Navy Closure Task Force

Quarterly Release Response Report, Red Hill Bulk Fuel Storage Facility

JBPHH, O‘ahu, Hawai‘i

DOH Facility ID No. 9-102271
DOH UST Release ID Nos. 990051, 010011, 140010, 210012
DOH HEER Release Incident Case Nos. 20210507-0852, 20211120-2330

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Executive Summary

This Quarterly Release Response Report covering the reporting period October 9, 2024 to January 7, 2025, was prepared for Naval Facilities Engineering Systems Command, Hawaii by AECOM Technical Services, Inc. for the Red Hill Bulk Fuel Storage Facility (Facility) in accordance with the State of Hawai‘i Department of Health (DOH) Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan (TGM) (DOH 2024c). It presents results of soil vapor and groundwater monitoring conducted in accordance with the Red Hill Consolidated Groundwater Sampling Program (DOH 2024b). The Spring 2024 TGM updates include revision to the total petroleum hydrocarbon (TPH) Environmental Action Levels (EAL) for groundwater samples and comparison to the total concentration of petroleum hydrocarbons (DOH 2024c). The groundwater data reporting also includes laboratory data for samples collected prior to this period that were finalized (validated) during this period.

This Quarterly Release Response Report summarizes release response activities conducted pursuant to Hawai‘i Administrative Rules Section 11-280.1 and DOH Notices of Interest for fuel releases from the Facility in January 2014, May 2021, and November 2021. This report also discusses activities and data previously presented in Quarterly Groundwater Monitoring Reports that were prepared pursuant to the Red Hill *Groundwater Protection Plan* (DON 2014a). In addition to documenting monitoring results, this report presents a plan for future release response actions to be taken.

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

- Continued soil vapor monitoring in the Facility tank farm and in the (b) (3) (A) Tunnels.
- Continued gauging of light nonaqueous-phase liquid and collection of headspace measurements, purge water natural chemistry parameters, and samples from groundwater monitoring wells for analysis of chemicals of potential concern and natural attenuation and general chemistry parameters.
- Continued expansion of the groundwater monitoring network.
- Continued operation of the granular activated carbon (GAC) system at Red Hill Shaft.
- Continued site characterization planning activities for the CHT Tank
- Continued follow-on site characterization planning activities for the HT-LT area
- Continued planning activities for the (b) (3) (A) remediation and treatability study pilot test

Results from this reporting period indicate the following:

- Soil vapor impacts associated with the January 2014, May 2021, and November 2021 Releases continue to decrease over time, consistent with natural attenuation of light nonaqueous-phase liquid in the environment.
- Groundwater concentrations for all fuel-related contaminants continue to decline or remain stable over time. All data collected to date demonstrate that groundwater impacts are undergoing natural attenuation, including biodegradation. Groundwater analytical detections and exceedances are summarized in Table ES-1.

Table ES-1: Summary of Analytical Detections and Exceedances in Groundwater, Current Reporting Period

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW2254-01	None	None
RHSF-PUMP	None	None
RHMW01R	DRO (not consistently lower after SGC)	None
RHMW02	GRO DRO (lower after SGC) ORO (lower after SGC) 1-Methylnaphthalene Naphthalene	TPH exceeded in all 6 samples, at concentrations ranging from 1,330 to 2,365 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW03	DRO (lower after SGC) ORO (not consistently lower after SGC)	TPH exceeded in 3 of 7 samples, at concentrations ranging from 195 to 233 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW04	None	None
RHMW05	DRO (ND after SGC) ORO (ND after SGC)	TPH exceeded in 1 of 4 samples, at a concentration of 321 µg/L (screening criterion: 193 µg/L)
RHMW06	GRO	None
RHMW08	None	None
RHMW09	None	None
RHMW10	None	None
RHMW11-05	None	None
RHMW12A	None	None
RHMW13-04	None	None
RHMW14-03	None	None
RHMW15-05	None	None
RHMW16	None	None
RHMW17	DRO (lower after SGC) ORO (ND after SGC)	TPH exceeded in 2 of 16 samples, at concentrations of 273 and 372 µg/L (screening criterion: 193 µg/L)
RHMW18	None	None
RHMW19	None	None
RHMW20	None	None
RHMW21	DRO (ND after SGC)	None
HDMW2253-01	None	None
RHP01	DRO (ND after SGC) ORO (ND after SGC)	TPH exceeded in 1 of 7 samples, at a concentration of 496 µg/L (screening criterion: 193 µg/L)
RHP02	None	None
RHP03	None	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHP04A	None	None
RHP04B	DRO (ND after SGC)	None
RHP04C	None	None
RHP05	DRO (lower after SGC) ORO (lower after SGC)	TPH exceeded in 1 of 9 samples, at a concentration of 455 µg/L (screening criterion: 193 µg/L)
RHP06	None	None
RHP07	None	None
RHP08	DRO (not consistently lower after SGC) ORO (not consistently lower after SGC)	TPH exceeded in 3 of 10 samples, at concentrations ranging from 217 to 749 µg/L (screening criterion: 193 µg/L)
RHP08B	ORO (ND after SGC)	None
RHP08C	None	None
NMW24	None	None
NMW25	DRO (lower after SGC) ORO (lower after SGC)	TPH exceeded in 1 of 7 samples, at a concentration of 307 µg/L (screening criterion: 193 µg/L)
NMW26	ORO (ND after SGC)	None
NMW27	None	None
NMW30	None	None
NMW32	None	None
NMW33	None	None
NMW34	None	None
OWDFMW03A	None	None
OWDFMW08A	None	None

Note: DOH Environmental Action Level (EAL) screening criteria are not intended to represent mandatory cleanup levels. Exceedance of an action level does not necessarily indicate that an adverse health risk is present, but rather that additional analyses are warranted (DOH 2024a, Vol 1, pg. 1–8).

µg/L	micrograms per liter	OWDF	Oily Waste Disposal Facility
COPC	chemical of potential concern	RHSF	Red Hill Shaft Facility
DRO	diesel range organics	SGC	silica gel cleanup
GRO	gasoline range organics	SSRBL	Site-Specific Risk-Based Level
ND	non-detect	TPH	total petroleum hydrocarbons
ORO	residual oil range organics		

[a] SSRBLs from the *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* (DON 2014a) and the Regulatory Agencies' February 4, 2016, scoping completion letter (EPA Region 9 and DOH 2016).

[b] SSRBLs apply only to groundwater sample results from monitoring wells RHMW01, RHMW02, and RHMW03 as designated in the Regulatory Agencies' February 4, 2016, scoping completion letter (EPA Region 9 and DOH 2016).

In addition to the site characterization activities described in this report, the United States Department of the Navy has conducted fuel recovery efforts since December 2021, including use of absorbent materials, skimmers, direct recovery from piping, soil excavation, and operation of the GAC system.

Planned future actions include:

- Continued soil vapor monitoring at sampling locations within the Facility tank farm and in the (b) (3) (A) Tunnels near Red Hill Shaft
- Continued groundwater sampling from the Red Hill monitoring well network in accordance with the Consolidated Groundwater Sampling Program (DOH 2024b)
- Continued installation of new groundwater monitoring wells
- Continued operation of the GAC system at Red Hill Shaft
- Continued site characterization activities at the CHT Tank, HT-LT area, and in the (b) (3) (A) Tunnels near Red Hill Shaft
- Continued remediation pilot test in the (b) (3) (A) Tunnels near Red Hill Shaft

The United States Department of the Navy continues to expand the onsite and offsite groundwater monitoring well network, including establishing new well locations to monitor groundwater quality between Red Hill and offsite water supply wells, including additional offsite sentinel wells and plume delineation wells within the Facility boundaries to provide early warning of offsite contaminant migration. New sentinel well locations are being installed to monitor groundwater quality between Red Hill and offsite water supply wells. Activities and sampling of the Joint Base Pearl Harbor-Hickam Water Distribution System (regulated by the DOH Safe Drinking Water Branch) and the November 29, 2022, aqueous film-forming foam release outside Adit 6 (being investigated separately) are not addressed in this Quarterly Release Response Report.

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Acronyms and Abbreviations

%D	percent difference
%RSD	percent relative standard deviation
°C	degrees Celsius
µg/L	micrograms per liter
1MN	1-methylnaphthalene
2-2-MEE	2-(2-methoxyethoxy)-ethanol
2MN	2-methylnaphthalene
AOC	Administrative Order on Consent
AS	air sparging
BTEX	benzene, toluene, ethylbenzene, and total xylenes
BWS	Board of Water Supply, City and County of Honolulu
CCV	continuing calibration verification
CF&T	contaminant fate and transport
CHT	collection, holding, and transfer
COPC	chemical of potential concern
CSM	conceptual site model
DEP	Department of Environmental Protection
DO	dissolved oxygen
DOC	dissolved organic carbon
DoD	Department of Defense, United States
DOH	Department of Health, State of Hawai‘i
DQI	data quality indicator
DRO	diesel range organics
EAL	Environmental Action Level
EDMS	Environmental Data Management System
EDS	Environmental Data Services, Ltd.
Energy	Energy Laboratories, Inc.
EPA	Environmental Protection Agency, United States
ESI	Environmental Standards, Inc.
Facility	Red Hill Bulk Fuel Storage Facility
FD	field duplicate
FL PRO	Florida Petroleum Residual Organic
ft	foot or feet
GAC	granular activated carbon
GRO	gasoline range organics
GW	groundwater
GWPP	Groundwater Protection Plan
H_2SO_4	sulfuric acid
HCl	hydrochloric acid
HEER	Hazard Evaluation and Emergency Response
HNO_3	nitric acid
HT-LT	Holding Tank-Leach Tank
ID	identification
IDW	investigation-derived waste
JBPHH	Joint Base Pearl Harbor-Hickam
JP	Jet Fuel Propellant
L	liter
LCS	laboratory control sample
LCSD	laboratory control sample duplicate

LNAPL	light nonaqueous-phase liquid
LOD	limit of detection
LOQ	limit of quantitation
LTM	long-term monitoring
mg/L	milligrams per liter
MS	matrix spike
MSD	matrix spike duplicate
msl	mean sea level
NAP	natural attenuation parameter
NAVFAC	Naval Facilities Engineering Systems Command
Navy	Department of the Navy, United States
NOI	Notice of Interest
NSZD	natural source-zone depletion
NVDOC	non-volatile dissolved organic carbon
ORO	residual oil range organics
ORP	oxidation-reduction potential
OU	Operable Unit
OWDF	Oily Waste Disposal Facility
PAH	polynuclear aromatic hydrocarbon
PID	photoionization detector
ppm	part per million
ppmv	part per million by volume
QC	quality control
RHSF	Red Hill Shaft Facility
RI	remedial investigation
RPD	relative percent difference
RRR	Release Response Report
SAP	sampling and analysis plan
scfm	standard cubic feet per minute
SGC	silica gel cleanup
SIM	selected ion monitoring
SVE	soil vapor extraction
SVMP	soil vapor monitoring point
SVOC	semivolatile organic compound
TEA	terminal electron acceptor
TEH	total extractable hydrocarbons
TIC	tentatively identified compound
TOC	total organic carbon
TPH	total petroleum hydrocarbons
U.S.	United States
UH	University of Hawai‘i
UJ	not-detected estimated
UST	underground storage tank
VOA	volatile organic analysis
VOC	volatile organic compound

1.0 Introduction and Purpose

This Quarterly Release Response Report (RRR) presents the results of groundwater and soil vapor sampling conducted during the current reporting period of October 9, 2024 to January 7, 2025, for monitoring locations at the Red Hill Bulk Fuel Storage Facility (Facility), Joint Base Pearl Harbor-Hickam (JBPHH), Oʻahu, Hawaiʻi. Because this RRR provides quarterly long-term monitoring (LTM) data and evaluation, a separate Quarterly Groundwater Monitoring Report is not required.

Release response efforts documented herein were conducted due to the following petroleum releases to the environment at the Facility (release locations are shown on Figure 1):

- **January 2014 Release:** On January 23, 2014, the United States (U.S.) Department of the Navy (Navy) reported to the State of Hawaiʻi Department of Health (DOH) a release of an estimated 27,000 gallons of Jet Fuel Propellant (JP)-8 from one of the Facility's underground fuel storage tanks (Tank 5). The release occurred when placing the tank back in service following a 3-year inspection and refurbishment process completed in December 2013.
- **May 2021 Release:** On May 6, 2021, a JP-5 pipeline near Facility Tanks 18 and 20 was damaged during a fuel transfer procedure. Fuel was released to the Lower Access Tunnel floor. It was later determined that some of the fuel entered soil vapor monitoring boreholes, which are in contact with the surrounding basalt, and some of the fuel was pumped from a fire suppression system sump in the access tunnel into the fire suppression system recovery line. The fuel remained contained in the fire suppression system recovery line until it was damaged on November 20, 2021.
- **November 2021 Release:** On November 20, 2021, fuel in the fire suppression system recovery line was released into the (b) (3) (A) Tunnel, traveled on the concrete tunnel floor toward the (b) (3) (A) portal, and collected in a sump ((b) (3) (A) Sump) and a sanitary sewer sump near the (b) (3) (A) portal. Fuel that entered the (b) (3) (A) Sump was either recovered, released to the subsurface through the Hume line, or pumped from the sump to an underground Holding Tank-Leach Tank (HT-LT) system (b) (3) (A) portal, where it was released to the subsurface. Fuel that entered the sanitary sewer sump was pumped to an aboveground Collection, Holding, and Transfer (CHT) Tank system (b) (3) (A) portal, which overflowed to the surrounding asphalt-covered work area during heavy rains in January 2022. The remainder of the fuel entered the subsurface (soil or volcanic bedrock) near Navy Well 2254-01 (Red Hill Shaft). Some of the fuel entered the JBPHH Water Distribution System. Red Hill Shaft ceased pumping on November 28, 2021, and was isolated from the JBPHH Water Distribution System. Release response activities are ongoing.

This report includes laboratory data that were finalized (validated) during this period, not necessarily from samples collected during this period due to the time lag between sample collection and validation. Specifically, as required by Hawaiʻi Administrative Rules Section 11-280.1-65.2(b), this report describes:

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

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

- Continued soil vapor monitoring in the Facility tank farm and in the (b) (3) (A) Tunnels

- Continued gauging of light nonaqueous-phase liquid (LNAPL) and collection of headspace measurements and purge water natural chemistry parameters in groundwater monitoring wells
- Continued groundwater sampling and analysis and expansion of the groundwater monitoring network
- Continued operation of the granular activated carbon (GAC) system at Red Hill Shaft
- Continued site characterization activities for (b) (3) (A) Tunnel
- Continued site characterization planning activities for the CHT Tank
- Continued follow-on site characterization planning activities for the HT-LT area
- Continued planning activities for the (b) (3) (A) remediation and treatability study pilot test

This report presents field observations and final analytical results available through this reporting period, including:

- Results from soil vapor field measurements using photoionization detectors (PIDs)
- Unvalidated results from a fixed-based laboratory for soil vapor passivated canister samples
- Results from monitoring well LNAPL gauging and measurements of headspace, water levels, and groundwater parameters
- Validated laboratory results for groundwater samples

Separate reporting has been provided to the Regulatory Agencies (DOH and the U.S. Environmental Protection Agency [EPA]) for investigations conducted at the (b) (3) (A) Tunnel area, the Holding Tank and Leach Tank area, and the CHT Tank area, as summarized in Section 3.0.

In addition to the activities described in this report, the Navy has conducted fuel recovery efforts (including use of sorbent materials, skimmers, direct recovery from piping, and soil excavation) since December 2021. Operation of the GAC system at Red Hill Shaft began in January 2022 and will continue as a precautionary measure to capture any dissolved constituents that may become mobilized.

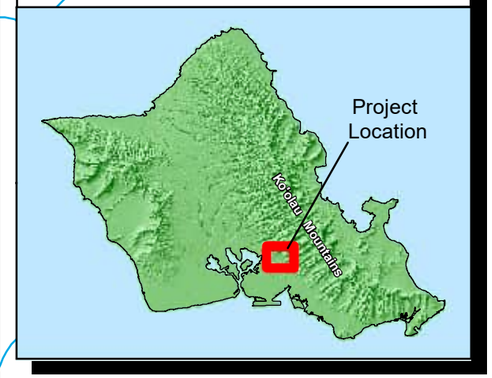
Activities and sampling of the JBPHH Water Distribution System (regulated by the DOH Safe Drinking Water Branch) and the November 29, 2022, aqueous film-forming foam release outside Adit 6 (being investigated separately) are not addressed in this report.

1.1 Statement of Purpose

Quarterly groundwater monitoring was conducted pursuant to the Red Hill *Groundwater Protection Plan* (GWPP) (DON 2014a) and in response to the Notices of Interest (NOIs) issued by DOH for the January 2014, May 2021, and November 2021 Releases. Groundwater sampling was conducted in accordance with the Red Hill Consolidated Groundwater Sampling Program (DOH 2024b), which unifies multiple groundwater monitoring efforts at Red Hill under a single program.

(b) (3) (A)

Location Map



Legend

- Former Fuel Storage Tank
- Red Hill Monitoring Well
- Delineation Well
- Sentinel Well
- OWDF Monitoring Well
- Water Supply Well
- Access Tunnel or Adit
- Stream

Notes

1. Map projection: NAD 1983 Hawaii State Plane Z3 ft
2. Base Map: Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
3. **Acronym**
   BWS - Board of Water Supply

N

0 600 1,200 2,400 Feet

Figure 1
Location of Releases and Groundwater Monitoring Wells
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

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The purpose of the groundwater monitoring is to evaluate the condition of groundwater beneath the Facility and to document that the Navy remains in compliance with DOH Underground Storage Tank release response requirements as described in Hawai‘i Administrative Rules Chapter 11-280.1, Subchapter 6, Release Response Action. The Facility has a network of soil vapor monitoring points (SVMPs) that are monitored in accordance with the Red Hill GWPP (DON 2014a) and Long-Term Monitoring Work Plan/Sampling and Analysis Plan (DON 2015b) using the existing boreholes beneath 18 of 20 tanks in the Facility to support leak detection. In response to the NOIs issued by DOH for the May 2021 and November 2021 Releases, additional subslab SVMPs were installed into petroleum-impacted segments of the A[redacted] Tunnels.

This report provides activities and results from groundwater and soil vapor sampling from the vadose zone to monitor and evaluate potential risks to human health and the environment.

DOH identification (ID) and case numbers for the Facility fuel releases are as follows:

- DOH Facility ID No. is 9-102271.
- DOH Release ID Nos. are 990051, 010011, 020028, 140010, and 210012.
- DOH Hazard Evaluation and Emergency Response (HEER) Release Incident Case Nos. are 20210507-0852 (May 10, 2021) (DOH 2021a) and 20211120-2330 (November 24, 2021) (DOH 2021b).

1.2 Previous Reports

Documentation of previous Red Hill environmental investigations is presented in Section 2.5, and release response-related reports are listed within the Quarterly RRRs issued December 2023 and prior (Section 1.2).

2.0 Background

GWPP: The Red Hill GWPP (DON 2008b; 2014a) presents an integrated strategy to manage risks by implementing release detection, characterization, and response measures. The Navy first developed the GWPP in 2008 at DOH's request after previous environmental investigations (DON 1999; 2002; 2007) showed impact to the environment by petroleum hydrocarbons. Its provisions include conducting soil vapor monitoring under the former fuel storage tanks and groundwater (GW) LTM. Soil vapor concentrations have been measured monthly since 2008, and groundwater samples have been collected and analyzed at least quarterly since 2005; results have been reported to DOH on a quarterly basis.

Generally, the GWPP is slated for updating every 5 years. An update specific to tank defueling activities was published in September 2023 (DON 2023h).

January 2014 Release: During Tank 5 refilling operations in January 2014 following a routine 3-year tank inspection and refurbishment process, a release of approximately 27,000 gallons of JP-8 fuel was confirmed and reported to DOH on January 23, 2014 (Figure 1). During that month, a fuel hydrocarbon seep was observed on a tunnel wall below Tank 5, and SVMPs installed beneath Tank 5 exhibited a sharp increase in hydrocarbon vapor concentrations. Subsequent analyses indicated that the causes of the release were defective workmanship in welding by the tank refurbishment contractor, poor inspection, and ineffective quality control (QC). The release resulted in EPA, DOH, the Navy, and Defense Logistics Agency agreeing to the Red Hill Administrative Order on Consent (AOC) in September 2015 (EPA Region 9 and DOH 2015). The AOC provides for the performance by the Navy of a release assessment, response(s) to release(s), and actions to minimize the threat of future releases in connection with the then-active

field-constructed bulk fuel underground fuel storage tanks, surge tanks, pumps, and associated piping, and on any property that may be affected now or in the future by petroleum or other substances released from the Facility.

May 2021 Release: On May 6, 2021, Navy personnel responded to a reported release of fuel from a distribution pipeline inside the Facility in the vicinity of Tanks 18 and 20 (Figure 1). The Navy notified DOH of the release within 24 hours and provided DOH preliminary findings of the ongoing investigation on October 1, 2021, indicating that JP-5 fuel was released during a fuel transfer and that there were no leaks from any fuel tanks. The Navy recovered JP-5 fuel from the tunnel drain system and then performed a complete washdown of the area with fresh water on May 7, 2021 (DON 2021e). It was later determined that some SVMP vaults on the tunnel floor near the May 2021 Release and a fire suppression system recovery line were impacted by fuel, and the below-tank SVMPs exhibited elevated organic vapor concentrations on field instruments (PIDs).

November 2021 Release: On November 20, 2021, a release of JP-5 fuel occurred in the Facility's Adit 3 Tunnel (Figure 1). Some of the JP-5 fuel that was first released on May 6, 2021, was released from an overhead [redacted]-inch polyvinyl chloride fire suppression system recovery line at a location approximately [redacted] of the Red Hill Shaft water supply pumping station and approximately [redacted] ft east of the junction with the Pearl Harbor Tunnel. The access tunnel floor near the release point is at an elevation of approximately [redacted] ft above mean sea level (msl) and is in proximity to the supply well's underlying water development tunnel that extends greater than [redacted] ft east-southeast of the pumping station at an elevation of approximately [redacted] ft msl.

Released fuel flowed westward [redacted]. Fuel accumulated in two sumps [redacted] Sump and a sanitary sewer sump) approximately [redacted] ft west of the November 2021 Release point (Figure 2). JP-5 fuel was recovered from the overhead fire suppression system recovery line, [redacted] Sump, connected piping, and the HT-LT area including subsurface soil. JP-5 fuel was also recovered from the sanitary sewer sump, the CHT Tank (which was fed by a pump in the sanitary sewer sump), and the ground surface surrounding the CHT Tank.

The November 2021 incident released fuel to the environment via manmade penetrations and a permeable concrete tunnel floor, and from fuel that accumulated in the [redacted] Sump and fuel that was inadvertently pumped from the [redacted] Sump and sanitary sewer sump to the HT-LT and the CHT Tank (Figure 2). Fuel was subsequently observed at the groundwater surface in the water development tunnel of Red Hill Shaft. Upon confirmation that a fuel-like odor was present in drinking water in homes served by Red Hill Shaft, the supply well was shut off and isolated from the JBPHH Water Distribution System on November 28, 2021, which remains the case to this date.

2.1 Site Description

The [redacted]-acre underground fuel storage Facility is located in south-central O'ahu approximately [redacted] miles east of Pearl Harbor, within the Red Hill ridge that divides South Hālawa Valley from Moanalua Valley on the southwest flank of O'ahu's Ko'olau mountain range (Figure 1). The Facility's 20 tanks were formerly used to store and supply fuel for military operations in Hawai'i and throughout the Pacific. The tanks' bottoms, associated fuel lines, and access tunnels are situated approximately [redacted] ft above an underlying basal aquifer that is a major municipal and military drinking water source.

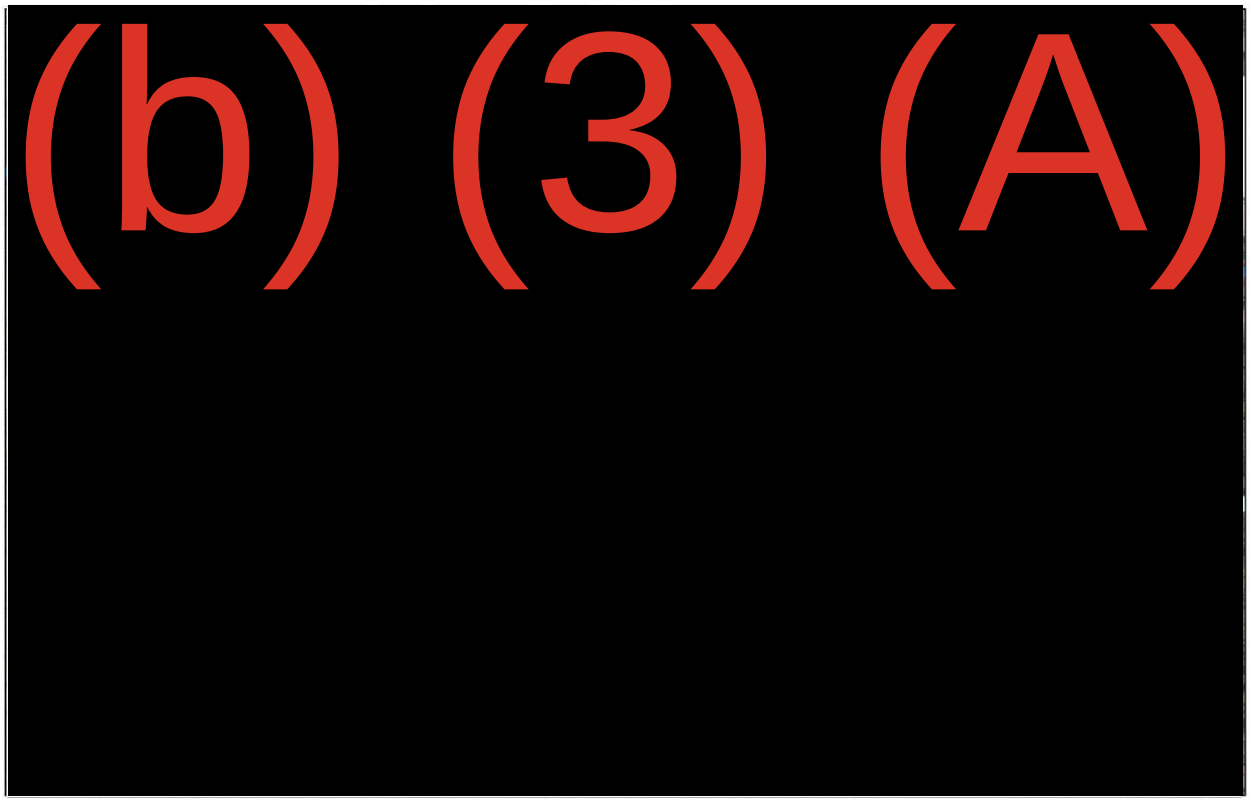


Figure 2: Adit 3 and Pearl Harbor Tunnel Layout Map

2.1.1 Climate

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

2.1.2 Soils and Geology

The Facility is located within the Koʻolau Volcanic series. The Koʻolau formation at Red Hill consists of basaltic lava flows that erupted from a fissure line approaching 30 miles in length and trending in a northwest rift zone (Wentworth and Macdonald 1953). Pāhoehoe and aʻā lava flows are present in the Koʻolau formation. The valleys on either side of the Red Hill ridge were formed as a result of fluvial erosion and are filled with sedimentary deposits (alluvium and colluvium), also known as valley fill, underlain by weathered basalt, also known as saprolite. Saprolite zones in Hawaiʻi are typically around 75 ft thick but can be 300 ft thick or greater beneath the valley floors or in areas of high precipitation (Hunt Jr. 1996; Macdonald, Abbott, and Peterson 1983). The results of a seismic survey conducted in North and South Hālawa Valleys, Red Hill, and Moanalua Valley found that valley fill and saprolite extend much deeper in the valleys surrounding Red Hill, particularly in the center of the valleys and below the streambeds (DON 2018e).

Soils in the vicinity of the Facility are mapped as Helemano-Wahiawā association consisting of well-drained, moderately fine-textured and fine-textured soils (USDA SCS 1972). The surfaces of the basaltic flows have been weathered to form reddish-brown clayey silt, which is the basis for the local name “Red Hill.” These soils typically range from nearly level to moderately sloping and occur in broad areas dissected

by very steep gulches. They formed in material weathered from basalt to a depth of approximately 10 ft below ground surface. Along the slopes, the basaltic bedrock is covered with approximately 10–30 ft of Ko‘olau residuum. These soils were derived from weathering of the underlying basalt bedrock or were deposited as alluvium/colluvium. The younger alluvium/colluvium deposits were derived from fractured basalts and tuff. Beneath the surficial soils, alternating layers of clay and basalts are encountered at depth. The northwestern slope of Red Hill is generally barren of soil and consists of outcropping basalt lava flows to the valley floor.

2.1.3 Surface Water

Surface water features in the general vicinity of the Facility include South Hālawa Stream (an ephemeral stream approximately (b) (3) (A) ft north of the tanks), North Hālawa Stream (approximately (b) (3) (A) ft northwest of the tanks), and Moanalua Stream (approximately (b) (3) (A) ft south of the tanks). Potential recharge (run-on and operational water use) from the Hālawa Quarry north of the Facility may also impact groundwater flow in this area. Groundwater that flows beneath the Facility does not intercept surface water inland of the ocean shoreline (DON 2007). Both South Hālawa Stream and Moanalua Stream (to the north and south of Red Hill ridge, respectively) are located approximately 170 ft or more above the basal water table in the vicinity of the tanks. The bottoms of the Facility’s former fuel storage tanks are located at least (b) (3) ft below the bottom of these streams. In the vicinity of (b) (3) (A) and the November 2021 Release, South Hālawa Stream may be fed by the perched water system during the rainy season, although this has not been confirmed.

2.1.4 Groundwater

In the vicinity of Red Hill, the basal aquifer water table lies between 15 and 20 ft above msl. Regionally, groundwater flows toward Pearl Harbor (mauka to makai) (Hunt Jr. 1996; Izuka and Rotzoll 2023), although potential exists for variability in localized flow directions depending on geologic formations and other factors. In Hālawa Valley, streamflow may contribute water to or receive water from perched groundwater within alluvial material (valley fill), but South Hālawa Stream is probably not recharged by the basal aquifer. The majority of the precipitation in the area percolates to the subsurface and does not maintain base flows in the streams (Izuka 1992).

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

The Facility is located upgradient of the Hawai‘i State Underground Injection Control Line, which separates potable groundwater from non-potable groundwater. The drinking water supply well closest to the Red Hill tank farm is Navy Well 2254-01 (Red Hill Shaft), located within the Facility’s lower access tunnel approximately (b) (3) (A) ft west of the nearest fuel storage tank. Red Hill Shaft and Navy Well 2255-32 (Navy ‘Aiea Hālawa Shaft, located approximately (b) (3) miles west of the nearest former fuel storage tank) formerly provided potable water to the JBPHH Water Distribution System, which serves approximately 65,200 military customers; the potable water is now supplied by Waiawa Shaft, located approximately (b) (3) miles west of the Facility. Naval Facilities Engineering Systems Command (NAVFAC) Hawaii, Utilities Management Division operates the drinking water system. The nearest City and County of Honolulu Board of Water Supply (BWS) municipal drinking water supply well (BWS Hālawa Shaft Well 2354-01; currently inactive) is located hydraulically cross-gradient of the Facility approximately (b) (3) (A) ft northwest of the former fuel storage tanks, within the basal aquifer.

2.2 Historical Land Use

Prior to construction of the tank farm, the surface of Red Hill supported sugar cane and pineapple agriculture. Navy archive images show that the Red Hill ground surface was exposed and modified during construction of the tank farm beginning in 1940. A 1952 aerial photograph shows unmaintained land on the Red Hill ridge and agriculture on the lower reaches of Red Hill north of the Moanalua Golf Course (DON 2019a, Photo 2-3).

2.3 Current Land Use

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

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

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

2.4 Conceptual Site Model

2.4.1 Facility Construction and Operations

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

All bulk fuel storage tanks have been defueled as of March 2024 (DON 2024f), while remaining sludge and piping will be removed during Facility closure operations under command of the Navy Closure Task Force – Red Hill.[1]

2.4.2 Subsurface Conditions

The Facility's underground storage tanks are surrounded by rock in the vadose (i.e., unsaturated) zone, which consists primarily of basalt flows in complex, alternating layers. These heterogeneous layers vary from extremely high to extremely low permeability, with a corresponding ability to transmit and hold

[1] Details available at: https://www.navyclosuretaskforce.navy.mil/.

LNAPL fuels depending on the layer's rock type and micro-pore structure (i.e., high transmissivity in highly permeable a‘ā, thin pāhoehoe flows, and a‘ā clinker zones; low transmissivity in massive a‘ā and massive pāhoehoe flows). Geologic and water saturation characteristics in the rock surrounding the tanks could cause LNAPL to spread as it moves through the rock. As LNAPL moves through the larger pore spaces, some of it could be trapped in poorly connected fractures and blocked by nearby low-permeability regions or by surface tension and capillary forces of moisture, including water held in the smaller pores. The potential presence of intact lava tubes might serve as preferential pathways and conduits for LNAPL migration.

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

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

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

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

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

2.4.3 Exposure Model

Potentially contaminated media are indoor air within the Facility tunnels; surface and near-surface soil and related materials associated with the CHT Tank and Holding Tank/Leach Tank; unconsolidated materials, volcanic rock, and subsurface vapor surrounding the tanks and tunnel; perched and basal groundwater beneath the Facility, which has the potential to migrate off site; and offsite surface water where groundwater may discharge. Human receptors that may potentially contact onsite or offsite Facility-impacted media are Facility occupational workers, construction workers, visitors, and offsite residents. Among the potentially complete exposure pathways identified, the primary pathway of concern for offsite human receptors is exposure to impacted tap water via direct ingestion and dermal contact, and inhalation while showering and bathing. Animals and vegetation may also be exposed to tap water as pets or from irrigation. Exposure by

ecological receptors is considered incomplete or insignificant (DON 2019a, Section 8). However, at the CHT Tank area of concern, where fuel may have been released to the ground surface, animals and vegetation may be exposed via direct contact. A CHT Tank Investigation is currently in the planning stages (Section 3.4).

2.5 Previous Facility Investigations

Previous environmental investigations at the Facility are summarized in Table 2-1.

