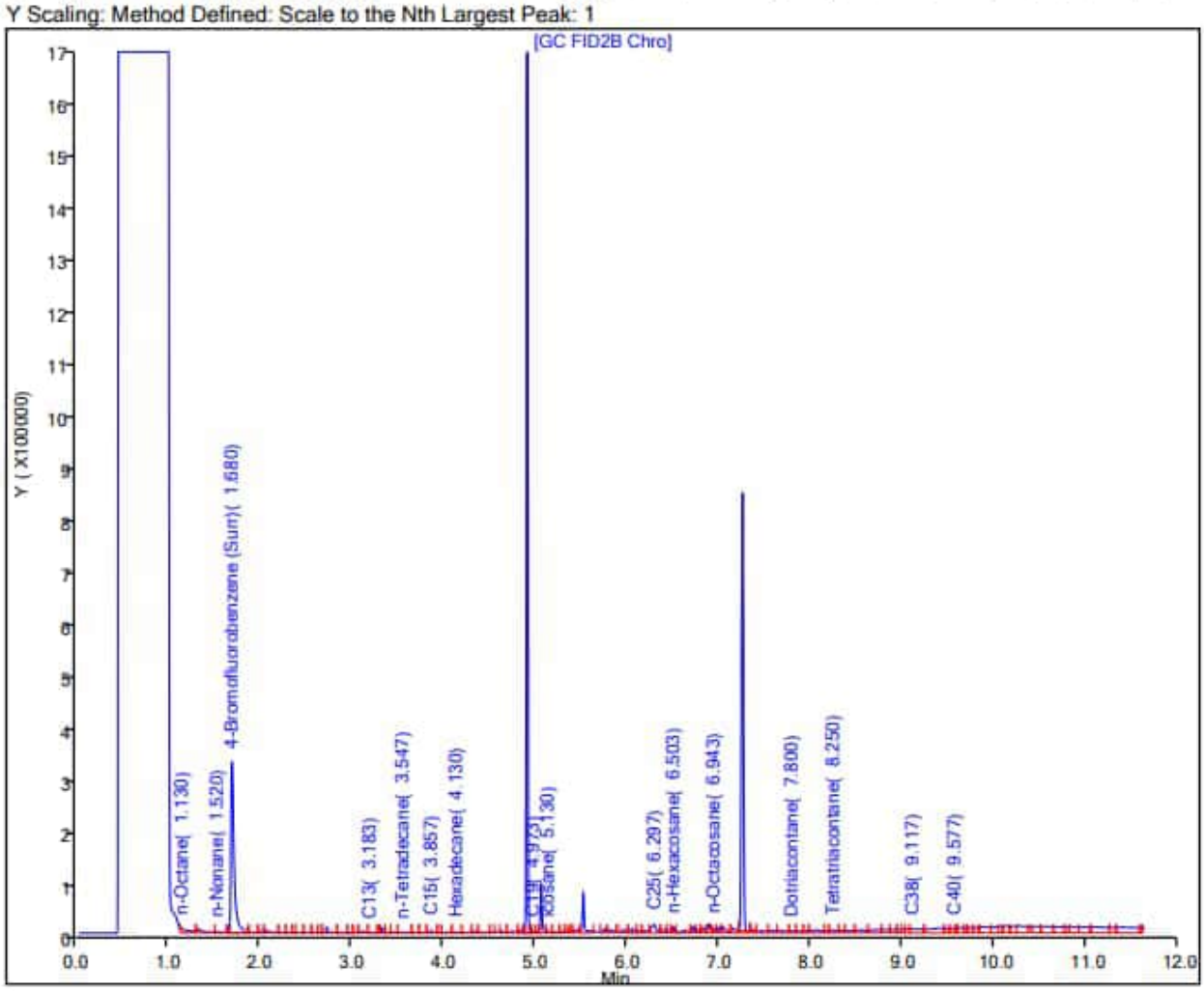
Lab: Eurofins Seattle

Report Date: 29-Nov-2022 13:23:26 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A007.D		
Injection Date:	28-Nov-2022 17:06:50	Instrument ID:	TAC129_R
Lims ID:	MB 580-410898/1-A		
Client ID:			
Operator ID:	DH	ALS Bottle#:	0 Worklist Smp#: 4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120344-1

Sample ID: RHMW04-WGFD01B-2211WK3, RHMW04-WGN01B-2211WK3, RHMW16-WGN01LF-2211WK3, RHMW09-WGN02B-2211WK3, RHMW11-05-WGN01G-2211WK3, RHMW14-03-WGN01G-2211WK3, RHMW19-WGN02B-2211WK3

Sample Date: 11/19/22, 11/21/22

Lab: Eurofins Seattle

Report Date: 30-Nov-2022 12:17:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A008.D

Injection Date: 29-Nov-2022 19:00:52 Instrument ID: TAC129

Lims ID: MB 580-411114/1-A

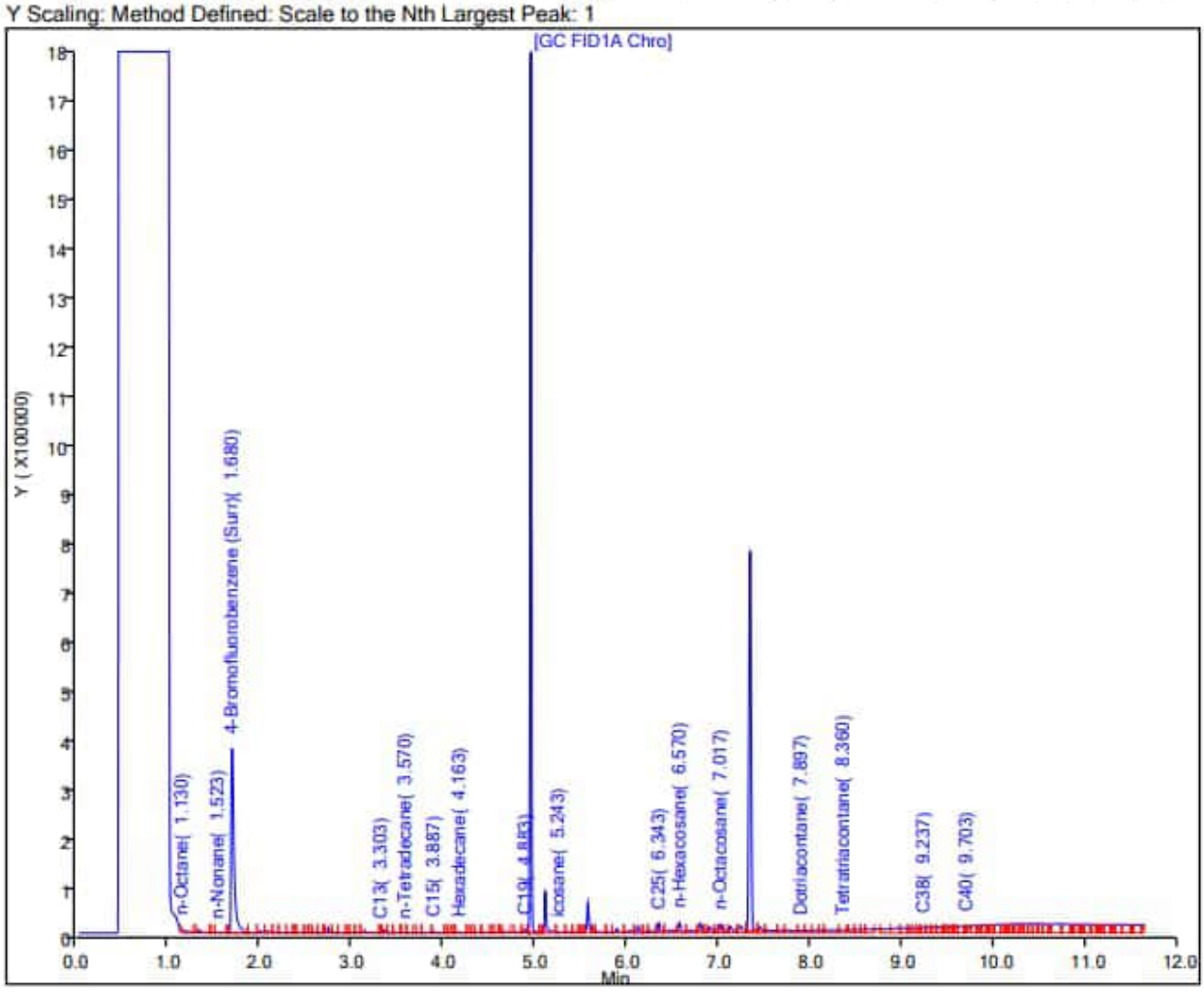
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 51

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120311-1

Sample ID: RHMW06-WGN01B-2211WK3, RHMW08-WGN01B-2211WK3, RHMW19-WGN01B-2211WK3, ADIT3-SUMP-WGN01B-2211WK3, OWDFMW01-WGN01LF-2211WK3, OWDFMW07A-WGN01LF-2211WK3

Sample Date: 11/19/22

Lab: Eurofins Seattle

Report Date: 29-Nov-2022 13:23:26 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221128-85983.b\1128AA22A007.D

Injection Date: 28-Nov-2022 17:06:50 Instrument ID: TAC129_R

Lims ID: MB 580-410898/1-A

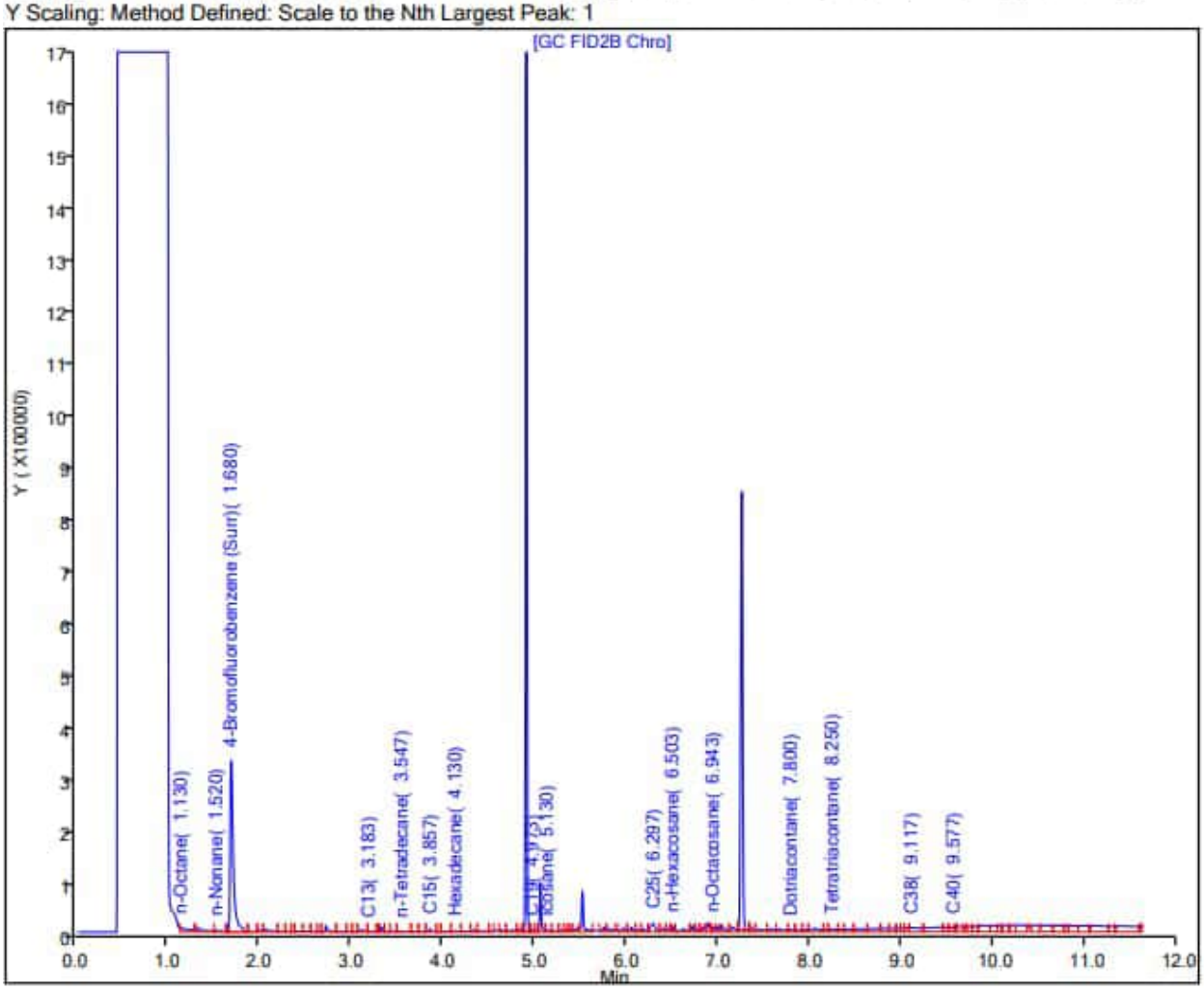
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120389-1

Sample ID: OWDFMW04A-WGFD01LF-2211WK3, OWDFMW04A-WGN01LF-2211WK3, OWDFMW05A-WGN01LF-2211WK3, RHMW04-WGFD02B-2211WK3, RHMW04-WGN02B-2211WK3, RHMW06-WGN02B-2211WK3, RHMW08-WGN02B-2211WK3

Sample Date: 11/21/22

Lab: Eurofins Seattle

Report Date: 30-Nov-2022 12:17:52 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129\20221129-86012.b\112922A008.D

Injection Date: 29-Nov-2022 19:00:52 Instrument ID: TAC129

Lims ID: MB 580-411114/1-A

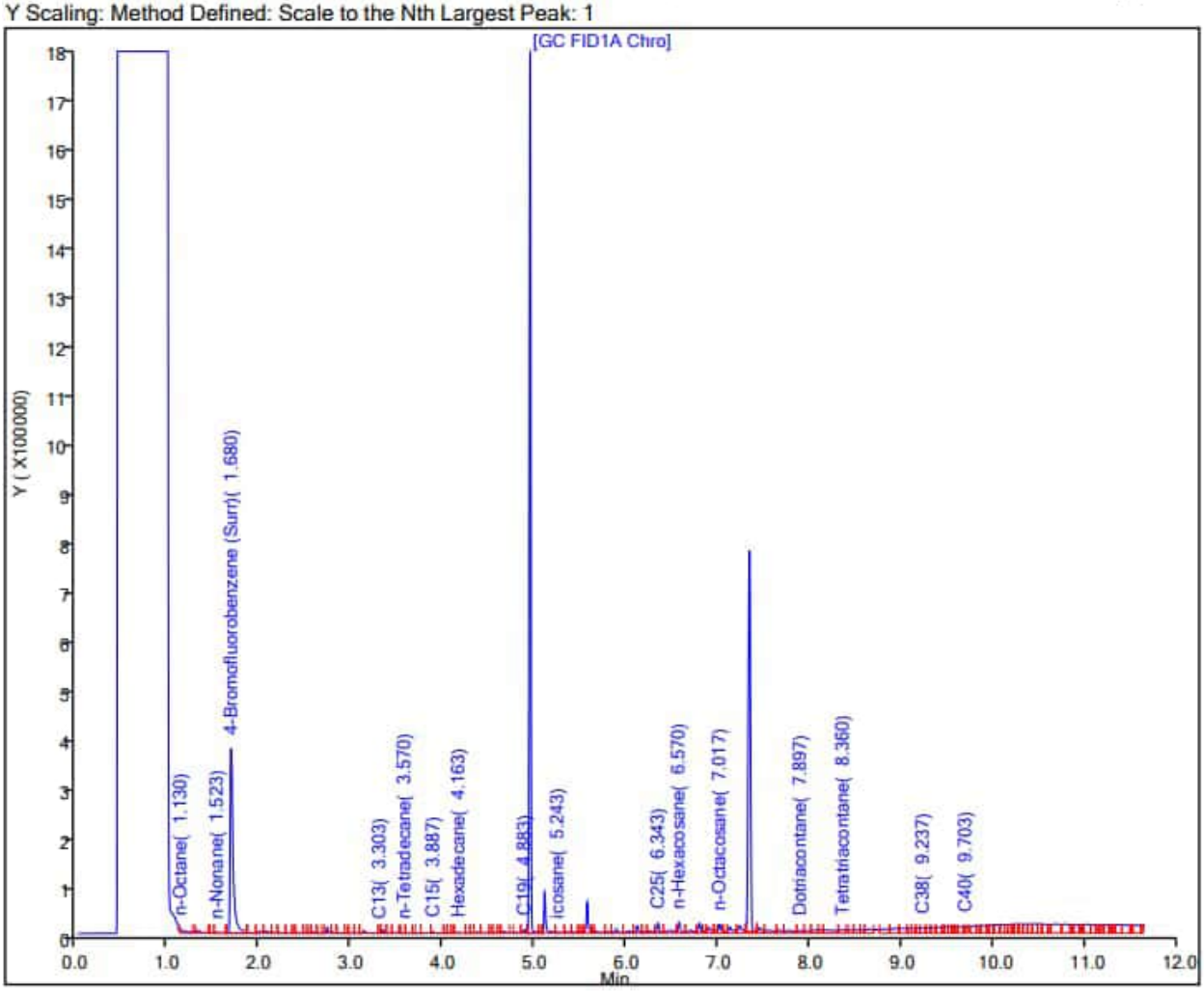
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 51

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Front Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120410-1

Sample ID: ADIT3-SUMP-WGN02B-2211WK3, RHMW01R-WGN02B-2211WK3, RHMW02-WGN02B-2211WK3, RHMW05-WGN02B-2211WK3, RHMW12A-WGN02LF-2211WK3, RHMW13-05-WGN02G-2211WK3

Sample Date: 11/22/22

Lab: Eurofins Seattle

Report Date: 30-Nov-2022 12:31:55 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A007.D

Injection Date: 29-Nov-2022 19:00:52 Instrument ID: TAC129_R

Lims ID: MB 580-411246/1-A

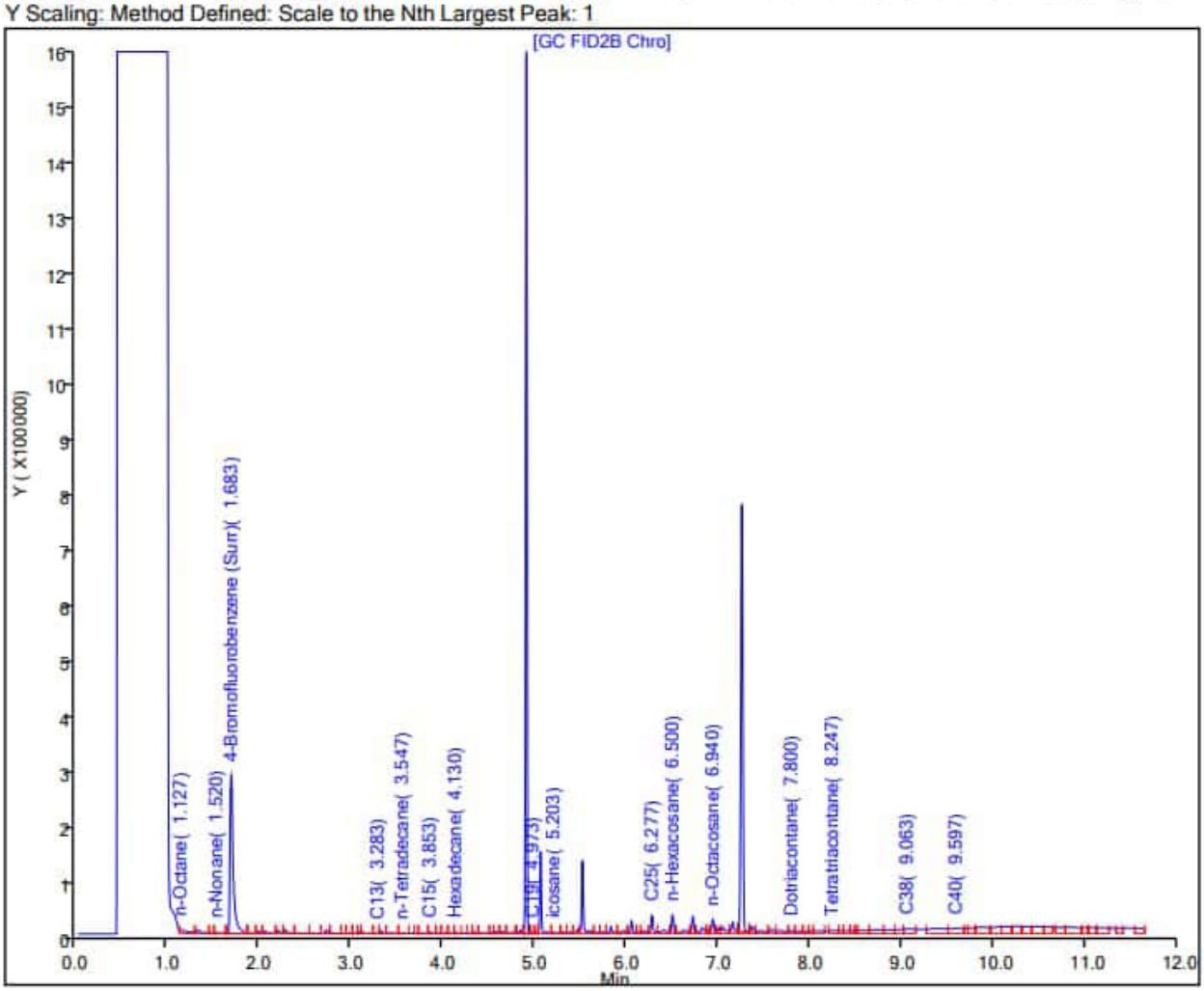
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 50

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120405-2 and 580-120405-1

Sample ID: NMW24-WGN01B-2211WK3, RHMW03-WGN02B-2211WK3, RHMW15-05-WGN02G-2211WK3, RHMW16-WGN02LF-2211WK3, RHMW17-WGN02B-2211WK3, RHMW2254-01-WGN02B-2211WK3, RHMW2254-01-WGN02LF-2211WK3

Sample Date: 11/22/22

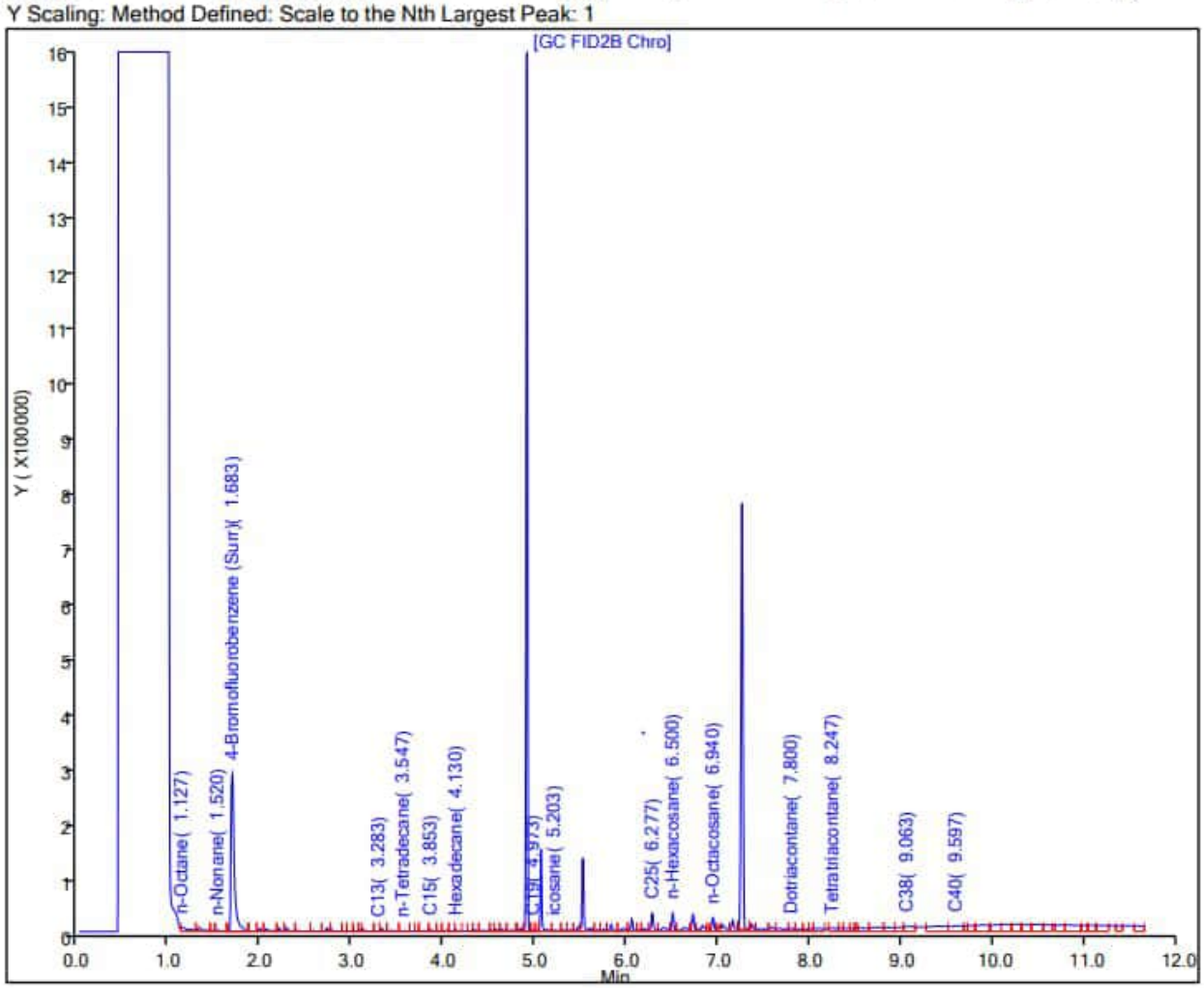
Lab: Eurofins Seattle

Report Date: 30-Nov-2022 12:31:55 Chrom Revision: 2.3 22-Nov-2022 16:59:54

Eurofins Seattle

Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221129-86013.b\112922A007.D				
Injection Date:	29-Nov-2022 19:00:52	Instrument ID:	TAC129_R		
Lims ID:	MB 580-411246/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	50
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120490-1