Table 2-1: Summary of Previous Red Hill Environmental Investigations

Investigation Report	Summary
Remedial Investigation Phase I and II, Red Hill Oily Waste Disposal Facility (DON 1996; 2000)	A two-phase RI was initiated in the early 1990s at the Red Hill Oily Waste Disposal Facility. No contaminants were detected in the basal aquifer beneath the site, and DOH issued a concurrence letter for a No Further Action determination in 2005 (DOH 2005).
Facility Site Characterization and Investigation (DON 1999, 2002)	A two-phase investigation initiated in 1998 evaluated the presence of petroleum constituents at the Facility. DOH requested the Navy to conduct quarterly groundwater monitoring, conduct a Tier 3 risk assessment, and develop a contingency plan.
Quarterly Groundwater Monitoring Reports (DON 2005 to present)	Sampling and analysis of Red Hill network groundwater monitoring wells were initiated in 2005 and incorporated into the Red Hill GWPP (DON 2008b; 2014a); results are reported to DOH.
Technical Report (DON 2007)	An environmental investigation and risk assessment initiated in 2004 included installation of SVMPs in angle borings under the active fuel storage tanks, three additional groundwater monitoring wells in the lower access tunnel, a three-dimensional groundwater model, and a Tier 3 human health risk assessment.
Tank 17 Removal Action Report (DON 2008c)	Documented results of a limited removal action and site characterization investigation conducted in June 2008 in response to a 4-gallon release of JP-5 fuel from tunnel piping; the report's Environmental Hazard Analysis determined that the release posed no further significant environmental hazards.
Type 1 Letter Report (DON 2010)	A 2010 investigation re-evaluated the DON (2007) groundwater model assumptions and results, as well as the Tier 3 risk assessment results.
Monthly Soil Vapor Monitoring Reports (DON 2008a)	Soil vapor PID measurements are collected monthly under the Facility's fuel storage tanks with SVMPs in accordance with the Red Hill GWPP (DON 2008a; 2014b); results are reported to DOH.
Tank 5 Initial and Quarterly Release Response Reports (DON 2014a to December 2022)	Documented the results of release response efforts for the Tank 5 January 2014 Release.
Seismic Profiling to Map Hydrostratigraphy in the Red Hill Area (DON 2018e)	Presented results and evaluation of nine seismic profiling transects conducted at Red Hill and in North and South Hālawa Valleys and Moanalua Valley to improve understanding of subsurface conditions that affect groundwater flow and CF&T.

Investigation Report	Summary
Groundwater Protection and Evaluation Considerations for the Red Hill Bulk Fuel Storage Facility (DON 2018d)	Presented an interim analysis of environmental data and potential environmental risks; interim results of the groundwater flow model; and an evaluation of hypothetical release scenarios.
Conceptual Site Model (DON 2018a; 2019a)	Established a basis for evaluating contaminant transport pathways and potential for exposure of human receptors to potentially impacted drinking water.
Groundwater Flow Model Report (DON 2020b)	Refined the previous groundwater flow model to improve understanding of the direction and rate of groundwater flow within the aquifers around the Facility.
Investigation and Remediation of Releases Report (DON 2020c)	Documented the response to the January 2014 Tank 5 release and evaluated potential remedial alternatives for that release and any potential future release.
Evaluation of Chromatograms for Understanding TPH Detections in Monitoring Wells (DON 2020a)	Provided an evaluation of TPH detections in monitoring wells to determine whether those detections are indicative of potential fuel impacts from the Facility.
Initial and Quarterly Release Response Reports, Pipeline Breach in Tunnel and Fire Suppression Drain Line (DON 2021c; 2021b; 2021d; 2022d; 2022f; 2022g; 2022h)	Documented the quarterly results of release response efforts for the May 6, 2021, Tunnel Pipeline Breach and the November 20, 2021, Fire Suppression System Recovery Line releases.
Phase 1 and *Phase 2 Technical Memoranda, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2022k; 2023f)	Presented preliminary results of a two-phase site characterization effort at the Holding Tank and Leach Tank area outside Adit 3.
Quarterly Release Response Reports, Red Hill Bulk Fuel Storage Facility (DON 2022i; 2023i; 2023j; 2023k; 2023l; 2024h)	Documented the combined quarterly results of release response efforts for the January 2014, May 2021, and November 2021 Releases.
Final Closure Report Concrete Tank Removal (DON 2023d)	Documented the field activities associated with removal of the Holding Tank, Leach Tank, and contaminated soil outside Adit 3 in 2022.
Technical Memorandum: In-Progress Data Report, Adit 3 Site Characterization (DON 2023n)	Presented in-progress results of the (b) (3) (A) site characterization effort.

Investigation Report	Summary
Draft Site Characterization Report, November 2021 JP-5 Release in Adit 3, Operable Unit 1 (DON 2023m, revised August 2024)	Presented draft results of the Adit 3 site characterization effort for the shallow vadose zone (Operable Unit 1 [OU-1]).
Final Report of Findings, Red Hill Shaft Flow Optimization Study (DON 2023e)	Presented results of a study to determine optimized pumping rates of Red Hill Shaft groundwater through the GAC system installed outside Adit 3.
Groundwater Protection Plan Defueling Summary Report (DON 2024f)	Presented results of groundwater protection measures implemented at the Facility during tank defueling operations in 2023–2024.
Tank Closure Plan, Supplement 3: Phase 1 Site Assessment (DON 2024b)	Presented the draft work plan and sampling and analysis plan for a site assessment of the Facility pursuant to closure of the underground storage tank system.

CF&T contaminant fate and transport
OU Operable Unit
RI remedial investigation
TPH total petroleum hydrocarbons

3.0 Summary of Investigation History

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

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

3.1 Release Response Actions

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

Investigation activities in response to the May 2021 Release began on May 10, 2021, with a site assessment that included soil vapor PID field measurements. In response to the November 2021 Release, the Navy took appropriate response actions to investigate and mitigate the release. Groundwater, sump water, and/or product samples were collected and analyzed from the (b) (3) (A) sump, Red Hill Shaft water development tunnel, and fire suppression system to characterize and quantitate the extent and magnitude of fuel impacts from the November 2021 Release.

Continuing release response activities for the January 2014 Release at Tank 5 and the May and November 2021 Releases include soil vapor and groundwater sampling, analysis, evaluation, and reporting; LNAPL gauging and headspace measurements in groundwater monitoring wells; installation of additional groundwater monitoring wells; geologic mapping; forensic analyses; and groundwater modeling. Additional release response actions for the (b) (3) (A) Site Characterization, Holding Tank and Leach Tank Site Characterization, and CHT Tank Site Characterization are detailed in Sections 3.2, 3.3, and 3.4, respectively.

Soil Vapor Monitoring: Soil vapor monitoring currently includes weekly collection of soil vapor PID readings from probes at Tanks 2 through 18 and Tank 20 (Figure 3). Passivated canister samples for laboratory analysis are collected at least monthly at SVMPs SV15S, SV15D, SV17S, SV17D, SV18S, SV18D, SV20M, and SV20D.

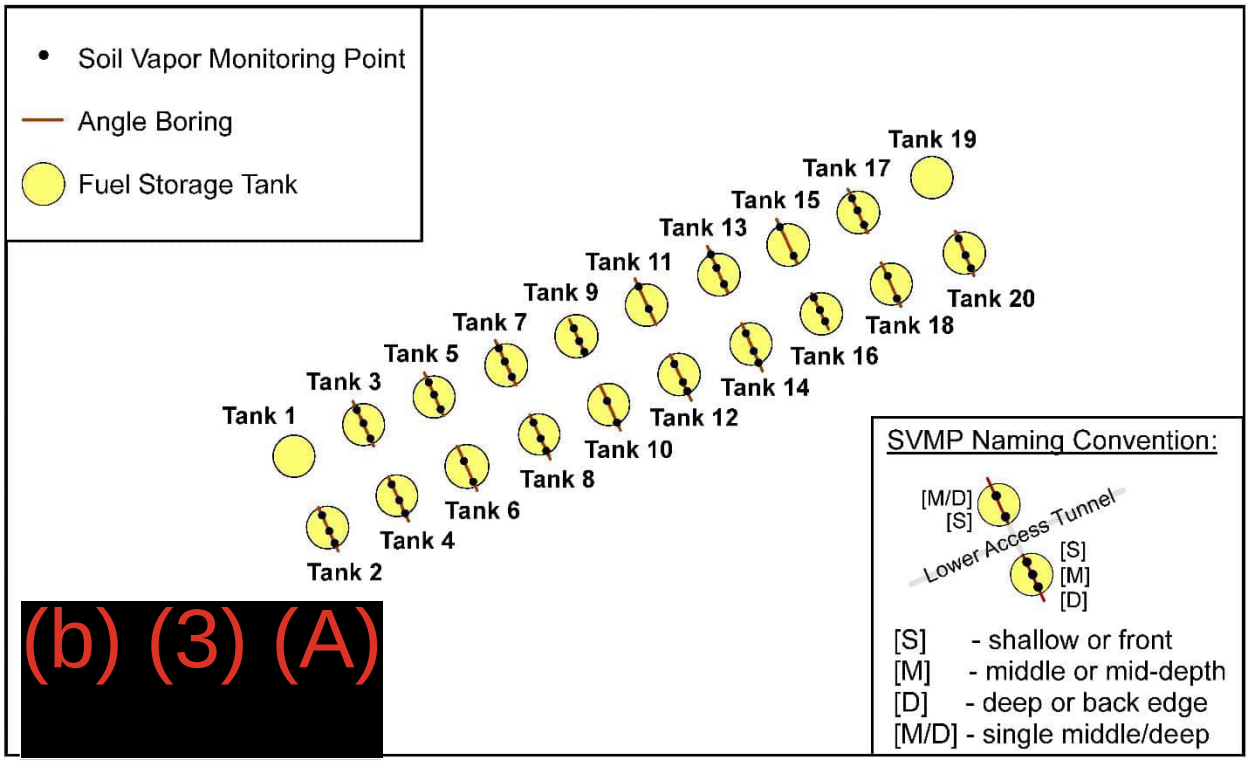


Figure 3: Soil Vapor Monitoring Network Below the Red Hill Fuel Storage Tanks

Soil vapor monitoring in the (b) (3) (A) Tunnel has been conducted periodically since December 17, 2021. Fifty-four SVMPs were installed through the (b) (3) (A) Tunnel floor in response to the November 20, 2021, JP-5 release and are currently monitored with handheld PIDs monthly and twice within 10 days when a rain event exceeds 1 inch per 24 hours at an adjacent National Oceanic and Atmospheric Administration weather station (Section 3.2).

LNAPL Gauging and Headspace Measurements: LNAPL gauging and headspace measurements were collected as part of the prior NOI and current Red Hill Consolidated Groundwater Sampling Program (DOH 2024b). LNAPL has never been detected in any monitoring well other than Red Hill Shaft and temporary wells screened in the shallow perched water zone beneath the (b) (3) (A) Tunnel floor adjacent to the shaft.

Groundwater Monitoring: Additional groundwater samples beyond those normally collected for quarterly GW LTM were initially collected at RHMW01R, RHMW02, and RHMW03 beginning in May 2021 (Figure 1). The collection of drinking water samples at the Red Hill Shaft Pump sampling points (referred to as the pre-chlorination spigot and Red Hill Shaft Pump) in conjunction with enhanced groundwater sampling began in June 2021. The number of groundwater sampling locations was increased in September 2021 to include RHMW05 and RHMW2254-01 following the detection of diesel range organics (DRO) and residual oil range organics (ORO) in the Red Hill Shaft pre-chlorination spigot samples, including the first-ever detections of ORO above the DOH EAL that occurred in August and September 2021.

Following the November 2021 Release, the December 2021 NOI *Groundwater Sampling Plan* was prepared (IDWST 2022, Exhibit C), and the number of groundwater sampling locations was further expanded in December 2021 and January 2022 to include weekly sampling at additional existing groundwater monitoring wells identified in the plan, along with sump water sampling from the (b) (3) (A) Sump. Installations of RHMW17, RHMW18, RHMW20, and RHMW21 were completed in June 2022, December 2023, June 2023, and July 2024 respectively.

Delineation Wells: Ten "RHP" delineation wells were installed during 2022–2023 at locations shown on Figure 1 to evaluate groundwater conditions in the vicinity of Red Hill Shaft and delineate the extent of contamination extending from the November 2021 Release in the (b) (3) (A) Tunnel. In addition, these wells are used to evaluate groundwater flow and the effect of pumping Red Hill Shaft on the local hydraulic gradient. The delineation wells are screened across the basal aquifer water table except for RHP04B and RHP04C, which have deeper screens (approximately -140 ft msl and -340 ft msl, respectively) designed to monitor chloride concentrations that may be associated with the saltwater/freshwater interface. Installation of new delineation wells was completed in September 2024 for RHP08B and August 2024 for RHP08C, both with screens below the water table (approximately -110 ft msl and -275 ft msl, respectively).

Sentinel Wells: Installation of "NMW" sentinel wells continues as part of expanding the groundwater monitoring well network following the November 2021 Release, with completion and sampling of NMW24 in 2022; NMW25, NMW26, NMW30, NMW32, and NMW33 in 2023; and NMW27 and NMW34 in 2024 (Figure 1). New sentinel well NMW27 completed installation in October 2024.

The Navy provided a *Draft Monitoring Well Installation Work Plan* to the Regulatory Agencies for review on January 31, 2024, that documented the current proposed approach for installing new groundwater monitoring wells within and in the vicinity of the Facility (DON 2024g). The Navy responded to Regulatory Agency comments provided on June 18, 2024, and finalized the Work Plan on July 25, 2024.

Details on well installation and construction and water quality data are uploaded to the JBPHH Facility Environmental Data Management System (EDMS) (Appendix E – Groundwater Monitoring Well Installation Data) and are reported as they are acquired.

Drinking Water Sampling: Drinking water sampling was conducted at Red Hill Shaft and in the JBPHH Water Distribution System as part of the release response effort for the November 2021 Release until December 2021, when Red Hill Shaft was disconnected from the JBPHH Water Distribution System. Ongoing drinking water sampling and analyses continue under a separate program not related to environmental conditions and are therefore not described in this Quarterly RRR.

Changes to Groundwater Sampling Program: The Navy initially described modifications to the Red Hill groundwater sampling and analysis program to the Regulatory Agencies in a May 18, 2023, Memorandum titled *Consolidation and Optimization of the Groundwater Sampling Programs, Red Hill Bulk Fuel Storage Facility* (DON 2023a). This Memorandum integrated all Red Hill groundwater sampling programs into a single program, revised the analyte list, optimized the sampling frequency, specified LNAPL gauging and

PID headspace measurements, and standardized sample collection methodology to low-flow purging. Monthly sampling under the Red Hill Consolidated Groundwater Sampling Program began in June 2023.

Following a series of DOH reviews and Navy revisions, in April 2024 DOH formally disapproved the Navy's document and provided a revised plan referred to as the *April 2024 Consolidation and Optimization of the Groundwater Sampling Programs* for use going forward (DOH 2024b).

Groundwater monitoring locations in the current Consolidated Well Network are listed in Table 3-1, and monitoring zones for each of the four multilevel wells are described in Table 3-2.

Table 3-1: Current Red Hill Monitoring Well Network, Consolidated Groundwater Sampling Program

Location ID	Type	Location	Year Installed	Approximate Distance to South Hālawa Stream (meters)	Top/Bottom of Well Screen Interval (ft msl)
RHMW2254-01 [a]	Sampling Point	Inside Facility boundary	2005	(b) (6)	—
RHMW01R	Single Screen	Inside Facility boundary	2021	232	28 / 8
RHMW02	Single Screen	Inside Facility boundary	2005	299	21.2 / 6.2
RHMW03	Single Screen	Inside Facility boundary	2005	271	19.3 / 4.3
RHMW04	Single Screen	Inside Facility boundary	2005	81	22.6 / 7.6
RHMW05	Single Screen	Inside Facility boundary	2009	225	23.8 / 8.8
RHMW06	Single Screen	Inside Facility boundary	2014	104	26.9 / -3.2
RHMW08	Single Screen	Inside Facility boundary	2016	64	30 / 0
RHMW09	Single Screen	Inside Facility boundary	2016	376	29.6 / -0.4
RHMW10	Single Screen	Inside Facility boundary	2017	452	29.9 / -0.1
RHMW11	Multilevel	Hālawa Correctional Facility	2017	3 [c]	—
RHMW12A	Single Screen	Hālawa Correctional Facility	2021	166	-174 / -194
RHMW13	Multilevel	Inside Facility boundary	2019	47	—
RHMW14	Multilevel	Hālawa Correctional Facility	2019	10 [c]	—
RHMW15	Multilevel	Inside Facility boundary	2019	153	—
RHMW16	Single Screen	Inside Facility boundary	2020	32	-272 / -292
RHMW17	Single Screen	Inside Facility boundary	2022	54	29 / -1
RHMW18	Single Screen	Inside Facility boundary	2023	249	29.8 / -0.2
RHMW19	Single Screen	Inside Facility boundary	2020	441	28.2 / -1.8
RHMW20	Single Screen	Inside Facility boundary	2023	60	29 / -1
RHMW21	Single Screen	Inside Facility boundary	2024	323	28.1 / 8.1
HDMW2253-03 [b]	Deep Monitoring Well	Hālawa Correctional Facility	2000	20	—
RHP01	Single Screen	Inside Facility boundary	2022	28	28 / -2

Location ID	Type	Location	Year Instal-led	Approx-imate Distance to South Hālawa Stream (meters)	Top/Bottom of Well Screen Interval (ft msl)
RHP02	Single Screen	Inside Facility boundary	2022	33	27.5 / -2.6
RHP03	Single Screen	Inside Facility boundary	2022	53	28.6 / -1.4
RHP04A	Single Screen	Inside Facility boundary	2022	129	27.7 / -2.3
RHP04B	Deep Monitoring Well	Inside Facility boundary	2022	123	-144.2 / -164.2
RHP04C	Deep Monitoring Well	Inside Facility boundary	2023	121	-329.8 / 349.8
RHP05	Single Screen	South of Facility boundary	2022	186	27 / -3
RHP06	Single Screen	South of Facility boundary	2023	157	32.5 / 3
RHP07	Single Screen	Inside Facility boundary	2023	77	27.3 / 7.3
RHP08	Single Screen	South of Facility boundary	2023	165	27.6 / -2.4
RHP08B	Deep Monitoring Well	South of Facility boundary	2024	148	-106.6 / -126.6
RHP08C	Deep Monitoring Well	South of Facility boundary	2024	147	-265.6 / -285.6
NMW24	Single Screen	Northwest of Facility boundary	2022	1,835	27.7 / -2.3
NMW25	Single Screen	South of Facility boundary	2023	887	27.1 / -2.9
NMW26	Single Screen	North of Facility boundary	2024	2,043	28 / -2
NMW27	Single Screen	Northwest of Facility boundary	2024	236	-458.4 / -478.4
NMW30	Single Screen	South of Facility boundary	2023	462	27.9 / -2.1
NMW32	Single Screen	West of Facility boundary	2023	457	27.5 / -2.5
NMW33	Single Screen	Southwest of Facility boundary	2023	1,850	23 / -7
NMW34	Single Screen	Northwest of Facility boundary	2024	1,498	25 / -5
OWDFMW03A	Single Screen	Inside Facility boundary	2021	40	-22.7 / -42.7
OWDFMW08A	Single Screen	Inside Facility boundary	2021	60	-6.5 / -26.5
RHSF-PUMP [d]	Sampling Point	Inside Facility boundary	—	(b) (3)	—

Notes:

Single screen: Well screened across the groundwater surface in unconfined locations or below confining units in zones that are in hydraulic communication with the basal aquifer.

Deep monitoring well: Well screen or chase tube opening installed below the groundwater surface at depths deeper than single-screen wells.

— not applicable.

N/A – The sampling location is not a screened well.

[a] Sampling point located inside the shaft of Navy Supply Well 2254-01.

[b] Installed by State of Hawai‘i Department of Land and Natural Resources with a solid casing to approximately 50 ft below the water table.

[c] RHMW11 and RHMW14 are located adjacent to the concrete-lined portion of South Hālawa Stream.

[d] Sampling point is a spigot located inline with the Red Hill Shaft pumps.

Table 3-2: Description of Multilevel Monitoring Zones

Well	Number of Zones	Description	Zone(s) Currently Monitored	Zones Not Currently Monitored	Sampling Port Elevation (ft msl)
RHMW11	8	• Zone 8 is completed at an elevation near the regional basal aquifer potentiometric surface, with the zone's sampling port located in saprolite. • Zones 6 and 7 are completed at elevations below the regional basal aquifer potentiometric surface, with sampling ports located in saprolite. • Zones 1 through 5 are completed deeper, with sampling ports within the basalt in the basal aquifer.	5	1 to 4 [a] 6 to 8 [b]	1 = -248.5 2 = -185.2 3 = -147 4 = -119.7 5 = -74.5 6 = -39.2 7 = -24 08a = 10.2 08b = 21.5 08c = 41.5
RHMW13	5	All zones are located within high-hydraulic-conductivity portions of unweathered basalt: • Zone 5 is completed at an elevation near the regional basal aquifer potentiometric surface and sampling is conducted through port 5a. • Zones 1 through 4 are completed deeper.	5	1 to 4 [a]	1 = -165.1 2 = -78.9 3 = -39.6 4 = 12.6 05a = 16.6 05b = 26.9

Well	Number of Zones	Description	Zone(s) Currently Monitored	Zones Not Currently Monitored	Sampling Port Elevation (ft msl)
RHMW14	8	• Zone 8 is completed above the elevation of the piezometric surface of the regional basal aquifer with the zone's sampling port located in saprolite. • Zone 7 is completed across the regional basal aquifer potentiometric surface, with the sampling port in basalt with lower hydraulic conductivity. • Zones 4 to 6 are below the elevation of the piezometric surface of the regional basal aquifer, with sampling ports within basalt with relatively lower hydraulic conductivity. • Zones 1 to 3 are located deeper, with sampling ports within the relatively higher-hydraulic-conductivity portions of the unweathered basalt in the basal aquifer.	3	1 to 2 [a] 4 to 8 [b]	1 = -276.4 2 = -235.1 3 = -144.9 4 = -74.3 5 = -30.4 6 = -9.1 7 = 16.1 8 = 40.4
RHMW15	5	All zones are located within high-hydraulic-conductivity portions of unweathered basalt: • Zone 5 is completed at an elevation near the regional basal aquifer potentiometric surface and sampling is conducted through port 5a. • Zones 1 through 4 are completed deeper.	5	1 to 4 [a]	1 = -254.6 2 = -153.4 3 = -100.1 4 = -19.7 05a = 13.4 05b = 18.4 05c = 23.4

COPC chemical of potential concern

[a] Not monitored due to lack of detections of COPCs in previous GW LTM events.

[b] Not monitored due to low hydraulic conductivity.

3.2 (b) (3) (A) Site Characterization

Investigation and sampling activities in response to the November 2021 Release began on November 29, 2021. Characterization results for the shallow vadose zone are presented in a *Draft Site Characterization Report, November 2021 JP-5 Release in (b) (3) (A) Operable Unit 1*, submitted to the Regulatory Agencies for review on May 19, 2023 (DON 2023m). The Navy responded to separate DOH and EPA review comments provided in July 2024 and prepared a revised report in August 2024 (DON 2024i).

Site characterization activities of the perched water zone continue at (b) (3) (A) and an Operable Unit (OU) 2 report that will evaluate the deep vadose zone will be forthcoming. Site characterization sampling locations included six nested deep SVMPs installed in the (b) (3) (A) Tunnels. Two additional nested deep SVMPs are planned for installation in the latter part of calendar year 2024. Characterization data are uploaded to EDMS (Appendix E – Characterization and Remediation Data, Characterization and Remediation Analytical Laboratory Reports, and Environmental Data Report Tables). Characterization

included gauging of water levels, product levels (where applicable), and headspace volatile organic compound (VOC) readings in boreholes and temporary wells. During the reporting period, continuous pressure transducer data was collected at temporary wells. In addition, soil vapor VOCs, oxygen, carbon dioxide, and methane gases were monitored from subslab SVMPs and nested deep SVMPs during this reporting period, as reported in Section 5.1.2.

3.3 Former Holding Tank-Leach Tank Site Characterization

A multi-phase subsurface site characterization and removal action of contaminated soil at the HT-LT area outside Adit 3 (Figure 2) was initiated in January 2022. Phase 1 and 2 sampling locations are shown on Figure 4.

During Phase 1, 21 soil borings were drilled and sampled in January 2022 using a direct-push rig. The investigation was unable to delineate the extent of contamination in the perched aquifer due to encountering shallow refusal, as documented in a *Technical Memorandum Holding Tank and Leach Tank Characterization, February 2022* (DON 2022k).

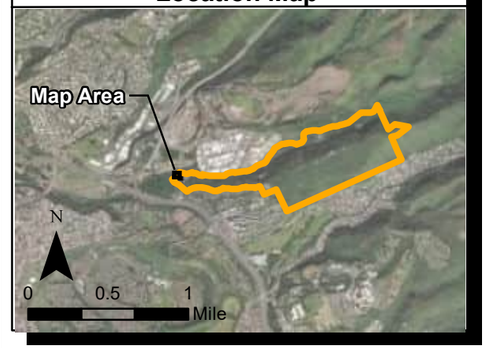
Following consultation with the Regulatory Agencies, the Navy conducted Phase 2 field work during March 9–17, 2022, to complete vertical delineation of the petroleum in subsurface soil and to characterize petroleum impacts in the shallow perched water body located at approximately 30 ft below ground surface in the study area. Subsurface soil samples and organic vapor headspace readings were collected at eight soil borings from data gap locations, and groundwater grab samples were collected at three temporary monitoring wells within the perched groundwater zone. The chemical constituents evaluated were gasoline range organics (GRO), DRO, and ORO; benzene, toluene, ethylbenzene, and total xylenes (BTEX); and naphthalene, 1-methylnaphthalene (1MN), and 2-methylnaphthalene (2MN). The Phase 2 findings led to excavation and removal of both tanks and approximately 97 tons of soil in May 2022. Waste characterization soil samples were collected and analyzed for GRO, DRO, and ORO prior to the excavation event, and the excavated soil was properly disposed of at a permitted landfill. Removal activities continued with a second soil removal action in September–October 2022 that removed approximately 1,000 cubic yards (1,712 tons) of additional petroleum-contaminated soil. Soil samples were collected using multi-increment sampling methods. After sampling, all excavated soil was properly disposed of at a permitted landfill.

Details and results were presented to the Regulatory Agencies in a *Draft Final Technical Memorandum, Phase 2 Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2023f) on July 13, 2023. In addition, a *Draft Closure Report, Concrete Tank Removal* was provided to the Regulatory Agencies in June 2023 (DON 2023d). The Navy is currently responding to DOH June 2024 review comments on both documents and is currently preparing a new site characterization work plan proposing additional investigation to fill remaining data gaps.

Once the identified data gaps have been addressed and the data are evaluated, the Navy anticipates developing site-specific risk-based action levels following the DOH HEER Environmental Hazard Evaluation process and may, if necessary, develop and implement an Environmental Hazard Management Plan in accordance with HEER guidelines.



Location Map



Legend

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

Notes

1. Map projection: NAD 1983 Hawaii State Plane Z3 ft
2. Base Map Source: U.S. Geological Survey, 2011, USGS High Resolution Orthoimagery for Honolulu, Hawaii

N

0 7.5 15 30 Feet

Figure 4
Holding Tank and Leach Tank
Sampling Location Map
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O‘ahu, Hawai‘i

\\aecomssd.com\DCS IsolatedN62742223F0142 60710310-HNL1\500 Deliverables\02 NOI RRRIRRR-2025-03\01 Working\Figures and Tables\Native files\Fig4 HT-LT SampLocMap 2025-01-30.mxd 1/31/2025

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3.4 CHT Tank Site Characterization

Site characterization activities are being planned to characterize the nature and lateral extent of petroleum hydrocarbon impacts in near-surface soil around the CHT Tank located outside (b) (3) (A) Figure 2). Activities will include characterizing and estimating the quantity of recovered material (i.e., LNAPL, petroleum-contaminated water, and petroleum-impacted sludge) stored in four fractionation (frac) tanks near Adit 1 at Pearl Harbor. Site characterization plans were presented to the Regulatory Agencies for comment in a revised *Site Characterization Plan Addendum – Collection, Hold, and Transfer Tank Overflow Site Characterization, November 2021 Release* in March 2024 (DON 2024j), the Regulatory Agencies conditionally approved the plan on April 12, 2024, and the Navy published a Final Addendum in October 2024 (DON 2024e). Field work is currently being scheduled.

3.5 Inspection of Water Development Tunnel

Inspections of the Red Hill Shaft water development tunnel were conducted using a submersible remotely operated vehicle to better understand the extent of impact in the tunnel and to potentially identify areas of fluid infiltration. Cameras on the cable-controlled remotely operated vehicle recorded downward, forward, and upward video of the first (b) (3) (A) ft of the tunnel, which investigators then reviewed and evaluated. An initial inspection conducted on January 13, 2022 (DON 2022c), was followed by a second June 14–15, 2022, inspection; the results were reported in a *Findings from ROV Inspection #2 Video Review of Red Hill Water Development Tunnel* Technical Memorandum (DON 2022b).

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

In a single sampling event in October 2022, the Navy collected split samples with BWS at monitoring wells DH-43 (State Well ID No. 3-2253-02), located adjacent to Red Hill in Moanalua Valley, and BWS2253J1 Well (State Well ID No. 3-2253-006), (b) (3) (A) [redacted]. The split sampling was conducted to obtain data to further evaluate potential impacts to groundwater southeast and south of the Facility. The Navy's samples were analyzed for the parameters identified in Section 6.3.2. Details and analytical results were reported in the December 21, 2022 Quarterly RRR (DON 2022i).

3.7 Remediation Pilot Test at Adit 3

3.7.1 Completed Work

A soil vapor extraction (SVE) system was mobilized to (b) (3) (A) from Onizuka Village in September 2023. A concrete pad was constructed and a SVE trunk line was installed as part of the system installation. The objective of the SVE system is to evaluate active remediation as a potential long-term remedy to address petroleum hydrocarbons in the subsurface below (b) (3) (A)

A bench-scale test (JP-5 weathering treatability study) was completed during November–December 2023 to validate that the volatility of JP-5 can result in a significant decrease in nonaqueous-phase liquid mass if exposed to a continuous stream of air and to assess the JP-5 composition change resulting from the induced volatilization (DON 2024d). The test results indicated that air sparging (AS) and SVE can effectively change the composition of JP-5 by removing lower-molecular-weight compounds at a higher rate than higher-molecular-weight compounds and that the nonaqueous-phase liquid mobility and viscosity will increase as lower-molecular-weight compounds are removed.

A 4-month Shallow SVE Pilot Test was conducted between March and September 2024 to evaluate the system's zone of influence and rate of hydrocarbon removal; the evaluation was summarized in a technical memorandum submitted to the Regulatory Agencies on June 6, 2024 (DON 2024c). The Navy subsequently submitted a Draft SVE Pilot Study report to the Regulatory Agencies on December 18, 2024 (DON 2024a),

after the 4-month pilot study was completed. Two parameters were monitored during the pilot study to evaluate the system's zone of influence: the observed vacuum distribution throughout areas of known impacts and changes in soil vapor composition. The system maintained a vapor extraction rate of approximately 160 standard cubic feet per minute (scfm), most of which was from the Hume line beneath the (b) (3) (A) tunnel floor. The vacuum distribution was monitored in the shallow subsurface, noting any vacuum propagation into the underlying basalt. An observation of a vacuum response across the area where AS is being considered would indicate that the system is capturing soil vapor in the vicinity of the monitoring points. During system operation, a noticeable reduction in carbon dioxide and methane suggested a modified air exchange rate. After the system was turned off, a rebound in carbon dioxide was observed, which suggested promotion of microbial growth that could support accelerated degradation of hydrocarbons. While the initial phase of the SVE study was successful in establishing the system's zone of influence, only a limited amount of target COPCs was removed, primarily due to low VOC concentrations observed at the shallow SVMPs. The Navy therefore did not recommend full-scale operation of the shallow SVE system in the Draft SVE Pilot Study report.

Future phases of the pilot study will incorporate deeper extraction points to evaluate whether higher VOC mass removal rates can be achieved.

3.7.2 Ongoing Work

In preparation for a Deep SVE Pilot Test (DON 2023b), the Navy is currently drilling and installing two deep SVE wells, two additional deep SVMPs, and two intermediate SVMPs at (b) (3) (A) The deep and intermediate points are anticipated to be completed by the end of March 2025. The Navy is also evaluating the logistical feasibility of completing tracer testing using the water development tunnel.

3.7.3 Future Work

Regulatory Agency concurrence with the *Draft Deep SVE Work Plan* (DON 2023b) is pending. The Navy will also begin a 24-month natural source-zone depletion study (NSZD) once Regulatory Agency concurrence of the *Natural Source-Zone Depletion Work Plan* is received (DON 2023c).

4.0 Site Investigation Objectives

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

4.1 Soil Vapor

Soil Vapor Sampling at the Tank Farm: The Navy installed SVMPs below each of the then-active Red Hill fuel storage tanks in the mid-2000s to collect data that provide additional layers of protection to screen for potential releases (Figure 3) (DON 2007). These SVMPs have been monitored monthly since 2008 for total VOC vapors as a release detection screening tool that operated in conjunction with other leak detection systems used at the Facility. More frequent (e.g., weekly) monitoring of some or all the below-tank SVMPs has been conducted since the May 2021 Release to further characterize the specific VOCs associated with the May 2021 Release and to evaluate the extent of weathering that has occurred. The data are available in EDMS (Appendix E – Soil Vapor Data – Below-Tank Sampling Locations).

(b) (3) (A) **Soil Vapor Monitoring:** Routine monitoring of the SVMPs installed in the tunnel floor near (b) (3) (A) and in the Pearl Harbor Tunnel using handheld PIDs has been conducted to further characterize the nature and extent and fate of impacts from the November 2021 Release near (b) (3) (A) Results have been used to identify initial hotspots and to direct additional subsurface soil, LNAPL, and groundwater studies to

develop a complete conceptual site model (CSM) for development of the current remedial pilot studies and future feasibility studies and remedial designs. The SVMPs are monitored monthly and following rain events that exceed 1 inch per 24 hours. The data are available in EDMS (Appendix E – Characterization and Remediation Data, Characterization and Remediation Analytical Laboratory Reports, and Environmental Data Report Tables).

The six nested deep SVMPs installed in the (b) (3) (A) Tunnels will be used to provide estimates of radius of influence for the SVE Pilot Study (Section 3.7) as well as site characterization data during the installation phase. Two additional nested deep SVMPs are planned for installation in the latter part of calendar year 2024 (DoD 2022).

4.2 LNAPL Gauging and Monitoring Well Headspace Measurements

Oil/Water Interface Measurements: The Navy continues to collect monthly (twice monthly during reduced Red Hill Shaft Pumping) oil/water interface measurements to evaluate whether LNAPL has reached groundwater for monitoring well locations with screens that bracket the water table and wells installed in unconfined conditions, in response to the January 2014 Release. Red Hill Shaft is also monitored for the presence of LNAPL.

Gauging, Headspace, and Water Level Measurements: The objective of groundwater monitoring well headspace measurements is to similarly evaluate whether there are any indications that LNAPL may have reached groundwater at monitoring wells installed in unconfined conditions with screens that bracket the water table. In-well pressure transducers have been collecting water level data from seven temporary wells located in the (b) (3) (A) Tunnel, west of the train track wye, where shallow perched water has been observed. These results are expected to inform on the fate and transport of LNAPL from the November 2021 Release within this section of the tunnel.

4.3 Groundwater

The objectives of groundwater sample collection and analysis from monitoring wells underneath the tank farm and in the vicinity of Red Hill Shaft are to evaluate the nature and extent of impacts of the 2014 and 2021 Releases to the basal groundwater aquifer. LNAPL gauging and headspace measurements are also conducted during groundwater sampling activities, as described in Section 5.2.

Groundwater sample collection from June 5, 2023, onward has been consolidated to include NOI, GW LTM, delineation, and sentinel groundwater sampling programs into one comprehensive, optimized Consolidated Groundwater Sampling Program (DOH 2024b). This program optimizes the sampling programs for targeted sampling for faster laboratory turnaround times and more efficient data analyses. Sections 5.1.3 and 6.3 provide details of the current program.

4.4 Target Analytes

The DOH document *Evaluation of Environmental Hazards at Sites with Contaminated Soil and Groundwater* provides guidance on characterizing petroleum-impacted soil and groundwater ("Soil, Soil Vapor and Groundwater Action Levels for TPH") and is summarized as follows:

- Petroleum is a complex mixture that degrades into petroleum hydrocarbon-related metabolites.
- Non-specific aliphatic and aromatic compounds and related degradation compounds compose the majority of the mass collectively referred to as total petroleum hydrocarbons (TPH).
- Risk to human health and the environment posed by petroleum releases is evaluated in terms of both TPH and individual "indicator" compounds such as BTEX as well as naphthalene, 1MN,

2MN, and other targeted polynuclear aromatic hydrocarbons (PAHs). The latter compose only a small percentage of the total mass in fuels and vapors but can pose a significant risk due to their higher toxicity and can be important for evaluating risk.

- For risk evaluation, samples are evaluated for additives known or suspected to have been pre-blended into the fuel. Such additives can potentially include antioxidants, biocides, and fuel system ice inhibitors.

Petroleum-related target analytes identified in the above guidance are listed in Table 4-1. Results generated during investigation and remediation activities were evaluated against the current (July 10, 2024) DOH petroleum-related EALs (DOH 2024a, Vol 2, App. 1, Table 6-1) and the project TPH EAL (DOH 2024a, Vol 2, App. 1, Table 6-6c).

Table 4-1: Target Analytes for Middle-Distillate Contaminated Media

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

Source: DOH (2024a, Vol.2, App. 1, Table 6-1).

5.0 Field Activities

Field activities performed during this reporting period to characterize soil vapor and groundwater are described below. Summaries of site characterization activities associated with the (b) (3) (A) Tunnel and the Former HT-LT area are included below. As noted in Section 3.0, the data for these two investigations are documented in separate reports (DON 2023m; 2022a).

Analytical methods for the samples collected are identified in Section 6.3, and analytical results are presented in Section 9.0.

5.1 Soil Vapor Monitoring

5.1.1 Below-Tank SVMPs

Total VOC concentrations at below-tank SVMPs were measured weekly in the field using hand-held PIDs at all SVMPs below Tanks 2 through 18 and 20. SVMP locations are shown on Figure 3. Analytical samples were collected for TO-3 and TO-15 analysis in September, October, and November 2024 from SVMPs SV15S, 15D, 17S, 17D, 18S, 18D, 20M, and 20D using Summa canisters.

5.1.2 (b) (3) (A) Tunnel SVMPs

During this reporting period, six SVMP monitoring events were conducted in the (b) (3) (A) Tunnels using handheld PIDs as part of implementing the *Preliminary Site Characterization Plan* (DON 2022e) and *LNAPL Site Characterization Plan* (DON 2022j) (Section 3.2). This included the monthly SVMP monitoring events for October, November, and December 2024, as well as out-of-frequency events conducted in response to rainfall events. Figure 5A shows SVMP locations, and Figure 5B shows boring and temporary well locations. No laboratory soil vapor testing was conducted at SVMPs within the (b) (3) (A) Tunnels during the reporting period.

Event No	Date	(b) (3) (A)																																		
87	10/9/2024	1	0	1	0	0	0	0	1	0	0	0	Tight	1	1	NA	0	0	1	1	Tight	10	11	0	1	3	NA	3	2	0	0	0	0			
88	10/30/2024*	1	0	0	0	0	0	0	0	0	NA	NA	Tight	0	0	0	0	0	0	1	Tight	8	12	0	1	2	1	2	1	0	0	0	0			
89	11/5/2024*	1	0	0	0	0	0	0	0	0	NA	NA	Tight	1	1	0	0	0	1	1	Tight	6	12	0	1	2	2	2	0	0	0	0	0			
90	11/8/2024*	1	0	0	0	0	0	NA	NA	0	0	0	Tight	0	1	0	0	0	0	1	Tight	7	11	1	1	2	2	3	1	0	0	0	0			
91	11/14/2024*	1	0	0	1	0	0	NA	NA	0	0	0	Tight	1	1	0	0	0	1	1	Tight	6	9	1	1	2	1	2	0	0	0	0	0			
92	12/17/2024	1	0	0	0	0	0	0	NA	0	0	0	Tight	0	1	0	NA	0	0	1	Tight	4	5	0	1	2	1	1	0	0	0	0	0			

(b) (3) (A)

Event No.	Date	(b) (3) (A)						
87	10/9/2024	0	0	0	0	0	0	0
88	10/30/2024*	NA	0	0	0	0	0	0
89	11/5/2024*	NA	0	0	0	0	0	0
90	11/8/2024*	NA	0	0	0	0	0	0
91	11/14/2024*	0	0	0	0	0	0	0
92	12/17/2024	0	0	0	0	0	0	0

Date	(b) (3) (A)																	
10/9/2024	0	0	0	1	1	1	1	4	27	NA	NA	11	2	1	1			
10/30/2024*	0	0	0	0	0	0	0	1	NA	0	1	NA	NA	NA	NA			
11/5/2024*	0	0	0	0	0	0	0	1	NA	0	1	6	1	NA	NA			
11/8/2024*	NA	NA	0	0	0	0	0	1	8	0	0	7	1	NA	NA			
11/14/2024*	NA	NA	1	1	1	1	1	1	7	1	1	6	1	NA	NA			
12/17/2024	0	0	0	0	0	0	0	1	7	0	0	5	1	0	0			

Figure 5A. Soil Vapor Monitoring Point Results
October 9, 2024 - December 17, 2024
Adit 3 Tunnel and Pearl Harbor Tunnel

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

Scale
ppmv
862
650
550
450
350
250
150
50
0

(b) (3) (A)

N

0 50 100 200 Feet

Figure 5B
Adit 3 Boring and Temporary Well Locations
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

\\aecomssd.com\DCS Isolated\N6274223F0142 60710310-HNL\1\500 Deliverables\02 NOI RRR\RRR-2025-03\01 Working\Figures and Tables\Native files\Fig5B Shallow BH Soil Results 100sc 20250131.mxd 1/31/2025

5.1.3 SVE/NSZD Pilot Project at (b) (3) (A)

Field work conducted for the Shallow SVE and NSZD Pilot Studies at (b) (3) (A) Section 3.7) during this reporting period included:

- Drilled and installed deep SVE well 2S+025-SVE-1.
- Drilled and installed deep SVMP 2S+040-DSVMP.

5.2 LNAPL Gauging and Monitoring Well Headspace Measurements

LNAPL gauging and PID headspace measurements were conducted twice monthly in accordance with the Consolidated Groundwater Sampling Program (DOH 2024b) (Section 3.1) due to reduced flow conditions at Red Hill Shaft:

- LNAPL gauging was conducted at the groundwater monitoring wells listed in Section 5.1.3 using a clear bailer in addition to an oil/water interface probe. An ultraviolet light was also used at Red Hill Shaft (RHMW2254-01) to check for the presence of LNAPL.
- Headspace PID measurements were collected from inside the well casing immediately after well cap removal. Additionally, a shake test/PID screen of groundwater from the water table was also conducted.

Due to confined aquifer conditions, RHMW12A and RHMW16 have submerged well screens; therefore, LNAPL gauging was not appropriate. Similarly, HDMW2253-03 is a deep monitoring well installed by the State of Hawai‘i Department of Land and Natural Resources with a solid casing to approximately 50 ft below the water table. Multilevel wells RHMW11, RHMW13, RHMW14, and RHMW15 are closed systems with sampling ports below the water level surface, and as a result, LNAPL would likely not be able to enter these wells.

(b) (3) (A) **Gauging and Measurements:** During the reporting period, LNAPL gauging, organic vapor headspace, and water level measurements were collected weekly at 16 boreholes and seven temporary wells located within (b) (3) (A) In addition, continuous water level measurements were collected at the temporary wells using in-well pressure transducers.

5.3 Groundwater Sampling

Beginning in May 2024, groundwater sampling of the Red Hill monitoring well network was conducted twice monthly in accordance with the Red Hill Consolidated Groundwater Sampling Program (DOH 2024b).

The following locations were sampled during this reporting period (Figure 1):

- **Red Hill Network Wells.** Groundwater sampling point RHMW2254-01 at Red Hill Shaft and RHSF-Pump, a sampling port located within the Red Hill Shaft Pump Station; in-tunnel monitoring wells RHMW01R, RHMW02, RHMW03, RHMW05, and RHMW21; and the following wells external to the lower access tunnel:
  - RHMW04, RHMW06, RHMW08, RHMW13-05, RHMW15-05, RHMW16, RHMW17, RHMW18, and RHMW20, located within the Facility boundary along its northern border.
  - RHMW09, RHMW10, and RHMW19, located within the Facility boundary along its southern border.

  - RHMW11-05, RHMW12A, RHMW14-03, and HDMW2253-03, located north of the Facility boundary on the grounds of the Hālawa Correctional Facility.

- **Delineation Wells.** RHP01, RHP02, RHP03, RHP04A/04B/04C, and RHP07, (b) (3) (A) [redacted] and RHP05, RHP06, and RHP08/08B/08C, located just outside the Facility boundary south of Red Hill Shaft.
- **Sentinel Wells.** Locations north (NMW26), northwest (NMW24, NMW27, and NMW34), south (NMW25 and NMW30), and southwest (NMW32 and NMW33) of the Facility boundary.
- **Former Oily Waste Disposal Facility (OWDF) Wells**. OWDFMW03A and OWDFMW08A, to provide information about the quality of perched groundwater migrating off the northwestern boundary of the Facility.

During the reporting period, the University of Hawai‘i (UH) conducted a vertical well profiling and colloidal borescope investigation at monitoring wells within the Red Hill well network and installed transducers at each well to collect water level measurements over a period of several weeks. A sample deviation letter from DOH was received by the Navy on June 24, 2024 (Appendix F) authorizing deviation from the Consolidated Groundwater Sampling Program to avoid disturbance of the installed transducers and collection of water level measurements. The deviation allowed the Navy to skip up to one of the two required monitoring events per month for each of the wells with installed transducers for the duration of the investigation. In several instances, samples that were authorized for deviation were collected in coordination with UH prior to installation, or after removal, of the transducers from select monitoring wells in compliance with sampling frequency requirements. Table 5-1 summarizes the authorized deviations that occurred during the reporting period.

Table 5-1: Wells Not Sampled in Accordance with DOH Authorization Letter Dated June 24, 2024

Event Date	Location ID
1st Sampling Event – October 2024	RHMW01R, RHMW05, RHP07

All samples were collected using low-flow sample collection methodology in accordance with the Consolidated Groundwater Sampling Program (DOH 2024b).

5.3.1 Single-Screen Monitoring Well Sampling

Prior to collecting groundwater samples, the single-screen monitoring wells were purged of standing water in the well casings. These monitoring locations each contain a dedicated bladder pump, which was used to purge the well and collect samples. The groundwater monitoring wells were purged using low-flow sampling methodology at flow rates of approximately 0.10–0.30 liter per minute or less to minimize VOC loss and drawdown.

To operate the bladder pump, a QED Environmental Systems MicroPurge MP10 controller or MicroPurge MP50 controller/compressor is connected to the pump airline. Compressed nitrogen gas (externally connected to the MP10 controller) or compressed air (integrated in the MP50 controller/compressor system) is used to operate the pump’s bladder and lift water to surface at a flow rate of approximately 0.10–0.30 liter per minute or less.

Water quality parameters were monitored on a periodic basis during well purging using an In-Situ Inc. smarTROLL multiparameter handheld water quality meter to automate data entry of the parameters into a digitized format. Parameters measured included total dissolved solids, pH, temperature, specific

conductivity, dissolved oxygen (DO), turbidity, oxidation-reduction potential (ORP), and salinity. The water quality parameters were used to evaluate whether the natural characteristics of the aquifer formation water were present within the monitoring wells before the samples were collected. A minimum of six readings were collected at each well during the purging process. When feasible (if the well's inside diameter allowed enough space for both the bladder pump tubing and calibrated tape), water level measurements were collected and recorded during purging to monitor drawdown. If drawdown approaching 0.2 ft was detected, the rate of low-flow purging was reduced. Purging was considered complete when at least three consecutive water quality measurements stabilized within the specified range for each parameter noted in groundwater sampling logs and in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, *Monitoring Well Sampling* (DON 2015a). The parameter measurements were recorded in the groundwater sampling logs. Sampling logs can be provided upon request.

Once water quality parameters stabilized, groundwater samples were immediately collected from the wells using the bladder pumps. Groundwater samples for all single-screen monitoring wells were collected no more than 2.5 hours after purging was completed. Groundwater samples were collected in sample containers that were pre-preserved (if necessary) and provided by the analytical laboratory. Samples collected for ferrous iron and non-volatile dissolved organic carbon (NVDOC) analyses were filtered in the field using new 0.45-micron and 0.20-micron filters, respectively, which were attached to the end of the pump discharge tubing.

5.3.2 Multilevel Monitoring Well Sampling

Due to the multilevel design of monitoring wells RHMW11, RHMW13, RHMW14, and RHMW15, purging was not required immediately prior to collecting groundwater from the sampled monitoring zone, because the sampling ports extend into the surrounding formation and there is no filter pack. Groundwater was collected using sampling probes from the following multilevel monitoring zones: RHMW11 Zone 5 (RHMW11-05), RHMW13 Zone 5 (RHMW13-05), RHMW14 Zone 3 (RHMW14-03), and RHMW15 Zone 5 (RHMW-05). Multilevel monitoring well zones were selected at each well based on proximity to the water table and ability to produce sufficient water volume for sample container requirements.

A string of four sealed 250-milliliter (mL) sample containers was connected to the sampling probe, which was lowered to each monitoring zone, and the containers were filled with groundwater from the formation through a sampling port in the central casing of the well. Once sample containers were filled, the sampling port was closed, and the probe and container string were brought to the surface. The groundwater was then transferred to the appropriate laboratory-supplied containers. For collection of groundwater quality parameters, the sample containers were flushed with nitrogen to remove air from within the containers prior to collection of groundwater. The nitrogen flush was performed to minimize DO enrichment due to high water pressure in the formation, which would otherwise have forced air in the sample containers to mix into the groundwater collected. Groundwater quality parameters were collected at least three times during the sampling of each multilevel monitoring well zone and recorded in the groundwater sampling logs. Sampling logs can be provided upon request.

Groundwater samples were collected in sample containers that were pre-preserved (if necessary) and provided by the analytical laboratory. Samples collected for ferrous iron and NVDOC were filtered in the field using new, single-use 0.45-micron and 0.20-micron filters, respectively, attached at the end of the sample canister discharge tubing.

Groundwater sampling at multilevel monitoring well zones requires a few hours for each zone due to the limited volume (1 liter) collected from each deployment of the sample container string. During the Second Quarter 2019 GW LTM event, a one-time evaluation was conducted to determine whether the groundwater geochemistry changes during sampling. Three additional aliquots of groundwater (from run #2, run #7, and

run #13) were collected at RHMW11-05 and analyzed for anions and alkalinity. The results indicated that the groundwater geochemistry is consistent during the 4-hour sampling duration at RHMW11-05. Data related to these samples were presented in the *Second Quarter 2019 Groundwater Monitoring Report* (DON 2019b).

5.4 Decontamination

Decontamination activities were performed in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-F, *Equipment Decontamination* (DON 2015a). A staging and decontamination area was established near each well location. Non-disposable sampling equipment (e.g., water level meter, oil/water interface probe, multilevel monitoring well sample container string) was decontaminated at the beginning of each day and after purging and sampling each well. The decontamination process included washing and scrubbing the equipment with stiff-bristled nylon brushes and a non-phosphate detergent (e.g., Alconox) solution, followed by rinsing once with isopropyl alcohol and twice with distilled water. Rinsate equipment blanks are also collected to evaluate decontamination efficiency. Liquid wastes generated during decontamination activities were captured and containerized in properly labeled, U.S. Department of Transportation-approved 55-gallon drums or other suitable temporary containers and managed as investigation-derived waste (IDW).

5.5 IDW Management

IDW generated during the monitoring events consisted of purged groundwater from the monitoring wells and decontamination water. The IDW was handled, accumulated, and labeled in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure I-A-6, *Investigation-Derived Waste Management* (DON 2015a). All IDW was containerized in clearly labeled, 55-gallon-capacity drums, covered with a tarp, and accumulated within the Facility in an area designated by the Navy pending disposal. Disposable personal protective equipment and sampling equipment and supplies were collected in plastic trash bags and disposed of as municipal waste.

6.0 Sample Control Procedures

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

6.1 Sample Containers and Preservation

Sample container, preservative, and holding time requirements for soil vapor and groundwater samples are listed in Table 6-1; no soil or LNAPL samples were analyzed during the reporting period. The samples were preserved as indicated and analyzed within the required holding times. The containers, preservatives, and holding times are specified in the respective EPA or SW-846 methods.

Table 6-1: Sample Containers, Preservatives, and Holding Times

Parameter	Number and Type of Containers per Sample	Preservative	Holding Time
Soil Vapor			
Total VOCs, GRO, BTEX, naphthalene, 1MN, and 2MN; oxygen, carbon dioxide, methane, and helium	1 × passivated canister	N/A	30 days
Groundwater			
VOCs			
BTEX, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
TPH			
GRO	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
DRO, ORO (without and with SGC)	2 × 1-L amber glass (Energy Laboratories), Teflon-lined lid or 2 × 250-mL amber glass (SGS-Orlando), Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with H_2SO_4 or cool to ≤6°C if unpreserved	Maximum holding time is 7 days if pH >2 or 14 days if pH <2/40 days [a]
SVOCs, PAHs			
SVOCs (phenol)	2 × 1-L amber glass, Teflon-lined lid	Cool to ≤6°C	7 days/40 days [a]
Full suite PAHs including naphthalene, 1MN, and 2MN	2 × 250-mL glass amber glass, Teflon-lined lid	Cool to ≤6°C	7 days/40 days [a]
SVOCs (2-(2-methoxyethoxy)-ethanol)	2 × 250-mL glass amber glass, Teflon-lined lid	Cool to ≤6°C	7 days/40 days [a]
Lead Scavengers			
1,2-Dibromoethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
1,2-Dichloroethane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2
Natural Attenuation Parameters			
Methane	2 × 40-mL vials, Teflon-lined septum caps	No headspace, cool to ≤6°C, and adjust to pH <2 with HCl	Maximum holding time is 7 days if pH >2 or 14 days if pH <2

Parameter	Number and Type of Containers per Sample	Preservative	Holding Time
Ferrous Iron	1 × 250-mL brown plastic	Cool to ≤6°C, and adjust to pH <2 with HCl	7 days
Nitrate	1 × 250-mL plastic	Cool to ≤6°C	48 hours
Alkalinity (total, bicarbonate, carbonate)	1 × 250-mL plastic	Cool to ≤6°C	14 days
Nitrate-nitrite	1 × 250-mL plastic	Cool to ≤6°C and adjust to pH <2 with H-SO	28 days
Non-Volatile Dissolved and Total Organic Carbon			
NVDOC, TOC	2 × 40-mL amber VOA vials, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with HCl	28 days
DOC	2 × 40-mL amber VOA vials, Teflon-lined lid	Cool to ≤6°C and adjust to pH <2 with HCl	28 days
Groundwater Chemistry			
Total silica, bromide, chloride, fluoride, sulfate	1 × 250-mL plastic	Cool to ≤6°C	28 days
Dissolved silica	1 × 250-mL plastic	Field filtered, cool to ≤6°C	28 days
Total calcium, total magnesium, total manganese, total potassium, total sodium	1 × 250-mL plastic	Cool to ≤6°C and adjust to pH <2 with HNO_3	6 months

°C degree Celsius
DOC dissolved organic carbon
H_2SO_4 sulfuric acid
HCl hydrochloric acid
HNO_3 nitric acid
L liter
mL milliliter
N/A not applicable (holding times not provided)
SGC silica gel cleanup
SVOC semivolatile organic compound
TOC total organic carbon
VOA volatile organic analysis

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

6.2 Sample Handling and Chain of Custody

The samples were labeled and logged in accordance with NAVFAC Pacific Environmental Restoration Program Project Procedure III-E, *Record Keeping, Sample Labeling, and Chain-of-Custody Procedures* (DON 2015a). Immediately after collection, all samples were labeled, logged in the field logbooks, custody-sealed, sealed with tape, and placed in a resealable plastic bag. To meet the recommended holding time for nitrate analysis, efforts were made to ship samples to the laboratory on the day of collection. Samples not shipped on the day of collection were stored in secure and controlled cold storage overnight and shipped the following day.

Prior to shipping, the samples were logged in a chain-of-custody form and loaded into a cooler with double-bagged wet ice. Packed coolers were sent by field personnel via express-courier overnight shipping in custody-sealed coolers to the following subcontractor laboratories: (b) (4) [redacted]. Multiple labs are necessary to meet program requirements and expedited turn-around-times.

Chain-of-custody documentation was maintained for samples during all phases of sample collection, transport, and receipt and internal transfer within the laboratory. Sample transport and custody details are provided in the chain-of-custody records in the laboratory reports indexed in Appendix C (soil vapor) and Appendix D (groundwater). No soil or LNAPL samples were analyzed during this reporting period.

6.3 Laboratory Analyses

The analytical methods, analytes, and applicable screening criteria for the soil vapor and groundwater samples are identified below.

6.3.1 Soil Vapor Analyses

Passivated canister samples collected from SVMPs in borings below the tanks in the Red Hill tank farm were analyzed for VOCs by Method TO-15; total VOCs (C5–C12) by Method TO-3; and oxygen, carbon dioxide, and methane by ASTM D1946. All tanks were drained during defueling operations as of March 2024 and are in various stages of sludge removal.

6.3.2 Groundwater Analyses

The Consolidated Groundwater Sampling Program (DOH 2024b) was first implemented in June 2023 and is an integration of the various prior groundwater monitoring programs (NOI, GW LTM, delineation well, and sentinel well sampling) into one overall program based on the substantial amount of laboratory results, DOH guidance, and the composition of the fuels stored at the Facility.

The following ten primary chemicals of potential concern (COPCs) were established in February 2016 (EPA Region 9 and DOH 2016) for the GW LTM program and remain the same for the Consolidated Groundwater Sampling Program:

- GRO, DRO, and ORO
- Naphthalene, 1MN, and 2MN
- BTEX

In addition, lead scavengers, fuel additives, natural attenuation parameters (NAPs), and general water chemistry parameters continue to be monitored as was established in the April 2017 Sampling and Analysis Plan (DON 2017b). Additional PAHs are analyzed as part of the Consolidated Groundwater Sampling Program, since some PAHs are components of middle distillate fuels (jet fuels, marine diesel, Navy Special Fuel Oil) at low concentrations. NVDOC has also been added to the NAP list for monthly sampling.

Table 6-2 summarizes the analytical list for the Consolidated Groundwater Sampling Program, which includes monthly and quarterly analytes, analytical methods, and screening criteria.

Table 6-2: Consolidated Groundwater Sampling Program

Parameter	Analytical Method	Analyte	Groundwater Screening Criterion (DOH EAL) (µg/L)
TPH [a]	EPA 8015	GRO	—
	EPA 8015	DRO	—
		ORO	—
TEH [b]	EPA 8015	Total Extractable Hydrocarbons	—
TPH Calculation	—	Reported as a non-overlapping sum of GRO/DRO/ORO with BTEX,1MN, 2MN, naphthalene subtracted	193
TPH with SGC [c]	EPA 8015/DEP FL PRO or EPA 3630	DRO	—
		ORO	—
VOCs	EPA 8260	Benzene	5
		Ethylbenzene	30
		Toluene	40
		Total Xylenes	20
		1,2,4-Trimethylbenzene	—
		1,3,5-Trimethylbenzene	—
GW LTM PAHs	EPA 8270 SIM	1MN	10
		2MN	10
		Naphthalene	17

Parameter	Analytical Method	Analyte	Groundwater Screening Criterion (DOH EAL) (µg/L)
Additional PAHs	EPA 8270 SIM	Acenaphthene	20
		Acenaphthylene	300
		Anthracene	0.18
		Benzo(a)anthracene	0.052
		Benzo(a)pyrene	0.2
		Benzo(b)fluoranthene	0.058
		Benzo(g,h,i)perylene	0.13
		Benzo(k)fluoranthene	0.36
		Chrysene	0.24
		Dibenzo(a,h)anthracene	0.0048
		Fluoranthene	13
		Fluorene	250
		Indeno(1,2,3-cd)pyrene	0.018
		Phenanthrene	250
		Pyrene	68
Fuel Additives	EPA 8270	Phenol	300
	EPA 8270	2-(2-Methoxyethoxy) Ethanol	—
Lead Scavengers	EPA 8011	1,2-Dibromoethane	0.04
	EPA 8260	1,2-Dichloroethane	5
NAPs	RSK 175M	Methane	—
	SM 3500-Fe	Ferrous Iron	—
	EPA 9060A	TOC	—
	EPA 9060A	NVDOC	—
	EPA 300	Nitrate, Sulfate, and Chloride	—
	EPA 353.2	Nitrate-Nitrite as Nitrogen	—
	SM 2320	Carbonate, Bicarbonate, and Total Alkalinity	—
General Chemistry	EPA 300 [d]	Bromide, Chloride, Fluoride, Nitrate, and Sulfate	—
	EPA 6010C [d]	Calcium, Magnesium, Manganese, Potassium, and Sodium	—
	SMWW4500-Si-D/ SIO2-C [d]	Dissolved Silica and Total Silica	—
	Method 120.1 and 2510B	Conductivity	—
	Method SM2540C-2015	Total Dissolved Solids	—

Source: (DOH 2024a; 2024b)

— not applicable
µg/L micrograms per liter
DEP Department of Environmental Protection
FL PRO Florida Petroleum Residual Organic
SIM selected ion monitoring
TEH total extractable hydrocarbons
TOC total organic carbon

[a] Uses 3510 extraction method for Consolidated. Additional 3520 for Quarterly.

[b] TEH is reported for the total range integrated for the sample based on the DRO method.

[c] Silica Gel Cleanup will be conducted on samples where DRO and ORO are detected.

[d] Monitored during the first GW LTM event of a new well. Chloride, sulfate, and nitrate will also continue to be monitored and evaluated quarterly with the NAPs.

TPH and PAH Method Optimization: Performance testing results documented in detail in the *Third Quarter 2018 Groundwater Monitoring Report* (DON 2018c) showed that the EPA Region 9 laboratory had higher DRO and PAH recoveries than the Navy-contracted laboratory for analytes present in groundwater samples at high concentrations (EPA Region 9 and DOH 2017a, 2018; DON 2018b). The differences in recoveries were due to the EPA Region 9 laboratory protocols using EPA Method 3520 being more effective at recovering higher DRO and PAH concentrations than using the Navy-contracted laboratory extraction EPA Method 3510, especially for samples with higher concentrations of polar hydrocarbons and metabolites. Samples extracted using EPA Method 3520 typically resulted in increased detections than EPA Method 3510. To optimize sample recoveries, the extraction methodologies from EPA Method 3510C (separatory funnel liquid-liquid extraction) was switched to EPA Method 3520C (continuous liquid-liquid extraction) using a rotary evaporator for extract condensation and reducing the field-collected sample volume for optimal extraction within the liquid-liquid extractor vessel. After the method optimizations, there were no significant differences in the TPH and PAH concentration trends between EPA Region 9 laboratory and Navy-contracted laboratory results; therefore, EPA Method 3520 continues as the extraction method for TPH for the quarterly sampling under the Consolidated Groundwater Sampling Program.

Following the 2021 Releases, due to data delays since EPA Method 3520 is an exhaustive 16-hour extraction method, there was a need in expedited reporting for early detection of potential releases. Additionally, there was limited laboratory availability for a backup laboratory option for the EPA Method 3520 extraction. Therefore, EPA Method 3510 was recommended as part of routine weekly sampling and has since been the extraction method for TPH for sampling under the Consolidated Groundwater Sampling Program.

7.0 Field Observations During Sampling

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

7.1 Soil Vapor Monitoring Observations

During this reporting period, soil vapor monitoring was conducted weekly at the below-tank SVMPs. Soil vapor monitoring was also conducted monthly (plus additional out-of-frequency monitoring) at the subslab and shallow SVMPs installed in the tunnel system (b) (3) (A) near Red Hill Shaft. Historical soil vapor monitoring observations are presented in the December 11, 2023 Quarterly RRR (DON 2023l).

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

7.2 LNAPL Gauging and Monitoring Well Headspace Observations

A summary of LNAPL gauging and groundwater monitoring well headspace measurements collected under the Consolidated Groundwater Sampling Program is provided in Appendix B.2.1. Historical LNAPL gauging and groundwater monitoring well headspace measurements are presented in the December 11, 2023 Quarterly RRR (DON 2023l). Other than LNAPL observed in temporary monitoring wells screened in the shallow perched water located beneath the (b) (3) (A) tunnel floor, no LNAPL was observed during the reporting period in any groundwater monitoring well during any sampling event, regardless of the detection method used (i.e., oil/water interface probe, bailer, or ultraviolet light), including in samples collected at the multilevel wells RHMW11, RHMW13, RHMW14, and RHMW15 equipped with closed sampling ports.

Groundwater monitoring well headspace concentrations were generally low. Readings were 0.2 parts per million by volume (ppmv) or less. Shake test/PID screening concentrations were all 0.0 ppmv.

At (b) (3) (A) LNAPL gauging was conducted at the borehole and temporary well locations shown on Figure 5B. LNAPL was detected at 1 of 16 borehole locations ([redacted]100-BH) and 2 of 7 temporary well locations ([redacted]+015-TW and [redacted]-010-TW) at thicknesses ranging from a sheen to 0.24 ft.

7.3 Groundwater Level Measurements

Depths to groundwater were gauged from the notched and surveyed top of casing using calibrated water level measuring tapes at single-screen monitoring well locations prior to sampling. Additionally, a Heron or Solinst oil/water interface probe was used to detect LNAPL, which was measured if present.

The oil/water interface probe and water level measuring tapes were decontaminated between well measurements by washing with a non-phosphate detergent solution and rinsing with isopropyl alcohol and distilled water to prevent cross contamination. Measuring points for all single-screen monitoring wells are detailed in three well elevation survey reports. The measuring point elevations have been updated to reflect well elevation data revised on January 7, 2022, and recent elevations surveyed from July 2022 to present (Appendix B.2.2). Historical groundwater level measurements are presented in the December 11, 2023 Quarterly RRR (DON 2023l) and the Third Quarter 2023 GW LTM Report (DON 2023g).

During this reporting period, basal groundwater elevations beneath and near the site ranged from 16.36 to 20.75 ft above msl except at NMW33, where groundwater elevations ranged from 12.84 to 13.086 ft above msl. Groundwater elevations are presented in Appendix B.2.2. Since the previous quarterly reporting period, minor fluctuations in groundwater elevations from single-screen wells have generally increased.

Additionally, due to the design of the multilevel monitoring wells, depths to groundwater cannot be measured in the monitoring zones of RHMW11, RHMW13, RHMW14, and RHMW15. Instead, pressure transducers are used in these wells to estimate potentiometric groundwater elevations at these locations. Cumulative results of water pressure, temperature, and elevation for multilevel monitoring wells were last presented in Appendix D of the *Fourth Quarter 2020 Groundwater Monitoring Report* (DON 2021a).

7.4 Groundwater Sampling Observations

The following observations were recorded during groundwater sampling field activities this reporting period:

- Organic odors were noted during all sampling events at RHMW11.
- The water collected from RHMW20, HDMW2253-03, NMW26, and NMW32 was intermittently observed to contain suspended sediment (but did not exhibit signs of discoloration, sheen, or LNAPL).
- Organic or sulfurous odors were noted intermittently at RHMW02.

8.0 Data Quality

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

Field and laboratory QC measures implemented during this reporting period are described below. When applicable, corrective actions were implemented when control limits for field or laboratory QC measurements were not met. Results are reported in the associated laboratory and data validation reports (indexed in Appendix C and Appendix D).

8.1 Laboratory Quality Control

The following laboratory QC samples were collected and analyzed.

8.1.1 Soil Vapor Samples

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

8.1.2 Groundwater Samples

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

8.2 Field Quality Control

8.2.1 Soil Vapor Samples

Analytical soil vapor samples from the SVMPs beneath the Red Hill tanks were collected by (b) (4) [redacted] C. Field QC samples were not collected.

Soil vapor samples collected monthly and out-of-frequency from the subslab SVMPs in the (b) (3) (A) [redacted] Tunnel floors were collected with field PIDs that were calibrated before the sampling event with 100 ppmv isobutylene gas and zero span gas for a two-point calibration, then bump-tested with the 100 ppmv isobutylene between 6 and 12 times per sampling event, to ensure that instruments remained calibrated. If bump test results did not meet QC criteria, the equipment was recalibrated or returned to the shop for maintenance if the recalibration failed to meet the criteria.

8.2.2 Groundwater Samples

Field QC samples for groundwater including trip blanks and equipment rinsates were collected according to procedures described in NAVFAC Pacific Environmental Restoration Program Project Procedure III-B, *Field QC Samples* (Water, Soil) (DON 2015a). Field QC samples are listed in Table 8-1.