Sample ID: OWDFMW07A-WGN01LF-2211WK4, OWDFMW08A-WGFD01LF-2211WK4, OWDFMW08A-WGN01LF-2211WK4, RHMW15-05-WGN01G-2211WK4

Sample Date: 11/28/22

Lab: Eurofins Seattle

Report Date: 05-Dec-2022 20:26:56 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC020\20221205-86109.b\120522_009.D

Injection Date: 05-Dec-2022 15:25:30 Instrument ID: TAC020

Lims ID: MB 580-411544/1-A

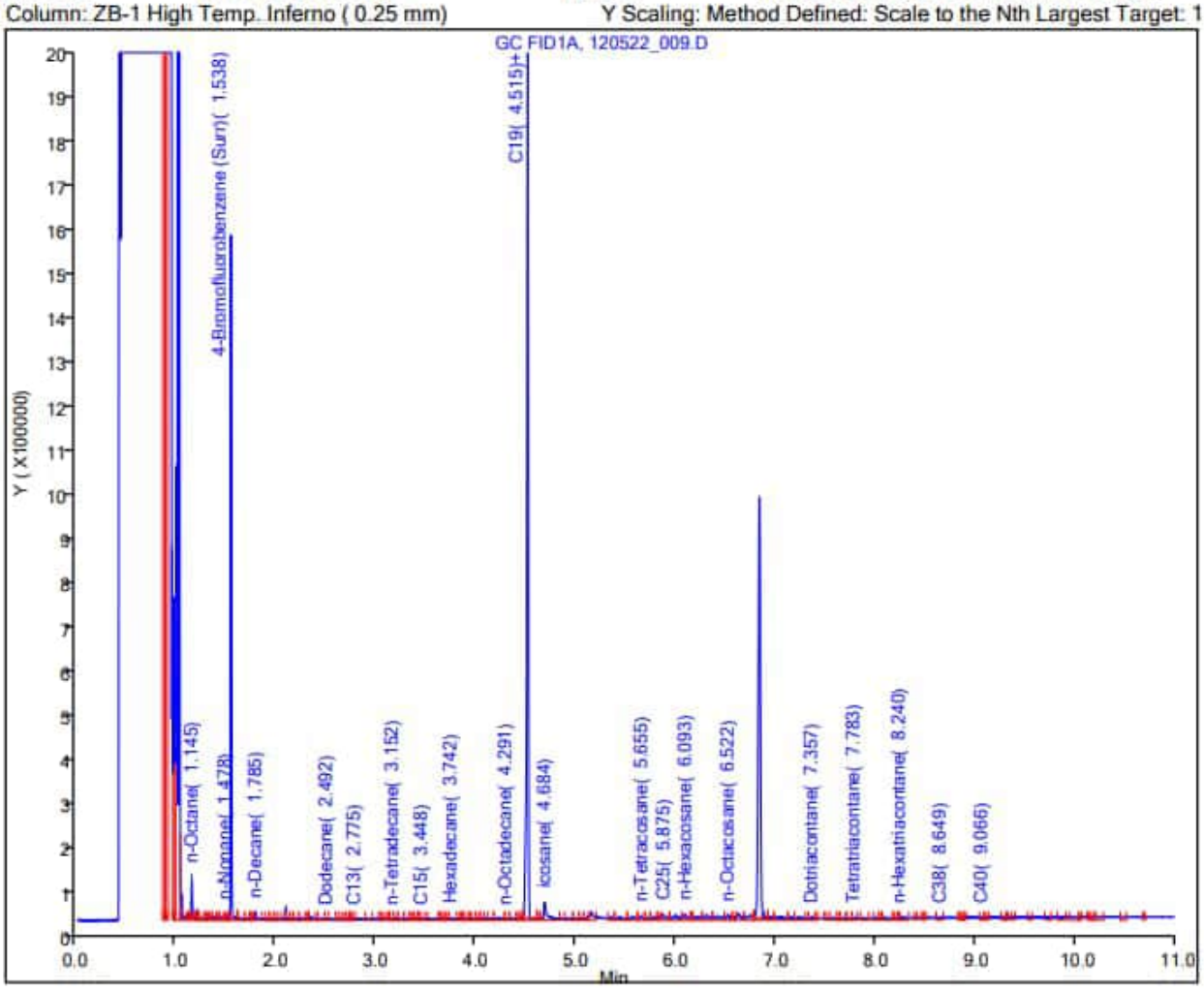
Client ID:

Operator ID: DH ALS Bottle#: 4 Worklist Smp#: 4

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-Front_TAC020 Limit Group: 8015B-D DRO ICAL CA and HW ranges

Column: ZB-1 High Temp. Inferno (0.25 mm) Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



Method Blank Associated with SDG 580-120678-1

Sample ID: RHMW02-WGN02B-2211WK4, RHMW03-WGN02B-2211WK4, RHMW11-05-WGN02G-2211WK4, RHMW12A-WGN02LF-2211WK4

Sample Date: 11/30/22, 12/1/22

Lab: Eurofins Seattle

Report Date: 07-Dec-2022 12:58:26 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

Data File: \\chromfs\Seattle\ChromData\TAC129_R\20221206-86139.b\120622A027.D

Injection Date: 07-Dec-2022 00:32:59 Instrument ID: TAC129_R

Lims ID: MB 580-412085/1-A

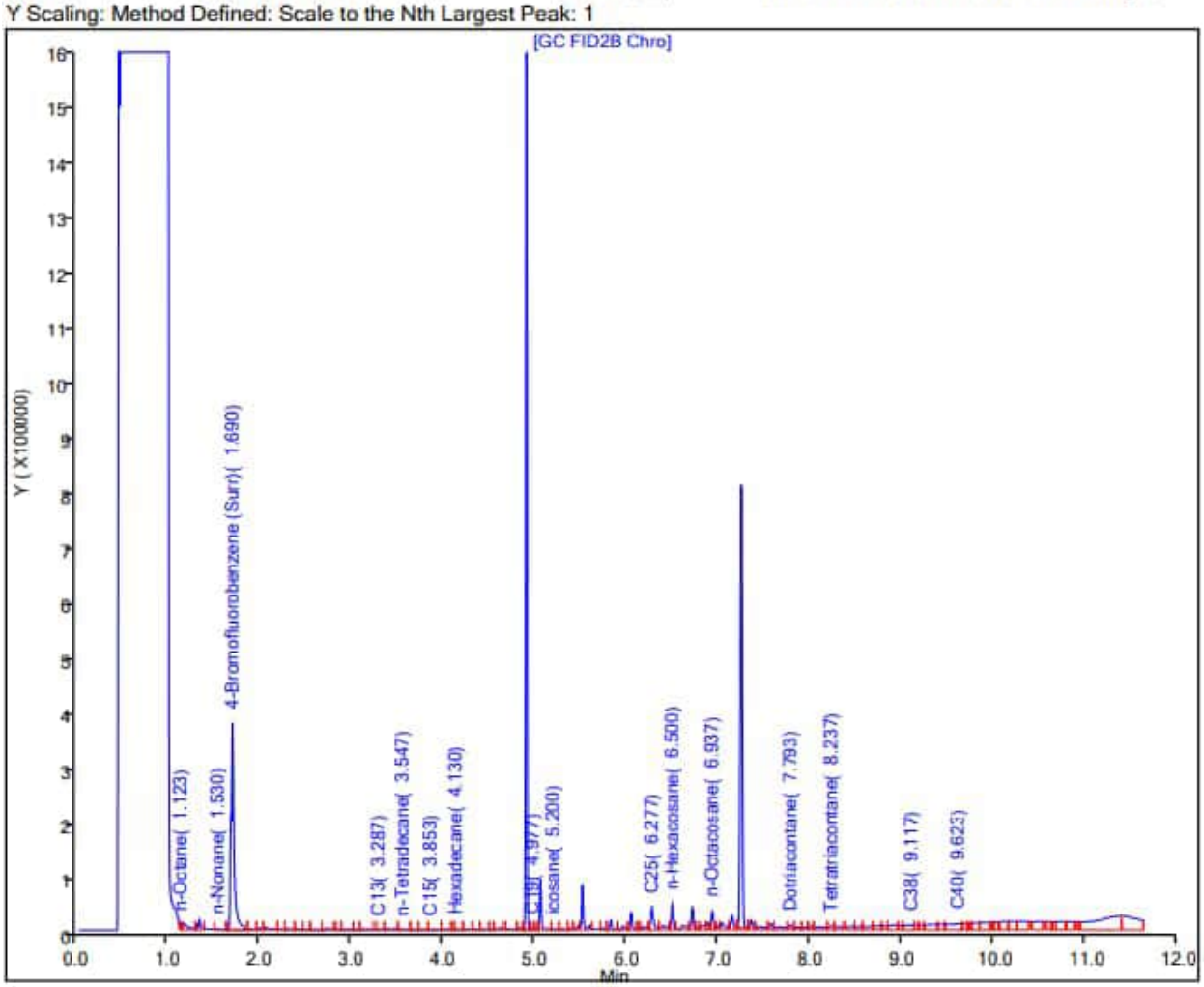
Client ID:

Operator ID: DH ALS Bottle#: 0 Worklist Smp#: 14

Injection Vol: 1.0 ul Dil. Factor: 1.0000

Method: TPH-TAC129Rear Limit Group: 8015B-D DRO ICAL CA and HW ranges

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



Method Blank Associated with SDG 580-120703-1

Sample ID: RHMW04-WGFD01B-2211WK4, RHMW04-WGN01B-2211WK4, RHMW06-WGN01B-2211WK4, RHMW08-WGN01B-2211WK4, RHMW13-05-WGN01G-2211WK4, OWDFMW04A-WGFD01LF-2211WK4, OWDFMW04A-WGN01LF-2211WK4, OWDFMW05A-WGN01LF-2211WK4, RHMW14-03-WGN01G-2211WK4

Sample Date: 11/30/22, 12/1/22

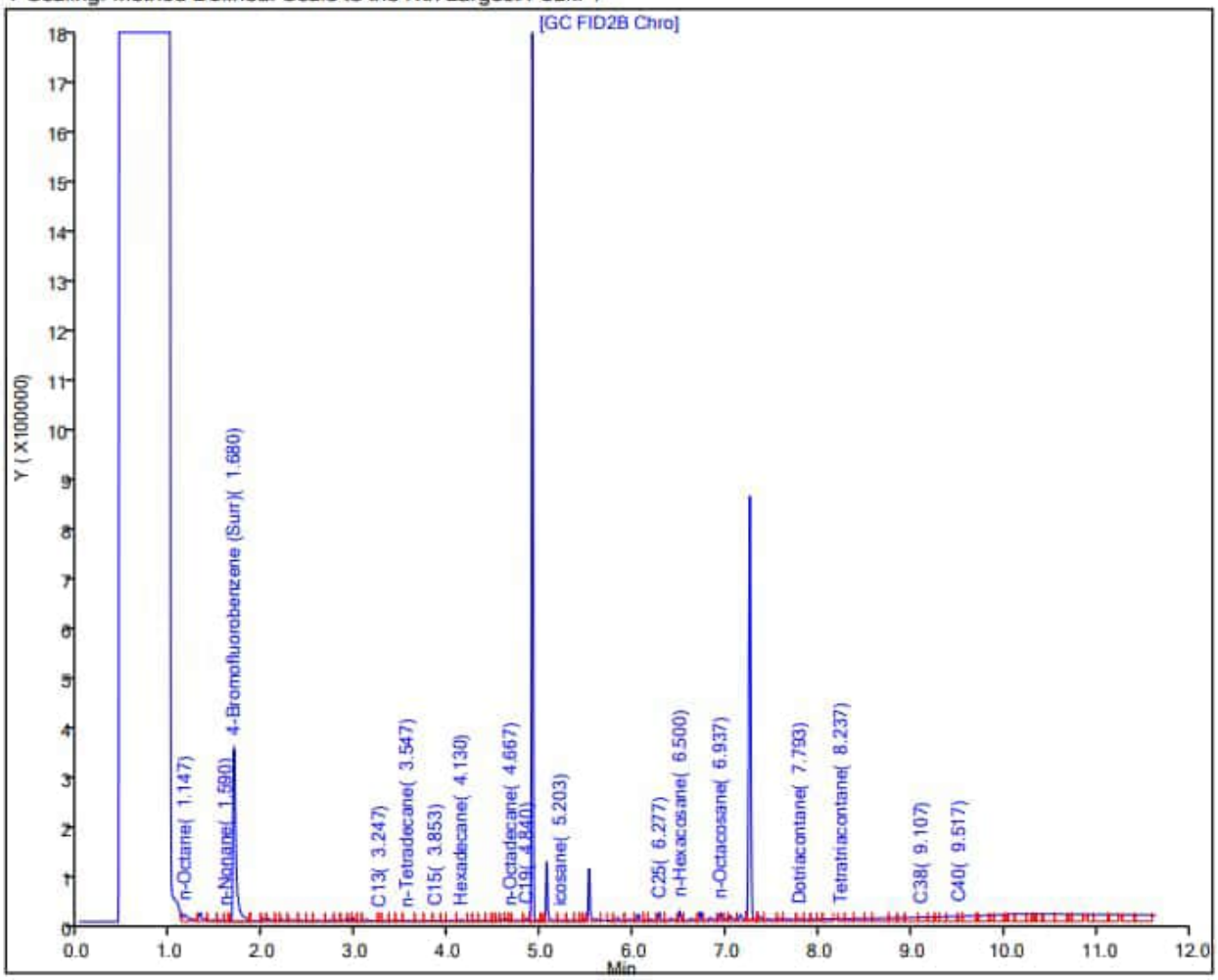
Lab: Eurofins Seattle

Report Date: 06-Dec-2022 13:58:08 Chrom Revision: 2.3 01-Dec-2022 08:01:02

Eurofins Seattle

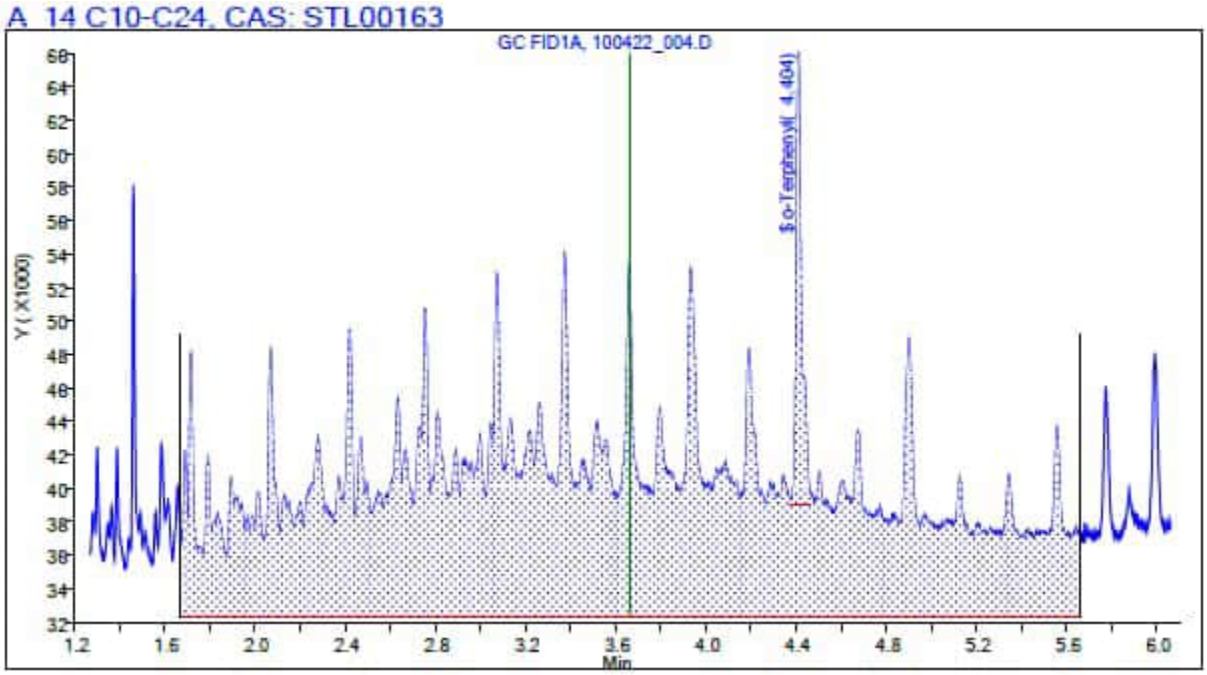
Data File:	\\chromfs\Seattle\ChromData\TAC129_R\20221205-86124.b\120522A007.D				
Injection Date:	05-Dec-2022 20:11:05	Instrument ID:	TAC129_R		
Lims ID:	MB 580-411891/1-A				
Client ID:					
Operator ID:	DH	ALS Bottle#:	0	Worklist Smp#:	4
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	TPH-TAC129Rear	Limit Group:	8015B-D DRO ICAL CA and HW ranges		

Y Scaling: Method Defined: Scale to the Nth Largest Peak: 1



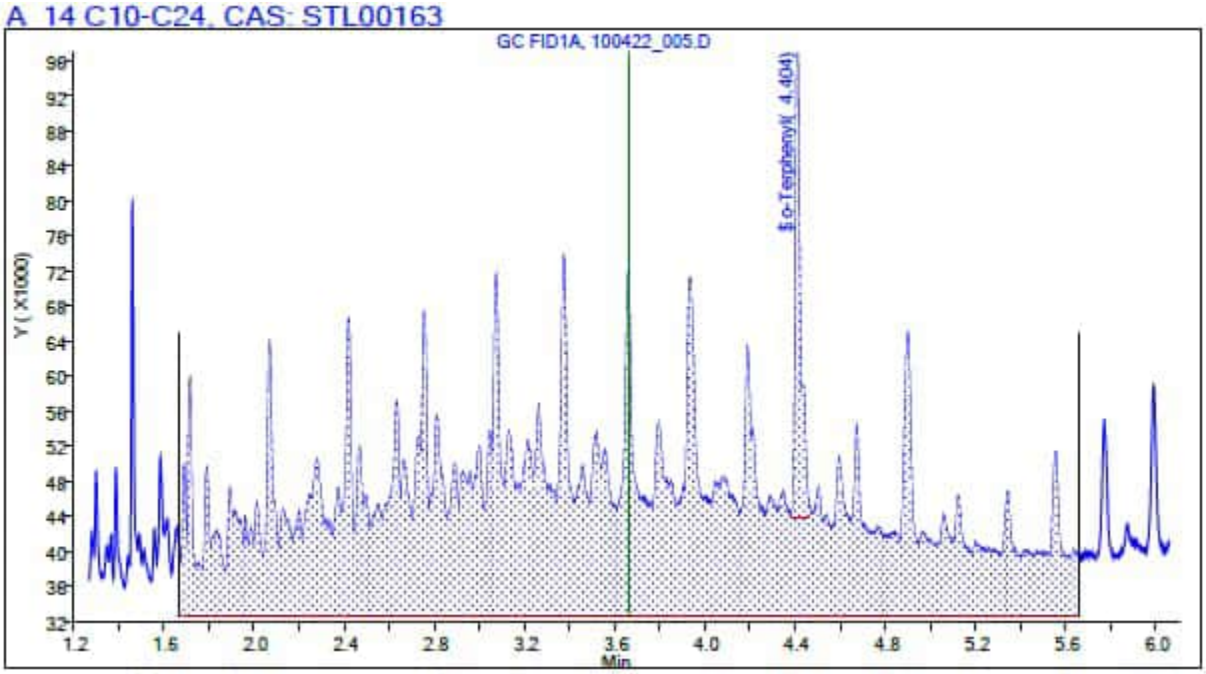
Eurofins Seattle: Initial Calibration Standard (LVL 1), TPH-d 5.00 ng/µL

10/4/22 4:35 pm, Instrument ID: TAC020, SDG: 580-120073-1



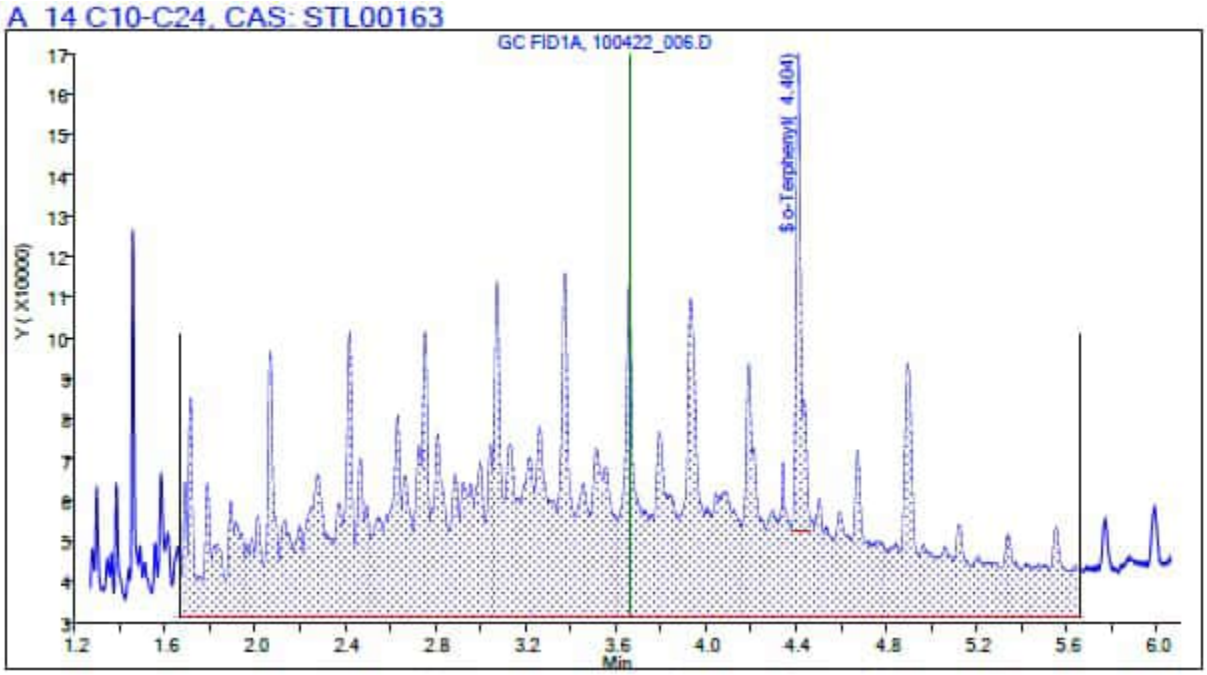
Eurofins Seattle: Initial Calibration Standard (LVL 2), TPH-d 10.0 ng/µL

10/4/22 10:17 pm, Instrument ID: TAC020, SDG: 580-120073-1



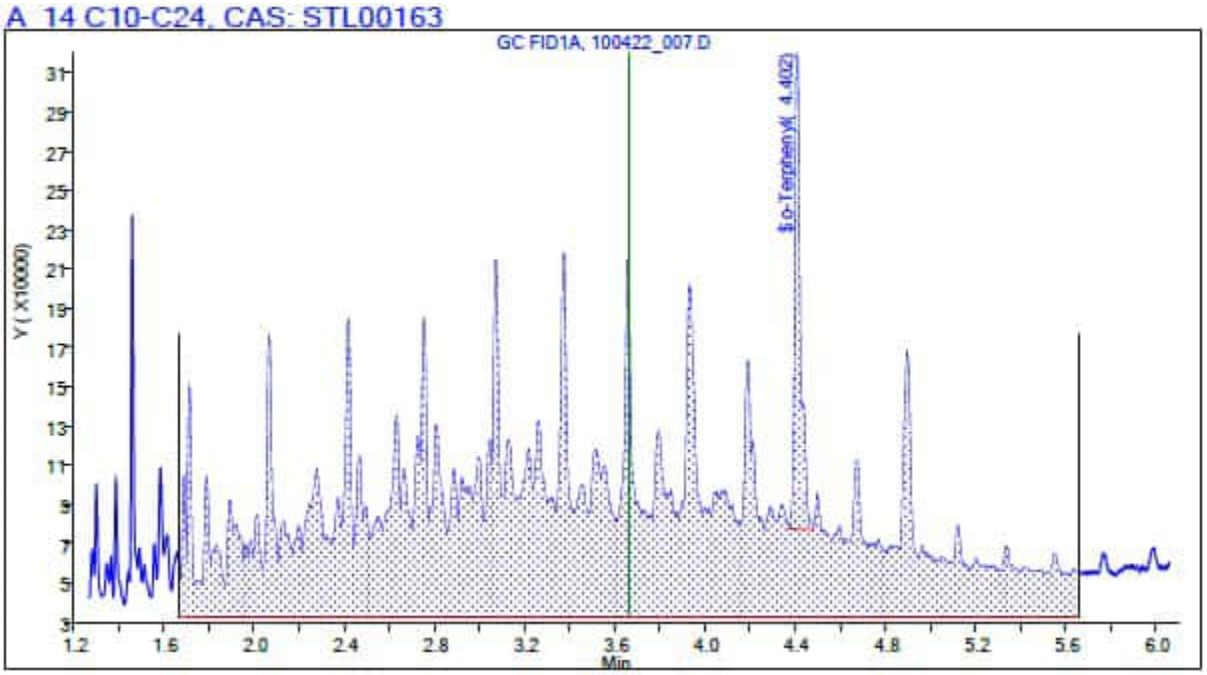
Eurofins Seattle: Initial Calibration Standard (LVL 3), TPH-d 20.0 ng/µL