Table 8-1: Measurement Performance Criteria – Field QC Samples

QC Sample	Analytical Group [a]	Frequency	DQI	Measurement Performance Criterion
Field duplicate	VOCs, GRO, DRO, ORO, PAHs, SVOCs	10% of primary samples collected per matrix per analytical method	Field sampling precision	RPD ≤50% water [b]
Field blank	VOCs, GRO, DRO, ORO, PAHs, SVOCs	Once per source of decontamination water per sampling event	Adequacy of the decontamination water quality or potential for contamination due to field conditions	≤1/2 of LOQ
Equipment blank	VOCs, GRO, DRO, ORO, PAHs, SVOCs	5% of primary samples collected per matrix per analytical method	Adequacy of the decontamination process	≤1/2 of LOQ
Trip blank	VOCs, GRO, methane, lead scavengers	At minimum, one per cooler per analytical method containing VOCs, GRO, methane, or lead scavenger samples	Contamination during sample transport	≤1/2 of LOQ

% percent
DQI data quality indicator
LOQ limit of quantitation
RPD relative percent difference
SVOC semivolatile organic compound

[a] See Table 6-1 for the list of analytes within analytical groups.

[b] Per Project Procedures Manual Section II, *Data Validation Procedures* (DON 2015a).

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

8.2.3 Sample Control Procedures

Field instruments were calibrated each morning prior to starting field activities. The PID was calibrated with 100 parts per million (ppm) isobutylene calibration gas. The multi-gas monitor was calibrated with

100 ppm isobutylene calibration gas and a multi-gas monitor calibration gas composed of 50 ppm carbon monoxide, 25 ppm dihydrogen sulfide, 19 percent oxygen, and 50 percent of the lower explosive limit of methane. The water quality meter was calibrated with an auto-calibration solution prior to recording measurements.

To assess the effectiveness of the equipment decontamination process, one equipment blank sample was collected during each sampling event from the reusable sample container used during the multilevel monitoring well zone sampling. The equipment blank sample was collected on site by pouring distilled water onto the decontaminated multilevel monitoring well sample container string and then into the sample containers.

A field blank sample was also collected during each sampling event to assess the quality of the distilled water used to collect the equipment blank. The field blank was collected by pouring distilled water directly into sample containers. The field blank and equipment blank samples were analyzed for the same COPCs as the groundwater samples.

Because all single-screen monitoring locations have dedicated bladder pumps installed, no field or equipment blanks were collected at single-screen monitoring locations. Equipment rinsate blanks are collected from water level meters and oil/water interface probes.

To help assess the precision of the data collection activity, including sampling and analysis, field duplicates (FDs) were collected at the same approximate time as their respective primary samples. During the current sampling period, one FD was collected at each of the following wells: RHMW01R, RHMW02, RHMW17, RHMW21, RHP05, RHP08, and RHSF-Pump.

One trip blank was used for each sampling location for VOCs (GRO, BTEX, methane, and lead scavengers) to evaluate the condition of the samples in each shipment. The hermetically sealed trip blank samples were prepared by the field team using laboratory-provided VOC-free water immediately prior to the sampling event and kept chilled until the sampling day. Trip blanks remained with the associated groundwater samples in the cooler during the field event and during sample shipment to the laboratory.

8.3 Data Quality Assessment

The objective of data validation is to provide data of known quality for project decisions. Data quality is judged in terms of precision, accuracy, representativeness, comparability, completeness, and sensitivity. The analytical laboratory data for the groundwater sampling events were submitted to a third-party data validator, ESI (Environmental Standards, Inc.) or EDS (Environmental Data Services, Ltd.), for data validation and assessment. The following summary includes results provided during this reporting period that completed full data validation. Samples not meeting the acceptance criteria were qualified with a flag indicating a deficiency in the data. Groundwater data with validation qualifiers and reason codes are available in the Red Hill EDMS (Appendix E – Data Validation Qualifier Tables).

8.3.1 Precision

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

A RPD outside the numerical QC limit in MS/MSD samples, LCS/LCSDs, or FDs indicates poor precision. Thus, the actual analyte concentration has a larger potential variance from the measured value than recommended in the SAP (DON 2017b, 2018c) and SAP addenda (DON 2017d, 2018g). Possible causes

of poor precision include sample matrix interference, improper sample collection or handling, inconsistent sample preparation, and poor instrument stability.

The following exceptions to the groundwater RPD performance criterion of ≤30 percent for QC samples and FD results greater or equal than the limit of quantitation (LOQ) were reported during data validation:

- Two DRO detected results were qualified as estimated since FD precision was outside of control limits.
- Two total extractable hydrocarbon not detected results were qualified as estimated since FD precision was outside of control limits.

Primary and FD RPDs are presented in Table 8-2 for duplicate pairs in which the COPC was detected in one or both samples. When COPCs are not detected in the primary and FD samples, the RPD is within control limits. RPDs could not be calculated when a primary or duplicate sample is not detected.

Table 8-2: Field Duplicate Analyte RPDs

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
RHMW01R			
DRO	RHMW01R-WGN01LF-2410B	149.7 J	13
	RHMW01R-WGFD01LF-2410B	170 J	
	RHMW01R-WGN01LF-2410B	92.6 J	0.8
	RHMW01R-WGFD01LF-2410B	91.9 J	
DRO SGC	RHMW01R-WGN01LF-2410B	105 J	21
	RHMW01R-WGFD01LF-2410B	85.2 J	
RHMW02			
GRO	RHMW02-WGN01LF-2409B	47 J	32
	RHMW02-WGFD01LF-2409B	64.9 J	
DRO	RHMW02-WGN01LF-2409B	2020	0.5
	RHMW02-WGFD01LF-2409B	2010	
	RHMW02-WGN01LF-2410A	1200	1.7
	RHMW02-WGFD01LF-2410A	1220	
DRO SGC	RHMW02-WGN01LF-2409B	1480	5.3
	RHMW02-WGFD01LF-2409B	1560	
	RHMW02-WGN01LF-2410A	1100 J+	3.7
	RHMW02-WGFD01LF-2410A	1060 J+	
ORO	RHMW02-WGN01LF-2409B	299	40
	RHMW02-WGFD01LF-2409B	200 J	
	RHMW02-WGN01LF-2410A	150 J	2.6
	RHMW02-WGFD01LF-2410A	154 J	

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
ORO SGC	RHMW02-WGN01LF-2409B	134 J	6.5
	RHMW02-WGFD01LF-2409B	143 J	
	RHMW02-WGN01LF-2410A	123 J	3.3
	RHMW02-WGFD01LF-2410A	119 J	
1MN	RHMW02-WGN01LF-2409B	0.42 U	—
	RHMW02-WGFD01LF-2409B	0.33 J	
	RHMW02-WGN01LF-2410A	0.42 J	<1
	RHMW02-WGFD01LF-2410A	0.42 J	
Naphthalene	RHMW02-WGN01LF-2409B	1.1	<1
	RHMW02-WGFD01LF-2409B	1.1	
	RHMW02-WGN01LF-2410A	1.4	<1
	RHMW02-WGFD01LF-2410A	1.4	
RHP05			
DRO	RHP05-WGN01LF-2411A	305 J	118
	RHP05-WGFD01LF-2411A	78.1 J	
DRO SGC	RHP05-WGN01LF-2411A	289	—
	RHP05-WGFD01LF-2411A	98 U	
ORO	RHP05-WGN01LF-2411A	150 J	—
	RHP05-WGFD01LF-2411A	160 U	
ORO SGC	RHP05-WGN01LF-2411A	131 J	—
	RHP05-WGFD01LF-2411A	160 U	
RHMW17			
DRO	RHMW17-WGN01LF-2411A	178 J	36
	RHMW17-WGFD01LF-2411A	257 J-	
DRO SGC	RHMW17-WGN01LF-2411A	119 J	21
	RHMW17-WGFD01LF-2411A	147 J	
ORO	RHMW17-WGN01LF-2411A	94.9 J	19
	RHMW17-WGFD01LF-2411A	115 J	
RHP08			
DRO	RHP08-WGN01LF-2410B	312.3	—
	RHP08-WGFD01LF-2410B	143 U	
	RHP08-WGN01LF-2411B	126 J	34
	RHP08-WGFD01LF-2411B	177 J	
	RHP08-WGN01LF-2412A	95.1 J	9.9
	RHP08-WGFD01LF-2412A	105 J	

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
DRO SGC	RHP08-WGN01LF-2411B	148 J	27
	RHP08-WGFD01LF-2411B	195 J	
ORO	RHP08-WGN01LF-2410B	436.4	—
	RHP08-WGFD01LF-2410B	190 U	
	RHP08-WGN01LF-2411B	91 J	30
	RHP08-WGFD01LF-2411B	123 J	
	RHP08-WGN01LF-2412A	83.7 J	—
	RHP08-WGFD01LF-2412A	160 U	
ORO SGC	RHP08-WGN01LF-2411B	123 J	6.3
	RHP08-WGFD01LF-2411B	131 J	

% percent
J estimated value
J- estimated low
RHSF Red Hill Shaft Facility
SAP Sampling and Analysis Plan
U non-detect value

[a] Field duplicate RPD measurement performance criterion for groundwater is 50 percent in accordance with the criteria presented in Table 5-1 of the SAP (DON 2017b, 2018c) and Table 3-2 of the SAP addenda (DON 2017d, 2018g).

[b] RPD = $\frac{|(x2 - x1)|}{((X2+X1)/2)}$ *100; RPD = relative percent difference, x1 = initial value, x2 = final value

No other precision concerns were identified for data validated during the reporting period.

8.3.2 Accuracy

Accuracy is defined as the degree of conformity of a measurement to a standard or true value. Accuracy is evaluated through measurement of the percent recovery of an analyte in a reference standard or spiked sample. Accuracy also encompasses the percent difference (%D) between the initial calibration verification and the continuing calibration verification (CCV). Accuracy limits for internal standards, surrogates, LCS, MS, and MSD samples are either prescribed by DoD or established by the individual laboratory. Control limits represent the variation of the analytical process and signifies if the process (equipment, supplies, human error) is unsystematic.

Initial and continuing calibration results provide a means of evaluating accuracy within a particular sample delivery group. Relative response factor, percent relative standard deviation (%RSD), and %D are the three major parameters used to measure the effectiveness of instrument calibration. Relative response factor is a measure of the relative spectral response of an analyte compared to its internal standard. %RSD is an expression of the linearity of instrument response. %D is a comparison of a continuing calibration instrumental response with its initial response. %RSD and %D exceedances suggest routine instrumental anomalies, which typically impact all sample results for the affected compounds.

The following groundwater data validated during the reporting period deviated from the established QC criteria and have been qualified as estimated (J), estimated biased low (J-), estimated biased high (J+), or not-detected estimated (UJ):

- Two primary not-detected results, and one FD result for TPH-DRO were qualified as UJ and J-, respectively, because the surrogate percent recoveries were outside the acceptance limit.
- One primary and one FD detected result for TPH-DRO SGC were qualified as J+ because QC sample percent recoveries were outside the acceptance limit.
- One primary and one FD not-detected result for TPH-ORO SGC were qualified as UJ because the surrogate percent recoveries were outside the acceptance limit.
- PAHs were not detected in 168 primary and 20 FD samples and were qualified as UJ due to high %RSDs (%RSD >15%).
- 2-(2-methoxyethoxy)-ethanol (2-2-MEE) was not detected in 30 primary samples and five FD samples that were qualified as UJ because QC sample percent recoveries were outside the acceptance limit.
- One primary not-detected result for methane was qualified as UJ because the QC sample percent recovery was outside the acceptance limit.
- Seven primary detected results for NVDOC were qualified as J+ because the QC sample percent recoveries were outside the acceptance limit.
- Four primary detected result for TOC was qualified as J+ because the QC sample percent recovery was outside the acceptance limit.
- Chloride and sulfate were detected and qualified as J- in five primary samples, and qualified as J+ in three primary samples because QC sample percent recoveries were outside the acceptance limit.
- Nitrate-nitrite (as Nitrogen) were detected in eight primary samples and qualified as J-, one primary detected sample as J+, and one not detected result as UJ because the QC sample percent recoveries were outside the acceptance limit.
- One detected nitrate-nitrite (as Nitrogen) result was qualified as J- because the positive result was more negative than the quantitation limit. One not detected result was qualified as UJ because results were more negative than the method detection limit.
- Total dissolved solids were detected in seven primary samples and were qualified as J+ because the QC sample recoveries were outside the acceptance limit.

Section 8.3.4 describes the rejected data from significant deficiencies in meeting the published method and project QC criteria.

8.3.3 Representativeness

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

Groundwater samples for the Consolidated Groundwater Sampling Program were collected in accordance with procedures described in the DOH-approved AOC Statement of Work Sections 6 and 7, Work

Plan/Scope of Work (DON 2017d) and the associated project Sampling and Analysis Plan and addenda (DON 2017c; 2017b; 2017a), including standardized sample collection methods identified in NAVFAC Pacific Environmental Restoration Program Project Procedure I-C-3, *Monitoring Well Sampling* (DON 2015a):

- This procedure outlines collection of groundwater samples from a specific depth directly beneath the water table using a low-flow pumping strategy. Samples consist of groundwater containing dissolved constituents within the aquifer; the samples will not collect LNAPL or compounds in the LNAPL/groundwater interface (if one existed).
- Results from these samples represent groundwater from one depth, below the water table.

Representativeness is also evaluated through compliance with the method-specific recommended sample holding time, method-specific sample preservation, and through analysis of method, equipment, field, and trip blank samples (DoD 2021). All sample holding times, sample preservation, and any impacts of associated blank contamination have been evaluated in accordance with EPA SW-846 method recommendations and DoD *Quality Systems Manual Version 5.4* (DoD and DOE 2021) during validation.

The following detected sampling results for the groundwater data were reported below the LOD and were qualified as not detected (U) at the LOD due to field, equipment, laboratory, instrument, or trip blank contamination:

- One manganese, 95 NVDOC and 124 TOC sample results detected in the laboratory were qualified not detected (U) due to contamination in field, equipment, laboratory, instrument, or trip blanks.

The following results reported above the LOD and less than or equal to five times the blank contamination were flagged due to field, equipment, instrument, laboratory, or trip blank contamination:

- One nitrate-nitrite (as nitrogen) results was flagged J+ and three results were flagged as J due to contamination in the instrument blank.
- Twenty-three NVDOC results were flagged J+ due to contamination in the laboratory or instrument blank.
- Eight TOC results were flagged J+ due to contamination in the instrument blank.

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

- Two DRO detected results were flagged as J- due to sample preparation occurring beyond the method-recommended holding time.
- Two ORO SGC not-detected results were flagged as UJ and two DRO SGC detected results were flagged as J- due to sample preparation occurring beyond the method-recommended holding time.
- Two PAH not-detected results were flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- One phenol not-detected result was flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- One methane not-detected result was flagged as UJ due to sample analysis occurring beyond the 14-day method-recommended holding time.

- Twelve nitrate (as nitrogen) detected results were flagged as J- and two chloride, nitrate (as nitrogen), or sulfate detected results were flagged as J- due to sample analysis occurring beyond the respective 48-hour or 28-day method-recommended holding time.

In addition, other sample representative deviations were noted for the following:

- Four ferrous iron not detected result was flagged as UJ since the sample was received with a pH greater than the method requirement of < 2.
- One methane and one TPH-GRO samples contained significant headspace (bubble > 6 millimeters).

Pending validation, detections in the field blanks and equipment blanks are summarized to aid in discussion of the analytical results. Field blank and equipment blank detections with final results are available in the data validation table in the Red Hill EDMS (Appendix E – Data Validation Qualifier Tables).

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

8.3.4 Completeness

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

Rejected data (R) occurred due to major deficiencies in meeting the published method and project QC criteria. The presence or absence of the compound cannot be supported by the data provided and is excluded for data usability and assessment. Based on the frequency of sampling and the quantity of data collected, the loss of these data points does not constitute a significant data gap for the sampling events.

Validated data results that were impacted include the following:

- One primary sample for phenol was qualified as R because the surrogate sample percent recovery was significantly outside the acceptance limit.
- One primary sample for nitrate (as Nitrogen) was qualified as R due to sample analysis occurring significantly beyond the 48-hour method-recommended holding time.

Based on the frequency of sampling and the quantity of data collected, the loss of these data points does not constitute a significant data gap for the sampling events. The completeness of the data (99.9 percent) met the 90 percent completeness goal.

8.3.5 Comparability

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

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

8.3.6 Sensitivity

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

8.4 Data Quality Assessment Conclusions

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

Groundwater sample analysis and third-party data validation are ongoing and pending completion for a number of samples collected during this reporting period. These pending sample results will be included in the next Quarterly RRR. Laboratory and field data quality will be fully assessed pending availability of additional laboratory and third-party data validation reports.

The third-party data assessment for the provided data concluded that 99.9 percent of the data generated during the sampling events reported herein are usable for the intended purpose with the limitations described above.

9.0 Analytical Results

Analytical results for soil vapor and groundwater samples collected during this reporting period are presented below, along with the results of LNAPL gauging and headspace measurements performed as part of the Consolidated Groundwater Sampling Program (DOH 2024b). No soil samples associated with monitoring well installation were collected during this reporting period.

9.1 Soil Vapor Analytical Results

9.1.1 Below-Tank Sampling Locations

Soil vapor measurements of total VOCs collected below the fuel storage tanks since January 2014 are provided in EDMS (Appendix E – Soil Vapor Measurements Below Tanks) and the DOH Red Hill Technical Documents web pages.[2] Soil vapor PID measurements of total VOCs for Tanks 2 through 18 and 20 are presented in Appendix A.1; and chromatograms for passivated canister samples collected below Tanks 15, 17, 18, and 20 for laboratory reports validated during this reporting period are presented in Appendix A.2. Soil vapor analytical data reports for passivated canister samples collected below the fuel storage tanks are indexed in Appendix C and available in EDMS (Appendix E – Soil Vapor Analytical Laboratory Reports).

Appendix A.2 shows chromatography and laboratory results compared to PID readings for the below-tank SVMPs. During this reporting period the data suggests the readings are consistent with the Passive TO-03 laboratory results. Cumulative PID monitoring data for the below-tank SVMPs is discussed in Section 10.1.

[2] https://health.hawaii.gov/ust/ust-home-test/ust-red-hill-project-main/#technical-docs

The cumulative results are consistent with natural attenuation and weathering of LNAPL in the environment, indicating that the vapor impacts from the May 2021 Release have attenuated.

9.1.2 (b) (3) (A) Tunnel Sampling Locations

During this reporting period, SVMPs in the (b) (3) (A) Tunnel were monitored monthly, and three additional out-of-frequency monitoring events were conducted due to significant rainfall. Figure 5A shows the reporting period's results of soil vapor monitoring at subslab and shallow SVMPs installed in the floor of the (b) (3) (A) Tunnels using a PID. In general, the results remain consistent with the previous quarter's values and continue to indicate an overall decrease in concentrations since monitoring began in December 2021.

Historical soil vapor monitoring observations are presented in the December 11, 2023 Quarterly RRR (DON 2023l).

9.2 LNAPL Gauging and Monitoring Well Headspace Measurements

LNAPL gauging results and headspace measurements collected during the reporting period are presented in Section 7.2 and Appendix B.2.1. LNAPL was detected at one borehole location (b) (3) (A)-100-BH) and two temporary well locations ((b) (3) +015-TW and (b) (3) -010-TW) within the (b) (3) (A) Tunnel at thicknesses ranging from a sheen to 0.24 ft. Groundwater monitoring well headspace concentrations were 0.2 ppmv or less.

9.3 Groundwater Analytical Results

Groundwater samples were analyzed for the parameters and methods described in Section 6.0.

Appendix B.1 summarizes the samples collected, the laboratory analytical methods used, and the status of sample delivery group reports. The sampling events covered in this report include data that have been validated within this reporting period. Appendix B.3.1 provides groundwater monitoring well results compared to the EALs for each analyte group. TPH and PAH groundwater results collected during this reporting period are graphically displayed over time in Appendix B.3.2. Appendix B.4 provides chromatograms of detections and exceedances observed during the current period. Appendix B.5 presents graphs of the NAP analytical results. Final Level II and IV analytical reports and data validation reports are indexed in Appendix D. Historical analytical results are presented in the December 11, 2023 Quarterly RRR (DON 2023l) and the Third Quarter 2023 GW LTM Report (DON 2023g).

Analytical results for the current reporting period are summarized in Table 9-1. Summary statistics for all sample results validated during this reporting period are presented in Table 9-2. TPH and PAH groundwater analytical results are depicted on Figure 6 through Figure 12.

Detected sample concentrations for data validated during the current reporting period are described by analyte in the following subsections. The extent and magnitude of groundwater contamination are further evaluated in Section 10.1.

Table 9-1: Summary of Groundwater Analytical Results, Current Reporting Period

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW2254-01	None	None
RHSF-PUMP	None	None
RHMW01R	DRO (not consistently lower after SGC)	None
RHMW02	GRO DRO (lower after SGC) ORO (lower after SGC) 1-Methylnaphthalene Naphthalene	TPH exceeded in all 6 samples, at concentrations ranging from 1,330 to 2,365 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW03	DRO (lower after SGC) ORO (not consistently lower after SGC)	TPH exceeded in 3 of 7 samples, at concentrations ranging from 195 to 233 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW04	None	None
RHMW05	DRO (ND after SGC) ORO (ND after SGC)	TPH exceeded in 1 of 4 samples, at a concentration of 321 µg/L (screening criterion: 193 µg/L)
RHMW06	GRO	None
RHMW08	None	None
RHMW09	None	None
RHMW10	None	None
RHMW11-05	None	None
RHMW12A	None	None
RHMW13-04	None	None
RHMW14-03	None	None
RHMW15-05	None	None
RHMW16	None	None
RHMW17	DRO (lower after SGC) ORO (ND after SGC)	TPH exceeded in 2 of 16 samples, at concentrations of 273 and 372 µg/L (screening criterion: 193 µg/L)
RHMW18	None	None
RHMW19	None	None
RHMW20	None	None
RHMW21	DRO (ND after SGC)	None
HDMW2253-01	None	None
RHP01	DRO (ND after SGC) ORO (ND after SGC)	TPH exceeded in 1 of 7 samples, at a concentration of 496 µg/L (screening criterion: 193 µg/L)
RHP02	None	None
RHP03	None	None
RHP04A	None	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHP04B	DRO (ND after SGC)	None
RHP04C	None	None
RHP05	DRO (lower after SGC) ORO (lower after SGC)	TPH exceeded in 1 of 9 samples, at a concentration of 455 µg/L (screening criterion: 193 µg/L)
RHP06	None	None
RHP07	None	None
RHP08	DRO (not consistently lower after SGC) ORO (not consistently lower after SGC)	TPH exceeded in 3 of 10 samples, at concentrations ranging from 217 to 749 µg/L (screening criterion: 193 µg/L)
RHP08B	ORO (ND after SGC)	None
RHP08C	None	None
NMW24	None	None
NMW25	DRO (lower after SGC) ORO (lower after SGC)	TPH exceeded in 1 of 7 samples, at a concentration of 307 µg/L (screening criterion: 193 µg/L)
NMW26	ORO (ND after SGC)	None
NMW27	None	None
NMW30	None	None
NMW32	None	None
NMW33	None	None
NMW34	None	None
OWDFMW03A	None	None
OWDFMW08A	None	None

Note: DOH Environmental Action Level (EAL) screening criteria are not intended to represent mandatory cleanup levels. Exceedance of an action level does not necessarily indicate that an adverse health risk is present, but rather that additional action is warranted (DOH 2024a, Vol 1, pg. 1–8).

µg/L micrograms per liter
COPC chemical of potential concern
DRO diesel range organics
GRO gasoline range organics
ND non-detect
ORO residual oil range organics
OWDF Oily Waste Disposal Facility
RHSF Red Hill Shaft Facility
SGC silica gel cleanup
SSRBL Site-Specific Risk-Based Level
TPH total petroleum hydrocarbons

[a] SSRBLs from the *Red Hill Bulk Fuel Storage Facility Groundwater Protection Plan* (DON 2014a) and as provided in the Regulatory Agencies' February 4, 2016, scoping completion letter (EPA Region 9 and DOH 2016).

[b] SSRBLs apply only to groundwater sample results from monitoring wells RHMW01, RHMW02, and RHMW03 as designated in the Regulatory Agencies' February 4, 2016, scoping completion letter (EPA Region 9 and DOH 2016).

Table 9-2. Summary of Analytical Groundwater Results Received During the Current Reporting Period (10/9/2024 to 1/6/2025) (cont'd)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier		Criteria	Number of Exceedances [d]	Exceedance Frequency [d]
TPH Range Organics															
All TPH Range Organic Statistics Combined (Sum from each Lab)															
GRO	PHCC6C10	8015	µg/L	232	229	3	1.3%	44.6	J	64.9	J	RHMW02	—	—	—
DRO	PHCC10C24	8015	µg/L	283	254	29	10.2%	62.29	J	2020		RHMW02	—	—	—
DRO with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	32	16	16	50.0%	85.2	J	1560		RHMW02	—	—	—
ORO	PHCC24C40	8015	µg/L	283	261	22	7.8%	83.7	J	436.4		RHP08	—	—	—
ORO with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	32	22	10	31.3%	ND		143	J	RHMW02	—	—	—
Total Petroleum Hydrocarbons (TPH) Calculation	—	Calculated	µg/L	283	251	32	11.3%	45		2365		RHMW02	193	18	6.4%
TPH Statistic by Laboratory															
DRO (b) (4)	PHCC10C24	8015	µg/L	51	42	9	17.6%	62.29	J	2006		RHMW02	—	—	—
DRO ((b) (4)) with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	11	10	1	9.1%	126.7	J	126.7	J	RHMW02	—	—	—
ORO ((b) (4))	PHCC24C40	8015	µg/L	51	45	6	11.8%	125	J	436.4		RHP08	—	—	—
ORO (b) (4) with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	11	11	0	0.0%	ND		ND		—	—	—	—
GRO (b) (4)	PHCC6C10	8015	µg/L	232	229	3	1.3%	44.6	J	64.9	J	RHMW02	—	—	—
DRO ((b) (4)	PHCC10C24	8015	µg/L	232	212	20	8.6%	78.1	J	2020		RHMW02	—	—	—
DRO (b) (4)) with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	21	6	15	71.4%	85.2	J	1560		RHMW02	—	—	—
ORO (b) (4)	PHCC24C40	8015	µg/L	232	216	16	6.9%	83.7	J	299		RHMW02	—	—	—
ORO (b) (4) with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	21	11	10	47.6%	99.2	J	143	J	RHMW02	—	—	—
BTEX, Full Suite VOCs, and Lead															
Benzene	71-43-2	8260	µg/L	393	393	0	0.0%	ND		ND		—	5	0	0.0%
Ethylbenzene	100-41-4	8260	µg/L	393	393	0	0.0%	ND		ND		—	30	0	0.0%
Toluene	108-88-3	8260	µg/L	393	393	0	0.0%	ND		ND		—	40	0	0.0%
Xylenes	1330-20-7	8260	µg/L	393	393	0	0.0%	ND		ND		—	20	0	0.0%
1,2,4-Trimethylbenzene	95-63-6	SW8260	µg/L	393	393	0	0.0%	ND		ND		—	—	—	—
1,3,5-Trimethylbenzene	108-67-8	SW8260	µg/L	393	393	0	0.0%	ND		ND		—	—	—	—
Lead Scavengers															
1,2-Dibromoethane	106-93-4	8011	µg/L	210	210	0	0.0%	ND		ND		—	0.04	0	0.0%
1,2-Dichloroethane	107-06-2	8260	µg/L	393	393	0	0.0%	ND		ND		—	5	0	0.0%
Fuel Additives															
Phenol	108-95-2	SW8270	µg/L	231	231	0	0.0%	ND		ND		—	300	0	0.0%
2-(2- Methoxyethoxy)-ethanol	111-77-3	8270	µg/L	51	51	0	0.0%	ND		ND		—	—	—	—
PAHs – COPCs															
1-Methylnaphthalene	90-12-0	8270 SIM	µg/L	232	228	4	1.7%	0.33	J	0.54	J	RHMW02	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270 SIM	µg/L	232	232	0	0.0%	ND		ND		—	10	0	0.0%
Naphthalene	91-20-3	8270 SIM	µg/L	232	227	5	2.2%	1.1		1.4		RHMW02	17	0	0.0%

Table 9-2. Summary of Analytical Groundwater Results Received During the Current Reporting Period (10/9/2024 to 1/6/2025)

Chemical of Concern	CAS	Method	Units	Number of Samples [a, b, c]	Number of Non-Detects	Number of Detects	Detection Frequency	Minimum Detected Value		Maximum Detected Value		Location of Maximum Detect	Project Screening Criteria		
								Value [1]	Qualifier	Value [1]	Qualifier		Criteria	Number of Exceedances [d]	Exceedance Frequency [d]
PAHs – Additional															
Acenaphthene	83-32-9	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	20	0	0.0%
Acenaphthylene	208-96-8	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	300	0	0.0%
Anthracene	120-12-7	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.18	0	0.0%
Benzo(a)anthracene	56-55-3	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.052	0	0.0%
Benzo(a)pyrene	50-32-8	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.2	0	0.0%
Benzo(b)fluoranthene	205-99-2	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.058	0	0.0%
Benzo(g,h,i)perylene	191-24-2	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.13	0	0.0%
Benzo(k)fluoranthene	207-08-9	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.36	0	0.0%
Chrysene	218-01-9	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.24	0	0.0%
Dibenzo(a,h)anthracene	53-70-3	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.0048	0	0.0%
Fluoranthene	206-44-0	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	13	0	0.0%
Fluorene	86-73-7	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	250	0	0.0%
Indeno(1,2,3-cd)pyrene	193-39-5	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	0.018	0	0.0%
Phenanthrene	85-01-8	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	250	0	0.0%
Pyrene	129-00-0	8270SIM	µg/L	232	232	0	0.0%	ND		ND		—	68	0	0.0%
Natural Attenuation Parameters															
Alkalinity, Bicarbonate	ALKB	A2320B	µg/L	255	6	249	97.6%	29		280		RHMW03	—	—	—
Alkalinity, Carbonate (as CO3)	ALKC	A2320B	µg/L	255	245	10	3.9%	49		91		RHMW18	—	—	—
Alkalinity, Total (as CaCO3)	ALK	A2320B	µg/L	255	1	254	99.6%	46		280		RHMW03	—	—	—
Chloride (as Cl)	16887-00-6	E300	µg/L	255	0	255	100.0%	29		1300		NMW27	—	—	—
Iron, Ferrous	15438-31-0	A3500B	µg/L	250	232	18	7.2%	0.35	J	2		HDMW2253-03	—	—	—
Methane	74-82-8	SW8015	µg/L	210	161	49	23.3%	0.17	J	2680		RHMW02	—	—	—
Nitrate (as N)	NO3N	E300	µg/L	254	26	228	89.8%	0.1	J-	6		NMW25	—	—	—
Nitrate-Nitrite (as N)	NO3NO2N	E353.2	µg/L	255	26	229	89.8%	0.085	J-	6.7		NMW25	—	—	—
NV Dissolved Organic Carbon	DOC	9060	µg/L	247	99	148	59.9%	411	J	6410		RHMW02	—	—	—
Sulfate (as SO4)	14808-79-8	E300	µg/L	255	0	255	100.0%	2		150		NMW25	—	—	—
Total Organic Carbon	TOC	9060	µg/L	247	172	75	30.4%	318	J	7590		RHMW02	—	—	—

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

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

Note[3]: TPH – Total Petroleum Hydrocarbons reported as a non-overlapping sum of GRO/DRO/ORO with BTEX,1MN, 2MN, N subtracted.

[a] Includes normal and field duplicate samples.

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

[c] Wells sampled during this reporting period include the following: HDMW2253-03, NMW24, NMW25, NMW26, NMW27, NMW30, NMW32, NMW33, NMW34, OWDFMW03A, OWDFMW08A, RHMW01R, RHMW02, RHMW03, RHMW04, RHMW05, RHMW06, RHMW08, RHMW09, RHMW10, RHMW11-05, RHMW12A, RHMW13-04, RHMW14-03, RHMW15-05, RHMW16, RHMW17, RHMW19, RHMW20, RHMW2254-01, RHSF-PUMP, RHP01, RHP02, RHP03, RHP04A, RHP04B, RHP04C, RHP05, RHP06, RHP07, RHP08, RHP08B and RHP08C.

[d] Exceedances are based on the 2024 Department of Health Tier 1 EAL.

GRO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

GRO Sample Results – Plume Delineation Wells

(b) (3) (A)

GRO Sample Results – Sentinel Wells

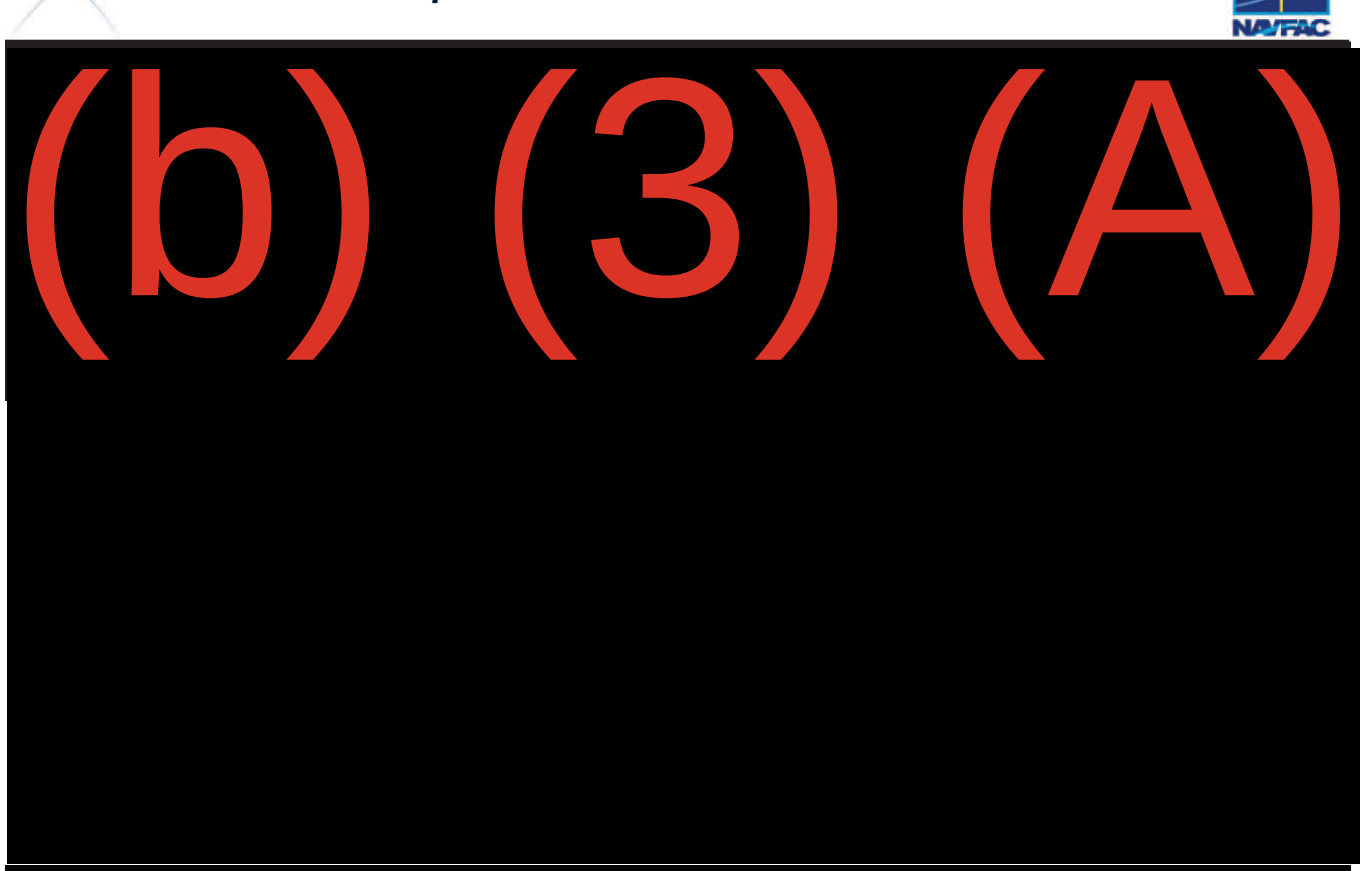


Figure 6: GRO Groundwater Analytical Results Summary

DRO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

DRO Sample Results – Plume Delineation Wells

(b) (3) (A)

DRO Sample Results – Sentinel Wells

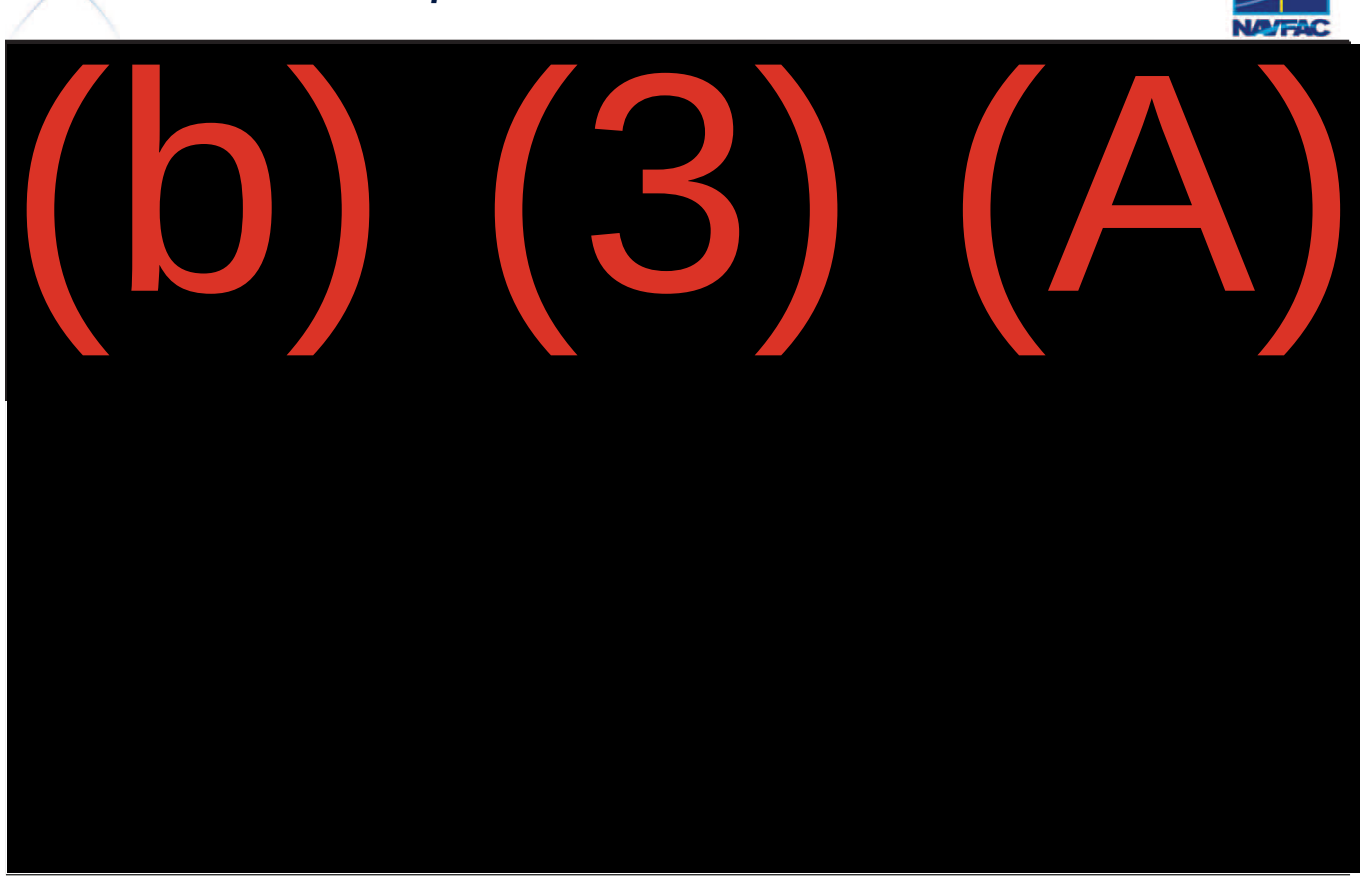


Figure 7: DRO Groundwater Analytical Results Summary

ORO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

ORO Sample Results – Plume Delineation Wells

(b) (3) (A)

ORO Sample Results – Sentinel Wells

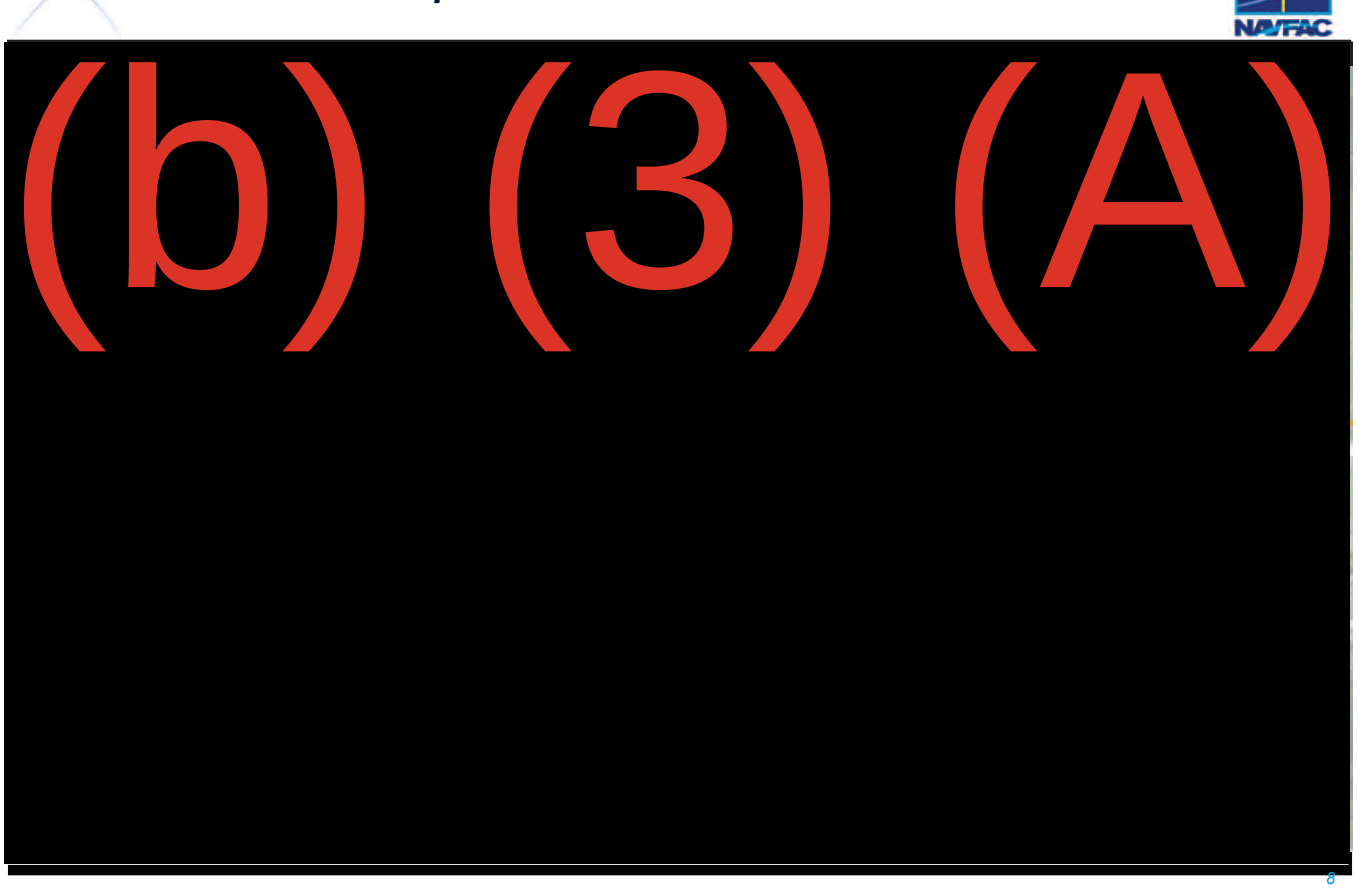


Figure 8: ORO Groundwater Analytical Results Summary

TPH Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

TPH Sample Results – Plume Delineation Wells

(b) (3) (A)

TPH Sample Results – Sentinel Wells

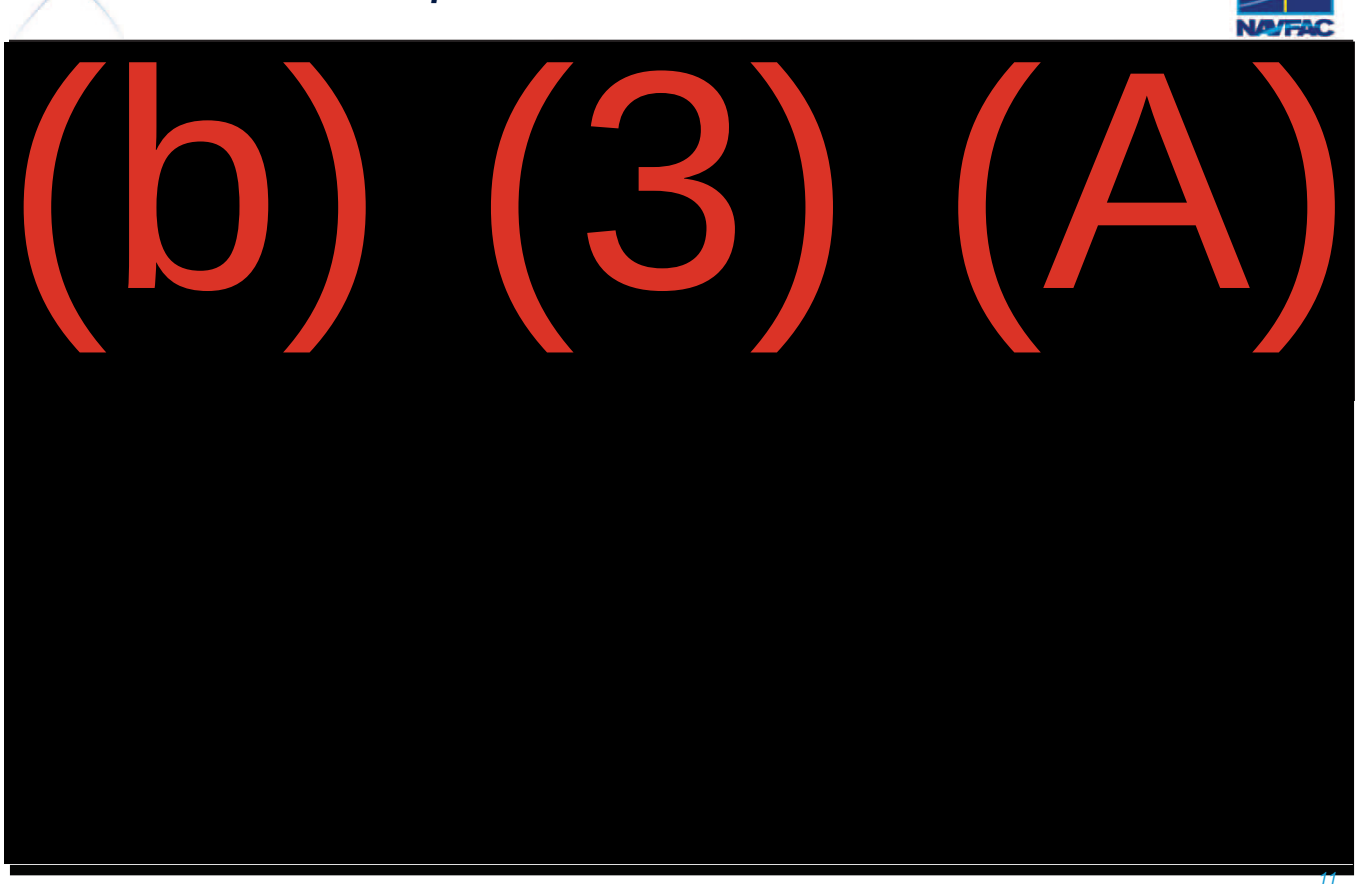


Figure 9: TPH Groundwater Analytical Results Summary

Naphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

Naphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

Naphthalene Sample Results – Sentinel Wells

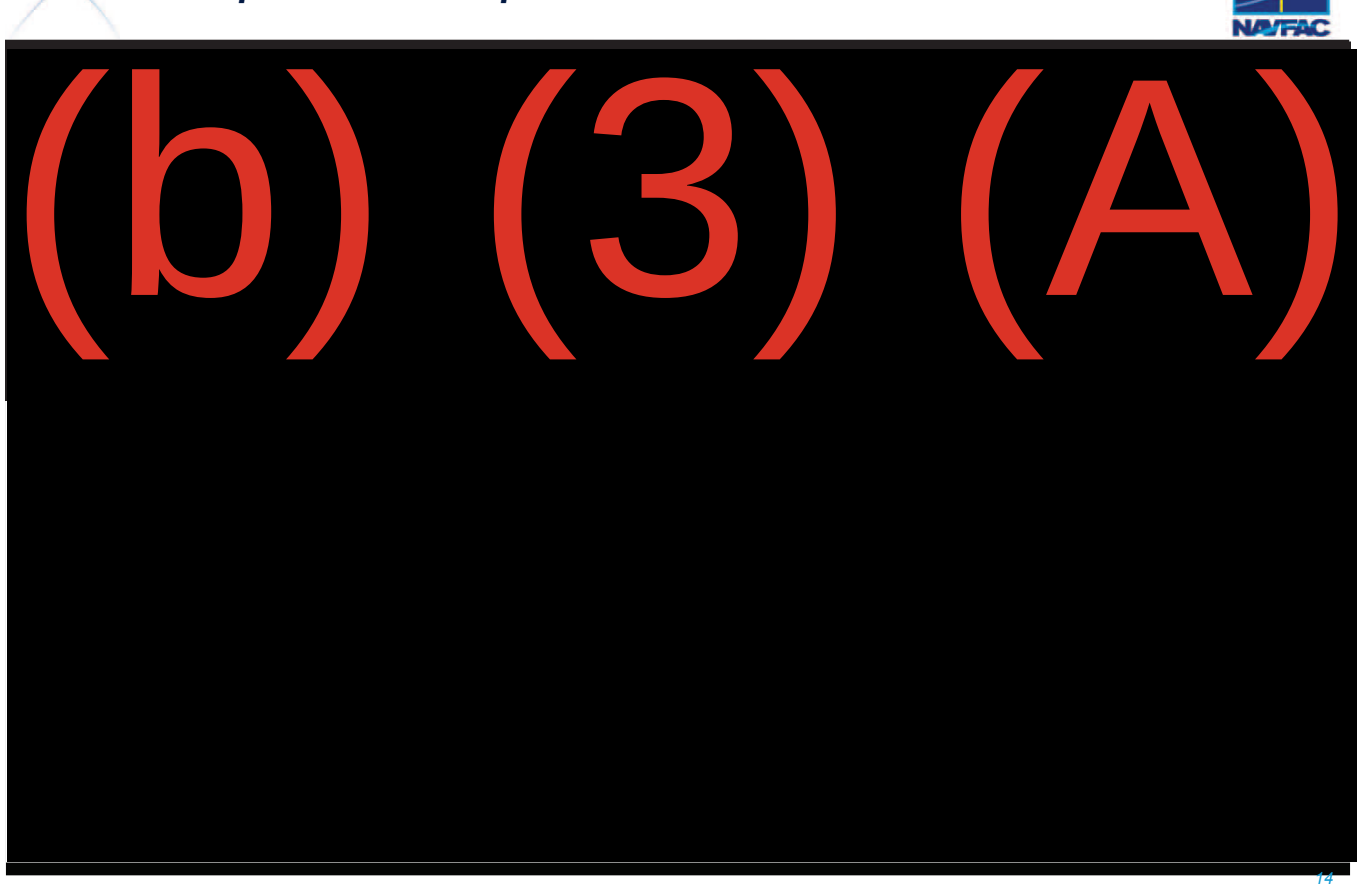


Figure 10: Naphthalene Groundwater Analytical Results Summary

1-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Sentinel Wells

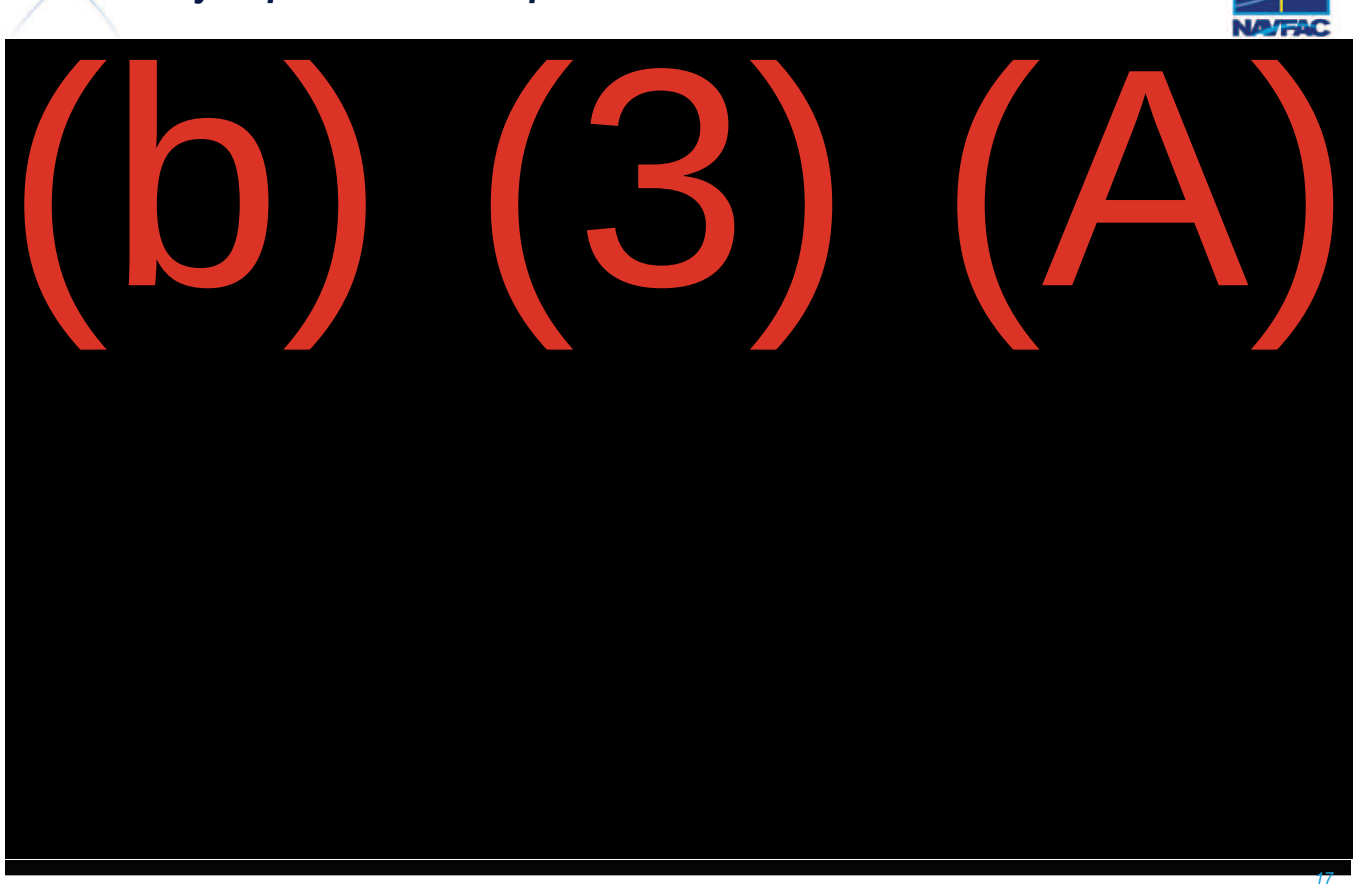


Figure 11: 1-Methylnaphthalene Groundwater Analytical Results Summary

2-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Sentinel Wells

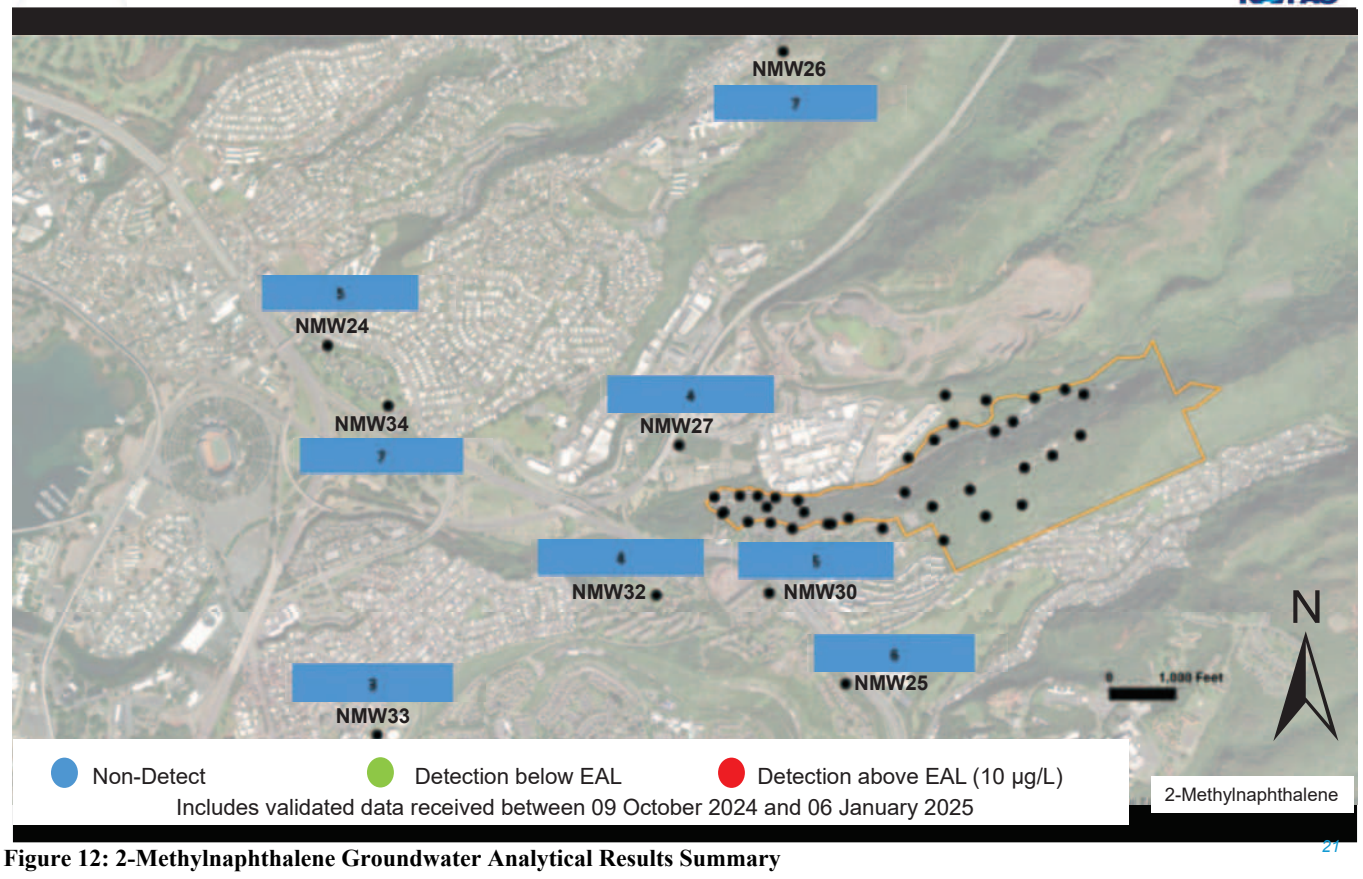


Figure 12: 2-Methylnaphthalene Groundwater Analytical Results Summary

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9.3.1 TPH-Range Organics

TPH-range organics were measured using analytical methods that do not discriminate between petroleum hydrocarbons and other organic compounds that may be detected within the specific carbon ranges of the methods, which may include petroleum hydrocarbons, naturally occurring hydrocarbons, or other organic compounds that may be introduced to the sample after it was removed from the groundwater. Determining the potential source of the organics measured in the sample requires additional qualitative review by a trained chemist and may also require additional analyses. The results presented below include:

- **GRO:** Organic compounds that fall in the gasoline range (C6–C10)
- **DRO:** Organic compounds that fall in the middle distillate range, including diesel and jet fuel (C10–C24)
- **ORO:** Organic compounds that fall in the residual oil range, including motor oil (C24–C40)

9.3.1.1 GRO

As shown on Figure 6, GRO was detected twice from a primary and field duplicate sample at in-tunnel location RHMW02, which is consistent with historical data for the well. GRO was also detected once in a sample from outlying well RHMW06, which is most likely due to instrumentation noise since subsequent samples were not detected. GRO was not detected at any delineation or sentinel wells.

9.3.1.2 DRO

As shown on Figure 7, detections were present for samples collected at in-tunnel locations RHMW01R, RHMW02, RHMW03, and RHMW21; outlying wells RHMW05, RHMW17, and RHMW21; delineation wells RHP01, RHP04B, RHP05, and RHP08; and sentinel well NMW25.

Detected DRO concentrations from monitored wells for data validated during the current reporting period are summarized as follows:

- Concentrations for samples collected at in-tunnel wells appear to be stable or decreasing, with RHMW02 exhibiting consistent concentrations attributed to some dissolved components of middle distillates. The chromatographic fingerprints for samples collected at RHMW01R and RHMW02 are consistent with being impacted by potential metabolites from JP-5 or JP-8 and degraded jet fuels in general that are mostly removed by SGC.
- Concentrations for samples collected at in-tunnel locations RHMW03, RHMW05, and RHMW21; outlying well RHMW17; delineation wells RHP01, RHP04B, RHP05, and RHP08; and sentinel well NMW25 have been infrequent or decreasing since inception of the Consolidated Program. Inconsistent concentrations indicate that they are not due to a persistent petroleum plume and are likely due to other organic compounds that may have been introduced from well construction material, may be naturally occurring, or laboratory and sampling interferences that are detected in the DRO range. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites and exhibited a few relatively large discrete peaks in the C10–C24 range. SGC resulted in partial or complete removal of the peaks. The November 8, 2024 sample from RHP05 may exhibit alkane peaks; however, without the presence of LNAPL and fuel indicator compounds (BTEX and naphthalenes), the chromatogram is most likely indicative of other organic compounds.
- RHMW21 is a newly constructed well, and the single detection in four samples analyzed is most likely attributable to well construction materials introduced during drilling, as evidenced by

detections continuing to decline over time. The sporadic detections at RHP08 are most likely from a heavier petroleum hydrocarbon introduced during well construction and drilling operations.

- Concentrations from samples collected at RHMW2254-01 (Red Hill Shaft) consistently exceeded the EAL immediately following the November 2021 Release, but have not exceeded the EAL since March 2022, with no detections reported for data validated during this reporting period.

9.3.1.3 ORO

As shown on Figure 8, ORO was detected in samples collected at in-tunnel locations RHMW02 and RHMW03; outlying wells RHMW05 and RHMW17; delineation wells RHP01, RHP05, RHP08, and RHP08B; and sentinel wells NMW25 and NMW26.

Samples with detected concentrations of ORO that were validated during the current reporting period are summarized as follows:

- Concentrations in samples collected at in-tunnel wells appear to be stable or decreasing. The concentrations from samples collected at RHMW02 are attributed to degradation components of middle distillates.
- Low-level concentrations from the sample collected at in-tunnel location RHMW05 and delineation wells RHP01 and RHP08B are infrequent for samples analyzed by (b) (4) using extraction EPA Method 3520, with no detections reported in the corresponding split samples analyzed by (b) (4) using extraction EPA Method 3510. These inconsistent results suggest that the reported detections are not due to a persistent petroleum plume, but are likely due to other organic compounds. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. In addition, ORO was completely removed by SGC, which indicates that the bulk of the detections are from polar compounds. Although polar compounds can be a byproduct of petroleum degradation, without the presence of LNAPL and with the chromatographic profile inconsistent with fuel, water-soluble components of fuel, or fuel metabolites, the polar material may instead be evidence of naturally occurring, or sampling and laboratory introduced organic compounds.
- The low-level sporadic concentrations from in-tunnel RHMW03, outlying well RHMW17, delineation well RHP05, and sentinel wells NMW25 and NMW26 chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. The chromatographic profiles are inconsistent with fuel, water-soluble components of fuel, or fuel metabolites, and may instead be evidence of naturally occurring, or sampling and laboratory introduced organic compounds. This is further supported by the presence of fatty acids, siloxanes, and phthalates as reported from further characterization of the sample extracts.
- The chromatograms for the ORO detected samples collected at delineation well RHP08 indicate that the concentrations are most likely from heavier petroleum hydrocarbons detected in the ORO range which may have been introduced during well construction. ORO was detected in drill water samples collected on January 20, 2023, prior to well monitoring.
- ORO was not detected in RHMW2254-01 samples in data validated during this reporting period.

9.3.1.4 TOTAL PETROLEUM HYDROCARBONS

TPH is defined as the sum total of petroleum hydrocarbons and includes the overall carbon ranges from C6−C40. The concentration of TPH in a water sample in comparison to a corresponding TPH action level is calculated as the sum of the concentration of Total Purgeable Organics for volatile compounds plus the concentration of Total Extractable Organics for semivolatile and non-volatile compounds. DOH has defined the action level that applies to the total concentration of non-specific (i.e., non-BTEX, -naphthalene, -1MN,

and -2MN) hydrocarbon and hydrocarbon-related degradation compounds present in a water sample and is associated with one of the categories of fuel (gasolines, middle distillates, or residual fuels) (DON 2024a, Vol. 2, App. 1). Fuel releases at the Facility that are the subject of this report are middle distillate fuels, which include diesel, kerosene and jet fuel; therefore, this Quarterly RRR compares the results of the TPH-range organics validated during this reporting period to the EALs associated with middle distillate fuels.

Table 6-6c in the Spring 2024 DOH guidance (DON 2024a, Vol. 2, App. 1) identifies action levels for middle distillate fuels in groundwater that may be a drinking water source and greater than 150 meters from a surface water ecosystem, based on the amount of degradation of the fuel. The Navy uses a comparison of the TPH non-SGC and SGC results (based on the SGC Method 3630) and the chromatograms from RHMW02 to determine the amount of degradation and the respective DOH EAL to screen these results. Based on this comparison, the Navy has determined that all TPH-range organics evaluated during this reporting period are the result of 100 percent oxidation of the dissolved-phase contaminants; therefore, the corresponding DOH EAL is 193 µg/L for middle distillates.

The identification of middle-distillate-related organic compounds in a water sample based only on gas chromatography becomes unreliable below a laboratory method reporting limit or laboratory quantification limit of approximately 200 µg/L. Samples of drinking water and groundwater with reported DRO and ORO concentrations below this concentration are retested for individual compounds using a combined gas chromatography-mass spectrometry method such as Method 8270. The data are reviewed by a chemist experienced in petroleum forensics to determine if the compounds are associated with petroleum-related contamination or other non-petroleum-related organic matter in the sample (DON 2024a, Vol. 2, App. 1).

Samples with TPH-range organics exceeding the EAL were analyzed for compounds by gas chromatography/mass spectrometry including tentatively identified compounds (TICs) (Figure 9). Other than samples from RHMW02, all other samples had few to no TICs reported. The TICs reported were not detected in laboratory or field blanks and were not related to fuels, dissolved fuel components, or fuel metabolites.

Screening Level Exceedances. The following TPH-range organic results exceeded the EAL during the reporting period:

- All samples collected from in-tunnel well RHMW02, which is consistent with historical results. The maximum TPH range organic concentration at RHMW02 was 2,365 µg/L.
- Samples collected during the September, October, and November 2024 monthly events or the October 2024 quarterly event from in-tunnel locations RHMW03 and RHMW05; outlying wells RHMW17; delineation wells RHP01, RHP05 and RHP08; and sentinel well NMW25.

As depicted in Appendix B.4, TPH range organic exceedances that were validated during the current reporting period are summarized as follows:

- The EAL exceedances for samples collected from RHMW02 exhibited chromatographic profiles with peaks spanning the carbon range (C10–C24) characteristic of some dissolved components of jet fuel and a “hump” in the DRO range consistent with metabolites from JP-5/JP-8 and degraded jet fuels in general. The corresponding SGC chromatograms for samples from RHMW02 have been typical of dissolved aromatic hydrocarbons expected from jet fuel including naphthalenes.
- Based on the review of chromatograms and other qualitative assessments, TPH range organic results exceeding EALs from samples collected during the quarterly events from in-tunnel RHMW03, outlying well RHMW17, delineation well RHP05, and sentinel well NMW25

chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. Instead, the chromatographic pattern shows discrete, sharp peaks slightly after the o-terphenyl surrogate. The fingerprint has similarities to the discrete peaks attributed to fatty acids, and possible sources can be naturally occurring or from laboratory and sampling interferences.