10/4/22 5:15 pm, Instrument ID: TAC020, SDG: 580-120073-1



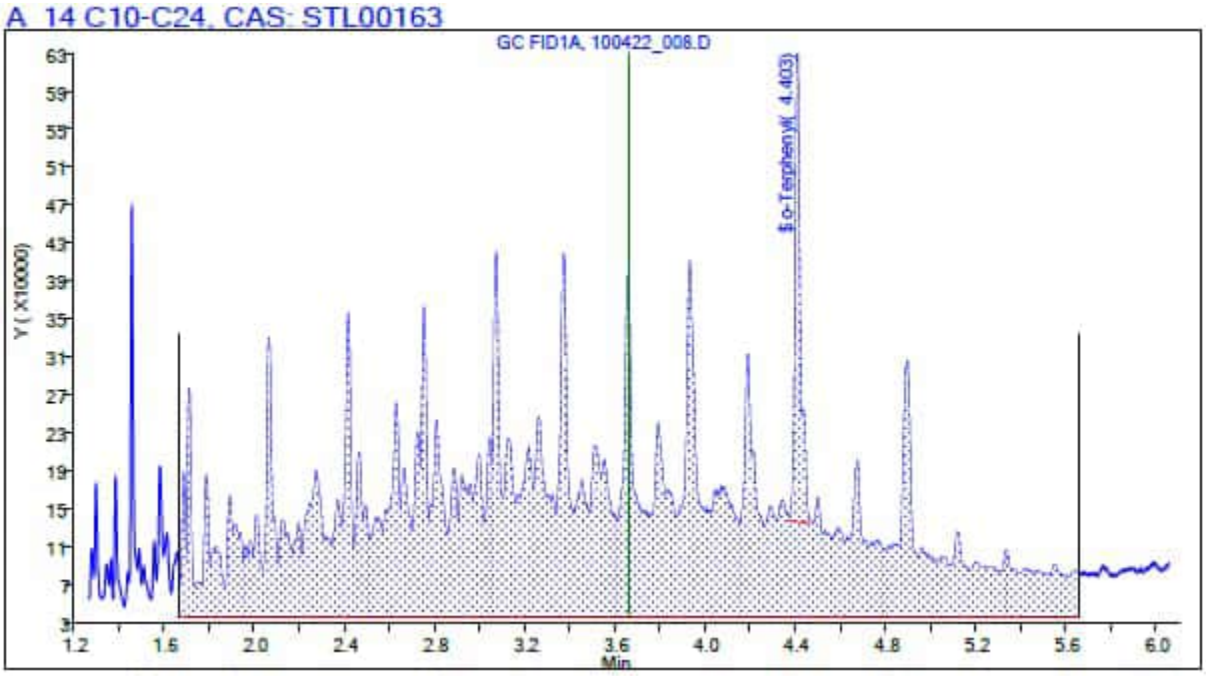
Eurofins Seattle: Initial Calibration Standard (LVL 4), TPH-d 50.0 ng/µL

10/4/22 5:35 pm, Instrument ID: TAC020, SDG: 580-120073-1



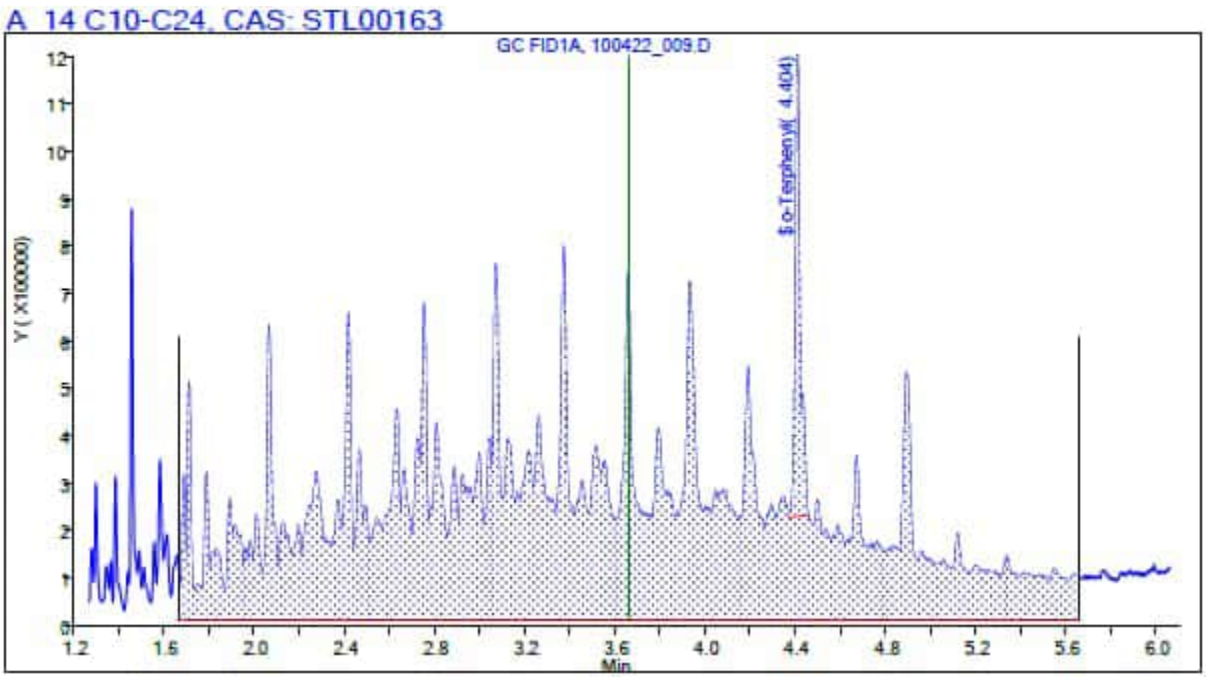
Eurofins Seattle: Initial Calibration Standard (LVL 5), TPH-d 100.0 ng/µL

10/4/22 5:55 pm, Instrument ID: TAC020, SDG: 580-120073-1



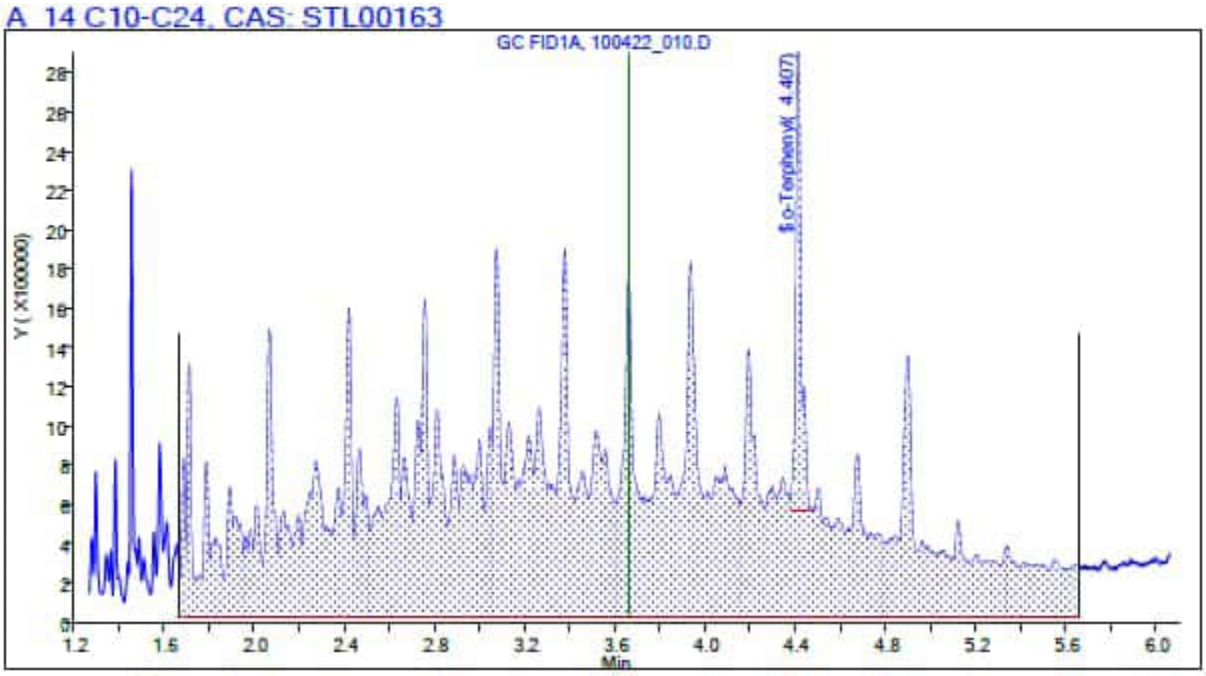
Eurofins Seattle: Initial Calibration Standard (LVL 6), TPH-d 200.0 ng/µL

10/4/22 6:15 pm, Instrument ID: TAC020, SDG: 580-120073-1



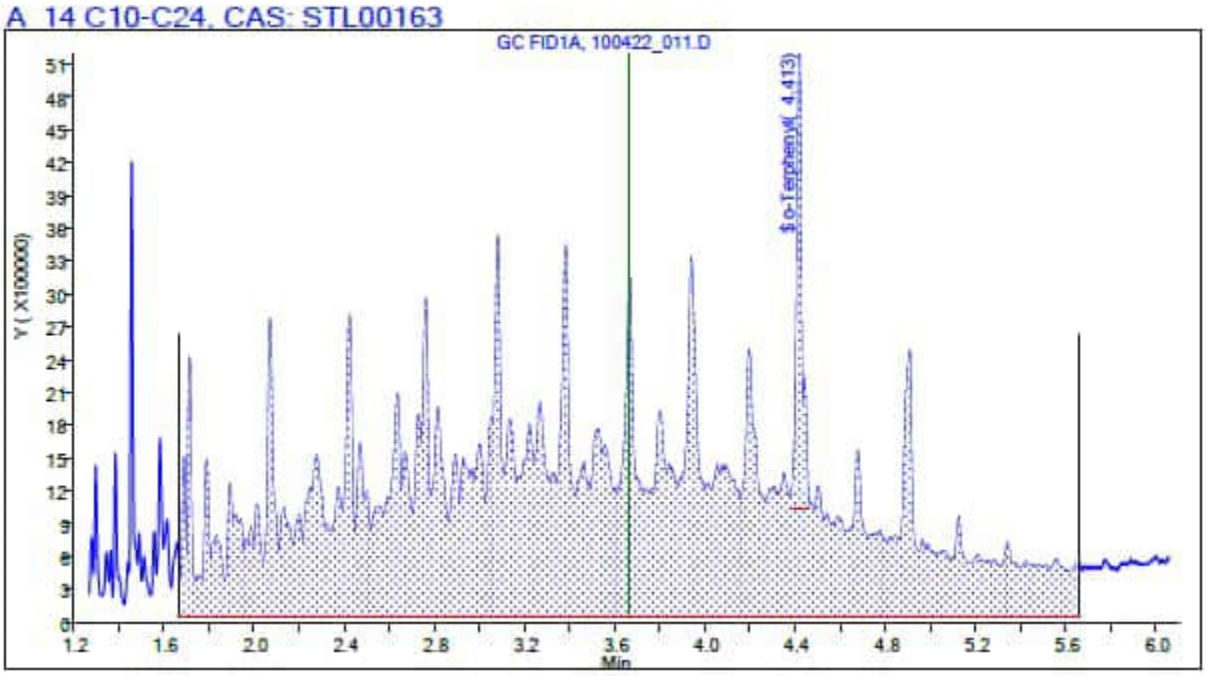
Eurofins Seattle: Initial Calibration Standard (LVL 7), TPH-d 500.0 ng/µL

10/4/22 6:36 pm, Instrument ID: TAC020, SDG: 580-120073-1



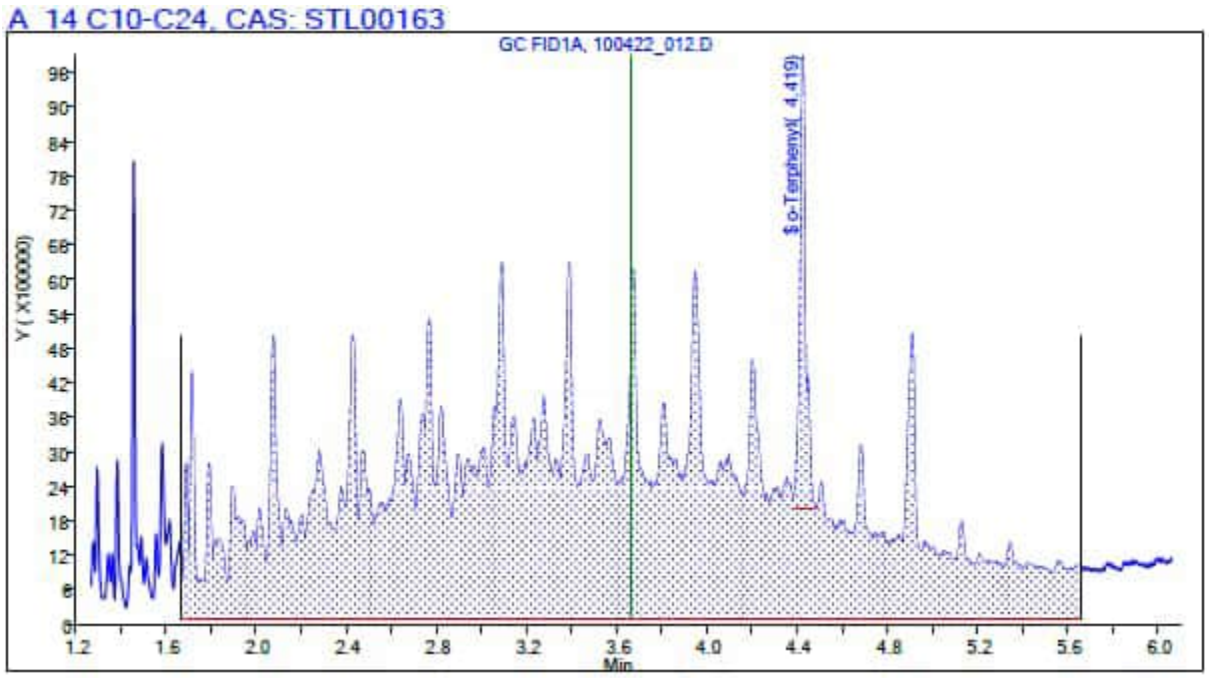
Eurofins Seattle: Initial Calibration Standard (LVL 8), TPH-d 1000.0 ng/µL

10/4/22 6:56 pm, Instrument ID: TAC020, SDG: 580-120073-1



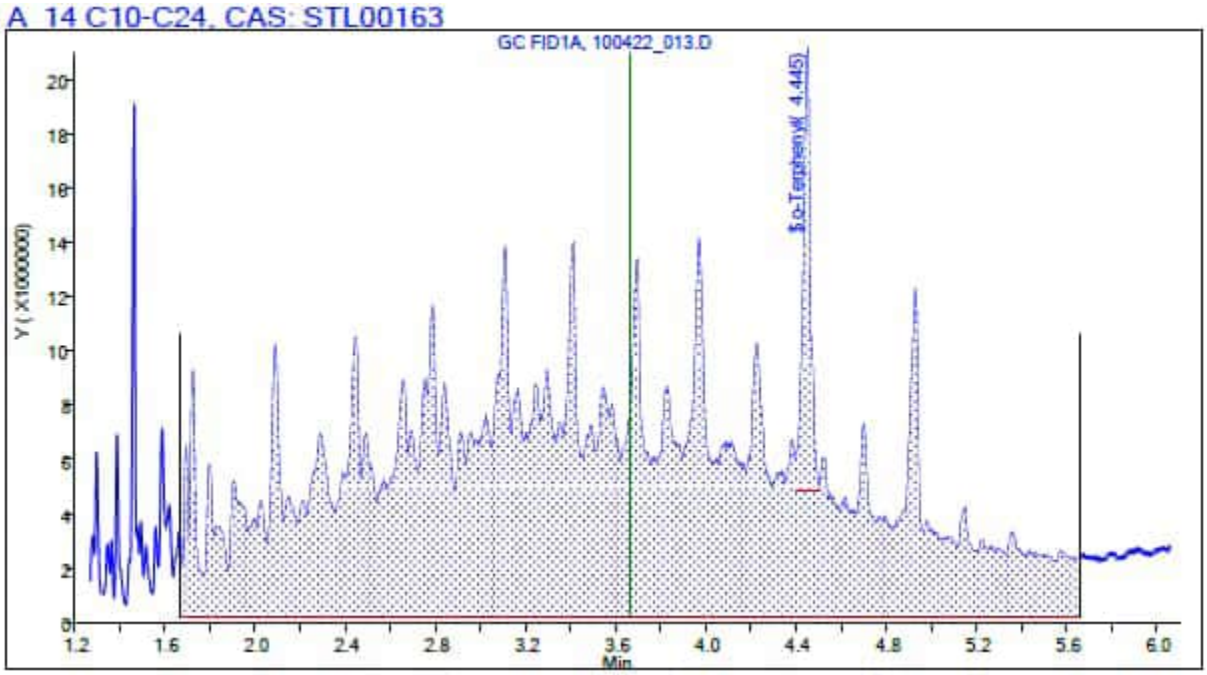
Eurofins Seattle: Initial Calibration Standard (LVL 9), TPH-d 2000.0 ng/µL

10/4/22 7:16 pm, Instrument ID: TAC020, SDG: 580-120073-1



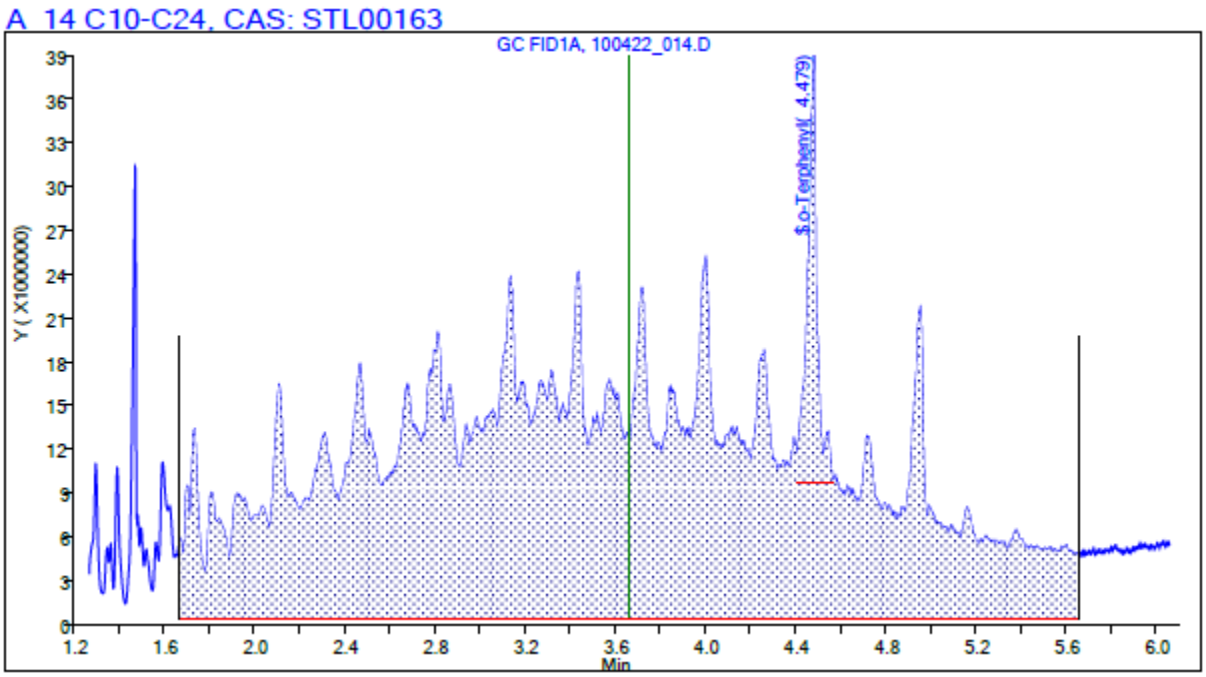
Eurofins Seattle: Initial Calibration Standard (LVL 10), TPH-d 5000.0 ng/µL

10/4/22 7:36 pm, Instrument ID: TAC020, SDG: 580-120073-1



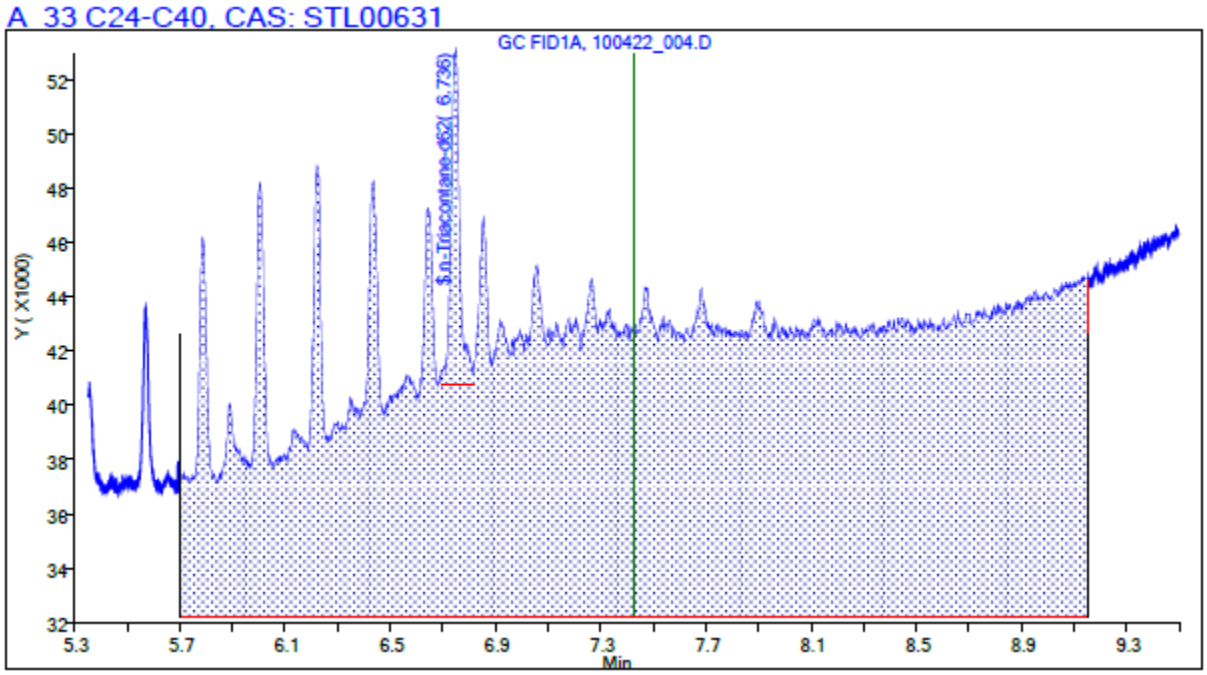
Eurofins Seattle: Initial Calibration Standard (LVL 11), TPH-d 10,000 ng/µL

10/4/22 7:56 pm, Instrument ID: TAC020, SDG: 580-120073-1



Eurofins Seattle: Initial Calibration Standard (LVL 1), TPH-o 5.00 ng/µL

10/4/22 4:35 pm, Instrument ID: TAC020, SDG: 580-120073-1



Eurofins Seattle: Initial Calibration Standard (LVL 2), TPH-o 10.0 ng/µL

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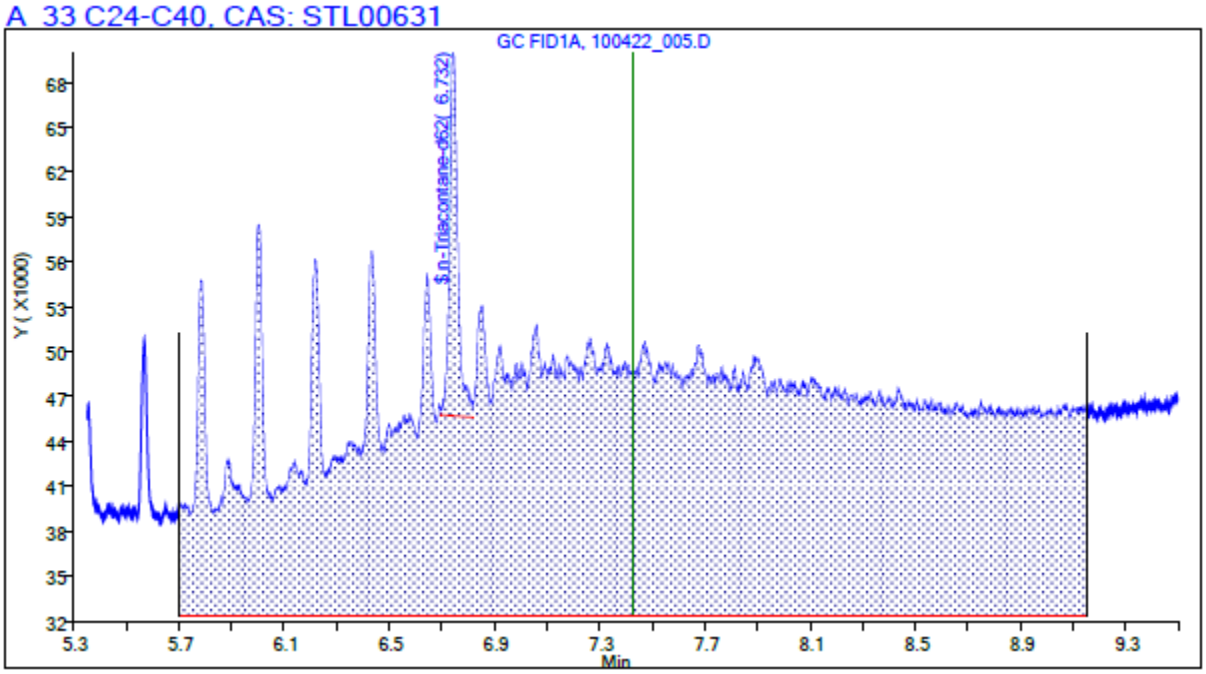
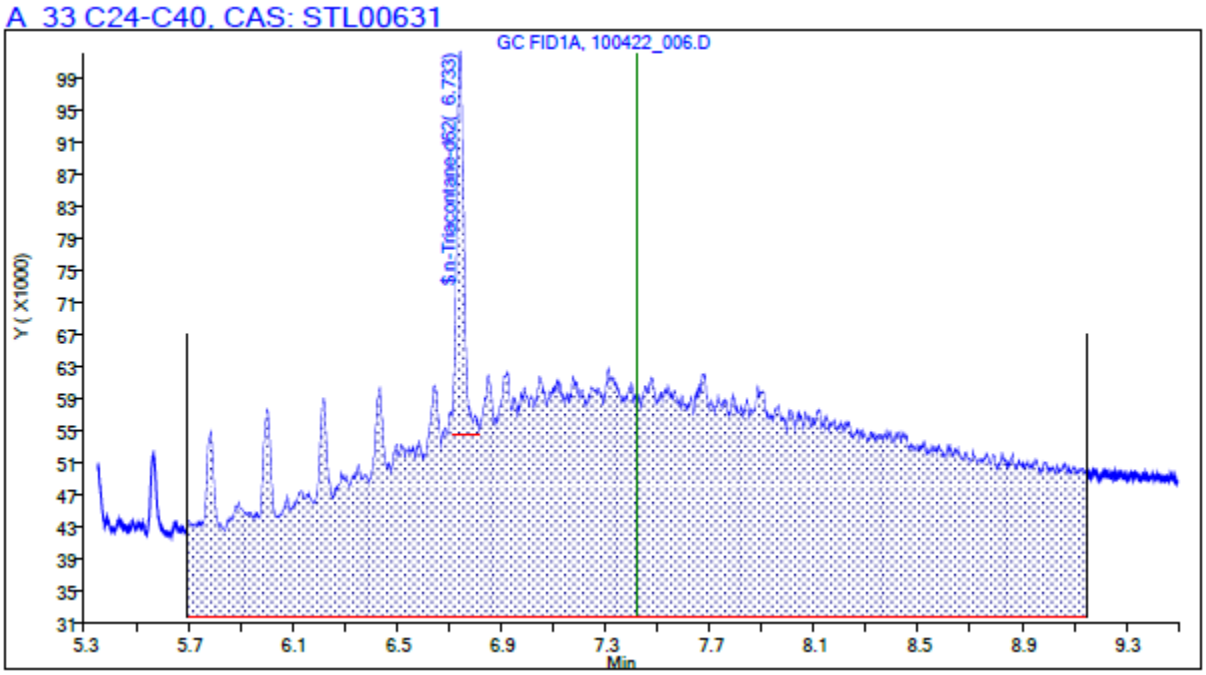


Eurofins Seattle: Initial Calibration Standard (LVL 3), TPH-o 20.0 ng/µL

10/4/22 5:15 pm, Instrument ID: TAC020, SDG: 580-120073-1



Eurofins Seattle: Initial Calibration Standard (LVL 4), TPH-o 50.0 ng/µL

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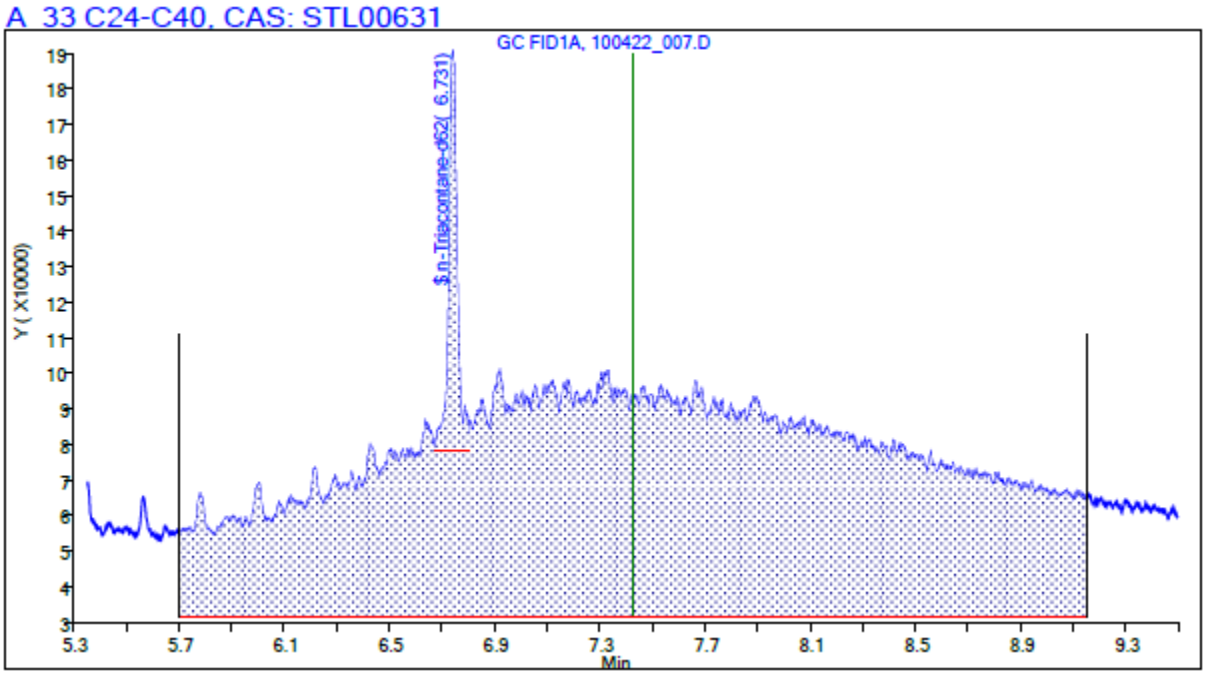
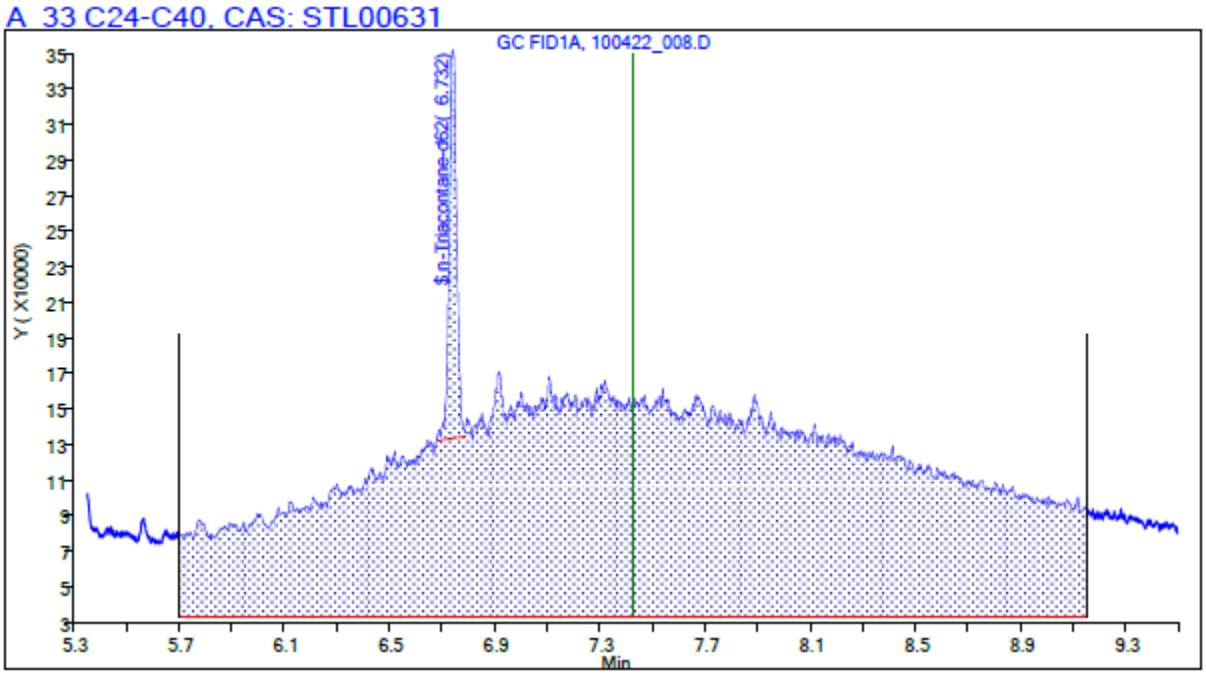


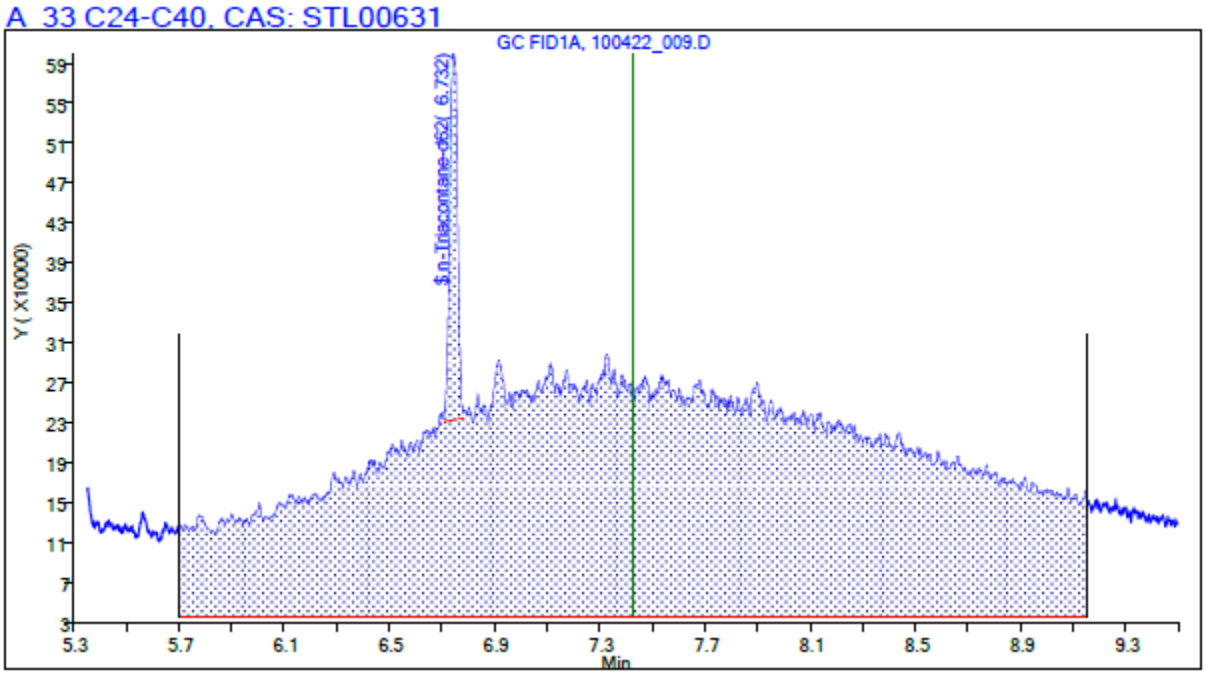
Eurofins Seattle: Initial Calibration Standard (LVL 5), TPH-o 100.0 ng/µL

10/4/22 5:55 pm, Instrument ID: TAC020, SDG: 580-120073-1



Eurofins Seattle: Initial Calibration Standard (LVL 6), TPH-o 200.0 ng/µL

10/4/22 6:15 pm, Instrument ID: TAC020, SDG: 580-120073-1



Eurofins Seattle: Initial Calibration Standard (LVL 7), TPH-o 500.0 ng/µL

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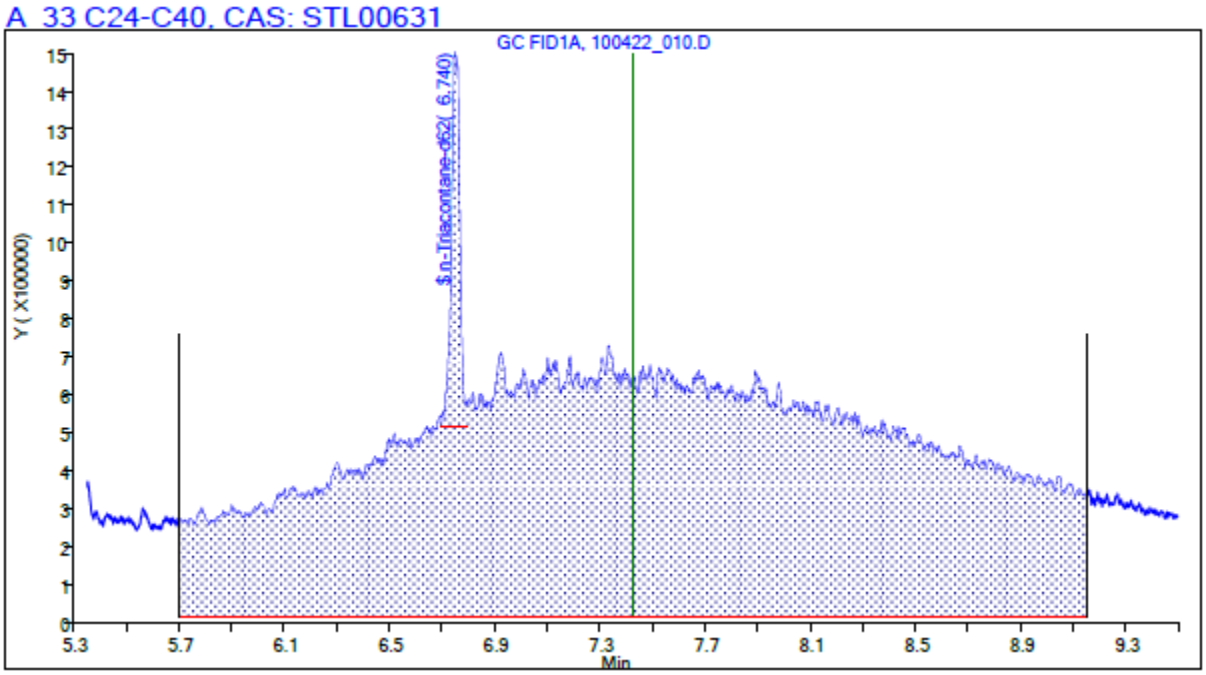

Eurofins Seattle: Initial Calibration Standard (LVL 8), TPH-o 1000.0 ng/µL

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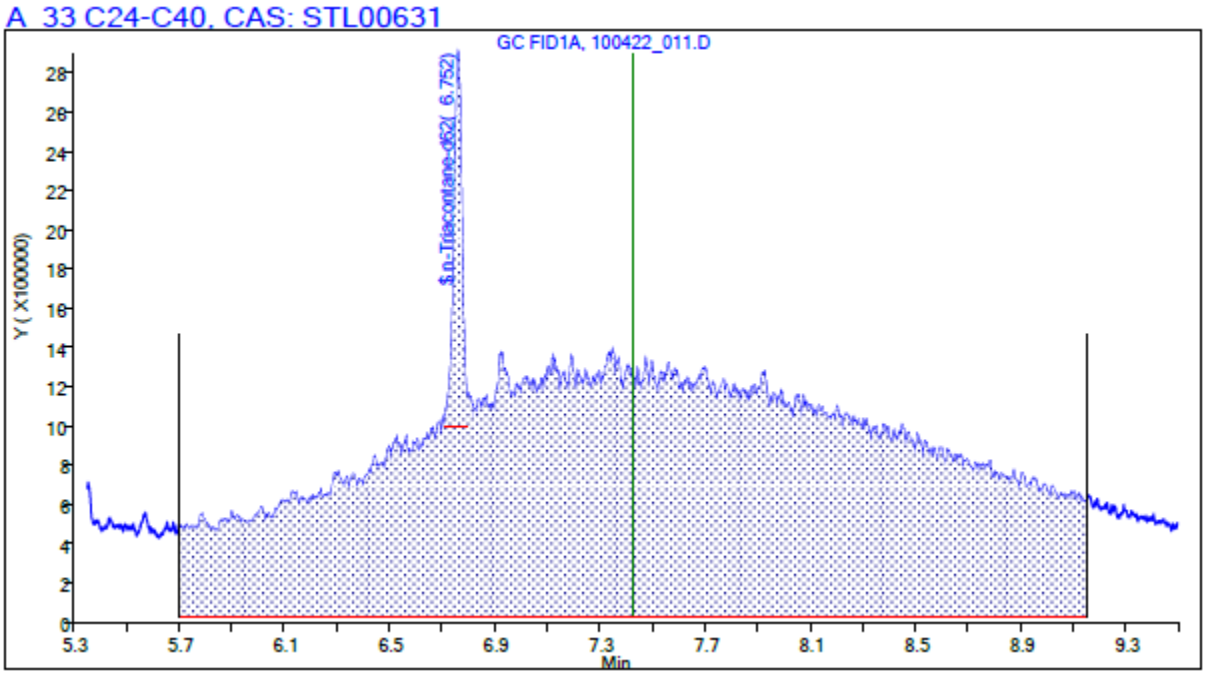

Eurofins Seattle: Initial Calibration Standard (LVL 9), TPH-o 2000.0 ng/µL

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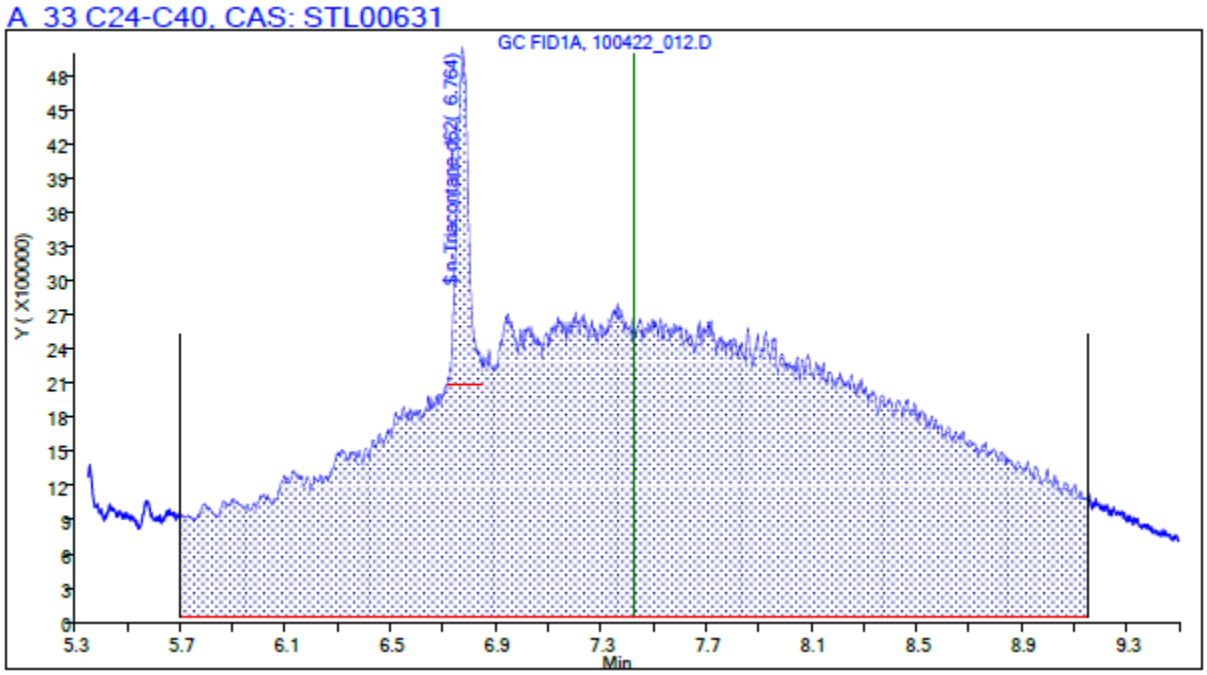

Eurofins Seattle: Initial Calibration Standard (LVL 10), TPH-o 5000.0 ng/µL

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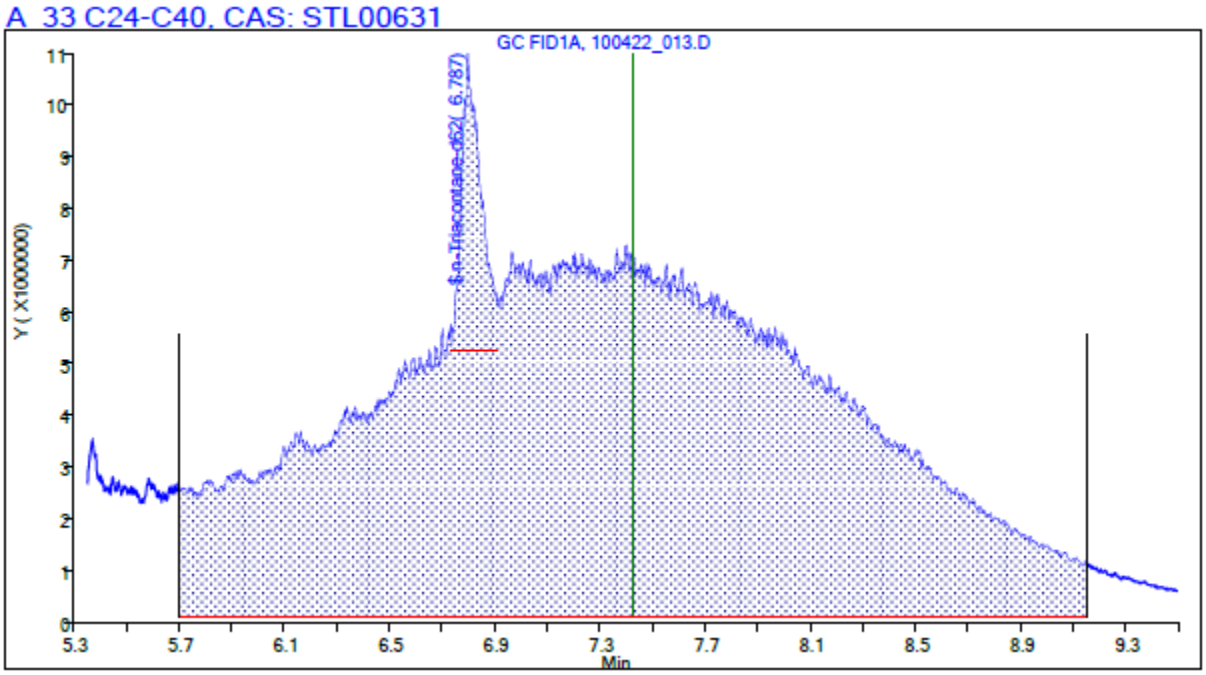