- Low-level concentrations from the sample collected at in-tunnel location RHMW05 and delineation well RHP01 are infrequently reported for samples analyzed by (b) (4) using extraction EPA Method 3520, with no detections reported in the corresponding split samples analyzed by (b) (4) using extraction EPA Method 3510. These inconsistent results suggest that it is not due to a persistent petroleum plume, and is likely due to other organic compounds that are detected as TPH. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. In addition, TPH was completely removed by SGC, which indicates that the bulk of the detections are from polar compounds. Although polar compounds can be a byproduct of petroleum degradation, without the presence of LNAPL and with the chromatographic profile inconsistent with fuel, water-soluble components of fuel, or fuel metabolites, the polar material may instead be evidence of naturally occurring, or sampling and laboratory introduced organic compounds.
- Sporadic concentrations detected at RHP08 are most likely from heavier petroleum hydrocarbons that may have been introduced during well construction. ORO was detected in drill water samples collected on January 20, 2023, prior to well monitoring.

No EAL exceedances were reported for the other sampling locations.

Table 9-3 presents a comparison of DRO and ORO concentrations with and without SGC for wells validated during the reporting period. (b) (4) 's SGC shake method by Florida Petroleum Residual Organic Method results in low removal in comparison to (b) (4) 's SGC column method by Method 3630. Typically, 60−80 percent of the bulk of the TPH is removed as metabolites for samples from RHMW02; however, due to (b) (4) 's SGC method, results are biased high.

9.3.2 Lead Scavengers

1,2-Dibromoethane and 1,2-dichloroethane were not detected at any sampling location for data validated during this reporting period.

9.3.3 VOCs

BTEX and 1,2,4- and 1,3,5-trimethylbenzenes were not detected at any sampling location for data validated during this reporting period.

9.3.4 Fuel Additives

Phenol and 2-2-MEE were not detected in any monitoring well during this reporting period.

9.3.5 PAHs

PAH results are categorized as non-pyrogenic and pyrogenic.

Non-pyrogenic PAHs: These are commonly found in petroleum, including middle distillates such as JP-5. Non-pyrogenic PAHs that are present in kerosene or jet fuels include 1MN, 2MN, naphthalene, and, to lesser extents, acenaphthene, acenaphthylene, and fluorene.

Table 9-3: Comparison of TPH Concentrations Without and With Silica Gel Cleanup

Location	Laboratory [a]	SDG	Sample ID	Sampling Date	Type	TPH-DRO Result (µg/L)		TPH-DRO with SGC Result (µg/L)		Percent of Polar Compounds (SGC Result) in Non-SGC TPH-DRO Result	TPH-ORO Result (µg/L)		TPH-ORO with SGC Result (µg/L)		Percent of Polar Compounds (SGC Result) in Non-SGC TPH-ORO Result	TPH Chromatogram Analysis[1] (FR/NFR)
NMW25	(b) (4)	FC18439	NMW25-WGN01LF-2408B	8/28/2024	Primary	**121**	**J**	**89.2**	**J**	26%	<170	U	<170	U	—	NFR
NMW25		FC19169	NMW25-WGN01LF-2409B	9/24/2024	Primary	**182**	**J**	**160**	**J**	12%	**125**	**J**	**100**	**J**	20%	NFR
NMW26		FC21099	NMW26-WGN01LF-2412A	12/9/2024	Primary	<100	U	<100	U	—	**88.3**	**J**	<170	U	100%	NFR
RHMW01R		B24101842	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	**149.7**	**J**	<141	U	100%	<189	U	<189	U	—	FR
RHMW01R		FC19769	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	**92.6**	**J**	**105**	**J**	—[b]	<150	U	<150	U	—	FR
RHMW01R		B24101842	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	**170**	**J**	<141	U	100%	<189	U	<189	U	—	FR
RHMW01R		FC19769	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	**91.9**	**J**	**85.2**	**J**	7%	<170	U	<170	U	—	FR
RHMW02		FC19169	RHMW02-WGN01LF-2409B	9/26/2024	Primary	**2020**		**1480**		27%	**299**		**134**	**J**	55%	FR
RHMW02		FC19169	RHMW02-WGFD01LF-2409B	9/26/2024	Field Duplicate	**2010**		**1560**		22%	**200**	**J**	**143**	**J**	29%	FR
RHMW02		FC19455	RHMW02-WGN01LF-2410A	10/7/2024	Primary	**1200**		**1100**	**J+**	8%	**150**	**J**	**123**	**J**	18%	FR
RHMW02		FC19455	RHMW02-WGFD01LF-2410A	10/7/2024	Field Duplicate	**1220**		**1060**	**J+**	13%	**154**	**J**	**119**	**J**	23%	FR
RHMW02		B24102001	RHMW02-WGN01LF-2410B	10/21/2024	Primary	**2006**		**126.7**	**J**	94%	**353.1**		<189	U	100%	FR
RHMW02		FC19813	RHMW02-WGN01LF-2410B	10/21/2024	Primary	**1200**		**1070**		11%	**132**	**J**	**99.2**	**J**	25%	FR
RHMW03		FC19169	RHMW03-WGN01LF-2409B	9/26/2024	Primary	**86.4**	**J**	<100	U	100%	**87.2**	**J**	<170	U	100%	NFR
RHMW03		B24102001	RHMW03-WGN01LF-2410B	10/22/2024	Primary	**62.29**	**J**	<140	U	100%	**170.5**	**J**	<187	U	100%	NFR
RHMW03		FC19813	RHMW03-WGN01LF-2410B	10/22/2024	Primary	**105**	**J**	**86.6**	**J**	18%	**106**	**J**	<150	U	100%	NFR
RHMW03		FC20620	RHMW03-WGN01LF-2411B	11/19/2024	Primary	**91.8**	**J**	<100	U	100%	**103**	**J**	**105**	**J**	—[b]	NFR
RHMW05		B24102171	RHMW05-WGN01LF-2410B	10/23/2024	Primary	**108.3**	**J**	<153	U	100%	**212.3**	**J**	<204	U	100%	NFR
RHMW17		FC20403	RHMW17-WGN01LF-2411A	11/12/2024	Primary	**178**	**J**	**119**	**J**	33%	**94.9**	**J**	<170	UJ	100%	NFR
RHMW17		FC20403	RHMW17-WGFD01LF-2411A	11/12/2024	Field Duplicate	**257**	**J-**	**147**	**J**	43%	**115**	**J**	<170	UJ	100%	NFR
RHMW21		B24102001	RHMW21-WGN01LF-2410B	10/21/2024	Primary	**79.29**	**J**	<143	U	100%	<190	U	<190	U	—	NFR
RHP01		B24102311	RHP01-WGN01LF-2410B	10/24/2024	Primary	**194.7**	**J**	<140	U	100%	**301.4**		<187	U	100%	NFR
RHP04B		B24102575	RHP04B-WGN01LF-2410B	10/29/2024	Primary	**67**	**J**	<141	U	100%	<189	U	<189	U	—	NFR
RHP05		FC20309	RHP05-WGN01LF-2411A	11/8/2024	Primary	**305**	**J**	**289**		5%	**150**	**J**	**131**	**J**	13%	NFR
RHP05		FC20309	RHP05-WGFD01LF-2411A	11/8/2024	Field Duplicate	**78.1**	**J**	<98	U	100%	<160	U	<160	U	—	NFR
RHP08		B24102001	RHP08-WGN01LF-2410B	10/22/2024	Primary	**312.3**		<141	U	100%	**436.4**		<189	U	100%	NFR
RHP08		FC20620	RHP08-WGN01LF-2411B	11/19/2024	Primary	**126**	**J**	**148**	**J**	—[b]	**91**	**J**	**123**	**J**	—[b]	NFR
RHP08		FC20620	RHP08-WGFD01LF-2411B	11/19/2024	Field Duplicate	**177**	**J**	**195**	**J**	—[b]	**123**	**J**	**131**	**J**	—[b]	NFR
RHP08		FC20980	RHP08-WGN01LF-2412A	12/3/2024	Primary	**95.1**	**J**	<100	U	100%	**83.7**	**J**	<160	U	100%	NFR
RHP08		FC20980	RHP08-WGFD01LF-2412A	12/3/2024	Field Duplicate	**105**	**J**	<100	U	100%	<160	U	<160	U	—	NFR
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	<141	U	<141	U	—	**125**	**J**	<189	U	100%	NFR

Notes:

Non-bold text indicates non-detected value.

Bold text indicates detected value

Specific EPA method revision used for analyses vary by lab and compound. The lab report associated with a sample specifies the exact method revision used.

— = not analyzed or not applicable

µg/L = micrograms per liter (same as parts per billion)

J = estimated value

J- = estimated value, low bias

J+ = estimated value, high bias

U = nondetect value

FR = The chromatogram is characteristic of fuel and matches the retention times of soluble components and metabolites of degraded fuel.

NFR = Chromatogram is not characteristic of fuels, dissolved/water equilibrated water soluble fuel components, or fuel metabolites.

SGC = Silica Gel Cleanup

TPH-DRO = total petroleum hydrocarbons-diesel range organics

TPH-ORO = total petroleum hydrocarbons-residual range

[a] = SGS uses 3510 extraction method for Consolidated-Monthly. Energy uses 3520 extraction method for Consolidated-Quarterly.

[b] = Percent polars not calculable, SGC results higher than non-SGC results.

[1] = Refer to Section 9.3 for details of the chromatogram assessments.

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Consistent with historical data, naphthalene and 1MN were detected in samples at in-tunnel well RHMW02 below the EALs, as shown on Figure 10, Figure 11, and Figure 12, respectively; 2MN was not detected during this reporting period. Non-pyrogenic PAHs have been detected in samples from RHMW01R during previous reporting periods; however, were not detected for data validated during this reporting period. Non-pyrogenic PAHs were not detected at any other sampling locations.

Pyrogenic PAHs: Also known as heavy PAHs, pyrogenic PAHs are not found in fuels but are commonly associated with combustion products and associated atmospheric deposition and urban run-off. They are heavier than non-pyrogenic naphthalenes, acenaphthene, acenaphthylene, and fluorene and are removed from jet fuel sources during the distillation process. The pyrogenic PAHs do not readily dissolve in groundwater and if they do, they do not travel far from the source. Pyrogenic PAHs include fluoranthene, pyrene, benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-c,d)anthracene, and benzo(g,h,i)perylene.

Pyrogenic PAHs were not detected in any groundwater sample validated during this reporting period.

9.3.6 Natural Attenuation Parameters

Natural attenuation is the result of microbial biodegradation including dispersion, dilution, sorption, precipitation, volatilization, and transformation (EPA 1998). Petroleum hydrocarbons can be biodegraded under aerobic or anaerobic conditions. Biodegradation relies on microorganisms to convert contaminants to less harmful compounds through chemical reactions in which oxidation, or loss of an electron, of an electron donor (hydrocarbons) is coupled with reduction, or gain of an electron, of a terminal electron acceptor.

Terminal electron acceptors (TEAs) are compounds or molecules that accepts an electron (i.e., are reduced) during metabolism (oxidation) of a carbon source. During aerobic conditions, molecular oxygen is the TEA. When oxygen is depleted under anaerobic conditions, a variety of TEAs may be used. These TEAs include nitrate, manganese (IV), ferric iron (III), sulfate, and carbon dioxide. The use of TEAs is closely related to the ORP of the groundwater. The more reducing the groundwater conditions, the greater the depletion of available electron acceptors. The source-zone groundwater usually exhibits the greatest depletion of TEAs.

As described in the Red Hill CSM Report (DON 2019a, Section 7.3), the natural attenuation evaluation uses the following lines of evidence:

- Use of current and historical groundwater primary indicators (COPC data) to demonstrate contaminant concentration over time.
- Use of secondary lines of evidence (general groundwater chemistry parameters and NAPs) to evaluate whether natural attenuation processes are active at the site and the rate at which such processes can reduce contaminant concentrations to below screening levels.
- Comparison of DRO and ORO with and without SGC to evaluate the degree of weathering of dissolved fuel hydrocarbons based on the fraction of polar-weathered hydrocarbons and total recoverable hydrocarbons.

NAP measurements collected during groundwater monitoring field activities this reporting period are representative of electron donors used in microbial respiration, including DO, nitrate, and sulfate; direct microbial byproducts including soluble ferrous iron, soluble manganese and methane; and geochemical indicators of microbial processes, including ORP and alkalinity.

9.3.6.1 DISSOLVED OXYGEN AND OXIDATION-REDUCTION POTENTIAL

DO is preferentially consumed by microorganisms while aerobically metabolizing the hydrocarbon plume. Oxygen provides the greatest amount of energy to the petroleum-degrading microorganisms. Groundwater flow with a continuous source of DO maintains the aerobic biodegradation process. DO concentrations greater than 1 milligram per liter (mg/L) are considered preferable for aerobic degradation pathways, while DO concentrations less than 1 mg/L are considered preferable for anaerobic degradation pathways (EPA 1998). Oxygen-depleted water travels faster than the plume and may be used to confirm groundwater flow direction. However, naturally occurring groundwater is expected to be saturated with oxygen at approximately 8 mg/L in a normal steady-state equilibrium without biodegradation occurring.

ORP is the measure of the tendency of a chemical species to acquire electrons (reduction) or lose electrons (oxidation) in a solution. ORP trends downward as oxygen is consumed (e.g., ORP values will be lower in a hydrocarbon plume undergoing aerobic biodegradation, than in natural waters not affected by other reducing environments). Negative ORP values equal to or less than -100 millivolts are characteristic of a strongly reducing environment favorable for anaerobic biodegradation.

DO concentrations and ORP values for the current quarterly events were as follows. Highly reducing conditions (negative ORP) indicative of oxygen consumption (via aerobic metabolization) and favorable for subsequent lower-energy anaerobic biodegradation via nitrate reduction, iron reduction, sulfate reduction, and eventually methanogenesis were measured consistently during this period at three tank farm wells (RHMW01R, RHMW02, and RHMW21). RHMW02 exhibits the presence of dissolved TPH-range organics and a chromatographic response characteristic of fuel. RHMW01R intermittently exhibits the presence of dissolved TPH-range organics and a consistent chromatographic response characteristic of fuel metabolites. TPH-range organics infrequently detected at a RHMW21 are suspected to be related to the drilling process and do not have a chromatographic response characteristic of fuel or fuel metabolites. Negative ORP values were also consistently measured at delineation well RHP04B (screened below the water table). Additional wells with either negative ORP readings or anaerobic conditions detected inconsistently this period include: RHP04C (screened below the water table), RHMW08 (located spatially between RHMW02 and Red Hill Shaft), RHMW11-05 (multilevel well, open below the water table) and HDMW2253-03 (Hālawa Deep Monitor Well, casing extends below the water table).

9.3.6.2 TEMPERATURE

Temperature is known to influence metabolic rates for microorganisms, with temperatures between 5 degrees Celsius (°C) and 45°C (optimally >15°C) being favored for biodegradation of petroleum products. Further, increases in temperature may indicate active biologic zones. Review of data collected during the current period indicates groundwater temperature ranges from 30.70°C to 22.10°C, residing in the optimal range for biodegradation.

9.3.6.3 NITRATE

Following oxygen depletion, denitrification (conversion of nitrate to nitrogen) or nitrate reduction (conversion of nitrate to nitrite to ammonia) is the preferred path for anaerobic biodegradation, with denitrification preferred over nitrate reduction.

Similar to oxygen, nitrate was not detected (<0.12 mg/L) in wells with current or recent quarterly detections of dissolved TPH (RHMW01R, RHMW02, RHMW21 and RHP04B). Non-detect nitrate concentrations were also evident at onsite well RHMW11-05 (multilevel well, open below the water table). All wells that were non-detect for nitrate are also characteristically anaerobic with negative ORPs.

Remaining wells had nitrate concentrations similar to or greater than historical background nitrate levels for the site, with the highest concentrations being detected at offsite wells NMW25, NMW32, NMW33, and NMW34.

9.3.6.4 MANGANESE

Following depletion of nitrate, insoluble manganese (Mn+4) is reduced to soluble manganese (Mn+2) in support of anaerobic biodegradation of petroleum compounds, resulting in a higher soluble manganese concentration within the plume. During the current reporting period, soluble manganese was sampled only at newly installed well NMW27 (non-detect, screened below the basal aquifer water potentiometric surface) and newly installed delineation well RHP08B (screened below the basal aquifer water table), where it was detected at a concentration of 9 µg/L.

9.3.6.5 FERROUS IRON

Ferrous iron is a metabolic byproduct of biodegradation of hydrocarbons, resulting from reduction of insoluble ferric iron by anaerobic microorganisms to dissolved ferrous iron. During anaerobic degradation, the concentrations of ferrous iron will increase within the plume to concentrations above background.

Ferrous iron was detected in wells RHMW01R and RHMW02, which exhibit consistent detections of dissolved hydrocarbons, DO concentrations less than 1 mg/L, and negative ORP results, indicating likely anaerobic biodegradation supported by iron reduction at these wells. Ferrous iron oxidizes back to ferric iron in the presence of oxygen. Ferrous iron was also detected at HDMW2253-03 (Hālawa Deep Monitor Well) in the presence of low DO but positive ORP. Concentrations ranged from 0.35 mg/L (RHMW01R) to 2 mg/L (HDMW2253-03). All other locations were below detection limits, coincident with DO levels greater than 1 mg/L.

9.3.6.6 SULFATE

At a lower energy level, sulfate reduction follows ferric iron reduction in the petroleum biodegradation process. As sulfate is consumed by anaerobic microbial activity within a hydrocarbon plume, a corresponding increase of sulfide is expected.

The lowest sulfate concentrations observed were at RHMW02 and RHMW01R at 2 mg/L and 4.5 mg/L, respectively (both wells consistently exhibit elevated dissolved hydrocarbons). The highest detected concentrations were 150 mg/L at offsite well NMW25 and 130 mg/L at onsite well RHMW03. Reduced sulfate concentrations in RHMW01R and RHMW02 suggest that sulfate-reducing biodegradation of hydrocarbons may be occurring at those locations.

9.3.6.7 METHANE

Methanogenesis (reduction of carbon dioxide and generation of methane as a metabolic byproduct) follows sulfate reduction. During anaerobic biodegradation, the concentration of methane will increase to levels above background within and downgradient of the plume. Increases of methane in groundwater may be indicative of anaerobic degradation at the corresponding location or upgradient. Methane was consistently detected in the majority of events this period at elevated levels in the samples from tank farm wells RHMW01R and RHMW02. Methane was also consistently detected (majority of events), at much lower concentrations at newly installed wells RHP04B, RHP04C, both screened below the basal water table; HDMW2253-03 (Hālawa Deep Monitor Well); and NMW26 and NMW30.

Methane concentrations at RHMW02 were significantly higher than in the other wells, with detected concentrations ranging from 2,160 to 2,680 µg/L, which suggests that methanogenic biodegradation is occurring near this well.

9.3.6.8 ALKALINITY

Alkalinity is the measure of the aquifer's ability to buffer changes in pH, including changes resulting from biologically generated acids. Additionally, increased alkalinity may be an indication of microbial activity, which results in an increase in carbon dioxide. However, carbon dioxide is also consumed by methanogenic processes.

The greatest levels of alkalinity (consistently > 200 µg/L) were measured at RHMW03 and at offsite wells NMW25, NMW32, and NMW33. Elevated alkalinity at these monitoring locations may be attributable to aquifer geochemistry.

9.3.6.9 NAP CONCENTRATIONS

Graphs of groundwater NAP results are presented in Appendix B.5. Evaluation of NAP data from the Fourth Quarter 2016 GW LTM event (DON 2016) onward indicates that there is no evidence that seasonal variations (i.e., wet- and dry-season effects) influence NAP concentrations, and thus influence biodegradation in groundwater at the Red Hill monitoring well network. Multiple NAP parameter observations, including a decrease in electron acceptors and an increase in metabolic by products compared to background concentrations, indicate that active biodegradation is occurring at Red Hill.

At wells RHMW01R and RHMW02, which exhibit consistent detections of dissolved hydrocarbons, DO levels <1 mg/L and negative ORPs indicate that aerobic respiration of oxygen as a primary source of energy for petroleum-degrading microorganisms is occurring. With continued groundwater pumping at Red Hill Shaft, an influx of groundwater with higher concentrations of DO should continue to provide oxygen for continued aerobic biodegradation of the hydrocarbon plume.

In conjunction with reducing conditions at the wells noted above, evidence of subsequent anaerobic biodegradation facilitated by nitrate, iron, sulfate, and carbon dioxide reduction is provided by lower concentrations of terminal electron acceptors (nitrate and sulfate) and increased concentrations of metabolic byproducts (dissolved ferrous iron and methane).

Table 9-3 illustrates the weathering of non-polar petroleum fractions to weathered polar fractions, which also supports the presence of ongoing natural attenuation processes.

Even though RHMW01R and RHMW02 are not the only wells that exhibit signs of natural attenuation, they are the only wells with consistent detections of TPH range organics and chromatograms that are consistently characteristic of fuel or fuel metabolite. Other wells with negative ORP and anaerobic conditions are typically deep wells (screened below the basal aquifer water table) or newly installed wells where the drilling process may temporarily affect the geochemical conditions.

NAP results suggest that natural attenuation via biodegradation and other natural attenuation processes is occurring in proximity to documented release points, specifically beneath the tank farm, and will continue to occur given the geochemical conditions evident in the aquifer.

10.0 Summary of Results and Extent and Magnitude of Contamination

The reporting period's analytical results presented in Section 9.0 are summarized below, and historical context is provided for evaluating the impacts of prior releases.

10.1 Soil Vapor Impacts

PID results for SVMPs at Tanks 17, 18, and 20 since the May 2021 Release are charted on Figure 13, which shows that PID readings under those tanks have declined significantly since the May 2021 Release. The

passivated cannister results, with low to non-detect concentrations of petroleum vapors, are also consistent with continued long-term biodegradation and weathering of the May 2021 Release.

Following the November 2021 Release of JP-5 in the (b) (3) (A) Tunnel, 54 SVMPs were installed through the (b) (3) (A) Tunnel floors to monitor organic vapors in the subfloor. Concentrations have decreased significantly from their original maximum of 862 ppmv collected on May 9, 2022 at (b) (3) (A)+300, to the recent maximum of 27 ppmv detected on October 9, 2024 at 2S+100.

10.2 Groundwater Impacts

Table 10-1 presents a summary of groundwater concentrations detected above the DOH EALs as distilled from the summary statistics presented in Table 9-2; the statistics include groundwater samples validated during this reporting period.

In general, contaminant concentrations are either declining or stable near the tank farm with no sustained evidence of contamination elsewhere. Groundwater impacts primarily include elevated concentrations of DRO and low-level ORO at in-tunnel sampling location RHMW02 and to a much lesser extent at in-tunnel well RHMW01R.

The following compounds were not detected in any samples included in this reporting period:

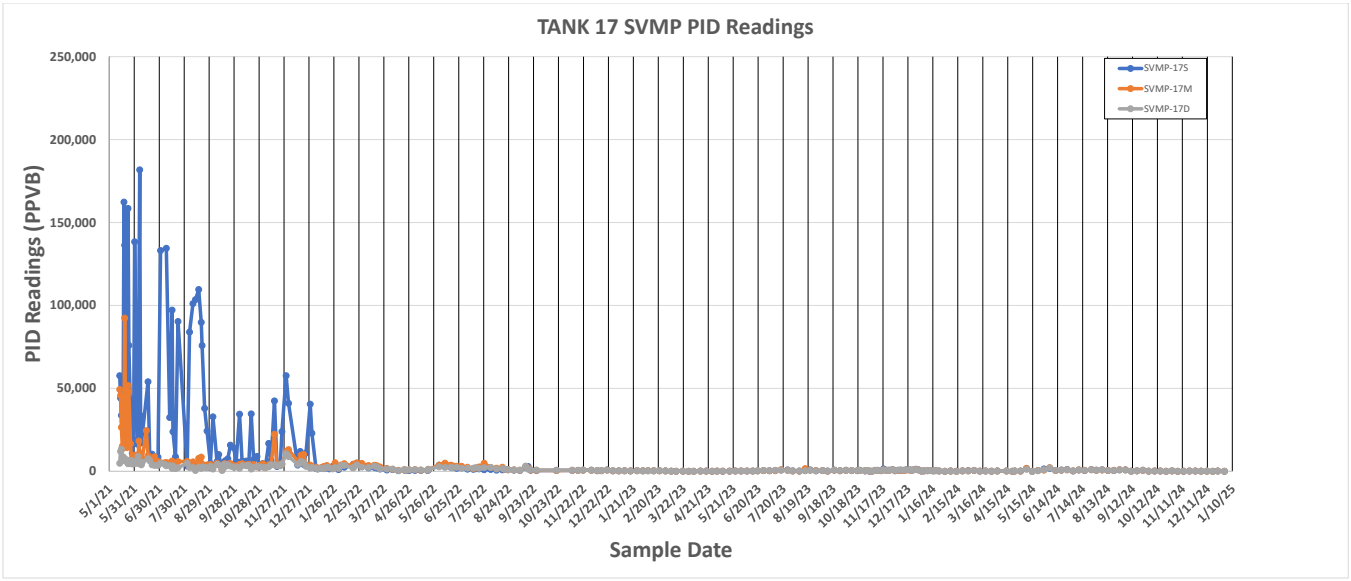
- Benzene, toluene, ethylbenzene, xylenes, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene
- Lead scavengers: 1,2-dibromomethane and 1,2-dichloroethane
- Fuel additives: phenol and 2-2-MEE

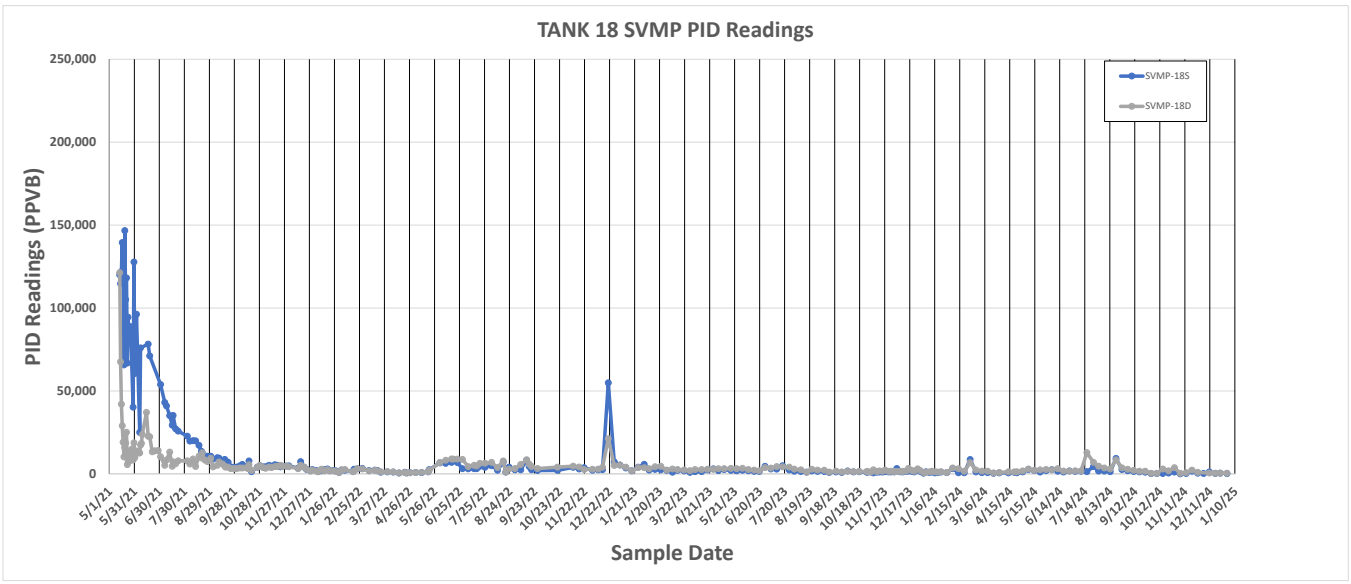
The new action level for TPH-range organics (defined as the sum of GRO, DRO, and ORO) of 193 µg/L for degraded middle distillates was exceeded at all samples from in-tunnel well RHMW02, less frequently in RHMW03, and inconsistently in other in-tunnel, outlying and delineation well samples during this reporting period.

Some of the samples with TPH-range organics exceeding the action level were analyzed for non-target TICs using EPA Method 8270. The few reported TICs that were not also detected in laboratory or field blanks were not related to fuels, dissolved fuel components, or fuel metabolites.

10.2.1 Red Hill Network Wells

Sample concentrations collected at the in-tunnel and outlying wells appear to be stable over time for DRO and ORO, most often detected in samples collected at in-tunnel sampling locations. Detections at wells external to the tunnel are sporadic, isolated, and inconsistent, indicating that there is no evidence of an expanding and continuous petroleum groundwater plume away from the tank farm. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites and instead the concentrations are likely due to other organic compounds that may be naturally occurring or may be introduced during sample handling, preparation, and analysis or well construction.





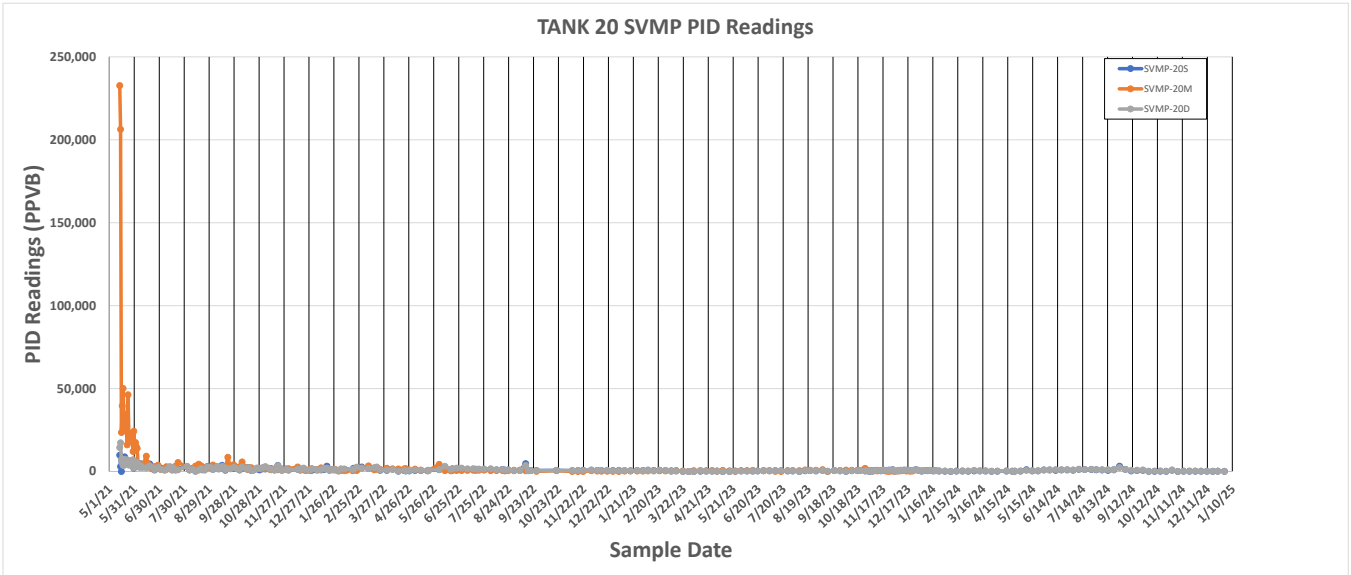


Figure 13: SVMP PID Readings for Tanks 17, 18, and 20

Table 10–1: Summary of Groundwater Screening Level Exceedances

Analyte						Total Petroleum Hydrocarbons (TPH) Calculation	TPH Chromatogram Analysis[1]
CAS No.						—	
Method						Calculated	
2024 DOH Tier 1 EAL						193	
Units						µg/L	
Location	**Sampling Method**	**Laboratory**	**Sample ID**	**Sampling Date**	**Type**	**Result**	**Analysis (FR/NFR)**
NMW25	Low-Flow	(b) (4)	NMW25-WGN01LF-2409B	9/24/2024	Primary	**307**	**NFR**
RHMW02	Low-Flow		RHMW02-WGFD01LF-2409B	9/26/2024	Field Duplicate	**2273**	**FR**
RHMW02	Low-Flow		RHMW02-WGN01LF-2409B	9/26/2024	Primary	**2365**	**FR**
RHMW02	Low-Flow		RHMW02-WGFD01LF-2410A	10/7/2024	Field Duplicate	**1372**	**FR**
RHMW02	Low-Flow		RHMW02-WGN01LF-2410A	10/7/2024	Primary	**1348**	**FR**
RHMW02	Low-Flow		RHMW02-WGN01LF-2410B	10/21/2024	Primary	**2359**	**FR**
RHMW02	Low-Flow		RHMW02-WGN01LF-2410B	10/21/2024	Primary	**1330**	**FR**
RHMW03	Low-Flow		RHMW03-WGN01LF-2410B	10/22/2024	Primary	**233**	**NFR**
RHMW03	Low-Flow		RHMW03-WGN01LF-2410B	10/22/2024	Primary	**211**	**NFR**
RHMW03	Low-Flow		RHMW03-WGN01LF-2411B	11/19/2024	Primary	**195**	**NFR**
RHMW05	Low-Flow		RHMW05-WGN01LF-2410B	10/23/2024	Primary	**321**	**NFR**
RHMW17	Low-Flow		RHMW17-WGFD01LF-2411A	11/12/2024	Field Duplicate	**372**	**NFR**
RHMW17	Low-Flow		RHMW17-WGN01LF-2411A	11/12/2024	Primary	**273**	**NFR**
RHP01	Low-Flow		RHP01-WGN01LF-2410B	10/24/2024	Primary	**496**	**NFR**
RHP05	Low-Flow		RHP05-WGN01LF-2411A	11/8/2024	Primary	**455**	**NFR**
RHP08	Low-Flow		RHP08-WGN01LF-2410B	10/22/2024	Primary	**749**	**NFR**
RHP08	Low-Flow		RHP08-WGFD01LF-2411B	11/19/2024	Field Duplicate	**300**	**NFR**
RHP08	Low-Flow		RHP08-WGN01LF-2411B	11/19/2024	Primary	**217**	**NFR**

Acronyms and Footnotes:

CAS – Chemical Abstracts Service

TPH – Total Petroleum Hydrocarbons reported as a non-overlapping sum of GRO/DRO/ORO with BTEX,1MN, 2MN, N subtracted.