Eurofins Seattle: Initial Calibration Standard (LVL 11), TPH-o 10,000 ng/µL

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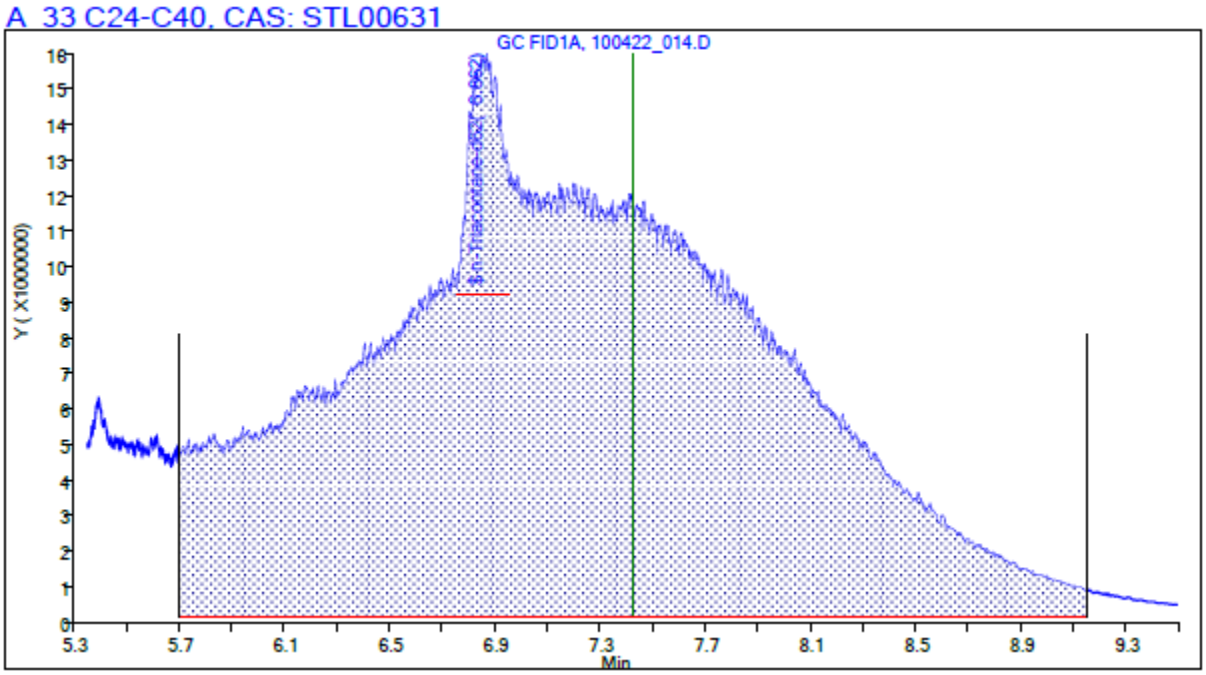
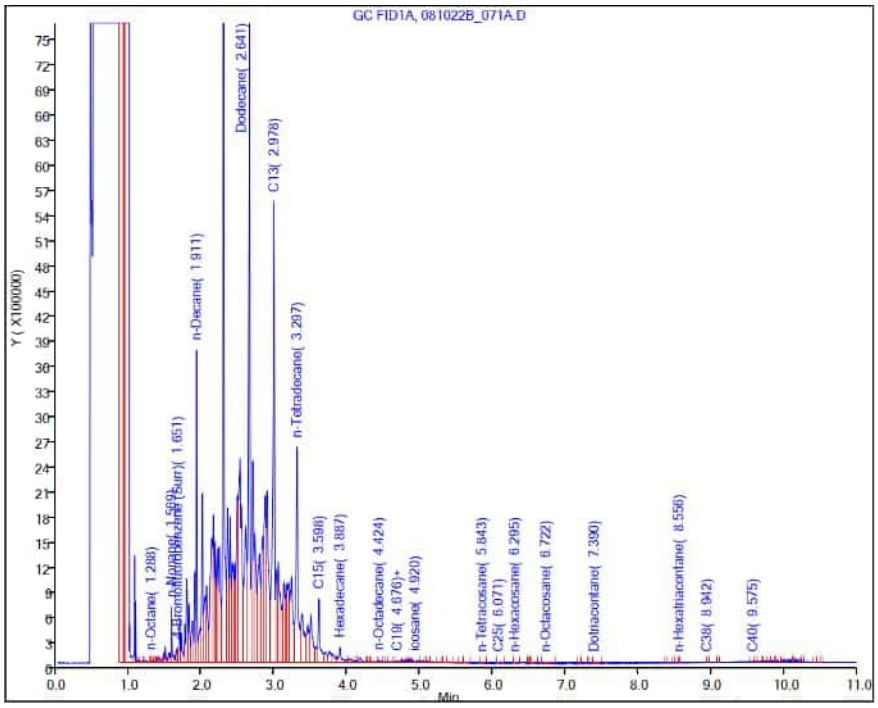


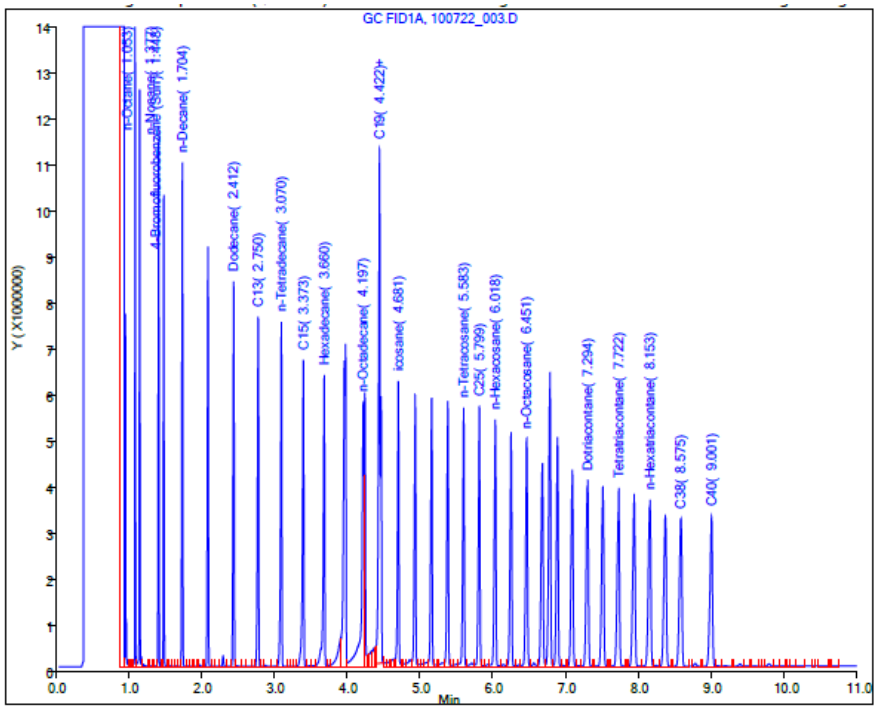
Eurofins Seattle: JP-5 Standard

8/10/22 6:32 pm, Instrument ID: TAC020, SDG: 580-116647-1



Eurofins Seattle: Alkane Marker

10/7/22 6:32 pm, Instrument ID: TAC020, SDG: 580-120073-1



Appendix B.6 – NOI Groundwater Sampling Plan

Appendix E Groundwater Sampling Plan
Revised December 27, 2021

The objective of the following Groundwater Sampling Plan is to obtain an assessment of groundwater impacts from the May 6 and November 20, 2021 release events, as well as evidence of recent mobilization of earlier fuel spills remaining in the vadose zone. Based on data obtained and additional work to identify nature and extent of the fuel releases on the environment, the scope and frequency of data collection may change. In addition, the groundwater sampling program may eventually be utilized to evaluate the effectiveness of contaminant containment or as a possible indicator of potential impact on Red Hill Shaft during pumping. Effective the week (December 13-17, 2021), the Navy's groundwater sampling plan shall at a minimum consist of:

1. Collect the samples noted on Tables 1, 2 and 3. HDOH or an HDOH contractor shall be afforded an opportunity to be present to observe, and elect on a well by well basis to obtain, handle, and ship the split sample to the HDOH contracted laboratory for analysis;
2. Provide the results in an extractable laboratory database format with an updated cumulative groundwater results spreadsheet in excel format;
3. Have the laboratories provide EDD files and all chromatograms in electronic format of the ASCII files (including a PDF format copy). This includes results from the May 6th release, long term monitoring data, and the Nov 20th release incidents;
4. Provide all the field logs in excel spreadsheet of the Groundwater (GW) monitoring at mentioned wells, since the May 6th release incidence through present and beyond (e.g., Redox Parameters, pH, Total Dissolved Solids (TDS), Oxidation Reduction Potential (ORP), etc.);
5. Provide all the field logs in excel spreadsheet of the Soil Vapor monitoring activities, since the My 6th release incidence through present and beyond;
6. In addition to groundwater samples, provide free product gauging using a bailer and headspace measurements using a photo-ionization detector (PID) for all locations; and
7. Provide fuel fingerprinting for:
    a. Fuel from the Nov 20th release and a sample collected from RHMW2254-01 on December 2, 2021.
    b. The three (3) different fuel types used at Red Hill obtained in response to the Hotel Pier release.
    c. The Fuel Analysis of Free Product mentioned in Table 2 will be analyzed only once.

Please see *Table 1* for the for the Groundwater Sampling Plan, *Table 2* for the Groundwater Parameters and *Table 3* for the Soil Vapor Monitoring and Summa Cannister Sampling.

Appendix E Groundwater Sampling Plan
Revised December 27, 2021

Table 1. Groundwater Sampling Plan

Sample type	Incidence date	Locations	Collection Method	Frequency of sampling	Duration of sampling	Analytes	Reporting Turn Around Time (TAT)
Ground-water	Nov 20th (14 GW wells with 1 Sump and 1 AFFF tank)	RHMW05 RHMW08 RHMW06 RHMW09 RHMW12 RHMW12-A RHMW17 *(when complete)* RHMW16 OWDFMW01	Bailer: RHMW04 RHMW05 RHMW06 RHMW08 RHMW09 RHMW19	Weekly	2 months	See Table 2	7 days
			Low Flow pump: RHMW12-A RHMW17 (*when complete*) RHMW16 OWDFMW01 Additional four OWDFMW wells*				
		RHMW2254-01 *(2 samples)*	Bailer & Low flow dedicated pump (both)	Weekly	2 months		
		RHMW11 (Zone 5) RHMW13 (Zone 5) RHMW 14 (Zone 3) RHMW15 (Zone 5)	Low flow (Westbay sampling method) Headspace/FP check will be taken after every sample collection)	Weekly	2 months		

	One time groundwater analysis of water portion from the:	**Infiltration Groundwater Sump****	**If additional water enters the sump, sampling to restart and continue weekly instead of a one-time sample**				
		Waste in AFFF tank	**One time**				
	May 6th	**RHMW01R, RHMW02, RHMW03**	**Bailer**	**Weekly**	**2 months**		

*Navy request to include 4 new wells at the OWDF to the GW sampling is approved. DOH reserves right to adjust specific wells selected within two weeks of receiving the monitoring well installation records and field notes.

**The Infiltration Groundwater Sump was sampled by the Navy on November 24, 2021, and these results, once received, will meet the one-time requirement of the sampling plan. If additional water enters the sump, we are asking for weekly sampling instead of a one-time sample.

Table 2: Groundwater Parameters (Analytes): Analyze all the analytes mentioned in the "Table 1. Tier 1 Screening Levels for Groundwater" mentioned in Hawaii Administrative Rules, Section 11-280.1 Subchapter 6: Release Response Action. (§11-280.1-65.3 Site cleanup criteria). In addition, add the following analytes:

Parameters	Analytical method	Analytes	HDOH-EALs (ug/L)	Lab Limits
Total Petroleum Hydrocarbons (TPH) -gasoline range organics (g), diesel range organics (d), or oil range organics (o)	**EPA 8260**	**TPH-g**	**300**	**Requests for the Lab:** 1. Please provide appropriate Limit of Quantitation (LOQ), Limit of Detection (LOD), Method Detection Limit (MDL) for each method. 2. Please ensure MDLs will detect for chemicals with
	EPA 8015	**TPH-d**	**400**	
		TPH-g	**300**	
		TPH-o	**500**	
TPH with Silicon Gel Cleanup (SGC) (TPH-d and TPH-o with SGC would only be analyzed in samples with positive detections of TPH-d and TPH-o without SGC).	**EPA 3630 / 8015**	**TPH-d**		
		TPH-o		
VOC (Full suite) against appropriate HDOH-EALs Including BTEX	**EPA 8260 (full suite)**			

Appendix E Groundwater Sampling Plan
Revised December 27, 2021

Parameters	Analytical method	Analytes	HDOH-EALs (ug/L)	Lab Limits
				low level EALs (e.g. Benzo-a-Pyrene).
SVOC (Full suite) against appropriate HDOH-EALs Including naphthalene, 1-methylnaphthalene, 2-methylnaphthalene	**EPA 8270 SIM (full suite)**			
One time Fuel Analysis of Free Product from the: **(1) RHMW2254-01** **(2) Waste in the AFFF tank** **(3) Infiltration Groundwater Sump where fuel was collected***	**EPA 8015 B**			**Sample the waste in the AFFF tank if the waste is still representative of what was pumped from the Nov 20th release.**
Total Organic Carbon	**EPA 9060A**			
Methane	**RSK 175 M**			
PFAS	**EPA 537.1 or EPA 1633 (draft) ****			**from RHMW2254 -01. Only one time analysis is requested.**
Lead Scavengers (1—dibromomethane and 1-2 dichloroethane)	**EPA 8011 and EPA 8260**			

** Run EPA draft method 1633 for matrices other than drinking water on the groundwater sample from RHMW2254-01. HDOH acknowledges that laboratories are likely not accredited for this new method.

Table 3. Soil Vapor Monitoring and Summa Canister Sampling

SAMPLE TYPE	METHOD	LOCATIONS	FREQUENCY/DURATION
Soil Vapor Concentrations	Photo-ionization Detector (PID)	All SV probe locations including new probes installed since 11/20/21. Include background reading at each tank	Once per week for 2 months Field note images delivered to DOH within 12 hours of collection and data tables listing ongoing results displayed within 7 days.
Summa Canister Samples	TO-15 & TO-3 w/ C5-C12	SVMP with highest PID readings (e.g., SV15S, SV17S, SV18S, SV20M) and most outer bound probe under the same tanks (SV15D, SV17D, SV18D, SV20D)	Once per month for 6 months.
	TO-15 & TO-3 w/ C5-C12	Collect one round of SVMP samples in the lower tunnel near station 400 and other SVMPs to fingerprint fuel signature	Consider future SVMP summa samples to evaluate migration of other older releases.

Appendix C – Index of Soil Vapor Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Environmental Data Management System (EDMS) at https://synectics.net.

- Laboratory Report, SDG 472892, Level 4
- Laboratory Report, SDG 473363, Level 4
- Laboratory Report, SDG 475293, Level 4
- Laboratory Report, SDG 475784, Level 4
- Laboratory Report, SDG 477317, Level 4

Appendix D – Index of Groundwater Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Environmental Data Management System (EDMS) at https://synectics.net.

- Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date
- Table D-2: Delineation Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Updates to Data Previously Reported								
OWDFMW04A	OWDFMW04A-WGFD01LF-2208WK2	580-116749-1	2022-08-08	5801167491_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116749-1, Level 2, Revision 3	Laboratory Report, SDG 580-116749-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-116749-1
OWDFMW04A	OWDFMW04A-WGN01LF-2208WK2	580-116749-1	2022-08-08	5801167491_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116749-1, Level 2, Revision 3	Laboratory Report, SDG 580-116749-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-116749-1
OWDFMW05A	OWDFMW05A-WGN01LF-2208WK2	580-116749-1	2022-08-08	5801167491_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116749-1, Level 2, Revision 3	Laboratory Report, SDG 580-116749-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-116749-1
RHMW09	RHMW09-WGN01B-2208WK2	580-116749-1	2022-08-08	5801167491_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116749-1, Level 2, Revision 3	Laboratory Report, SDG 580-116749-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-116749-1
RHMW19	RHMW19-WGN01B-2208WK2	580-116749-1	2022-08-08	5801167491_L2B	Eurofins Seattle	Laboratory Report, SDG 580-116749-1, Level 2, Revision 3	Laboratory Report, SDG 580-116749-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-116749-1
RHMW01R	RHMW01R-WGN01B-2208WK2	580-116835-1	2022-08-09	5801168351_L4	Eurofins Seattle	Laboratory Report, SDG 580-116835-1, Level 2	Laboratory Report, SDG 580-116835-1, Level 4, Revision 4	Data Validation Report, Level 4, SDG 580-116835-1
RHMW03	RHMW03-WGN01B-2208WK2	580-116835-1	2022-08-09	5801168351_L4	Eurofins Seattle	Laboratory Report, SDG 580-116835-1, Level 2	Laboratory Report, SDG 580-116835-1, Level 4, Revision 4	Data Validation Report, Level 4, SDG 580-116835-1
RHMW01R	RHMW01R-WGN01B-2208WK3	580-117058-1	2022-08-16	5801170581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117058-1, Level 2, Revision 3	Laboratory Report, SDG 580-117058-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-117058-1
RHMW05	RHMW05-WGN01B-2208WK3	580-117058-1	2022-08-16	5801170581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117058-1, Level 2, Revision 3	Laboratory Report, SDG 580-117058-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-117058-1
OWDFMW01	OWDFMW01-WGN01LF-2208WK3	580-117140-1	2022-08-17	5801171401_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117140-1, Level 2, Revision 3	Laboratory Report, SDG 580-117140-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-117140-1
RHMW04	RHMW04-WGFD01B-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
RHMW04	RHMW04-WGN01B-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
RHMW06	RHMW06-WGN01B-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
RHMW08	RHMW08-WGN01B-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
RHMW11-05	RHMW11-05-WGN01G-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
RHMW17	RHMW17-WGN01B-2208WK3	580-117085-1	2022-08-17	5801170851_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117085-1, Level 2, Revision 3	Laboratory Report, SDG 580-117085-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-117085-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2208WK3	580-117162-1	2022-08-18	5801171621_L4	Eurofins Seattle	Laboratory Report, SDG 580-117162-1, Level 2, Revision 2	Laboratory Report, SDG 580-117162-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117162-1
RHMW13-05	RHMW13-05-WGN01G-2208WK3	580-117140-1	2022-08-18	5801171401_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117140-1, Level 2, Revision 3	Laboratory Report, SDG 580-117140-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-117140-1
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK3	580-117162-1	2022-08-18	5801171621_L4	Eurofins Seattle	Laboratory Report, SDG 580-117162-1, Level 2, Revision 2	Laboratory Report, SDG 580-117162-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117162-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK4	580-117283-1	2022-08-23	5801172831_L4	Eurofins Seattle	Laboratory Report, SDG 580-117283-1, Level 2, Revision 2	Laboratory Report, SDG 580-117283-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117283-
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK4	580-117283-1	2022-08-23	5801172831_L4	Eurofins Seattle	Laboratory Report, SDG 580-117283-1, Level 2, Revision 2	Laboratory Report, SDG 580-117283-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117283-
RHMW02	RHMW02-WGN01B-2208WK4	580-117283-1	2022-08-23	5801172831_L4	Eurofins Seattle	Laboratory Report, SDG 580-117283-1, Level 2, Revision 2	Laboratory Report, SDG 580-117283-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117283-
OWDFMW01	OWDFMW01-WGN01LF-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW04	RHMW04-WGFD01B-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW04	RHMW04-WGN01B-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW06	RHMW06-WGN01B-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW08	RHMW08-WGN01B-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW13-05	RHMW13-05-WGN01G-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
RHMW17	RHMW17-WGN01B-2208WK4	580-117295-1	2022-08-24	5801172951_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117295-1, Level 2, Revision 1	Laboratory Report, SDG 580-117295-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117295-1, Revision
Sump Adit 3	ADIT3-SUMP-WGN01B-2208WK4	580-117347-1	2022-08-25	5801173471_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117347-1, Level 2, Revision 1	Laboratory Report, SDG 580-117347-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117347-1
RHMW12A	RHMW12A-WGN01LF-2208WK4	580-117347-1	2022-08-25	5801173471_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117347-1, Level 2, Revision 1	Laboratory Report, SDG 580-117347-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117347-1
RHMW16	RHMW16-WGN01LF-2208WK4	580-117347-1	2022-08-25	5801173471_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117347-1, Level 2, Revision 1	Laboratory Report, SDG 580-117347-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117347-1
RHMW2254-01	RHMW2254-01-WGN01B-2208WK4	580-117347-1	2022-08-25	5801173471_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117347-1, Level 2, Revision 1	Laboratory Report, SDG 580-117347-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117347-1
RHMW2254-01	RHMW2254-01-WGN01LF-2208WK4	580-117347-1	2022-08-25	5801173471_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117347-1, Level 2, Revision 1	Laboratory Report, SDG 580-117347-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117347-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2208WK5	580-117607-1	2022-08-31	5801176071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117607-1, Level 2	Laboratory Report, SDG 580-117607-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-117607-1
OWDFMW08A	OWDFMW08A-WGN01LF-2208WK5	580-117607-1	2022-08-31	5801176071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117607-1, Level 2	Laboratory Report, SDG 580-117607-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-117607-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2208WK5	580-117607-1	2022-09-01	5801176071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117607-1, Level 2	Laboratory Report, SDG 580-117607-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-117607-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW01R	RHMW01R-WGN01B-2209WK1	580-117667-1	2022-09-06	5801176671_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117667-1, Level 2, Revision 1	Laboratory Report, SDG 580-117667-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117667-1
RHMW02	RHMW02-WGN01B-2209WK1	580-117667-1	2022-09-06	5801176671_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117667-1, Level 2, Revision 1	Laboratory Report, SDG 580-117667-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117667-1
RHMW03	RHMW03-WGN01B-2209WK1	580-117667-1	2022-09-06	5801176671_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117667-1, Level 2, Revision 1	Laboratory Report, SDG 580-117667-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117667-1
RHMW05	RHMW05-WGN01B-2209WK1	580-117667-1	2022-09-06	5801176671_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117667-1, Level 2, Revision 1	Laboratory Report, SDG 580-117667-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117667-1
RHMW15-05	RHMW15-05-WGN01G-2209WK1	580-117667-1	2022-09-06	5801176671_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117667-1, Level 2, Revision 1	Laboratory Report, SDG 580-117667-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117667-1
RHMW09	RHMW09-WGN01B-2209WK1	580-117675-1	2022-09-07	5801176751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117675-1, Level 2, Revision 1	Laboratory Report, SDG 580-117675-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117675-1
RHMW11-05	RHMW11-05-WGN01G-2209WK1	580-117706-1	2022-09-07	5801177061_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117706-1, Level 2, Revision 2	Laboratory Report, SDG 580-117706-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117706-1, Revision
RHMW12A	RHMW12A-WGN01LF-2209WK1	580-117675-1	2022-09-07	5801176751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117675-1, Level 2, Revision 1	Laboratory Report, SDG 580-117675-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117675-1
RHMW14-03	RHMW14-03-WGN01G-2209WK1	580-117706-1	2022-09-07	5801177061_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117706-1, Level 2, Revision 2	Laboratory Report, SDG 580-117706-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117706-1, Revision
RHMW16	RHMW16-WGN01LF-2209WK1	580-117675-1	2022-09-07	5801176751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117675-1, Level 2, Revision 1	Laboratory Report, SDG 580-117675-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117675-1
RHMW19	RHMW19-WGN01B-2209WK1	580-117675-1	2022-09-07	5801176751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117675-1, Level 2, Revision 1	Laboratory Report, SDG 580-117675-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117675-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2209WK1	580-117706-1	2022-09-08	5801177061_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117706-1, Level 2, Revision 2	Laboratory Report, SDG 580-117706-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117706-1, Revision
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK1	580-117771-1	2022-09-08	5801177711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117771-1, Level 2, Revision 1	Laboratory Report, SDG 580-117771-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117771-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK1	580-117771-1	2022-09-08	5801177711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117771-1, Level 2, Revision 1	Laboratory Report, SDG 580-117771-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117771-1
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK1	580-117771-1	2022-09-08	5801177711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117771-1, Level 2, Revision 1	Laboratory Report, SDG 580-117771-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117771-1
RHMW2254-01	RHMW2254-01-WGN01B-2209WK1	580-117706-1	2022-09-08	5801177061_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117706-1, Level 2, Revision 2	Laboratory Report, SDG 580-117706-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117706-1, Revision
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK1	580-117706-1	2022-09-08	5801177061_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-117706-1, Level 2, Revision 2	Laboratory Report, SDG 580-117706-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117706-1, Revision
OWDFMW01	OWDFMW01-WGN01LF-2209WK1	580-117769-1	2022-09-09	5801177691_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117769-1, Level 2	Laboratory Report, SDG 580-117769-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117769-1
RHMW04	RHMW04-WGFD01B-2209WK1	580-117771-1	2022-09-09	5801177711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117771-1, Level 2, Revision 1	Laboratory Report, SDG 580-117771-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117771-1
RHMW04	RHMW04-WGN01B-2209WK1	580-117771-1	2022-09-09	5801177711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117771-1, Level 2, Revision 1	Laboratory Report, SDG 580-117771-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117771-1
RHMW06	RHMW06-WGN01B-2209WK1	580-117769-1	2022-09-09	5801177691_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117769-1, Level 2	Laboratory Report, SDG 580-117769-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117769-1
RHMW08	RHMW08-WGN01B-2209WK1	580-117769-1	2022-09-09	5801177691_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117769-1, Level 2	Laboratory Report, SDG 580-117769-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117769-1
RHMW17	RHMW17-WGN01B-2209WK1	580-117801-1	2022-09-09	5801178011_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117801-1, Level 2, Revision 2	Laboratory Report, SDG 580-117801-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117801-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2209WK2	580-117801-1	2022-09-12	5801178011_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117801-1, Level 2, Revision 2	Laboratory Report, SDG 580-117801-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117801-1
OWDFMW04A	OWDFMW04A-WGN01LF-2209WK2	580-117801-1	2022-09-12	5801178011_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117801-1, Level 2, Revision 2	Laboratory Report, SDG 580-117801-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117801-1
RHMW09	RHMW09-WGN01B-2209WK2	580-117801-1	2022-09-12	5801178011_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117801-1, Level 2, Revision 2	Laboratory Report, SDG 580-117801-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117801-1
RHMW19	RHMW19-WGN01B-2209WK2	580-117801-1	2022-09-12	5801178011_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117801-1, Level 2, Revision 2	Laboratory Report, SDG 580-117801-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-117801-1
RHMW01R	RHMW01R-WGN01B-2209WK2	580-117907-1	2022-09-13	5801179071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117907-1, Level 2, Revision 2	Laboratory Report, SDG 580-117907-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117907-1
RHMW02	RHMW02-WGN01B-2209WK2	580-117880-1	2022-09-13	5801178801_L4	Eurofins Seattle	Laboratory Report, SDG 580-117880-1, Level 2, Revision 2	Laboratory Report, SDG 580-117880-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117880-1
RHMW03	RHMW03-WGN01B-2209WK2	580-117907-1	2022-09-13	5801179071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117907-1, Level 2, Revision 2	Laboratory Report, SDG 580-117907-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117907-1
RHMW05	RHMW05-WGN01B-2209WK2	580-117907-1	2022-09-13	5801179071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117907-1, Level 2, Revision 2	Laboratory Report, SDG 580-117907-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117907-1
RHMW11-05	RHMW11-05-WGN01G-2209WK2	580-117907-1	2022-09-13	5801179071_L2B	Eurofins Seattle	Laboratory Report, SDG 580-117907-1, Level 2, Revision 2	Laboratory Report, SDG 580-117907-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-117907-1
RHMW12A	RHMW12A-WGN01LF-2209WK2	580-117880-1	2022-09-13	5801178801_L4	Eurofins Seattle	Laboratory Report, SDG 580-117880-1, Level 2, Revision 2	Laboratory Report, SDG 580-117880-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117880-1
RHMW14-03	RHMW14-03-WGN01G-2209WK2	580-117880-1	2022-09-13	5801178801_L4	Eurofins Seattle	Laboratory Report, SDG 580-117880-1, Level 2, Revision 2	Laboratory Report, SDG 580-117880-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117880-1
RHMW16	RHMW16-WGN01LF-2209WK2	580-117880-1	2022-09-13	5801178801_L4	Eurofins Seattle	Laboratory Report, SDG 580-117880-1, Level 2, Revision 2	Laboratory Report, SDG 580-117880-1, Level 4, Revision 5	Data Validation Report, Level 4, SDG 580-117880-1
RHMW15-05	RHMW15-05-WGN01G-2209WK3	580-118064-1	2022-09-19	5801180641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118064-1, Level 2, Revision 1	Laboratory Report, SDG 580-118064-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118064-1
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK3	580-118158-1	2022-09-20	5801181581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118158-1, Level 2, Revision 2	Laboratory Report, SDG 580-118158-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118158-1
RHMW01R	RHMW01R-WGN01B-2209WK3	580-118158-1	2022-09-20	5801181581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118158-1, Level 2, Revision 2	Laboratory Report, SDG 580-118158-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118158-1
RHMW11-05	RHMW11-05-WGN01G-2209WK3	580-118158-1	2022-09-20	5801181581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118158-1, Level 2, Revision 2	Laboratory Report, SDG 580-118158-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118158-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW13-05	RHMW13-05-WGN01G-2209WK3	580-118158-1	2022-09-21	5801181581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118158-1, Level 2, Revision 2	Laboratory Report, SDG 580-118158-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118158-1
RHMW17	RHMW17-WGN01B-2209WK3	580-118158-1	2022-09-21	5801181581_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118158-1, Level 2, Revision 2	Laboratory Report, SDG 580-118158-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118158-1
OWDFMW05A	OWDFMW05A-WGN01LF-2209WK4	580-118257-1	2022-09-26	5801182571_L4	Eurofins Seattle	Laboratory Report, SDG 580-118257-1, Level 2, Revision 4	Laboratory Report, SDG 580-118257-1, Level 4, Revision 4	Data Validation Report, Level 4, SDG 580-118257-1
RHMW15-05	RHMW15-05-WGN01G-2209WK4	580-118257-1	2022-09-26	5801182571_L4	Eurofins Seattle	Laboratory Report, SDG 580-118257-1, Level 2, Revision 4	Laboratory Report, SDG 580-118257-1, Level 4, Revision 4	Data Validation Report, Level 4, SDG 580-118257-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2209WK4	580-118383-1	2022-09-29	5801183831_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118383-1, Level 2, Revision 1	Laboratory Report, SDG 580-118383-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-118383-1
OWDFMW07A	OWDFMW07A-WGN01LF-2209WK4	580-118462-1	2022-09-29	5801184621_L4	Eurofins Seattle	Laboratory Report, SDG 580-118462-1, Level 2, Revision 1	Laboratory Report, SDG 580-118462-1, Level 4, Revision 1	Data Validation Report, Level 4, SDG 580-118462-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2209WK4	580-118462-1	2022-09-29	5801184621_L4	Eurofins Seattle	Laboratory Report, SDG 580-118462-1, Level 2, Revision 1	Laboratory Report, SDG 580-118462-1, Level 4, Revision 1	Data Validation Report, Level 4, SDG 580-118462-1
OWDFMW08A	OWDFMW08A-WGN01LF-2209WK4	580-118462-1	2022-09-29	5801184621_L4	Eurofins Seattle	Laboratory Report, SDG 580-118462-1, Level 2, Revision 1	Laboratory Report, SDG 580-118462-1, Level 4, Revision 1	Data Validation Report, Level 4, SDG 580-118462-1
RHMW2254-01	RHMW2254-01-WGN01B-2209WK4	580-118383-1	2022-09-29	5801183831_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118383-1, Level 2, Revision 1	Laboratory Report, SDG 580-118383-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-118383-1
RHMW2254-01	RHMW2254-01-WGN01LF-2209WK4	580-118383-1	2022-09-29	5801183831_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118383-1, Level 2, Revision 1	Laboratory Report, SDG 580-118383-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-118383-1
RHMW09	RHMW09-WGN01B-2210WK1	580-118575-1	2022-10-03	5801185751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118575-1, Level 2, Revision 1	Laboratory Report, SDG 580-118575-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118575-1
RHMW11-05	RHMW11-05-WGN01G-2210WK1	580-118575-1	2022-10-03	5801185751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118575-1, Level 2, Revision 1	Laboratory Report, SDG 580-118575-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118575-1
RHMW01R	RHMW01R-WGN01B-2210WK1	580-118611-1	2022-10-04	5801186111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118611-1, Level 2, Revision 3	Laboratory Report, SDG 580-118611-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-118611-1
RHMW02	RHMW02-WGN01B-2210WK1	580-118612-1	2022-10-04	5801186121_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-118612-1, Level 2, Revision 1	Laboratory Report, SDG 580-118612-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118612-1, Revision
RHMW03	RHMW03-WGN01B-2210WK1	580-118611-1	2022-10-04	5801186111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118611-1, Level 2, Revision 3	Laboratory Report, SDG 580-118611-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-118611-1
RHMW05	RHMW05-WGN01B-2210WK1	580-118612-1	2022-10-04	5801186121_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-118612-1, Level 2, Revision 1	Laboratory Report, SDG 580-118612-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118612-1, Revision
RHMW12A	RHMW12A-WGN01LF-2210WK1	580-118575-1	2022-10-04	5801185751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118575-1, Level 2, Revision 1	Laboratory Report, SDG 580-118575-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118575-1
RHMW15-05	RHMW15-05-WGN01G-2210WK1	580-118612-1	2022-10-04	5801186121_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-118612-1, Level 2, Revision 1	Laboratory Report, SDG 580-118612-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118612-1, Revision
RHMW16	RHMW16-WGN01LF-2210WK1	580-118575-1	2022-10-04	5801185751_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118575-1, Level 2, Revision 1	Laboratory Report, SDG 580-118575-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118575-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
OWDFMW01	OWDFMW01-WGN01LF-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
RHMW04	RHMW04-WGFD01B-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
RHMW04	RHMW04-WGN01B-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
RHMW08	RHMW08-WGN01B-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
RHMW14-03	RHMW14-03-WGN01G-2210WK1	580-118612-1	2022-10-05	5801186121_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-118612-1, Level 2, Revision 1	Laboratory Report, SDG 580-118612-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118612-1, Revision
RHMW17	RHMW17-WGN01B-2210WK1	580-118648-1	2022-10-05	5801186481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118648-1, Level 2, Revision 1	Laboratory Report, SDG 580-118648-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118648-1
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
RHMW06	RHMW06-WGN01B-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
RHMW2254-01	RHMW2254-01-WGN01B-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK1	580-118644-1	2022-10-06	5801186441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118644-1, Level 2, Revision 1	Laboratory Report, SDG 580-118644-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118644-1
RHMW15-05	RHMW15-05-WGN01G-2210WK2	B22101062	2022-10-10	B22101062_L2B	Eurofins Seattle	Laboratory Report, SDG B22101062, Level 2	Laboratory Report, SDG B22101062, Level 4	Data Validation Report, Level 2B, SDG B22101062
RHMW15-05	RHMW15-05-WGN01G-2210WK2	580-118690-1	2022-10-10	5801186901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118690-1, Level 2, Revision 2	Laboratory Report, SDG 580-118690-1, Level 2, Revision 2	Data Validation Report, Level 2B, SDG 580-118690-1
RHMW14-03	RHMW14-03-WGN01G-2210WK2	B22101062	2022-10-11	B22101062_L2B	Eurofins Seattle	Laboratory Report, SDG B22101062, Level 2	Laboratory Report, SDG B22101062, Level 4	Data Validation Report, Level 2B, SDG B22101062
RHMW14-03	RHMW14-03-WGN01G-2210WK2	580-118764-1	2022-10-11	5801187641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118764-1, Level 2, Revision 2	Laboratory Report, SDG 580-118764-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118764-1
RHMW13-05	RHMW13-05-WGN01G-2210WK2	B22101304	2022-10-12	B22101304_L2B	Eurofins Seattle	Laboratory Report, SDG B22101304, Level 2	Laboratory Report, SDG B22101304, Level 4	Data Validation Report, Level 2B, SDG B22101304
RHMW13-05	RHMW13-05-WGN01G-2210WK2	580-118777-1	2022-10-12	5801187771_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118777-1, Level 2, Revision 1	Laboratory Report, SDG 580-118777-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118777-1
RHMW16	RHMW16-WGN01LF-2210WK2	B22101304	2022-10-12	B22101304_L2B	Eurofins Seattle	Laboratory Report, SDG B22101304, Level 2	Laboratory Report, SDG B22101304, Level 4	Data Validation Report, Level 2B, SDG B22101304

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW16	RHMW16-WGN01LF-2210WK2	580-118777-1	2022-10-12	5801187771_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118777-1, Level 2, Revision 1	Laboratory Report, SDG 580-118777-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118777-1
RHMW11-05	RHMW11-05-WGN01G-2210WK2	B22101304	2022-10-13	B22101304_L2B	Eurofins Seattle	Laboratory Report, SDG B22101304, Level 2	Laboratory Report, SDG B22101304, Level 4	Data Validation Report, Level 2B, SDG B22101304
RHMW11-05	RHMW11-05-WGN01G-2210WK2	580-118844-1	2022-10-13	5801188441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118844-1, Level 2, Revision 1	Laboratory Report, SDG 580-118844-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118844-1
RHMW12A	RHMW12A-WGN01LF-2210WK2	B22101304	2022-10-13	B22101304_L2B	Eurofins Seattle	Laboratory Report, SDG B22101304, Level 2	Laboratory Report, SDG B22101304, Level 4	Data Validation Report, Level 2B, SDG B22101304
RHMW12A	RHMW12A-WGN01LF-2210WK2	580-118844-1	2022-10-13	5801188441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118844-1, Level 2, Revision 1	Laboratory Report, SDG 580-118844-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118844-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK2	580-118941-1	2022-10-14	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK2	580-118941-1	2022-10-14	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK2	580-118888-1	2022-10-14	5801188881_L4	Eurofins Seattle	Laboratory Report, SDG 580-118888-1, Level 2, Revision 1	Laboratory Report, SDG 580-118888-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-118888-1
RHMW01R	RHMW01R-WGN01B-2210WK2	580-118920-1	2022-10-14	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
RHMW02	RHMW02-WGN01B-2210WK2	580-118920-1	2022-10-14	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
RHMW03	RHMW03-WGN01B-2210WK2	580-118941-1	2022-10-14	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW05	RHMW05-WGN01B-2210WK2	580-118920-1	2022-10-14	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
RHMW09	RHMW09-WGN01B-2210WK2	580-118888-1	2022-10-14	5801188881_L4	Eurofins Seattle	Laboratory Report, SDG 580-118888-1, Level 2, Revision 1	Laboratory Report, SDG 580-118888-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-118888-1
RHMW19	RHMW19-WGN01B-2210WK2	580-118888-1	2022-10-14	5801188881_L4	Eurofins Seattle	Laboratory Report, SDG 580-118888-1, Level 2, Revision 1	Laboratory Report, SDG 580-118888-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-118888-1
OWDFMW01	OWDFMW01-WGN01LF-2210WK2	580-118920-1	2022-10-15	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK2	580-118920-1	2022-10-15	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK2	580-118941-1	2022-10-15	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK2	580-118941-1	2022-10-15	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW04	RHMW04-WGFD01B-2210WK2	580-118941-1	2022-10-15	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW04	RHMW04-WGN01B-2210WK2	580-118941-1	2022-10-15	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW06	RHMW06-WGN01B-2210WK2	580-118920-1	2022-10-15	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
RHMW08	RHMW08-WGN01B-2210WK2	580-118941-1	2022-10-15	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW17	RHMW17-WGN01B-2210WK2	580-118920-1	2022-10-15	5801189201_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118920-1, Level 2	Laboratory Report, SDG 580-118920-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118920-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2210WK2	580-118941-1	2022-10-16	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW2254-01	RHMW2254-01-WGN01B-2210WK2	580-118941-1	2022-10-16	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK2	580-118941-1	2022-10-16	5801189411_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118941-1, Level 2, Revision 1	Laboratory Report, SDG 580-118941-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118941-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
RHMW04	RHMW04-WGFD01B-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
RHMW04	RHMW04-WGN01B-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
RHMW06	RHMW06-WGN01B-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
RHMW08	RHMW08-WGN01B-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
RHMW09	RHMW09-WGN01B-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
RHMW11-05	RHMW11-05-WGN01G-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1
RHMW14-03	RHMW14-03-WGN01G-2210WK3	580-118964-1	2022-10-17	5801189641_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118964-1, Level 2, Revision 1	Laboratory Report, SDG 580-118964-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-118964-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW19	RHMW19-WGN01B-2210WK3	580-118934-1	2022-10-17	5801189341_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118934-1, Level 2, Revision 1	Laboratory Report, SDG 580-118934-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-118934-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2210WK3	580-118961-1	2022-10-18	5801189611_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118961-1, Level 2	Laboratory Report, SDG 580-118961-1, Level 4	Data Validation Report, Level 2B, SDG 580-118961-1
RHMW01R	RHMW01R-WGN01B-2210WK3	580-119027-1	2022-10-18	580119027_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119027-1, Level 2, Revision 2	Laboratory Report, SDG 580-119027-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119027-1
RHMW02	RHMW02-WGN01B-2210WK3	580-119027-1	2022-10-18	580119027_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119027-1, Level 2, Revision 2	Laboratory Report, SDG 580-119027-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119027-1
RHMW03	RHMW03-WGN01B-2210WK3	580-119027-1	2022-10-18	580119027_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119027-1, Level 2, Revision 2	Laboratory Report, SDG 580-119027-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119027-1
RHMW05	RHMW05-WGN01B-2210WK3	580-119027-1	2022-10-18	580119027_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119027-1, Level 2, Revision 2	Laboratory Report, SDG 580-119027-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119027-1
RHMW12A	RHMW12A-WGN01LF-2210WK3	580-118961-1	2022-10-18	5801189611_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118961-1, Level 2	Laboratory Report, SDG 580-118961-1, Level 4	Data Validation Report, Level 2B, SDG 580-118961-1
RHMW15-05	RHMW15-05-WGN01G-2210WK3	580-119027-1	2022-10-18	580119027_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119027-1, Level 2, Revision 2	Laboratory Report, SDG 580-119027-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119027-1
RHMW16	RHMW16-WGN01LF-2210WK3	580-118961-1	2022-10-18	5801189611_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118961-1, Level 2	Laboratory Report, SDG 580-118961-1, Level 4	Data Validation Report, Level 2B, SDG 580-118961-1
RHMW2254-01	RHMW2254-01-WGN01B-2210WK3	580-118961-1	2022-10-18	5801189611_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118961-1, Level 2	Laboratory Report, SDG 580-118961-1, Level 4	Data Validation Report, Level 2B, SDG 580-118961-1
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK3	580-118961-1	2022-10-18	5801189611_L2B	Eurofins Seattle	Laboratory Report, SDG 580-118961-1, Level 2	Laboratory Report, SDG 580-118961-1, Level 4	Data Validation Report, Level 2B, SDG 580-118961-1
OWDFMW01	OWDFMW01-WGN01LF-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW04	RHMW04-WGFD02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW04	RHMW04-WGN02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW06	RHMW06-WGN02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW08	RHMW08-WGN02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW09	RHMW09-WGN02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW13-05	RHMW13-05-WGN01G-2210WK3	580-119078-1	2022-10-19	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW14-03	RHMW14-03-WGN02G-2210WK3	580-119078-1	2022-10-19	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW17	RHMW17-WGN01B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
RHMW19	RHMW19-WGN02B-2210WK3	580-119014-1	2022-10-19	5801190141_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119014-1, Level 2, Revision 4	Laboratory Report, SDG 580-119014-1, Level 4, Revision 5	Data Validation Report, Level 2B, SDG 580-119014-1
Sump Adit 3	ADIT3-SUMP-WGN02B-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW01R	RHMW01R-WGN02B-2210WK3	580-119152-1	2022-10-20	5801191521_L4	Eurofins Seattle	Laboratory Report, SDG 580-119152-1, Level 2, Revision 2	Laboratory Report, SDG 580-119152-1, Level 4, Revision 3	Data Validation Report, Level 4, SDG 580-119152-1
RHMW02	RHMW02-WGN02B-2210WK3	580-119152-1	2022-10-20	5801191521_L4	Eurofins Seattle	Laboratory Report, SDG 580-119152-1, Level 2, Revision 2	Laboratory Report, SDG 580-119152-1, Level 4, Revision 3	Data Validation Report, Level 4, SDG 580-119152-1
RHMW03	RHMW03-WGN02B-2210WK3	580-119152-1	2022-10-20	5801191521_L4	Eurofins Seattle	Laboratory Report, SDG 580-119152-1, Level 2, Revision 2	Laboratory Report, SDG 580-119152-1, Level 4, Revision 3	Data Validation Report, Level 4, SDG 580-119152-1
RHMW05	RHMW05-WGN02B-2210WK3	580-119152-1	2022-10-20	5801191521_L4	Eurofins Seattle	Laboratory Report, SDG 580-119152-1, Level 2, Revision 2	Laboratory Report, SDG 580-119152-1, Level 4, Revision 3	Data Validation Report, Level 4, SDG 580-119152-1
RHMW12A	RHMW12A-WGN02LF-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW15-05	RHMW15-05-WGN02G-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW16	RHMW16-WGN02LF-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
RHMW2254-01	RHMW2254-01-WGN02B-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK3	580-119078-1	2022-10-20	5801190781_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119078-1, Level 2, Revision 2	Laboratory Report, SDG 580-119078-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119078-1, Revision
OWDFMW01	OWDFMW01-WGN02LF-2210WK3	580-119152-1	2022-10-21	5801191521_L4	Eurofins Seattle	Laboratory Report, SDG 580-119152-1, Level 2, Revision 2	Laboratory Report, SDG 580-119152-1, Level 4, Revision 3	Data Validation Report, Level 4, SDG 580-119152-1
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK3	580-119163-1	2022-10-21	5801191631_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119163-1, Level 2	Laboratory Report, SDG 580-119163-1, Level 4	Data Validation Report, Level 2B, SDG 580-119163-1
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK3	580-119163-1	2022-10-21	5801191631_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119163-1, Level 2	Laboratory Report, SDG 580-119163-1, Level 4	Data Validation Report, Level 2B, SDG 580-119163-1
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
RHMW11-05	RHMW11-05-WGN02G-2210WK3	580-119163-1	2022-10-21	5801191631_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119163-1, Level 2	Laboratory Report, SDG 580-119163-1, Level 4	Data Validation Report, Level 2B, SDG 580-119163-1
RHMW13-05	RHMW13-05-WGN02G-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
RHMW17	RHMW17-WGN02B-2210WK3	580-119111-1	2022-10-21	5801191111_L4	Eurofins Seattle	Laboratory Report, SDG 580-119111-1, Level 2, Revision 2	Laboratory Report, SDG 580-119111-1, Level 4, Revision 2	Data Validation Report, Level 4, SDG 580-119111-1
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
RHMW04	RHMW04-WGFD01B-2210WK4	580-119293-1	2022-10-24	5801192931_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119293-1, Level 2	Laboratory Report, SDG 580-119293-1, Level 4	Data Validation Report, Level 2B, SDG 580-119293-1
RHMW04	RHMW04-WGN01B-2210WK4	580-119293-1	2022-10-24	5801192931_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119293-1, Level 2	Laboratory Report, SDG 580-119293-1, Level 4	Data Validation Report, Level 2B, SDG 580-119293-1
RHMW06	RHMW06-WGN01B-2210WK4	580-119293-1	2022-10-24	5801192931_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119293-1, Level 2	Laboratory Report, SDG 580-119293-1, Level 4	Data Validation Report, Level 2B, SDG 580-119293-1
RHMW08	RHMW08-WGN01B-2210WK4	580-119293-1	2022-10-24	5801192931_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119293-1, Level 2	Laboratory Report, SDG 580-119293-1, Level 4	Data Validation Report, Level 2B, SDG 580-119293-1
RHMW09	RHMW09-WGN01B-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
RHMW11-05	RHMW11-05-WGN01G-2210WK4	580-119293-1	2022-10-24	5801192931_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119293-1, Level 2	Laboratory Report, SDG 580-119293-1, Level 4	Data Validation Report, Level 2B, SDG 580-119293-1
RHMW12A	RHMW12A-WGN01LF-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
RHMW14-03	RHMW14-03-WGN01G-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
RHMW16	RHMW16-WGN01LF-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
RHMW19	RHMW19-WGN01B-2210WK4	580-119162-1	2022-10-24	5801191621_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119162-1, Level 2, Revision 1	Laboratory Report, SDG 580-119162-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119162-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
OWDFMW01	OWDFMW01-WGN01LF-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
RHMW01R	RHMW01R-WGN01B-2210WK4	580-119339-1	2022-10-25	5801193391_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119339-1, Level 2, Revision 3	Laboratory Report, SDG 580-119339-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-119339-1
RHMW02	RHMW02-WGN01B-2210WK4	580-119339-1	2022-10-25	5801193391_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119339-1, Level 2, Revision 3	Laboratory Report, SDG 580-119339-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-119339-1
RHMW03	RHMW03-WGN01B-2210WK4	580-119339-1	2022-10-25	5801193391_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119339-1, Level 2, Revision 3	Laboratory Report, SDG 580-119339-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-119339-1
RHMW05	RHMW05-WGN01B-2210WK4	580-119339-1	2022-10-25	5801193391_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119339-1, Level 2, Revision 3	Laboratory Report, SDG 580-119339-1, Level 4, Revision 4	Data Validation Report, Level 2B, SDG 580-119339-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW15-05	RHMW15-05-WGN01G-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
RHMW17	RHMW17-WGN01B-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
RHMW2254-01	RHMW2254-01-WGN01B-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK4	580-119316-1	2022-10-25	5801193161_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119316-1, Level 2, Revision 2	Laboratory Report, SDG 580-119316-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119316-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW04	RHMW04-WGFD02B-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW04	RHMW04-WGN02B-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW06	RHMW06-WGN02B-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW08	RHMW08-WGN02B-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW09	RHMW09-WGN02B-2210WK4	580-119342-1	2022-10-26	5801193421_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119342-1, Level 2	Laboratory Report, SDG 580-119342-1, Level 4	Data Validation Report, Level 2B, SDG 580-119342-1
RHMW13-05	RHMW13-05-WGN01G-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW14-03	RHMW14-03-WGN02G-2210WK4	580-119371-1	2022-10-26	5801193711_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119371-1, Level 2	Laboratory Report, SDG 580-119371-1, Level 4	Data Validation Report, Level 2B, SDG 580-119371-1
RHMW19	RHMW19-WGN02B-2210WK4	580-119342-1	2022-10-26	5801193421_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119342-1, Level 2	Laboratory Report, SDG 580-119342-1, Level 4	Data Validation Report, Level 2B, SDG 580-119342-1
Sump Adit 3	ADIT3-SUMP-WGN02B-2210WK4	580-119363-1	2022-10-27	5801193631_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
RHMW01R	RHMW01R-WGN02B-2210WK4	580-119430-1	2022-10-27	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
RHMW02	RHMW02-WGN02B-2210WK4	580-119481-1	2022-10-27	580119481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119481-1, Level 2	Laboratory Report, SDG 580-119481-1, Level 4	Data Validation Report, Level 2B, SDG 580-119481-1
RHMW03	RHMW03-WGN02B-2210WK4	580-119430-1	2022-10-27	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
RHMW05	RHMW05-WGN02B-2210WK4	580-119430-1	2022-10-27	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
RHMW12A	RHMW12A-WGN02LF-2210WK4	580-119363-1	2022-10-27	580119363_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
RHMW15-05	RHMW15-05-WGN02G-2210WK4	580-119363-1	2022-10-27	580119363_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
RHMW16	RHMW16-WGN02LF-2210WK4	580-119363-1	2022-10-27	580119363_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
RHMW2254-01	RHMW2254-01-WGN02B-2210WK4	580-119363-1	2022-10-27	580119363_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK4	580-119363-1	2022-10-27	580119363_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119363-1, Level 2	Laboratory Report, SDG 580-119363-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119363-1
OWDFMW01	OWDFMW01-WGN02LF-2210WK4	580-119430-1	2022-10-28	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK4	580-119483-1	2022-10-28	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK4	580-119483-1	2022-10-28	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK4	580-119483-1	2022-10-28	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK4	580-119481-1	2022-10-28	580119481_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119481-1, Level 2	Laboratory Report, SDG 580-119481-1, Level 4	Data Validation Report, Level 2B, SDG 580-119481-1
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK4	580-119430-1	2022-10-28	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK4	580-119430-1	2022-10-28	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
RHMW11-05	RHMW11-05-WGN02G-2210WK4	580-119483-1	2022-10-28	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
RHMW13-05	RHMW13-05-WGN02G-2210WK4	580-119483-1	2022-10-28	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
RHMW17	RHMW17-WGN02B-2210WK4	580-119430-1	2022-10-28	580119430_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119430-1, Level 2	Laboratory Report, SDG 580-119430-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119430-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW04A	OWDFMW04A-WGN01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW05A	OWDFMW05A-WGN01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW07A	OWDFMW07A-WGN01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW08A	OWDFMW08A-WGFD01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
OWDFMW08A	OWDFMW08A-WGN01LF-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
RHMW04	RHMW04-WGFD01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW04	RHMW04-WGN01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW06	RHMW06-WGN01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW08	RHMW08-WGN01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW09	RHMW09-WGN01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW13-05	RHMW13-05-WGN01G-2210WK5	580-119483-1	2022-10-31	5801194831_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-119483-1, Level 2, Revision 2	Laboratory Report, SDG 580-119483-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119483-1, Revision
RHMW14-03	RHMW14-03-WGN01G-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
RHMW19	RHMW19-WGN01B-2210WK5	580-119523-1	2022-10-31	5801195231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119523-1, Level 2 Revision 1	Laboratory Report, SDG 580-119523-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119523-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
RHMW01R	RHMW01R-WGN01B-2210WK5	580-119618-1	2022-11-01	580119618_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119618-1, Level 2, Revision 1	Laboratory Report, SDG 580-119618-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119618-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW02	RHMW02-WGN01B-2210WK5	580-119618-1	2022-11-01	580119618_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119618-1, Level 2, Revision 1	Laboratory Report, SDG 580-119618-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119618-1
RHMW03	RHMW03-WGN01B-2210WK5	580-119618-1	2022-11-01	580119618_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119618-1, Level 2, Revision 1	Laboratory Report, SDG 580-119618-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119618-1
RHMW05	RHMW05-WGN01B-2210WK5	580-119618-1	2022-11-01	580119618_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119618-1, Level 2, Revision 1	Laboratory Report, SDG 580-119618-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119618-1
RHMW12A	RHMW12A-WGN01LF-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
RHMW15-05	RHMW15-05-WGN01G-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
RHMW16	RHMW16-WGN01LF-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
RHMW17	RHMW17-WGN01B-2210WK5	580-119618-1	2022-11-01	580119618_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119618-1, Level 2, Revision 1	Laboratory Report, SDG 580-119618-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119618-1
RHMW2254-01	RHMW2254-01-WGN01B-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
RHMW2254-01	RHMW2254-01-WGN01LF-2210WK5	580-119528-1	2022-11-01	5801195281_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119528-1, Level 2, Revision 1	Laboratory Report, SDG 580-119528-1, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119528-1
OWDFMW01	OWDFMW01-WGN01LF-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW04	RHMW04-WGFD02B-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW04	RHMW04-WGN02B-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW06	RHMW06-WGN02B-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW08	RHMW08-WGN02B-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW09	RHMW09-WGN02B-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW11-05	RHMW11-05-WGN01G-2210WK5	580-119659-1	2022-11-02	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW14-03	RHMW14-03-WGN02G-2210WK5	580-119623-1	2022-11-02	5801196231_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119623-1, Level 2, Revision 2	Laboratory Report, SDG 580-119623-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119623-1
RHMW19	RHMW19-WGN02B-2210WK5	580-119659-1	2022-11-02	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
Sump Adit 3	ADIT3-SUMP-WGN02B-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW01R	RHMW01R-WGN02B-2210WK5	580-119733-1	2022-11-03	5801197331_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119733-1, Level 2, Revision 2	Laboratory Report, SDG 580-119733-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119733-1
RHMW02	RHMW02-WGN02B-2210WK5	580-119733-1	2022-11-03	5801197331_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119733-1, Level 2, Revision 2	Laboratory Report, SDG 580-119733-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119733-1
RHMW03	RHMW03-WGN02B-2210WK5	580-119733-1	2022-11-03	5801197331_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119733-1, Level 2, Revision 2	Laboratory Report, SDG 580-119733-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119733-1
RHMW05	RHMW05-WGN02B-2210WK5	580-119733-1	2022-11-03	5801197331_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119733-1, Level 2, Revision 2	Laboratory Report, SDG 580-119733-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119733-1
RHMW12A	RHMW12A-WGN02LF-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW15-05	RHMW15-05-WGN02G-2210WK5	580-119733-1	2022-11-03	5801197331_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119733-1, Level 2, Revision 2	Laboratory Report, SDG 580-119733-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119733-1
RHMW16	RHMW16-WGN02LF-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW17	RHMW17-WGN02B-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW2254-01	RHMW2254-01-WGN02B-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
RHMW2254-01	RHMW2254-01-WGN02LF-2210WK5	580-119659-1	2022-11-03	5801196591_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119659-1, Level 2, Revision 1	Laboratory Report, SDG 580-119659-1, Level 4, Revision 3	Data Validation Report, Level 2B, SDG 580-119659-1
OWDFMW01	OWDFMW01-WGN02LF-2210WK5	580-119804-2	2022-11-04	5801198042_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-2, Level 2, Revision 1	Laboratory Report, SDG 580-119804-2, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119804-2
OWDFMW04A	OWDFMW04A-WGFD02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
OWDFMW04A	OWDFMW04A-WGN02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
OWDFMW05A	OWDFMW05A-WGN02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
OWDFMW07A	OWDFMW07A-WGN02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
OWDFMW08A	OWDFMW08A-WGFD02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
OWDFMW08A	OWDFMW08A-WGN02LF-2210WK5	580-119745-1	2022-11-04	5801197451_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119745-1, Level 2, Revision 1	Laboratory Report, SDG 580-119745-1, Level 4, Revision 2	Data Validation Report, Level 2B, SDG 580-119745-1
RHMW11-05	RHMW11-05-WGN02G-2210WK5	580-119804-2	2022-11-04	5801198042_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-2, Level 2, Revision 1	Laboratory Report, SDG 580-119804-2, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119804-2
RHMW13-05	RHMW13-05-WGN02G-2210WK5	580-119804-2	2022-11-04	5801198042_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-2, Level 2, Revision 1	Laboratory Report, SDG 580-119804-2, Level 4, Revision 1	Data Validation Report, Level 2B, SDG 580-119804-2
Week of 2022-11-07 to 2022-11-11								
RHMW09	RHMW09-WGN01B-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
RHMW12A	RHMW12A-WGN01LF-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
RHMW13-05	RHMW13-05-WGN01G-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
RHMW14-03	RHMW14-03-WGN01G-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
RHMW16	RHMW16-WGN01LF-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
RHMW19	RHMW19-WGN01B-2211WK1	580-119804-1	2022-11-07	5801198041_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119804-1, Level 2, Revision 1	Laboratory Report, SDG 580-119804-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-119804-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
RHMW15-05	RHMW15-05-WGN01G-2211WK1	580-119919-1	2022-11-08	5801199191_L2B	Eurofins Seattle	Laboratory Report, SDG 580-119919-1, Level 2, Revision 1	Laboratory Report, SDG 580-119919-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-119919-1
OWDFMW01	OWDFMW01-WGN02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
OWDFMW08A	OWDFMW08A-WGFD02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
OWDFMW08A	OWDFMW08A-WGN02LF-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
RHMW11-05	RHMW11-05-WGN02G-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
RHMW13-05	RHMW13-05-WGN02G-2211WK1	580-120006-1	2022-11-11	580120006_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120006-1, Level 2	Laboratory Report, SDG 580-120006-1, Level 4	Data Validation Report Level 2B SDG 580-120006-1
Week of 2022-11-14 to 2022-11-18								
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK2	580-120090-1	2022-11-14	5801200901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120090-1, Level 2, Revision 1	Laboratory Report, SDG 580-120090-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120090-1
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK2	580-120090-1	2022-11-14	5801200901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120090-1, Level 2, Revision 1	Laboratory Report, SDG 580-120090-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120090-1
RHMW04	RHMW04-WGFD01B-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
RHMW04	RHMW04-WGN01B-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
RHMW06	RHMW06-WGN01B-2211WK2	580-120090-1	2022-11-14	5801200901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120090-1, Level 2, Revision 1	Laboratory Report, SDG 580-120090-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120090-1
RHMW08	RHMW08-WGN01B-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
RHMW09	RHMW09-WGN01B-2211WK2	580-120090-1	2022-11-14	5801200901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120090-1, Level 2, Revision 1	Laboratory Report, SDG 580-120090-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120090-1
RHMW13-05	RHMW13-05-WGN01G-2211WK2	580-120022-1	2022-11-14	5801200221_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120022-1, Level 2, Revision 1	Laboratory Report, SDG 580-120022-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120022-1REV
RHMW19	RHMW19-WGN01B-2211WK2	580-120090-1	2022-11-14	5801200901_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120090-1, Level 2, Revision 1	Laboratory Report, SDG 580-120090-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120090-1
RHMW15-05	RHMW15-05-WGN02G-2211WK2	580-120243-1	2022-11-17	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
RHMW17	RHMW17-WGN02B-2211WK2	580-120243-1	2022-11-17	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
OWDFMW01	OWDFMW01-WGN02LF-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
OWDFMW04A	OWDFMW04A-WGFD02LF-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
OWDFMW04A	OWDFMW04A-WGN02LF-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
OWDFMW05A	OWDFMW05A-WGN02LF-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
OWDFMW07A	OWDFMW07A-WGN02LF-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
RHMW11-05	RHMW11-05-WGN02G-2211WK2	580-120243-1	2022-11-18	5801202431_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120243-1, Level 2, Revision 1	Laboratory Report, SDG 580-120243-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120243-1
Week of 2022-11-19 to 2022-11-22								
RHMW04	RHMW04-WGFD01B-2211WK3	580-120344-1	2022-11-19	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW04	RHMW04-WGN01B-2211WK3	580-120344-1	2022-11-19	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW06	RHMW06-WGN01B-2211WK3	580-120311-1	2022-11-19	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
RHMW08	RHMW08-WGN01B-2211WK3	580-120311-1	2022-11-19	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
RHMW16	RHMW16-WGN01LF-2211WK3	580-120344-1	2022-11-19	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW19	RHMW19-WGN01B-2211WK3	580-120311-1	2022-11-19	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
Sump Adit 3	ADIT3-SUMP-WGN01B-2211WK3	580-120311-1	2022-11-20	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
OWDFMW01	OWDFMW01-WGN01LF-2211WK3	580-120311-1	2022-11-20	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK3	580-120311-1	2022-11-20	5801203111_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120311-1, Level 2, Revision 1	Laboratory Report, SDG 580-120311-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120311-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
RHMW04	RHMW04-WGFD02B-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
RHMW04	RHMW04-WGN02B-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
RHMW06	RHMW06-WGN02B-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
RHMW08	RHMW08-WGN02B-2211WK3	580-120389-1	2022-11-21	5801203891_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120389-1, Level 2, Revision 1	Laboratory Report, SDG 580-120389-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120389-1
RHMW09	RHMW09-WGN02B-2211WK3	580-120344-1	2022-11-21	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW11-05	RHMW11-05-WGN01G-2211WK3	580-120344-1	2022-11-21	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW14-03	RHMW14-03-WGN01G-2211WK3	580-120344-1	2022-11-21	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
RHMW19	RHMW19-WGN02B-2211WK3	580-120344-1	2022-11-21	5801203441_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120344-1, Level 2, Revision 1	Laboratory Report, SDG 580-120344-1, Level 4, Revision 3	Data Validation Report Level 2B SDG 580-120344-1
Sump Adit 3	ADIT3-SUMP-WGN02B-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
NMW24	NMW24-WGN01B-2211WK3	580-120405-2	2022-11-22	5801204052_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
RHMW01R	RHMW01R-WGN02B-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
RHMW02	RHMW02-WGN02B-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
RHMW03	RHMW03-WGN02B-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2