µg/L – microgram per Liter

FR – The chromatogram is characteristic of fuel and matches the retention times of soluble components and metabolites of degraded fuel.

NFR – Chromatogram is not characteristic of fuels, dissolved/water equilibrated water soluble fuel components, or fuel metabolites.

[1]Refer to Section 9.3 for details of the chromatogram assessments.

Bold and orange shaded text indicates exceeds the 2024 Department of Health Tier 1 EAL.

Green text indicates results have completed third-party validation.

Persistent detections of DRO, and to a much lesser extent ORO, in RHMW02 are due to soluble fuel components and fuel metabolites consistent with historical results. RHMW01R is situated in proximity to, and is hydraulically downgradient from RHMW02 which may contribute to the DRO detections at RHMW01R.

TPH range organic (GRO+DRO+ORO) results that exceeded the 100 percent degraded EAL for middle distillates (193 µg/L) include all samples from RHMW02 with few exceedances at in-tunnel well RHMW03 and single sampling event exceedances at in-tunnel well RHMW05 and at outlying well RHMW17. Notably, the detection with an exceedance at in-tunnel RHMW05 was reported only in the sample analyzed by (b) (4) ; the split sample analyzed by (b) (4) had no detection of TPH-range organics. Only samples from RHMW02 have evidence of fuel-soluble components (naphthalenes) and fuel metabolites.

PAH COPCs (naphthalene and 1MN) were consistently detected only for samples collected at in-tunnel well RHMW02 (consistent with historical data for this well), but none exceeded screening levels.

In summary, samples from in-tunnel well RHMW02 are stable, with consistent detections of TPH, naphthalene, and 1MN in RHMW02. The chromatograms are consistent with dissolved fuel compounds in RHMW02 and fuel metabolites Concentrations in samples collected at other in-tunnel and the outlying wells are also stable, with infrequent low-level detections of TPH that are inconsistent with persistent fuel sources.

10.2.2 Delineation Wells

DRO or ORO were detected in one sampling event from RHP01, RHP04B, RHP05, and RHP08B and a few sampling events from RHP08, with TPH range organic screening level exceedances for RHP01, RHP05, and RHP08. Some of the exceedances were from samples analyzed by (b) (4) but these exceedances or detections were not confirmed with the corresponding split samples analyzed by SGS (RHP01 and RHP08) or not confirmed with the field duplicate sample analyzed by (b) (4) (RHP05).

The chromatograms for these samples indicate that the low-level detections are not due to petroleum but other organic compounds detected in the DRO and ORO range that may instead be evidence of naturally occurring, or sampling and laboratory introduced organic compounds. These results are not representative of the groundwater at these locations and are likely due to random sample or analysis artifacts or cross contamination.

10.2.3 Sentinel Wells

DRO was detected in two samples from NMW25. ORO was detected in only single samples from NMW25 and NMW26. The TPH organic range screening level was exceeded once at NMW25. The corresponding chromatograms indicate that the low-level detections and one exceedance are not due to petroleum but other organic compounds that are detected and may be introduced from sample handling, preparation, and analysis or during well construction operations. These results are not representative of the groundwater at these locations and are likely due to random sample or analysis artifacts or cross contamination.

11.0 Conclusions and Recommendations

11.1 Conclusions

Soil Vapor Impacts: The magnitude of soil vapor impacts associated with the fuel releases continues to decrease over time, consistent with natural attenuation and weathering of LNAPL in the environment. The shallow SVE phase of the remedial pilot study demonstrated a vacuum response within a zone of influence; however, only a limited amount of target COPCs was removed (primarily due to low VOC concentrations

that were remaining when the pilot study began). As a result, the Navy did not recommend full-scale operation of the shallow SVE system.

Groundwater Impacts: The data do not suggest an extensive or expanding plume or the presence of compounds associated with fuel or associated metabolites within wells other than RHMW02. No LNAPL was observed during the reporting period in any groundwater monitoring well, and groundwater monitoring well headspace concentrations were generally low. Hydrocarbon concentrations from in-tunnel wells RHMW01R and RHMW02 were stable, with consistent detections of TPH-range organics, naphthalene, and 1MN in RHMW02, and TPH-range organics in RHMW01R. The chromatograms are consistent with dissolved fuel compounds in RHMW02 and fuel metabolites in both wells. Samples collected from some wells have infrequent low-level detections of TPH-range organics, none of which are consistent with fuel sources. The chromatograms from the outlying, delineation, and sentinel wells indicate that the low-level detections are not due to petroleum but to other organic compounds that are detected in the DRO and ORO range that may be introduced during sample handling, preparation, and analysis or in-well construction operations; these results are not representative of the groundwater at these locations. In addition, primary fuel indicator compounds such as BTEX were not detected for any sampling location, and the non-pyrogenic PAHs were detected only at RHMW02.

In general, contaminant concentrations appear to be either declining or stable near the tank farm over time, with no sustained evidence of contamination elsewhere. Groundwater impacts primarily include elevated concentrations of DRO and low-level ORO for samples collected at in-tunnel well RHMW02. Dissolved concentrations of COPCs at Red Hill Shaft have decreased considerably due to natural attenuation and fuel recovery efforts, and are now consistently below the detection limits.

Except for samples from RHMW02 and RHMW01R, chromatographic profiles for the DRO and ORO detections for samples validated during this reporting period for the Red Hill network wells, delineation wells, and sentinel wells are distinctly different from what is expected from fuels, dissolved fuel components, or metabolites. Inconsistent, very low-level detections of DRO and ORO below the TPH range organic EAL and near reporting limits are generally not confirmed by split samples. There is no evidence of an extensive or expanding plume.

11.2 Recommendations and Planned Future Actions

The Navy recommends continuing the following activities:

- Soil vapor and groundwater sampling
- Site characterization at (b) (3) (A) including installation of additional deep SVMPs and SVE points for the planned Deep SVE Pilot Study
- Initial site characterization activities at the CHT Tank area outside Adit 3
- Follow-on site characterization activities at the HT-LT area outside Adit 3
- Data gathering and associated analyses

The Navy also continues to expand the groundwater monitoring well network to monitor groundwater quality at the Facility and in the region.

Extensive sampling and monitoring activities in response to the fuel releases are ongoing. Associated data evaluation will continue to be performed to support the evaluation of:

- Impact and extent of the releases to the environment
- Appropriate Red Hill Shaft GAC system daily average pumping rate
- Potential future migration of contaminants and potential impacts to offsite receptors, including existing and newly installed Navy wells
- Remedial alternatives and future remediation strategies
- Pilot testing for remediation effectiveness and optimization

The Navy is currently finalizing the following reports based on comments received from DOH in June 2024:

- *Technical Memorandum, Phase 2 Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2023f)
- *Closure Report, Concrete Tank Removal* (DON 2023d)

The comprehensive data set for the (b) (3) (A) OU-2 saturated zone investigation will be provided to the Regulatory Agencies in a format similar to and complementary to the OU-1 Vadose Zone Report once all laboratory analyses and reports are finalized.

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

- Draft Natural Source-Zone Depletion Work Plan (February 23, 2023)
- Draft Deep Soil Vapor Extraction Work Plan (February 27, 2023)
- Draft Tank Closure Plan, Supplement 3: Phase 1 Site Assessment (June 2024)

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Appendix A – Soil Vapor Monitoring Results, Current Reporting Period

Appendix A.1 – Average Soil Vapor PID Concentration Readings at Tanks 2–18 and 20 (ppbv) – Weekly Events

Appendix A.2 – Soil Vapor Chromatograms

Appendix A.1 – Average Soil Vapor PID Concentration Readings at Tanks 2–18 and 20 (ppbv) – Weekly Events

Appendix A.1: Average Soil Vapor PID Concentration Readings at Tanks 2–18 and 20 (ppbv) – Weekly Events

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

	SVMP																							
Date	**02D**	**02M**	**02S**	**03D**	**03M**	**03S**	**04D**	**04M**	**04S**	**05D**	**05M**	**05S**	**06M**	**06S**	**07D**	**07M**	**07S**	**08D**	**08M**	**08S**	**09D**	**09M**	**09S**	**10M-D[1]**	**10S**
AOC Action Limit:	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000	280000
12/31/2024	0	0	0	0	0	0	0	0	0	63	849	99	219	1,532	46	33	11	25	0	12	0	0	0	0	0
12/23/2024	74	89	61	48	170	73	58	67	57	218	509	289	619	1,987	160	132	359	166	293	145	55	49	130	40	60
12/17/2024	0	0	0	0	0	0	0	0	0	81	331	154	369	1,727	22	17	6	0	0	0	0	0	0	0	0
12/10/2024	0	0	0	0	0	0	0	0	0	80	260	53	47	1,879	91	42	69	34	11	0	0	0	0	0	0
12/3/2024	0	0	0	0	0	0	0	0	0	233	635	346	533	1,820	130	8	0	84	13	23	22	6	0	0	2
11/26/2024	0	0	250	0	0	0	0	9	0	150	479	315	501	1,885	61	49	57	229	319	72	26	18	9	14	9
11/19/2024	0	0	0	0	0	0	0	59	0	176	336	242	673	1,861	84	72	88	228	186	101	75	49	47	78	50
11/12/2024	0	0	0	0	0	0	0	0	0	0	309	32	269	2,075	32	10	0	7	0	1	0	0	0	33	24
11/5/2024	0	0	0	0	0	0	0	0	0	0	0	0	324	1,921	0	0	0	0	0	0	0	0	0	0	0
10/29/2024	0	0	0	0	0	0	0	0	0	0	570	0	3,023	8,107	560	529	518	353	379	322	374	236	210	251	201
10/22/2024	0	0	0	0	0	0	0	0	0	0	163	0	473	1,605	0	0	0	0	0	0	0	0	0	0	0
10/15/2024	25	0	52	73	41	49	141	106	109	295	363	186	361	1,628	74	10	0	58	26	45	254	79	80	141	76

Date	**11M-D[1]**	**11S**	**12D**	**12M**	**12S**	**13D**	**13M**	**13S**	**14D**	**14M**	**14S**	**15D**	**15M**	**15S**	**16D**	**16M**	**16S**	**17D**	**17M**	**17S**	**18D**	**18S**	**20D**	**20M**	**20S**
AOC Action Limit:	280000	280000	280000	280000	280000	14000	14000	14000	14000	14000	14000	14000	14000	14000	14000	14000	14000	280000	280000	280000	280000	280000	280000	280000	280000
12/31/2024	0	0	1	2	21	0	0	0	0	0	0	0	NC2	0	0	0	NC	4	0	0	374	183	76	186	38
12/23/2024	78	81	74	70	76	62	68	58	83	58	47	91	NC2	127	96	118	NC	163	153	168	515	383	244	287	130
12/17/2024	0	0	1	0	12	43	24	26	63	44	51	0	NC2	0	27	29	NC	13	0	0	442	263	144	98	71
12/10/2024	0	0	33	25	19	74	34	24	94	69	63	53	NC2	49	61	69	NC	124	61	50	515	1,211	168	152	141
12/3/2024	0	21	12	43	70	101	48	53	40	66	34	28	NC2	64	102	123	NC	42	48	69	NC2	238	141	163	144
11/26/2024	41	117	630	37	98	89	67	61	194	104	59	102	NC2	128	152	134	NC	139	156	195	874	374	189	194	143
11/19/2024	34	42	42	338	56	89	73	62	139	111	46	133	NC2	154	170	146	NC	114	127	135	2,238	1,633	238	214	184
11/12/2024	15	24	15	9	20	3	0	0	33	19	24	35	NC2	20	119	133	NC	43	35	20	761	257	220	414	136
11/5/2024	0	0	0	0	0	0	0	0	0	0	0	0	NC2	0	0	0	NC	0	0	0	360	0	0	83	0
10/29/2024	120	136	171	171	171	238	202	158	245	256	231	400	NC2	352	344	343	NC	453	211	200	3,724	1,092	936	1,422	726
10/22/2024	0	0	0	0	0	0	0	0	0	0	0	17	NC2	15	0	0	NC	0	0	0	1,874	465	121	165	61
10/15/2024	84	70	152	158	114	284	92	43	130	189	190	242	NC2	178	141	133	NC	147	173	192	2,951	246	352	445	160

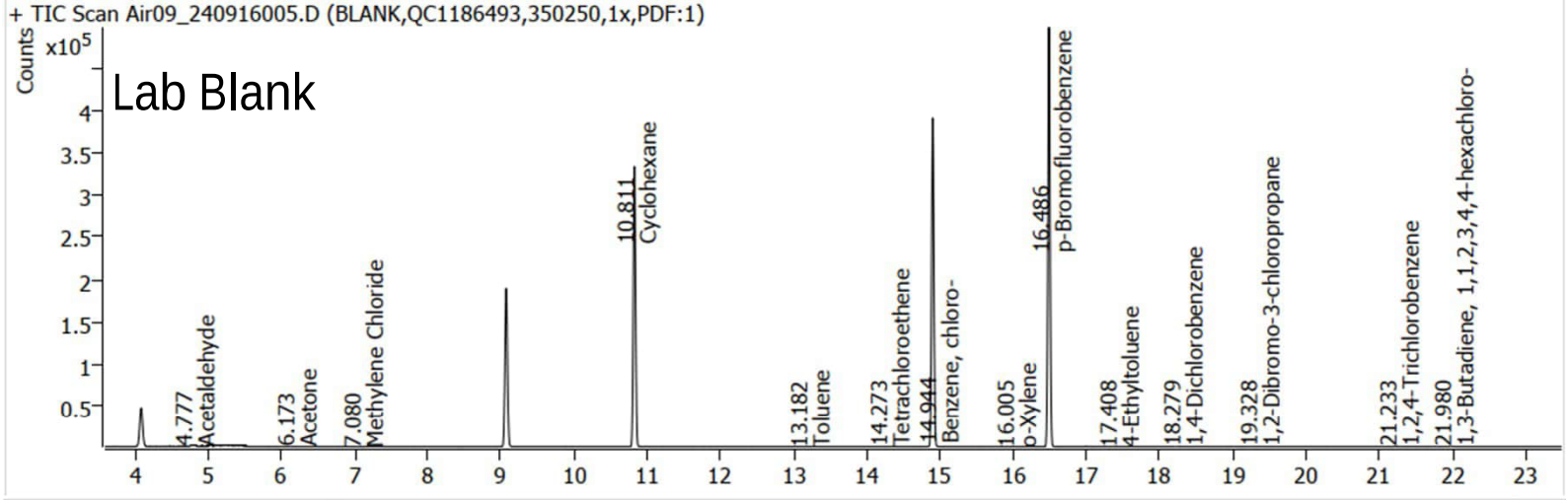
Notes:
Soil vapor concentration readings are reported in parts per billion by volume (ppbv).
[1] - SVMP-10M/D, SVMP-11M/D - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.

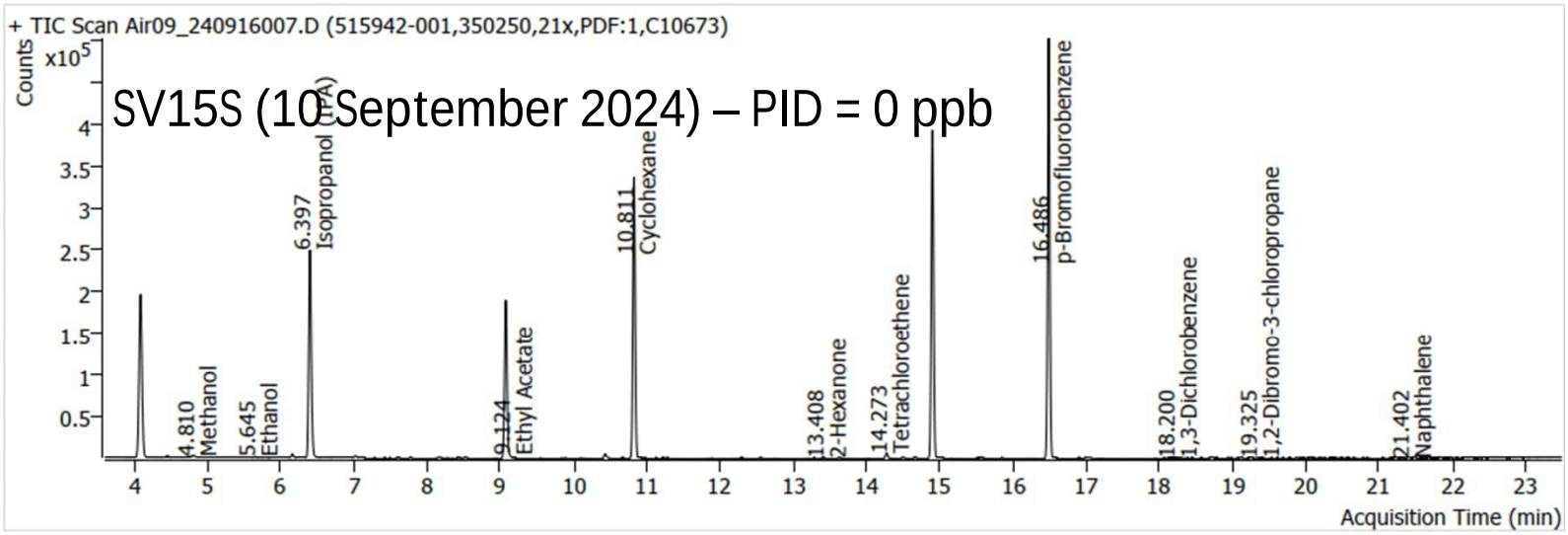
Legend:
AOC - Administrative Order on Consent
NC - Not collected
NC2 - Not collected due to obstruction in vapor line
ppbv - parts per billion by volume
SVMP - soil vapor monitoring point

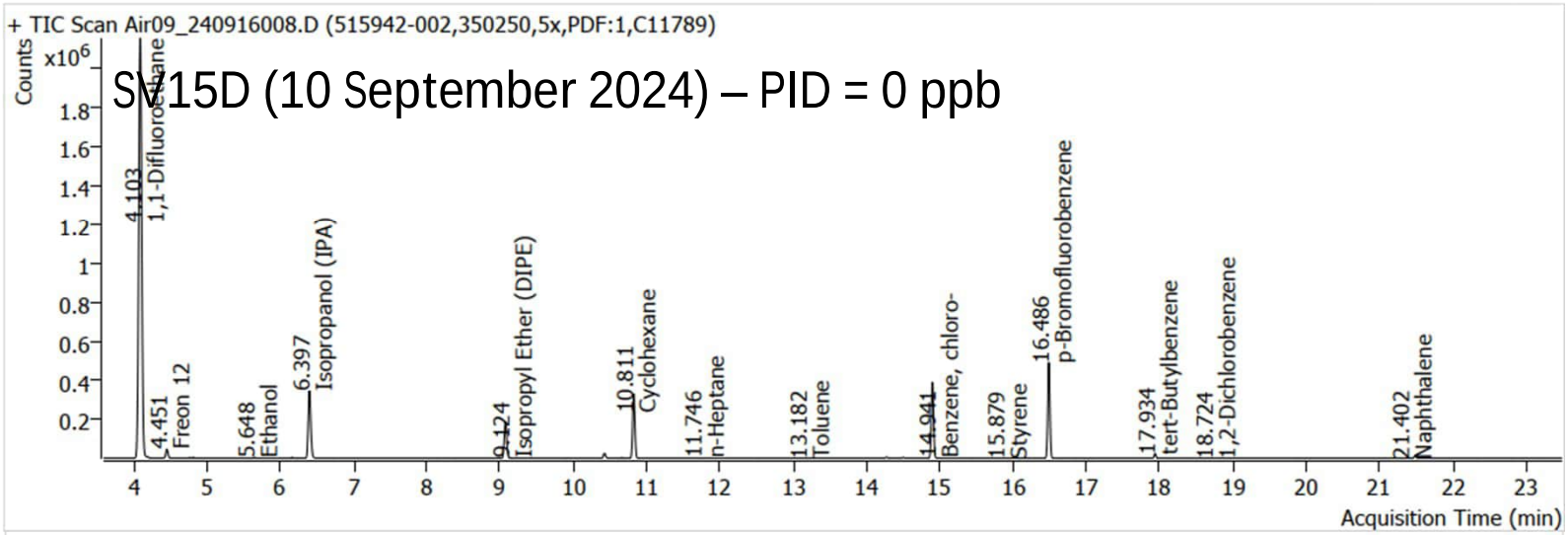
Appendix A.2 – Soil Vapor Chromatograms

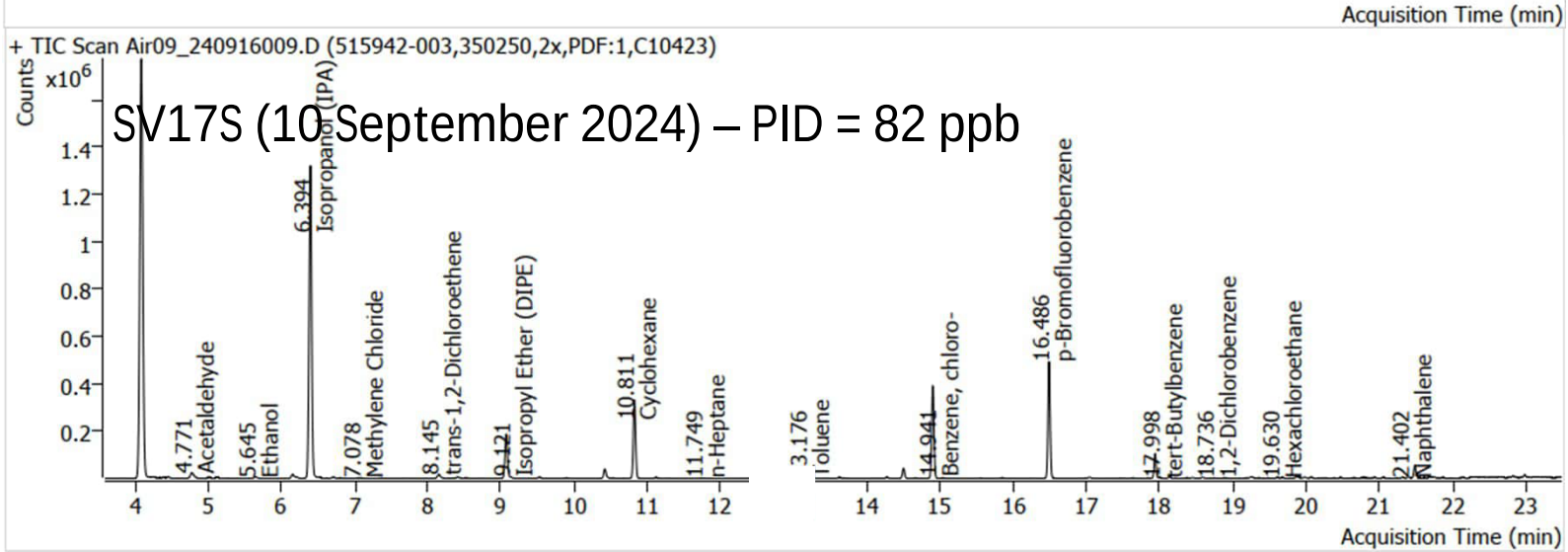
September 2024
Soil Vapor Samples

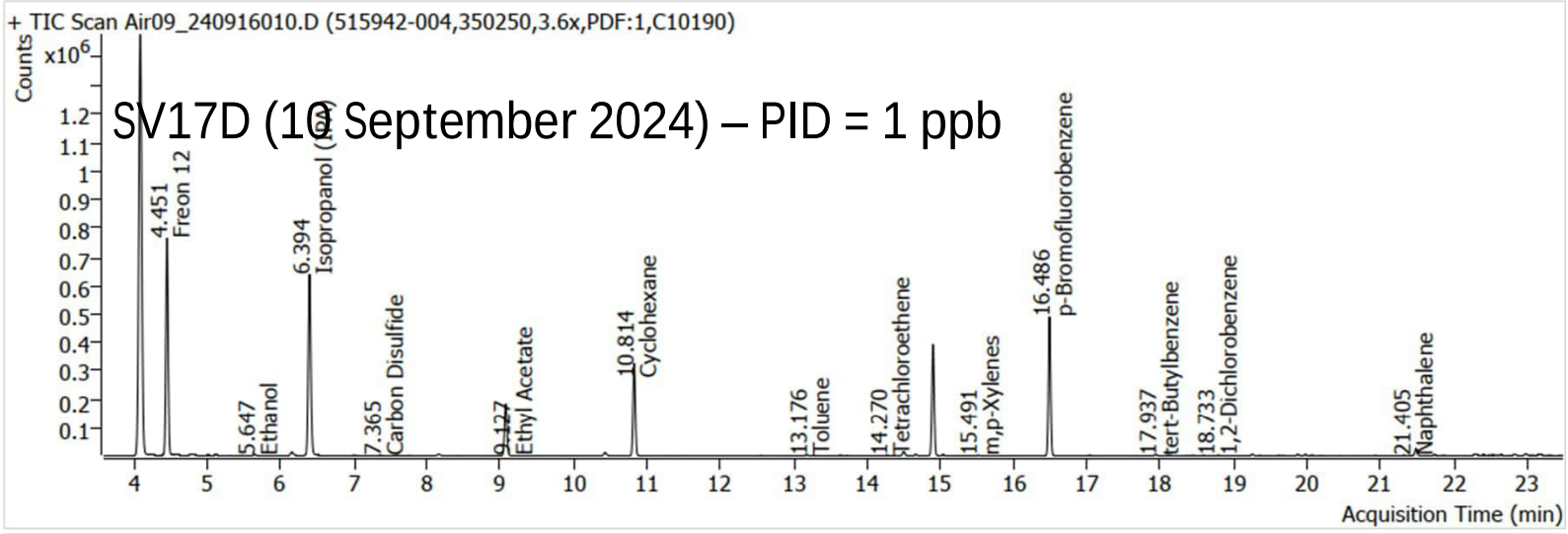
Mass Spec Chromatograms

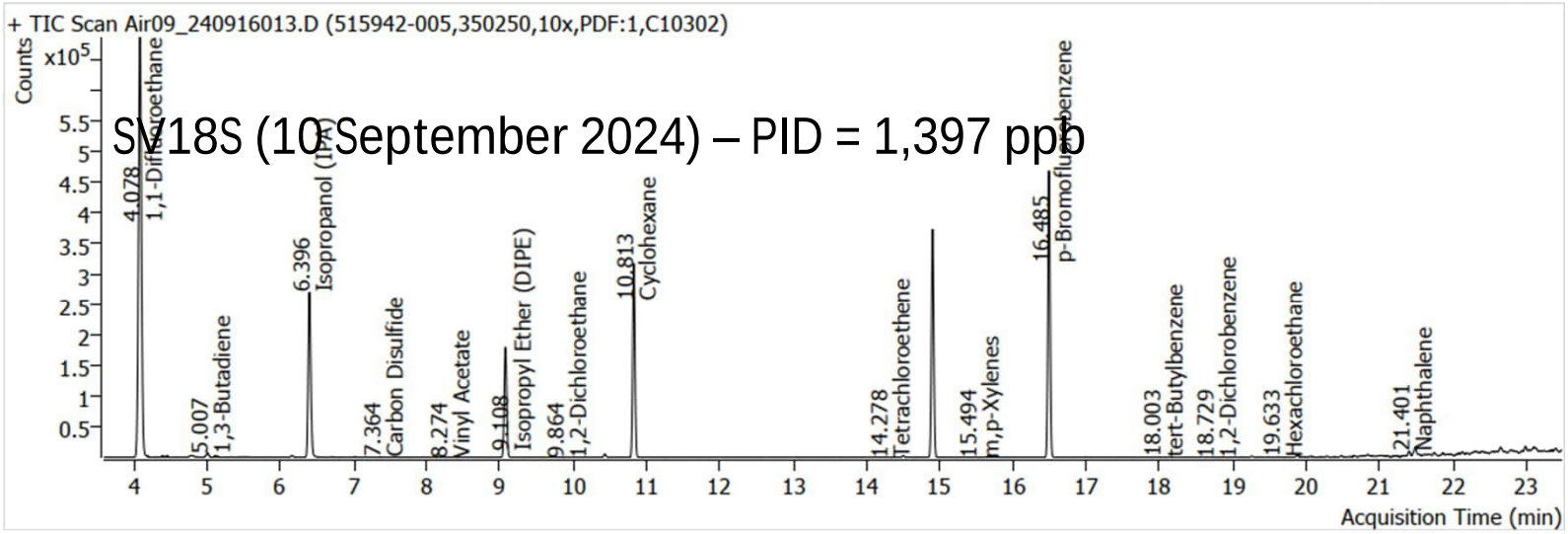

+ TIC Scan Air09_240916005.D (BLANK,QC1186493,350250,1x,PDF:1)
Lab Blank
Counts
x10^5
4.777 Acetaldehyde
6.173 Acetone
7.080 Methylene Chloride
10.811 Cyclohexane
13.182 Toluene
14.273 Tetrachloroethene
14.944 Benzene, chloro-
16.005 o-Xylene
16.486 p-Bromofluorobenzene
17.408 4-Ethyltoluene
18.279 1,4-Dichlorobenzene
19.328 1,2-Dibromo-3-chloropropane
21.233 1,2,4-Trichlorobenzene
21.980 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

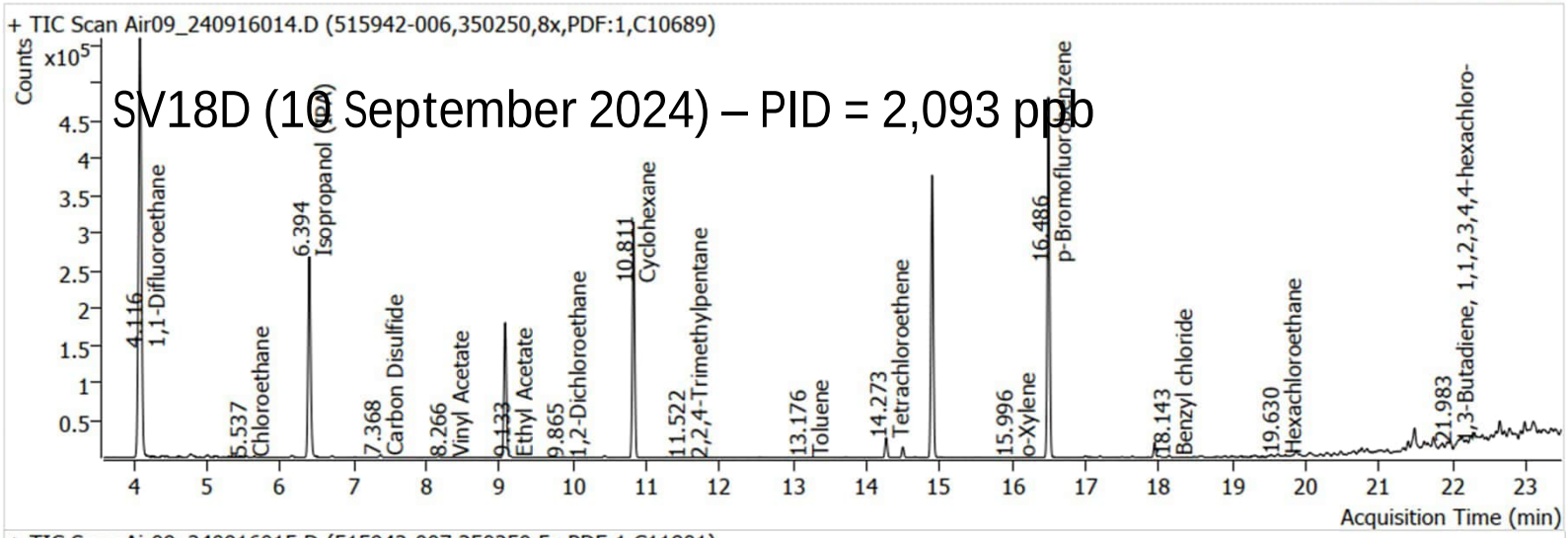

+ TIC Scan Air09_240916007.D (515942-001,350250,21x,PDF:1,C10673)
SV15S (10 September 2024) – PID = 0 ppb
Counts
x10^5
4.810 Methanol
5.645 Ethanol
6.397 Isopropanol (IPA)
9.124 Ethyl Acetate
10.811 Cyclohexane
13.408 2-Hexanone
14.273 Tetrachloroethene
16.486 p-Bromofluorobenzene
18.200 1,3-Dichlorobenzene
19.325 1,2-Dibromo-3-chloropropane
21.402 Naphthalene
Acquisition Time (min)

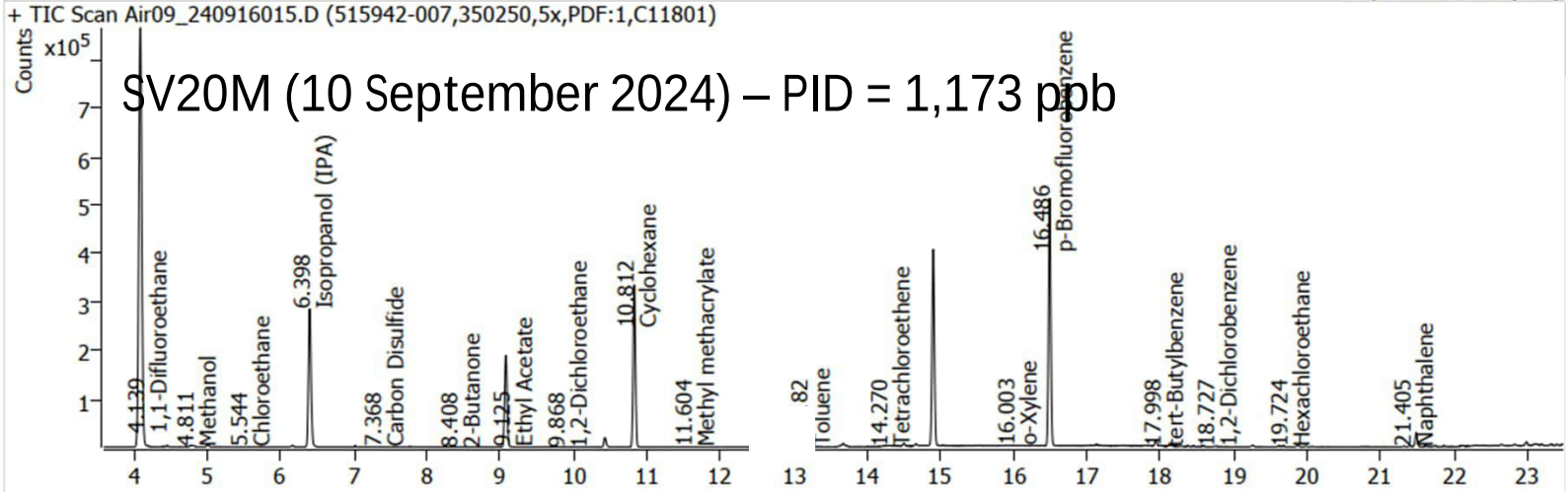

+ TIC Scan Air09_240916008.D (515942-002,350250,5x,PDF:1,C11789)
SV15D (10 September 2024) – PID = 0 ppb
Counts
x10^6
4.103 1,1-Difluoroethane
4.451 Freon 12
5.648 Ethanol
6.397 Isopropanol (IPA)
9.124 Isopropyl Ether (DIPE)
10.811 Cyclohexane
11.746 n-Heptane
13.182 Toluene
14.941 Benzene, chloro-
15.879 Styrene
16.486 p-Bromofluorobenzene
17.934 tert-Butylbenzene
18.724 1,2-Dichlorobenzene
21.402 Naphthalene
Acquisition Time (min)