Table D-1: NOI Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW05	RHMW05-WGN02B-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
RHMW12A	RHMW12A-WGN02LF-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
RHMW13-05	RHMW13-05-WGN02G-2211WK3	580-120410-1	2022-11-22	5801204101_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120410-1, Level 2, Revision 1	Laboratory Report, SDG 580-120410-1, Level 4, Revision 2	Data Validation Report Level 2B SDG 580-120410-1
RHMW15-05	RHMW15-05-WGN02G-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
RHMW16	RHMW16-WGN02LF-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
RHMW17	RHMW17-WGN02B-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
RHMW2254-01	RHMW2254-01-WGN02B-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
RHMW2254-01	RHMW2254-01-WGN02LF-2211WK3	580-120405-1	2022-11-22	580120405_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120405-2, Level 2	Laboratory Report, SDG 580-120405-2, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120405-2
Week of 2022-11-28 to 2022-12-01								
OWDFMW07A	OWDFMW07A-WGN01LF-2211WK4	580-120490-1	2022-11-28	5801204901_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120490-1, Level 2, Revision 1	Laboratory Report, SDG 580-120490-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120490-1REV
OWDFMW08A	OWDFMW08A-WGFD01LF-2211WK4	580-120490-1	2022-11-28	5801204901_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120490-1, Level 2, Revision 1	Laboratory Report, SDG 580-120490-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120490-1REV
OWDFMW08A	OWDFMW08A-WGN01LF-2211WK4	580-120490-1	2022-11-28	5801204901_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120490-1, Level 2, Revision 1	Laboratory Report, SDG 580-120490-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120490-1REV
RHMW15-05	RHMW15-05-WGN01G-2211WK4	580-120490-1	2022-11-28	5801204901_L2B_rev	Eurofins Seattle	Laboratory Report, SDG 580-120490-1, Level 2, Revision 1	Laboratory Report, SDG 580-120490-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120490-1REV
RHMW02	RHMW02-WGN02B-2211WK4	580-120678-1	2022-11-30	5801206781_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120678-1, Level 2, Revision 1	Laboratory Report, SDG 580-120678-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120678-1
RHMW03	RHMW03-WGN02B-2211WK4	580-120678-1	2022-11-30	5801206781_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120678-1, Level 2, Revision 1	Laboratory Report, SDG 580-120678-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120678-1
RHMW04	RHMW04-WGFD01B-2211WK4	580-120703-1	2022-11-30	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
RHMW04	RHMW04-WGN01B-2211WK4	580-120703-1	2022-11-30	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
RHMW06	RHMW06-WGN01B-2211WK4	580-120703-1	2022-11-30	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
RHMW08	RHMW08-WGN01B-2211WK4	580-120703-1	2022-11-30	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
RHMW11-05	RHMW11-05-WGN02G-2211WK4	580-120678-1	2022-11-30	5801206781_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120678-1, Level 2, Revision 1	Laboratory Report, SDG 580-120678-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120678-1
RHMW13-05	RHMW13-05-WGN01G-2211WK4	580-120703-1	2022-11-30	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
OWDFMW04A	OWDFMW04A-WGFD01LF-2211WK4	580-120703-1	2022-12-01	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
OWDFMW04A	OWDFMW04A-WGN01LF-2211WK4	580-120703-1	2022-12-01	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
OWDFMW05A	OWDFMW05A-WGN01LF-2211WK4	580-120703-1	2022-12-01	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1
RHMW12A	RHMW12A-WGN02LF-2211WK4	580-120678-1	2022-12-01	5801206781_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120678-1, Level 2, Revision 1	Laboratory Report, SDG 580-120678-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120678-1
RHMW14-03	RHMW14-03-WGN01G-2211WK4	580-120703-1	2022-12-01	5801207031_L2B	Eurofins Seattle	Laboratory Report, SDG 580-120703-1, Level 2, Revision 1	Laboratory Report, SDG 580-120703-1, Level 4, Revision 1	Data Validation Report Level 2B SDG 580-120703-1

Notes:
COC = chain of custody
DVR = data validation report
Energy = Energy Laboratories
Eurofins Seattle = Eurofins Laboratories, Seattle WA
NOI = Notice of Interest
SDG = sample delivery group

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Week of 2022-10-16 to 2022-10-22								
RHP03	RHP03-WGN01LF-2210WK3	580-118938-1	2022-10-17	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
Field QC	RHP03-WQTB01-2210WK3	580-118938-1	2022-10-17	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
RHP04A	RHP04A-WGN01LF-2210WK3	580-118938-1	2022-10-17	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
RHP01	RHP01-WGN01LF-2210WK2	580-118938-1	2022-10-16	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
Field QC	RHP01-WQTB01-2210WK2	580-118938-1	2022-10-16	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
RHP02	RHP02-WGN01LF-2210WK2	580-118938-1	2022-10-16	Data Validation Report, Level S4VEM, SDG 580-118938-1	Eurofins Seattle	Laboratory Report, SDG 580-118938-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118938-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S4VEM, SDG 580-118938-1, Environmental Data Services, Ltd., 2022-11-15
RHP01	RHP01-WGN01LF-2210WK3	580-118958-1	2022-10-18	Data Validation Report, Level S2BVEM, SDG 580-118958-1	Eurofins Seattle	Laboratory Report, SDG 580-118958-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118958-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-118958-1, Environmental Data Services, Ltd., 2022-11-15
Field QC	RHP01-WQTB01-2210WK3	580-118958-1	2022-10-18	Data Validation Report, Level S2BVEM, SDG 580-118958-1	Eurofins Seattle	Laboratory Report, SDG 580-118958-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118958-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-118958-1, Environmental Data Services, Ltd., 2022-11-15
RHP02	RHP02-WGN01LF-2210WK3	580-118958-1	2022-10-18	Data Validation Report, Level S2BVEM, SDG 580-118958-1	Eurofins Seattle	Laboratory Report, SDG 580-118958-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-118958-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-118958-1, Environmental Data Services, Ltd., 2022-11-15
RHP03	RHP03-WGN02LF-2210WK3	580-119093-1	2022-10-20	Data Validation Report, Level S2BVEM, SDG 580-119093-1	Eurofins Seattle	Laboratory Report, SDG 580-119093-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-02	Laboratory Report, SDG 580-119093-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119093-1, Environmental Data Services, Ltd., 2022-11-15
RHP04A	RHP04A-WGN02LF-2210WK3	580-119093-1	2022-10-20	Data Validation Report, Level S2BVEM, SDG 580-119093-1	Eurofins Seattle	Laboratory Report, SDG 580-119093-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-02	Laboratory Report, SDG 580-119093-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119093-1, Environmental Data Services, Ltd., 2022-11-15
Field QC	RHP03-WQTB02-2210WK3	580-119093-1	2022-10-20	Data Validation Report, Level S2BVEM, SDG 580-119093-1	Eurofins Seattle	Laboratory Report, SDG 580-119093-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-02	Laboratory Report, SDG 580-119093-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119093-1, Environmental Data Services, Ltd., 2022-11-15
RHP01	RHP01-WGN02LF-2210WK3	580-119102-1	2022-10-21	Data Validation Report, Level S2BVEM, SDG 580-119102-1	Eurofins Seattle	Laboratory Report, SDG 580-119102-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-119102-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119102-1, Environmental Data Services, Ltd., 2022-11-15
Field QC	RHP01-WQTB02-2210WK3	580-119102-1	2022-10-21	Data Validation Report, Level S2BVEM, SDG 580-119102-1	Eurofins Seattle	Laboratory Report, SDG 580-119102-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-119102-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119102-1, Environmental Data Services, Ltd., 2022-11-15
RHP02	RHP02-WGN02LF-2210WK3	580-119102-1	2022-10-21	Data Validation Report, Level S2BVEM, SDG 580-119102-1	Eurofins Seattle	Laboratory Report, SDG 580-119102-1, Level 2, Eurofins FGS, Seattle, 2022-11-01	Laboratory Report, SDG 580-119102-1, Level 4, Eurofins FGS, Seattle, 2022-11-01	Data Validation Report, Level S2BVEM, SDG 580-119102-1, Environmental Data Services, Ltd., 2022-11-15
Week of 2022-10-23 to 2022-10-29								
RHP03	RHP03-WGN01LF-2210WK4	580-119310-1	2022-10-25	Data Validation Report, Level S2BVEM, SDG 580-119310-1	Eurofins Seattle	Laboratory Report, SDG 580-119310-1, Level 2 , Eurofins FGS, Seattle, 2022-12-02	Laboratory Report, SDG 580-119310-1, Level 4 , Eurofins FGS, Seattle, 2022-12-02	Data Validation Report, Level S2BVEM, SDG 580-119310-1, Environmental Data Services, Ltd., 2022-12-13
RHP04A	RHP04A-WGN01LF02210WK4	580-119310-1	2022-10-25	Data Validation Report, Level S2BVEM, SDG 580-119310-1	Eurofins Seattle	Laboratory Report, SDG 580-119310-1, Level 2 , Eurofins FGS, Seattle, 2022-12-02	Laboratory Report, SDG 580-119310-1, Level 4 , Eurofins FGS, Seattle, 2022-12-02	Data Validation Report, Level S2BVEM, SDG 580-119310-1, Environmental Data Services, Ltd., 2022-12-13
Field QC	RHP03-WQTB01-2210WK4	580-119310-1	2022-10-25	Data Validation Report, Level S2BVEM, SDG 580-119310-1	Eurofins Seattle	Laboratory Report, SDG 580-119310-1, Level 2 , Eurofins FGS, Seattle, 2022-12-02	Laboratory Report, SDG 580-119310-1, Level 4 , Eurofins FGS, Seattle, 2022-12-02	Data Validation Report, Level S2BVEM, SDG 580-119310-1, Environmental Data Services, Ltd., 2022-12-13
RHP01	RHP01-WGN01LF-2210WK4	580-119325-1	2022-10-26	Data Validation Report, Level S2BVEM, SDG 580-119325-1	Eurofins Seattle	Laboratory Report, SDG 580-119325-1, Level 2 , Eurofins FGS, Seattle, 2022-11-07	Laboratory Report, SDG 580-119325-1, Level 4, Eurofins FGS, Seattle, 2022-11-07	Data Validation Report, Level S2BVEM, SDG 580-119325-1, Environmental Data Services, Ltd., 2022-11-22
RHP02	RHP02-WGN01LF-2210WK4	580-119325-1	2022-10-26	Data Validation Report, Level S2BVEM, SDG 580-119325-1	Eurofins Seattle	Laboratory Report, SDG 580-119325-1, Level 2 , Eurofins FGS, Seattle, 2022-11-07	Laboratory Report, SDG 580-119325-1, Level 4, Eurofins FGS, Seattle, 2022-11-07	Data Validation Report, Level S2BVEM, SDG 580-119325-1, Environmental Data Services, Ltd., 2022-11-22
Field QC	RHP02-WQTB01-2210WK4	580-119325-1	2022-10-26	Data Validation Report, Level S2BVEM, SDG 580-119325-1	Eurofins Seattle	Laboratory Report, SDG 580-119325-1, Level 2 , Eurofins FGS, Seattle, 2022-11-07	Laboratory Report, SDG 580-119325-1, Level 4, Eurofins FGS, Seattle, 2022-11-07	Data Validation Report, Level S2BVEM, SDG 580-119325-1, Environmental Data Services, Ltd., 2022-11-22
RHP03	RHP03-WGN02LF-2210WK4	580-119394-1	2022-10-27	Data Validation Report, Level S2BVEM, SDG 580-119394-1	Eurofins Seattle	Laboratory Report, SDG 580-119394-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119394-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119394-1, Environmental Data Services, Ltd., 2022-11-22
RHP04A	RHP04A-WGN02LF-2210WK4	580-119394-1	2022-10-27	Data Validation Report, Level S2BVEM, SDG 580-119394-1	Eurofins Seattle	Laboratory Report, SDG 580-119394-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119394-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119394-1, Environmental Data Services, Ltd., 2022-11-22
Field QC	RHP03-WQTB02-2210WK4	580-119394-1	2022-10-27	Data Validation Report, Level S2BVEM, SDG 580-119394-1	Eurofins Seattle	Laboratory Report, SDG 580-119394-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119394-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119394-1, Environmental Data Services, Ltd., 2022-11-22

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP01	RHP01-WGN02LF-2210WK4	580-119417-1	2022-10-28	Data Validation Report, Level S2BVEM, SDG 580-119417-1	Eurofins Seattle	Laboratory Report, SDG 580-119417-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119417-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119417-1, Environmental Data Services, Ltd., 2022-11-22
RHP02	RHP02-WGN02LF-2210WK4	580-119417-1	2022-10-28	Data Validation Report, Level S2BVEM, SDG 580-119417-1	Eurofins Seattle	Laboratory Report, SDG 580-119417-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119417-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119417-1, Environmental Data Services, Ltd., 2022-11-22
Field QC	RHP01-WQTB02-2210WK4	580-119417-1	2022-10-28	Data Validation Report, Level S2BVEM, SDG 580-119417-1	Eurofins Seattle	Laboratory Report, SDG 580-119417-1, Level 2, Eurofins FGS, Seattle, 2022-11-08	Laboratory Report, SDG 580-119417-1, Level 4, Eurofins FGS, Seattle, 2022-11-08	Data Validation Report, Level S2BVEM, SDG 580-119417-1, Environmental Data Services, Ltd., 2022-11-22
Week of 2022-10-30 to 2022-11-05								
Field QC	RHP03-WQTB01-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
RHP03	RHP03-WGN01LF-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
Field QC	RHP03-WQFB01LF-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
RHP01	RHP01-WGN01LF-2210WK5	580-119608-1	2022-11-01	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
RHP02	RHP02-WGN01LF-2210WK5	580-119608-1	2022-11-01	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
RHP01	RHP01-WGFD01LF-2210WK5	580-119608-1	2022-11-01	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
Field QC	RHP01-WQTB01-2210WK5	580-119608-1	2022-11-01	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
Field QC	RHP04A-WQTB01-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
RHP04A	RHP04A-WGN01LF-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
Field QC	RHP04A-WQFB01LF-2210WK5	580-119608-1	2022-11-02	Data Validation Report, Level S4VEM, SDG 580-119608-1	Eurofins Seattle	Laboratory Report, SDG 580-119608-1, Level 2, Eurofins FGS, Seattle, 2022-11-14	Laboratory Report, SDG 580-119608-1, Level 4, Eurofins FGS, Seattle, 2022-11-14	Data Validation Report, Level S4VEM, SDG 580-119608-1, Environmental Data Services, Ltd., 2022-11-30
Field QC	RHP04A-WQTB02-2210WK5	580-119730-1	2022-11-04	Data Validation Report, Level S4VEM 580-119730-1	Eurofins Seattle	Laboratory Report, SDG 580-119730-1, Level 2 , Eurofins FGS, Seattle, 2022-11-16	Laboratory Report, SDG 580-119730-1, Level 4 , Eurofins FGS, Seattle, 2022-11-16	Data Validation Report, Level S4VEM 580-119730-1, Environmental Data Services, Ltd., 2022-12-05
RHP04A	RHP04A-WGN02LF-2210WK5	580-119730-1	2022-11-04	Data Validation Report, Level S4VEM 580-119730-1	Eurofins Seattle	Laboratory Report, SDG 580-119730-1, Level 2 , Eurofins FGS, Seattle, 2022-11-16	Laboratory Report, SDG 580-119730-1, Level 4 , Eurofins FGS, Seattle, 2022-11-16	Data Validation Report, Level S4VEM 580-119730-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04A-WQFB02LF-2210WK5	580-119730-1	2022-11-04	Data Validation Report, Level S4VEM 580-119730-1	Eurofins Seattle	Laboratory Report, SDG 580-119730-1, Level 2 , Eurofins FGS, Seattle, 2022-11-16	Laboratory Report, SDG 580-119730-1, Level 4 , Eurofins FGS, Seattle, 2022-11-16	Data Validation Report, Level S4VEM 580-119730-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP01-WQTB02-2210WK5	580-119672-1	2022-11-03	Data Validation Report, Level S2BVEM, SDG 580-119672-1	Eurofins Seattle	Laboratory Report, SDG 580-119672-1, Level 2, Eurofins FGS, Seattle, 2022-11-15	Laboratory Report, SDG 580-119672-1, Level 4, Eurofins FGS, Seattle, 2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-119672-1, Environmental Data Services, Ltd., 2022-11-29
RHP01	RHP01-WQN02LF-2210WK5	580-119672-1	2022-11-03	Data Validation Report, Level S2BVEM, SDG 580-119672-1	Eurofins Seattle	Laboratory Report, SDG 580-119672-1, Level 2, Eurofins FGS, Seattle, 2022-11-15	Laboratory Report, SDG 580-119672-1, Level 4, Eurofins FGS, Seattle, 2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-119672-1, Environmental Data Services, Ltd., 2022-11-29
RHP02	RHP02-WGN02LF-2210WK5	580-119672-1	2022-11-03	Data Validation Report, Level S2BVEM, SDG 580-119672-1	Eurofins Seattle	Laboratory Report, SDG 580-119672-1, Level 2, Eurofins FGS, Seattle, 2022-11-15	Laboratory Report, SDG 580-119672-1, Level 4, Eurofins FGS, Seattle, 2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-119672-1, Environmental Data Services, Ltd., 2022-11-29
Field QC	RHP03-WQTB02-2210WK5	580-119881-1	2022-11-04	Data Validation Report, Level S2BVEM, SDG 580-119881-1	Eurofins Seattle	Laboratory Report, SDG 580-119881-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Laboratory Report, SDG 580-119881-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Data Validation Report, Level S2BVEM, SDG 580-119881-1, Environmental Data Services, Ltd., 2022-12-05
RHP03	RHP03-WGN02LF-2210WK5	580-119881-1	2022-11-04	Data Validation Report, Level S2BVEM, SDG 580-119881-1	Eurofins Seattle	Laboratory Report, SDG 580-119881-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Laboratory Report, SDG 580-119881-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Data Validation Report, Level S2BVEM, SDG 580-119881-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP03-WQFB02LF-2210WK5	580-119881-1	2022-11-04	Data Validation Report, Level S2BVEM, SDG 580-119881-1	Eurofins Seattle	Laboratory Report, SDG 580-119881-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Laboratory Report, SDG 580-119881-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-11-18	Data Validation Report, Level S2BVEM, SDG 580-119881-1, Environmental Data Services, Ltd., 2022-12-05

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Week of 2022-11-06 to 2022-11-12								
Field QC	RHP01-WQTB01-2211WK1	580-119930-1	2022-11-08	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
RHP01	RHP01-WGN01LF-2211WK1	580-119930-1	2022-11-08	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
RHP01	RHP01WGFD01LF-2211WK1	580-119930-1	2022-11-08	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
RHP02	RHP02-WGN01LF-2211WK1	580-119930-1	2022-11-08	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04B-WQTB-2211WK1	580-119930-1	2022-11-09	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGN01LF-2211WK1	580-119930-1	2022-11-09	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGFD01LF-2211WK1	580-119930-1	2022-11-09	Data Validation Report, Level S4VEM 580-119930-1	Eurofins Seattle	Laboratory Report, SDG 580-119930-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119930-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S4VEM 580-119930-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04B-WQTB-2211WK1	580-119902-1	2022-11-09	Data Validation Report, Level S4VEM 580-119902-1	Eurofins Seattle	Laboratory Report, SDG 580-119902-1, Level 2, Eurofins FGS, Seattle, 2022-11-21	Laboratory Report, SDG 580-119902-1, Level 4, Eurofins FGS, Seattle, 2022-11-21	Data Validation Report, Level S4VEM 580-119902-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGN01LF-2211WK1	580-119902-1	2022-11-09	Data Validation Report, Level S4VEM 580-119902-1	Eurofins Seattle	Laboratory Report, SDG 580-119902-1, Level 2, Eurofins FGS, Seattle, 2022-11-21	Laboratory Report, SDG 580-119902-1, Level 4, Eurofins FGS, Seattle, 2022-11-21	Data Validation Report, Level S4VEM 580-119902-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGFD01LF-2211WK1	580-119902-1	2022-11-09	Data Validation Report, Level S4VEM 580-119902-1	Eurofins Seattle	Laboratory Report, SDG 580-119902-1, Level 2, Eurofins FGS, Seattle, 2022-11-21	Laboratory Report, SDG 580-119902-1, Level 4, Eurofins FGS, Seattle, 2022-11-21	Data Validation Report, Level S4VEM 580-119902-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP03-WQTB01-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
RHP03	RHP03-WGN01LF-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP03-WGFB01LF-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP01-WQTB02-WW11WK1	580-119983-1	2022-11-10	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
RHP01	RHP01-WGN02LF-2211WK1	580-119983-1	2022-11-10	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
RHP02	RHP02-WGN02LF-2211WK1	580-119983-1	2022-11-10	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04A-WQTB01-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
RHP04A	RHP04A-WGN01LF-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04A-WQFB01LF-2211WK1	580-119983-1	2022-11-09	Data Validation Report, Level S2BVEM, SDG 580-119983-1	Eurofins Seattle	Laboratory Report, SDG 580-119983-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119983-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119983-1, Environmental Data Services, Ltd., 2022-12-05
Field QC	RHP04A-WQTB02-2211WK1	580-120005-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120005-1	Eurofins Seattle	Laboratory Report, SDG 580-120005-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120005-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120005-1, Environmental Data Services, Ltd., 2022-12-16
RHP04A	RHP04A-WGN02LF-2211WK1	580-120005-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120005-1	Eurofins Seattle	Laboratory Report, SDG 580-120005-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120005-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120005-1, Environmental Data Services, Ltd., 2022-12-16
Field QC	RHP04A-WQFB02LF-2211WK1	580-120005-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120005-1	Eurofins Seattle	Laboratory Report, SDG 580-120005-1, Level 2 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120005-1, Level 4 Rev(1), Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120005-1, Environmental Data Services, Ltd., 2022-12-16
Field QC	RHP04B-WQTB02-2211WK1	580-119988-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-119988-1	Eurofins Seattle	Laboratory Report, SDG 580-119988-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119988-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119988-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGN02LF-2211WK1	580-119988-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-119988-1	Eurofins Seattle	Laboratory Report, SDG 580-119988-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119988-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119988-1, Environmental Data Services, Ltd., 2022-12-05

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
Field QC	RHP04B-WQTB02-2211WK1	580-119988-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-119988-1	Eurofins Seattle	Laboratory Report, SDG 580-119988-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119988-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119988-1, Environmental Data Services, Ltd., 2022-12-05
RHP04B	RHP04B-WGN02LF-2211WK1	580-119988-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-119988-1	Eurofins Seattle	Laboratory Report, SDG 580-119988-1, Level 2, Eurofins FGS, Seattle, 2022-11-22	Laboratory Report, SDG 580-119988-1, Level 4, Eurofins FGS, Seattle, 2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-119988-1, Environmental Data Services, Ltd., 2022-12-05
Week of 2022-11-13 to 2022-11-18								
Field QC	RHP01-WQTB01-2211WK2	580-120080-1	2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-120080-1	Eurofins Seattle	Laboratory Report, SDG 580-120080-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120080-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120080-1, Environmental Data Services, Ltd., 2022-12-12
RHP01	RHP02-WGN01LF-2211WK2	580-120080-1	2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-120080-1	Eurofins Seattle	Laboratory Report, SDG 580-120080-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120080-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120080-1, Environmental Data Services, Ltd., 2022-12-12
RHP01	RHP01-WGFD01LF-2211WK2	580-120080-1	2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-120080-1	Eurofins Seattle	Laboratory Report, SDG 580-120080-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120080-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120080-1, Environmental Data Services, Ltd., 2022-12-12
RHP02	RHP02-WGN01LF-2211WK2	580-120080-1	2022-11-15	Data Validation Report, Level S2BVEM, SDG 580-120080-1	Eurofins Seattle	Laboratory Report, SDG 580-120080-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120080-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120080-1, Environmental Data Services, Ltd., 2022-12-12
Field QC	RHP03-WQTB02-2211WK1	580-120079-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120079-1	Eurofins Seattle	Laboratory Report, SDG 580-120079-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120079-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120079-1, Environmental Data Services, Ltd., 2022-12-12
RHP03	RHP03-WGN02LF-2211WK1	580-120079-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120079-1	Eurofins Seattle	Laboratory Report, SDG 580-120079-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120079-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120079-1, Environmental Data Services, Ltd., 2022-12-12
Field QC	RHP03-WQFB02LF-2211WK1	580-120079-1	2022-11-11	Data Validation Report, Level S2BVEM, SDG 580-120079-1	Eurofins Seattle	Laboratory Report, SDG 580-120079-1, Level 2, Eurofins FGS, Seattle, 2022-11-29	Laboratory Report, SDG 580-120079-1, Level 4, Eurofins FGS, Seattle, 2022-11-29	Data Validation Report, Level S2BVEM, SDG 580-120079-1, Environmental Data Services, Ltd., 2022-12-12
Field QC	RHP04A-WQTB01-2211WK2	580-120148-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120148-1	Eurofins Seattle	Laboratory Report, SDG 580-120148-1, Level 2, Eurofins FGS, Seattle, 2022-11-30	Laboratory Report, SDG 580-120148-1, Level 4, Eurofins FGS, Seattle, 2022-11-30	Data Validation Report, Level S2BVEM, SDG 580-120148-1, Environmental Data Services, Ltd., 2022-12-12
RHP04A	RHP04A-WGN01LF-2211WK2	580-120148-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120148-1	Eurofins Seattle	Laboratory Report, SDG 580-120148-1, Level 2, Eurofins FGS, Seattle, 2022-11-30	Laboratory Report, SDG 580-120148-1, Level 4, Eurofins FGS, Seattle, 2022-11-30	Data Validation Report, Level S2BVEM, SDG 580-120148-1, Environmental Data Services, Ltd., 2022-12-12
RHP04B	RHP04B-WGN01LF-2211WK2	580-120148-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120148-1	Eurofins Seattle	Laboratory Report, SDG 580-120148-1, Level 2, Eurofins FGS, Seattle, 2022-11-30	Laboratory Report, SDG 580-120148-1, Level 4, Eurofins FGS, Seattle, 2022-11-30	Data Validation Report, Level S2BVEM, SDG 580-120148-1, Environmental Data Services, Ltd., 2022-12-12
Field QC	RHP03-WQTB01-2211WK2	580-120194-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
RHP03	RHP03-WGN01LF-2211WK2	580-120194-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP03-WQFB01-2211WK2	580-120194-1	2022-11-16	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP01-WQTB02-2211WK2	580-120194-1	2022-11-17	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
RHP01	RHP01-WGN02LF-2211WK2	580-120194-1	2022-11-17	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
RHP02	RHP02-WGN02LF-2211WK2	580-120194-1	2022-11-17	Data Validation Report, Level S2BVEM, SDG 580-120194-1	Eurofins Seattle	Laboratory Report, SDG 580-120194-1, Level 2 , Eurofins FGS, Seattle, 2022-12-06	Laboratory Report, SDG 580-120194-1, Level 4, Eurofins FGS, Seattle, 2022-12-06	Data Validation Report, Level S2BVEM, SDG 580-120194-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP03-WQTB02-2211WK2	580-120241-1	2022-11-18	Data Validation Report, Level S4VEM 580-120241-1	Eurofins Seattle	Laboratory Report, SDG 580-120241-1, Level 2, Eurofins FGS, Seattle, 2022-12-05	Laboratory Report, SDG 580-120241-1, Level 4, Eurofins FGS, Seattle, 2022-12-05	Data Validation Report, Level S4VEM 580-120241-1, Environmental Data Services, Ltd., 2022-12-13
RHP03	RHP03-WGN02LF-2211WK2	580-120241-1	2022-11-18	Data Validation Report, Level S4VEM 580-120241-1	Eurofins Seattle	Laboratory Report, SDG 580-120241-1, Level 2, Eurofins FGS, Seattle, 2022-12-05	Laboratory Report, SDG 580-120241-1, Level 4, Eurofins FGS, Seattle, 2022-12-05	Data Validation Report, Level S4VEM 580-120241-1, Environmental Data Services, Ltd., 2022-12-13
Field QC	RHP04A-WQTB02-2211WK2	580-120241-1	2022-11-18	Data Validation Report, Level S4VEM 580-120241-1	Eurofins Seattle	Laboratory Report, SDG 580-120241-1, Level 2, Eurofins FGS, Seattle, 2022-12-05	Laboratory Report, SDG 580-120241-1, Level 4, Eurofins FGS, Seattle, 2022-12-05	Data Validation Report, Level S4VEM 580-120241-1, Environmental Data Services, Ltd., 2022-12-13
RHP04A	RHP04A-WGN02LF-2211WK2	580-120241-1	2022-11-18	Data Validation Report, Level S4VEM 580-120241-1	Eurofins Seattle	Laboratory Report, SDG 580-120241-1, Level 2, Eurofins FGS, Seattle, 2022-12-05	Laboratory Report, SDG 580-120241-1, Level 4, Eurofins FGS, Seattle, 2022-12-05	Data Validation Report, Level S4VEM 580-120241-1, Environmental Data Services, Ltd., 2022-12-13
RHP04B	RHP04B-WGN02LF-2211WK2	580-120241-1	2022-11-18	Data Validation Report, Level S4VEM 580-120241-1	Eurofins Seattle	Laboratory Report, SDG 580-120241-1, Level 2, Eurofins FGS, Seattle, 2022-12-05	Laboratory Report, SDG 580-120241-1, Level 4, Eurofins FGS, Seattle, 2022-12-05	Data Validation Report, Level S4VEM 580-120241-1, Environmental Data Services, Ltd., 2022-12-13
Week of 2022-11-19 to 2022-11-26								
Field QC	RHP02-WQTB01-2211WK3	580-120337-1	2022-11-19	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP02	RHP02-WGN01LF-2211WK3	580-120337-1	2022-11-19	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
RHP02	RHP02-WGFD01LF-2211WK3	580-120337-1	2022-11-19	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP01-WQTB01-2211WK3	580-120337-1	2022-11-19	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
RHP01	RHP01-WGN01LF-2211WK3	580-120337-1	2022-11-19	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP04A-WQTB01-2211WK3	580-120337-1	2022-11-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
RHP04A	RHP04A-WGN01LF-2211WK3	580-120337-1	2022-11-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
RHP04B	RHP04B-WGN01LF-2211WK3	580-120337-1	2022-11-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP03-WQTB01-2211WK3	580-120337-1	2022-11-20	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
RHP03	RHP03-WGN01LF-2211WK3	580-120337-1	2022-11-20	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP03-WQFB01LF-2211WK3	580-120337-1	2022-11-20	Data Validation Report, Level S2BVEM, SDG 580-120337-1	Eurofins Seattle	Laboratory Report, SDG 580-120337-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120337-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-21	Data Validation Report, Level S2BVEM, SDG 580-120337-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP01-WQTB02-2211WK3	580-120391-1	2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-120391-1	Eurofins Seattle	Laboratory Report, SDG 580-120391-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120391-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120391-1, Environmental Data Services, Ltd., 2022-12-22
RHP01	RHP01-WGN02LF-2211WK3	580-120391-1	2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-120391-1	Eurofins Seattle	Laboratory Report, SDG 580-120391-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120391-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120391-1, Environmental Data Services, Ltd., 2022-12-22
RHP02	RHP02-WGN02LF-2211WK3	580-120391-1	2022-11-22	Data Validation Report, Level S2BVEM, SDG 580-120391-1	Eurofins Seattle	Laboratory Report, SDG 580-120391-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120391-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120391-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP03-WQTB02-2211WK3	580-120451-1	2022-11-23	Data Validation Report, Level S2BVEM, SDG 580-120451-1	Eurofins Seattle	Laboratory Report, SDG 580-120451-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120451-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120451-1, Environmental Data Services, Ltd., 2022-12-22
RHP03	RHP03-WGN02LF-2211WK3	580-120451-1	2022-11-23	Data Validation Report, Level S2BVEM, SDG 580-120451-1	Eurofins Seattle	Laboratory Report, SDG 580-120451-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120451-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120451-1, Environmental Data Services, Ltd., 2022-12-22
Field QC	RHP04A-WQTB02-2211WK3	580-120451-1	2022-11-23	Data Validation Report, Level S2BVEM, SDG 580-120451-1	Eurofins Seattle	Laboratory Report, SDG 580-120451-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120451-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120451-1, Environmental Data Services, Ltd., 2022-12-22
RHP04A	RHP04A-WGN02LF-2211WK3	580-120451-1	2022-11-23	Data Validation Report, Level S2BVEM, SDG 580-120451-1	Eurofins Seattle	Laboratory Report, SDG 580-120451-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120451-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120451-1, Environmental Data Services, Ltd., 2022-12-22
RHP04B	RHP04B-WGN02LF-2211WK3	580-120451-1	2022-11-23	Data Validation Report, Level S2BVEM, SDG 580-120451-1	Eurofins Seattle	Laboratory Report, SDG 580-120451-1 UDS, Level 2 , Eurofins FGS, Seattle, 2022-12-09	Laboratory Report, SDG 580-120451-1 UDS, Level 4 , Eurofins FGS, Seattle, 2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-120451-1, Environmental Data Services, Ltd., 2022-12-22
Week of 2022-11-27 to 2022-12-03								
Field QC	NMW24-TB01B-2211WK4	580-120694-1	2022-12-01	Data Validation Report, Level S4VEM 580-120694-1	Eurofins Seattle	Laboratory Report, SDG 580-120694-1, Level 2 Rev(1) , Eurofins FGS, Seattle, 2022-12-15	Laboratory Report, SDG 580-120694-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-15	Data Validation Report, Level S4VEM 580-120694-1, Environmental Data Services, Ltd., 2023-01-23
NMW24	NMW24-WGN01B-2211WK4	580-120694-1	2022-12-01	Data Validation Report, Level S4VEM 580-120694-1	Eurofins Seattle	Laboratory Report, SDG 580-120694-1, Level 2 Rev(1) , Eurofins FGS, Seattle, 2022-12-15	Laboratory Report, SDG 580-120694-1, Level 4 Rev(1) , Eurofins FGS, Seattle, 2022-12-15	Data Validation Report, Level S4VEM 580-120694-1, Environmental Data Services, Ltd., 2023-01-23
Week of 2022-12-04 to 2022-12-10								
Field QC	NMW24-WQTB01-2212WK1	580-121100-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121100-1	Eurofins Seattle	Laboratory Report, SDG 580-121100-1, Level 2 , Eurofins FGS, Seattle, 2022-12-29	Laboratory Report, SDG 580-121100-1, Level 4 , Eurofins FGS, Seattle, 2022-12-29	Data Validation Report, Level S2BVEM, SDG 580-121100-1, Environmental Data Services, Ltd., 2023-01-27
NMW24	NMW24-WGN01B-2212WK1	580-121100-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121100-1	Eurofins Seattle	Laboratory Report, SDG 580-121100-1, Level 2 , Eurofins FGS, Seattle, 2022-12-29	Laboratory Report, SDG 580-121100-1, Level 4 , Eurofins FGS, Seattle, 2022-12-29	Data Validation Report, Level S2BVEM, SDG 580-121100-1, Environmental Data Services, Ltd., 2023-01-27
Field QC	RHP04A-WQTB01-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23
RHP04A	RHP04A-WGN01LF-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23

Table D-2: Delineation and Sentinel Wells Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	COC Identifier	SDG	Sample Collection Date	DVR	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP04B	RHP04B-WGN01LF-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23
Field QC	RHP03-WQTB01-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23
RHP03	RHP03-WGN01LF-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23
Field QC	RHP03-WQFB-2212WK1	580-121140-1	2022-12-09	Data Validation Report, Level S4VEM 580-121140-1	Eurofins Seattle	Laboratory Report, SDG 580-121140-1, Level 2 , Eurofins FGS, Seattle, 2022-12-16	Laboratory Report, SDG 580-121140-1, Level 4 , Eurofins FGS, Seattle, 2022-12-16	Data Validation Report, Level S4VEM 580-121140-1, Environmental Data Services, Ltd., 2023-01-23
Field QC	RHP02-WQTB01-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27
RHP02	RHP02-WGN01LF-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27
RHP02	RHP02-WQFD01LF-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27
Field QC	RHP01-WQTB01-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27
RHP01	RHP01-WGN01LF-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27
Field QC	RHP01-WQEB01-2212WK1	580-121186-1	2022-12-09	Data Validation Report, Level S2BVEM, SDG 580-121186-1	Eurofins Seattle	Laboratory Report, SDG 580-121186-1, Level 2, Eurofins FGS, Seattle, 2023-01-18	Laboratory Report, SDG 580-121186-1, Level 4, Eurofins FGS, Seattle, 2023-01-18	Data Validation Report, Level S2BVEM, SDG 580-121186-1, Environmental Data Services, Ltd., 2023-01-27