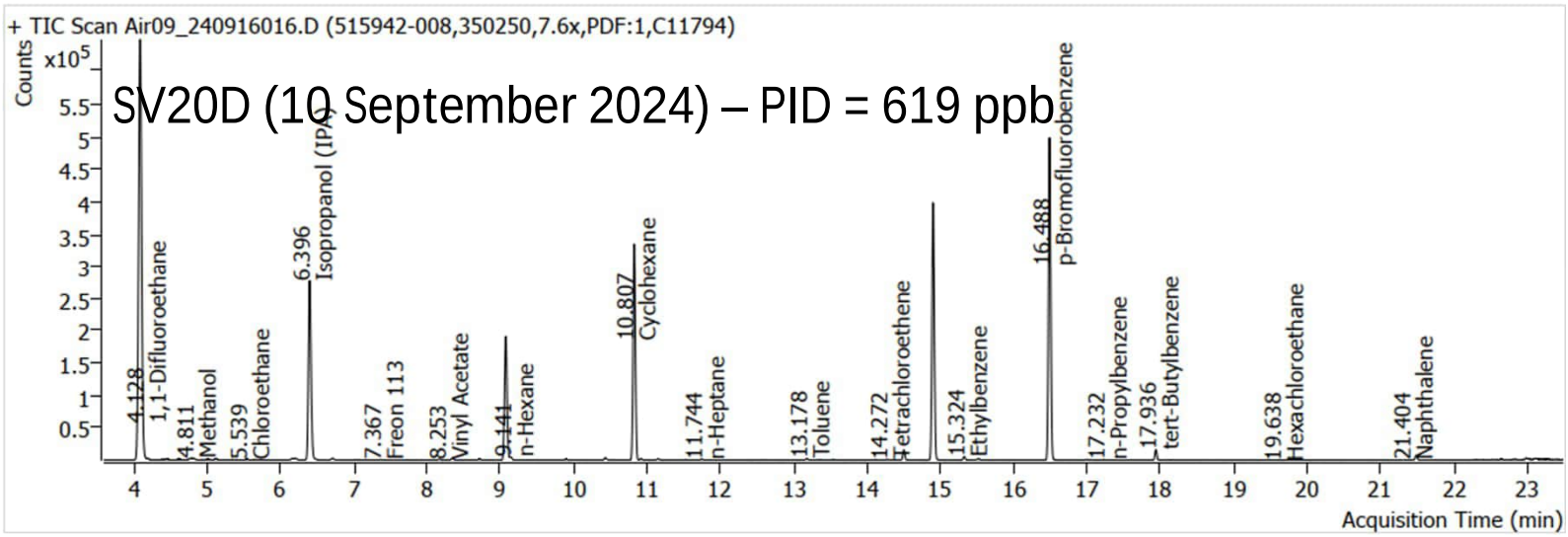

+ TIC Scan Air09_240916009.D (515942-003,350250,2x,PDF:1,C10423)
SV17S (10 September 2024) – PID = 82 ppb
Counts
x10^6
4.771 Acetaldehyde
5.645 Ethanol
6.394 Isopropanol (IPA)
7.078 Methylene Chloride
8.145 trans-1,2-Dichloroethene
9.121 Isopropyl Ether (DIPE)
10.811 Cyclohexane
11.749 n-Heptane
3.176 Toluene
14.941 Benzene, chloro-
16.486 p-Bromofluorobenzene
17.998 tert-Butylbenzene
18.736 1,2-Dichlorobenzene
19.630 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_240916010.D (515942-004,350250,3.6x,PDF:1,C10190)
Counts
x10^6
SV17D (10 September 2024) – PID = 1 ppb
4.451 Freon 12
6.394 Isopropanol (IPA)
5.647 Ethanol
7.365 Carbon Disulfide
9.127 Ethyl Acetate
10.814 Cyclohexane
13.176 Toluene
14.270 Tetrachloroethene
15.491 m,p-Xylenes
16.486 p-Bromofluorobenzene
17.937 tert-Butylbenzene
18.733 1,2-Dichlorobenzene
21.405 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_240916013.D (515942-005,350250,10x,PDF:1,C10302)
Counts
x10^5
SV18S (10 September 2024) – PID = 1,397 ppb
4.078 1,1-Difluoroethane
5.007 1,3-Butadiene
6.396 Isopropanol (IPA)
7.364 Carbon Disulfide
8.274 Vinyl Acetate
9.108 Isopropyl Ether (DIPE)
9.864 1,2-Dichloroethane
10.813 Cyclohexane
14.278 Tetrachloroethene
15.494 m,p-Xylenes
16.485 p-Bromofluorobenzene
18.003 tert-Butylbenzene
18.729 1,2-Dichlorobenzene
19.633 Hexachloroethane
21.401 Naphthalene
Acquisition Time (min)

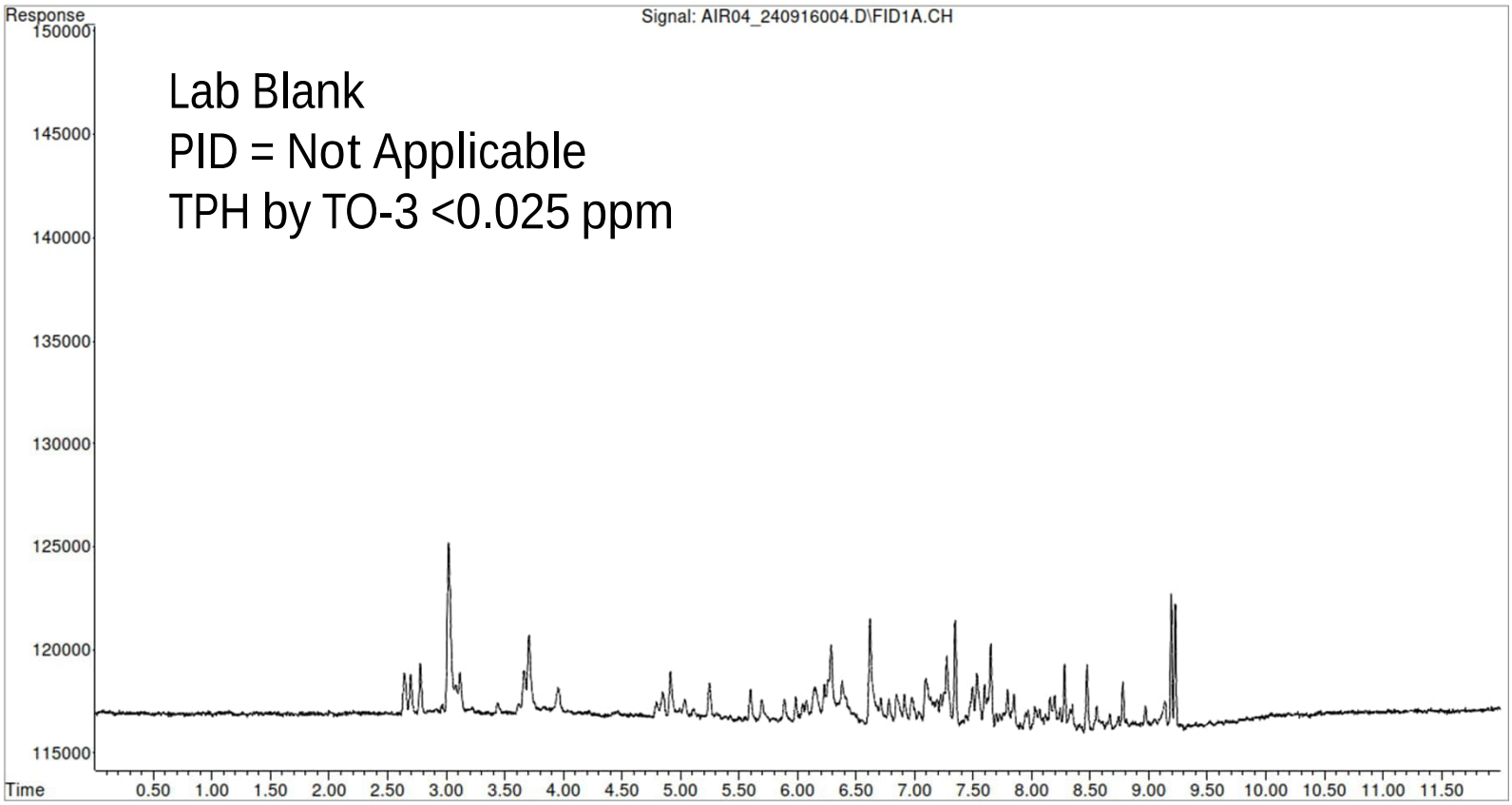

+ TIC Scan Air09_240916014.D (515942-006,350250,8x,PDF:1,C10689)
Counts
x10^5
SV18D (10 September 2024) – PID = 2,093 ppb
4.116 1,1-Difluoroethane
5.537 Chloroethane
6.394 Isopropanol (IPA)
7.368 Carbon Disulfide
8.266 Vinyl Acetate
9.133 Ethyl Acetate
9.865 1,2-Dichloroethane
10.811 Cyclohexane
11.522 2,2,4-Trimethylpentane
13.176 Toluene
14.273 Tetrachloroethene
15.996 o-Xylene
16.486 p-Bromofluorobenzene
18.143 Benzyl chloride
19.630 Hexachloroethane
21.983 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

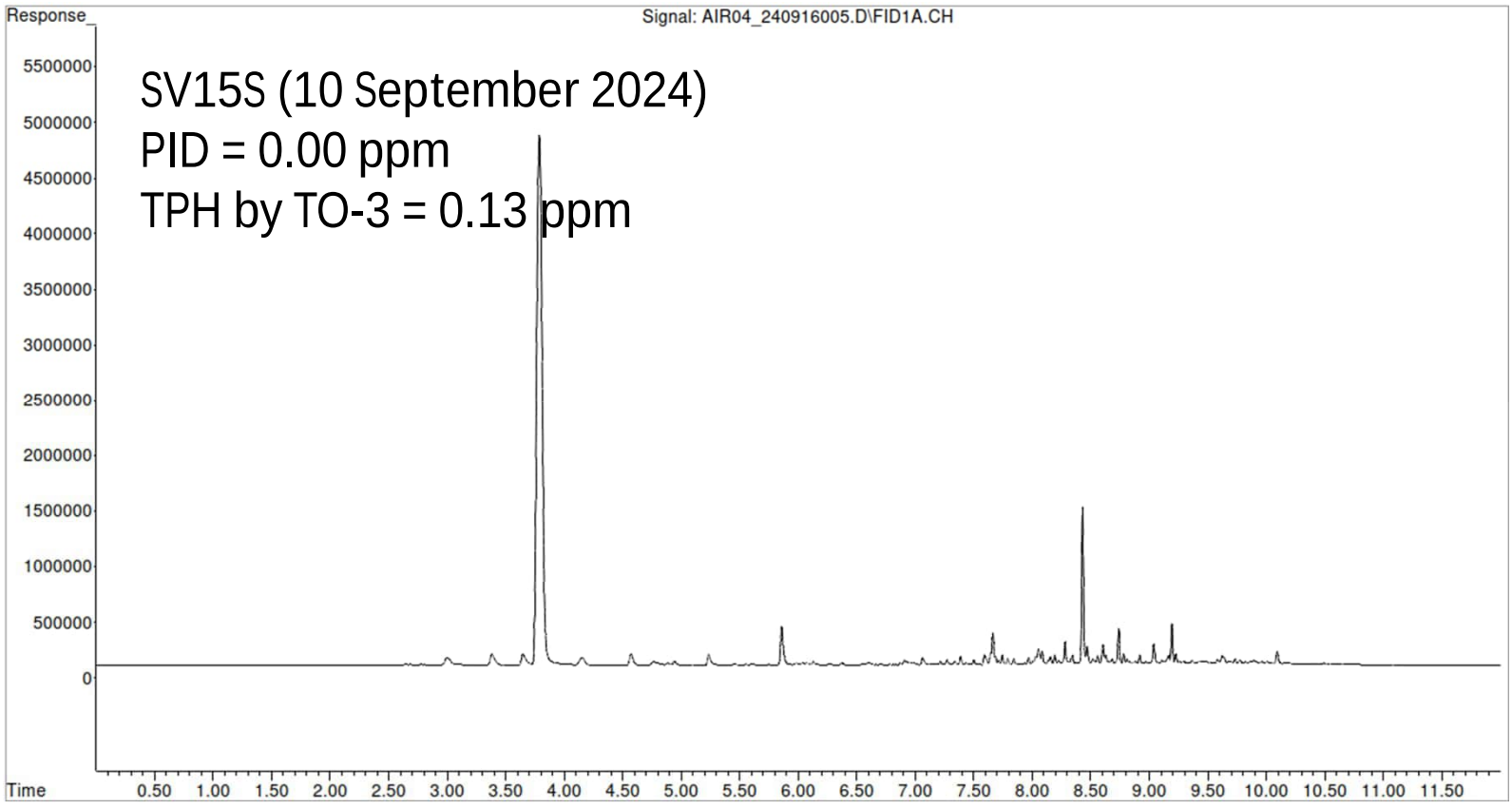

+ TIC Scan Air09_240916015.D (515942-007,350250,5x,PDF:1,C11801)
Counts
x10^5
SV20M (10 September 2024) – PID = 1,173 ppb
4.139 1,1-Difluoroethane
4.811 Methanol
5.544 Chloroethane
6.398 Isopropanol (IPA)
7.368 Carbon Disulfide
8.408 2-Butanone
9.125 Ethyl Acetate
9.868 1,2-Dichloroethane
10.812 Cyclohexane
11.604 Methyl methacrylate
82 Toluene
14.270 Tetrachloroethene
16.003 o-Xylene
16.486 p-Bromofluorobenzene
17.998 tert-Butylbenzene
18.727 1,2-Dichlorobenzene
19.724 Hexachloroethane
21.405 Naphthalene

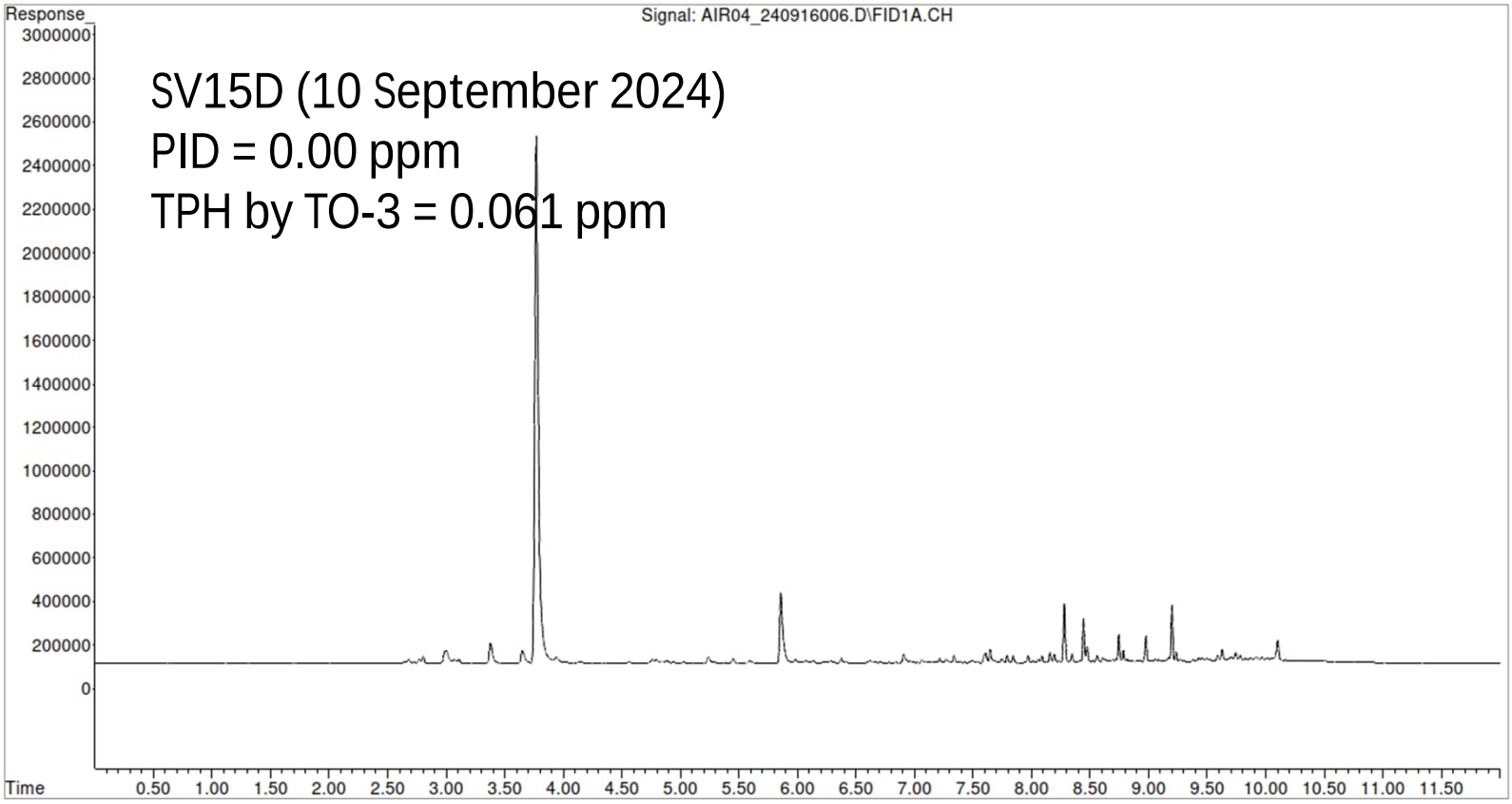

+ TIC Scan Air09_240916016.D (515942-008,350250,7.6x,PDF:1,C11794)
Counts
x10^5
SV20D (10 September 2024) – PID = 619 ppb
4.128
1,1-Difluoroethane
4.811
Methanol
5.539
Chloroethane
6.396
Isopropanol (IPA)
7.367
Freon 113
8.253
Vinyl Acetate
9.141
n-Hexane
10.807
Cyclohexane
11.744
n-Heptane
13.178
Toluene
14.272
Tetrachloroethene
15.324
Ethylbenzene
16.488
p-Bromofluorobenzene
17.232
n-Propylbenzene
17.936
tert-Butylbenzene
19.638
Hexachloroethane
21.404
Naphthalene
Acquisition Time (min)

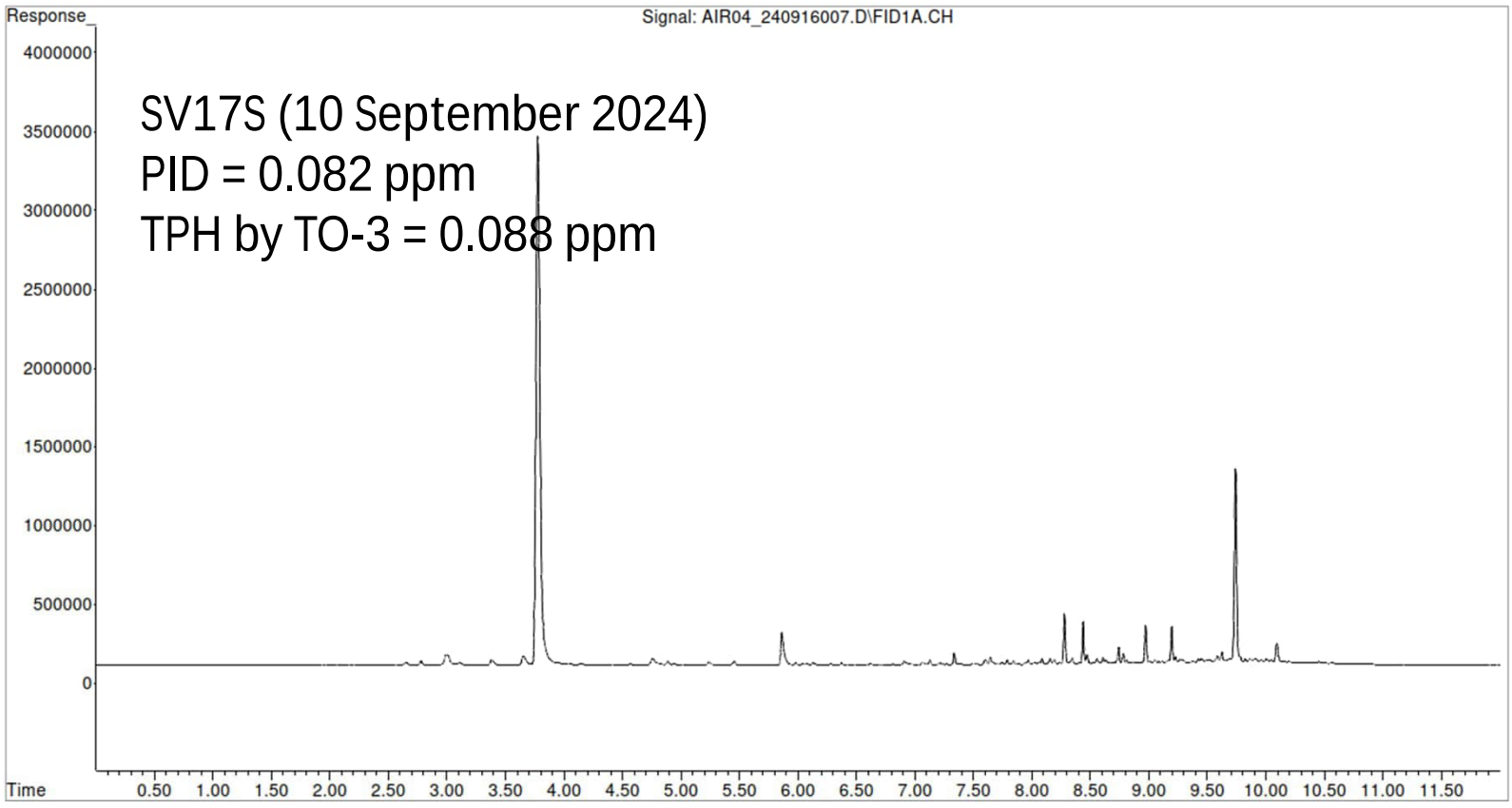
September 2024
Soil Vapor Samples

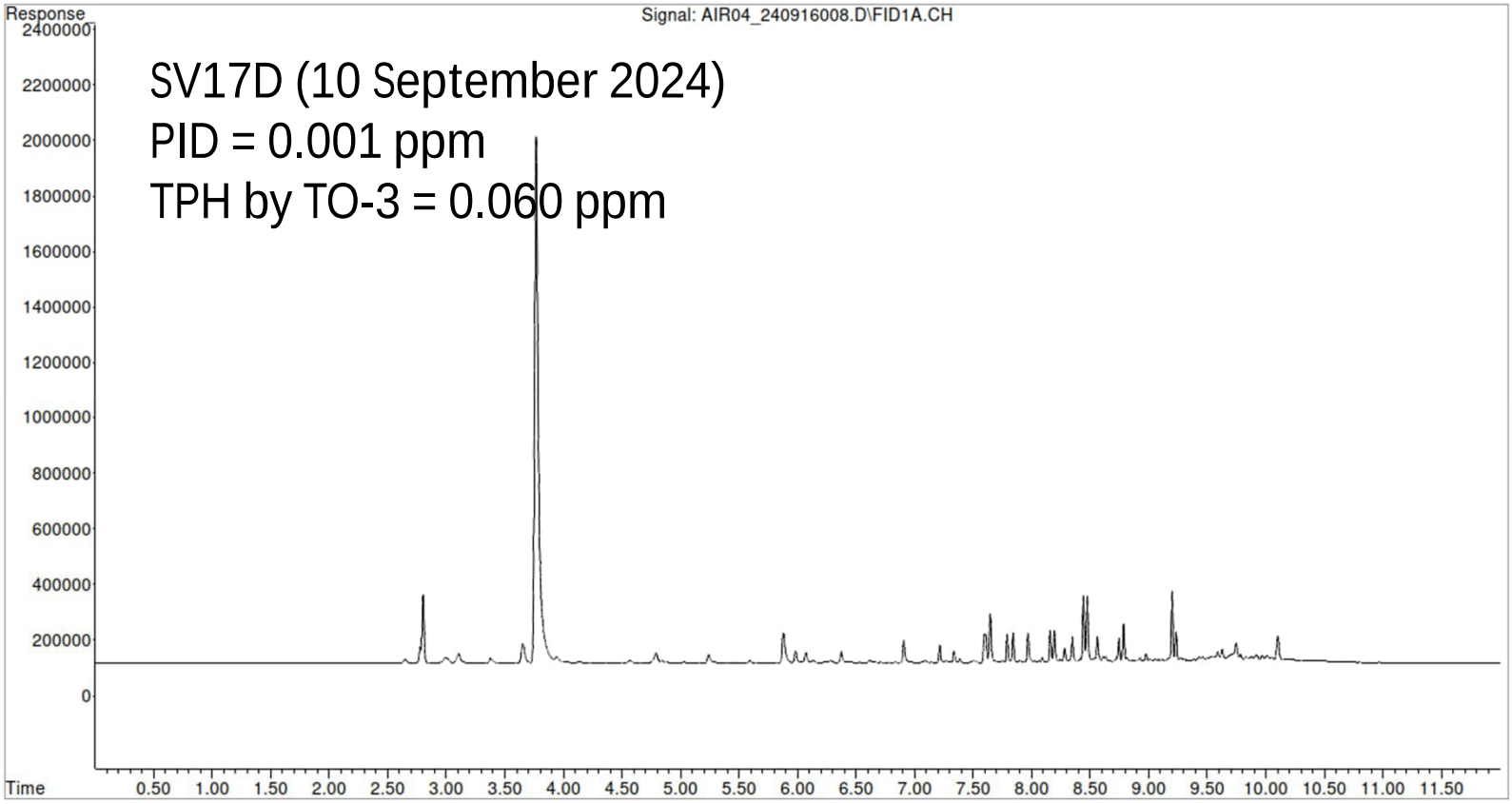
FID Chromatograms

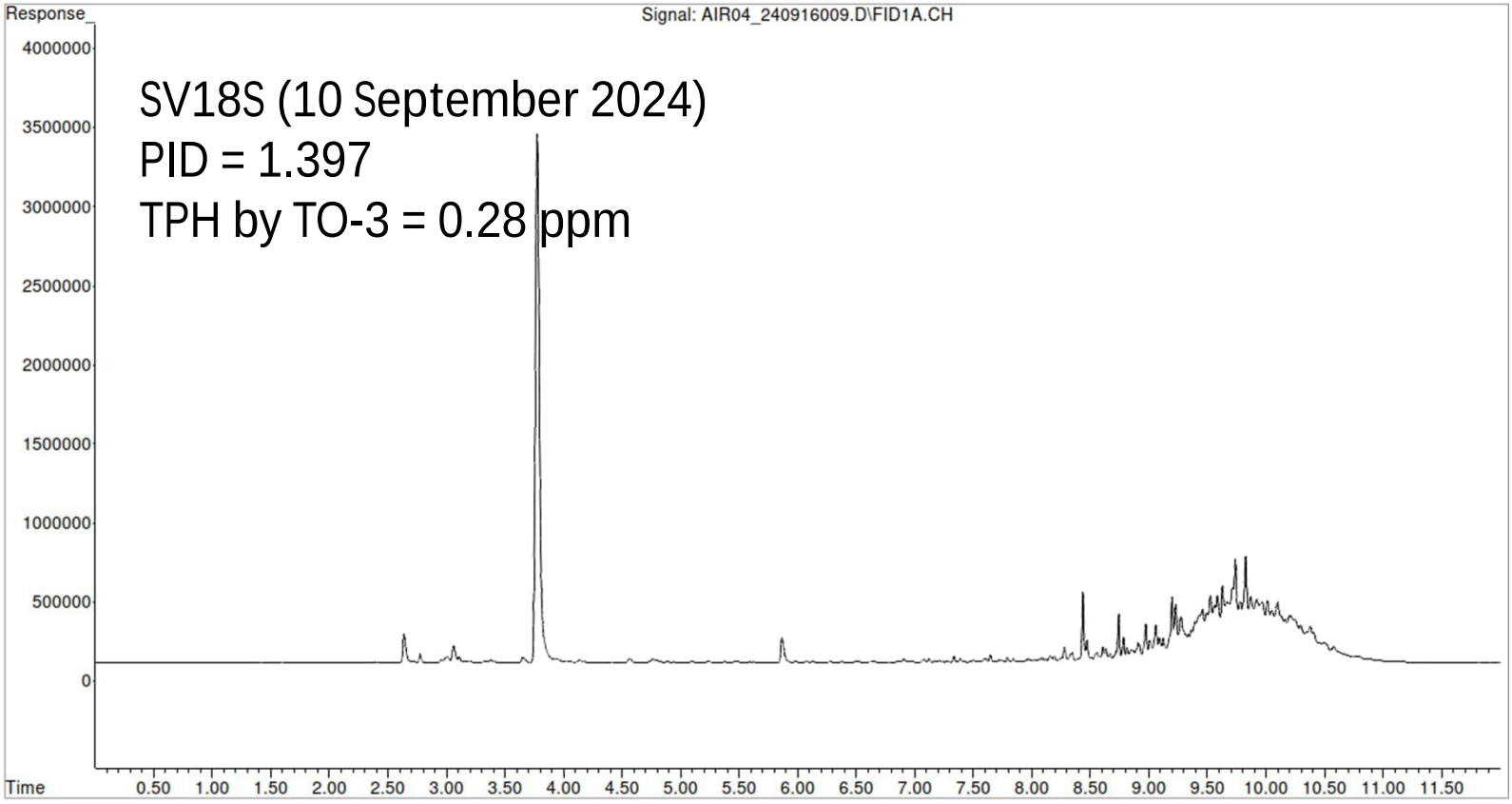

Response
Signal: AIR04_240916004.D\FID1A.CH
150000
145000
140000
135000
130000
125000
120000
115000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

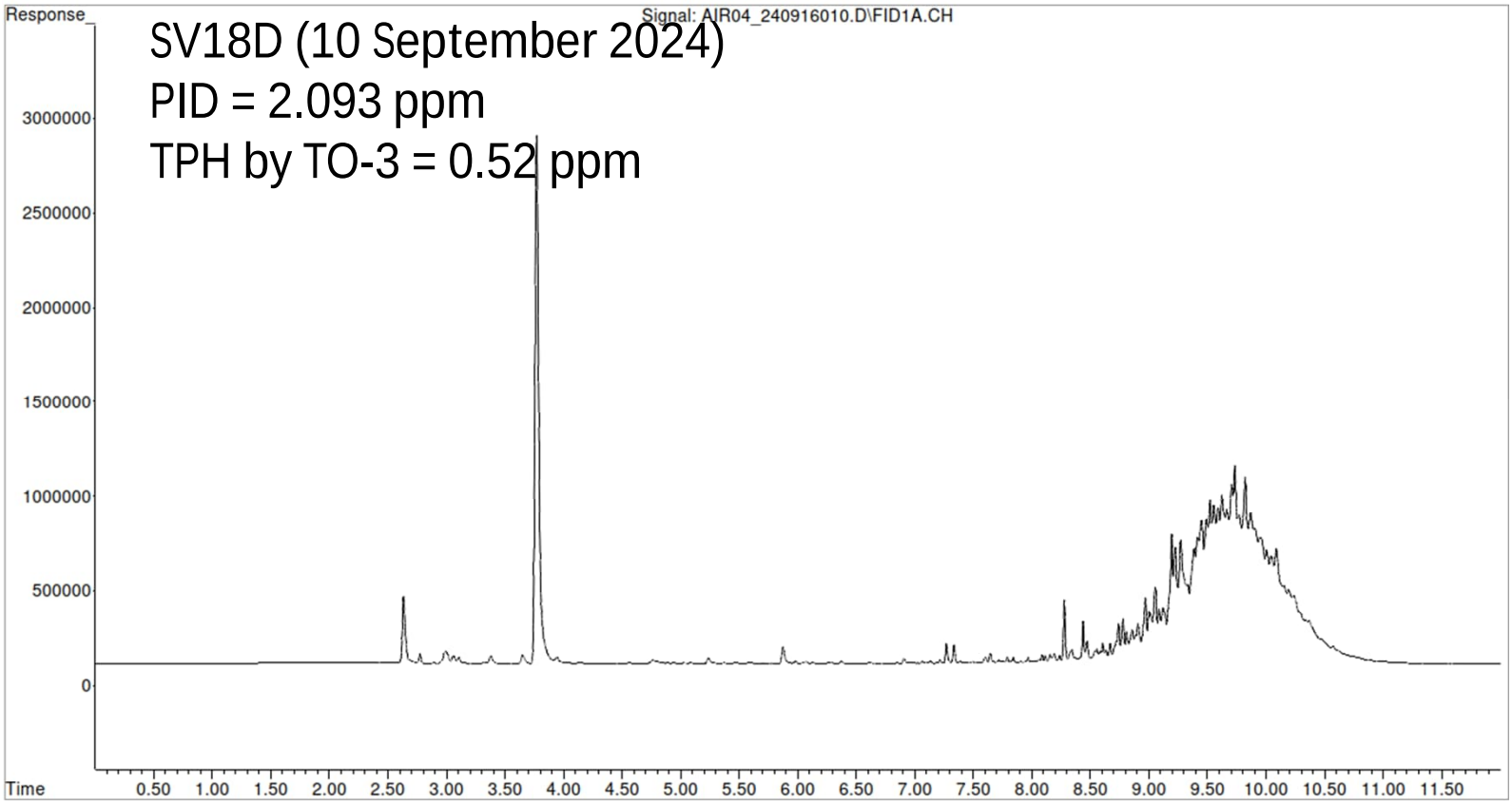

Response
Signal: AIR04_240916005.D\FID1A.CH
5500000
5000000
4500000
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV15S (10 September 2024)
PID = 0.00 ppm
TPH by TO-3 = 0.13 ppm

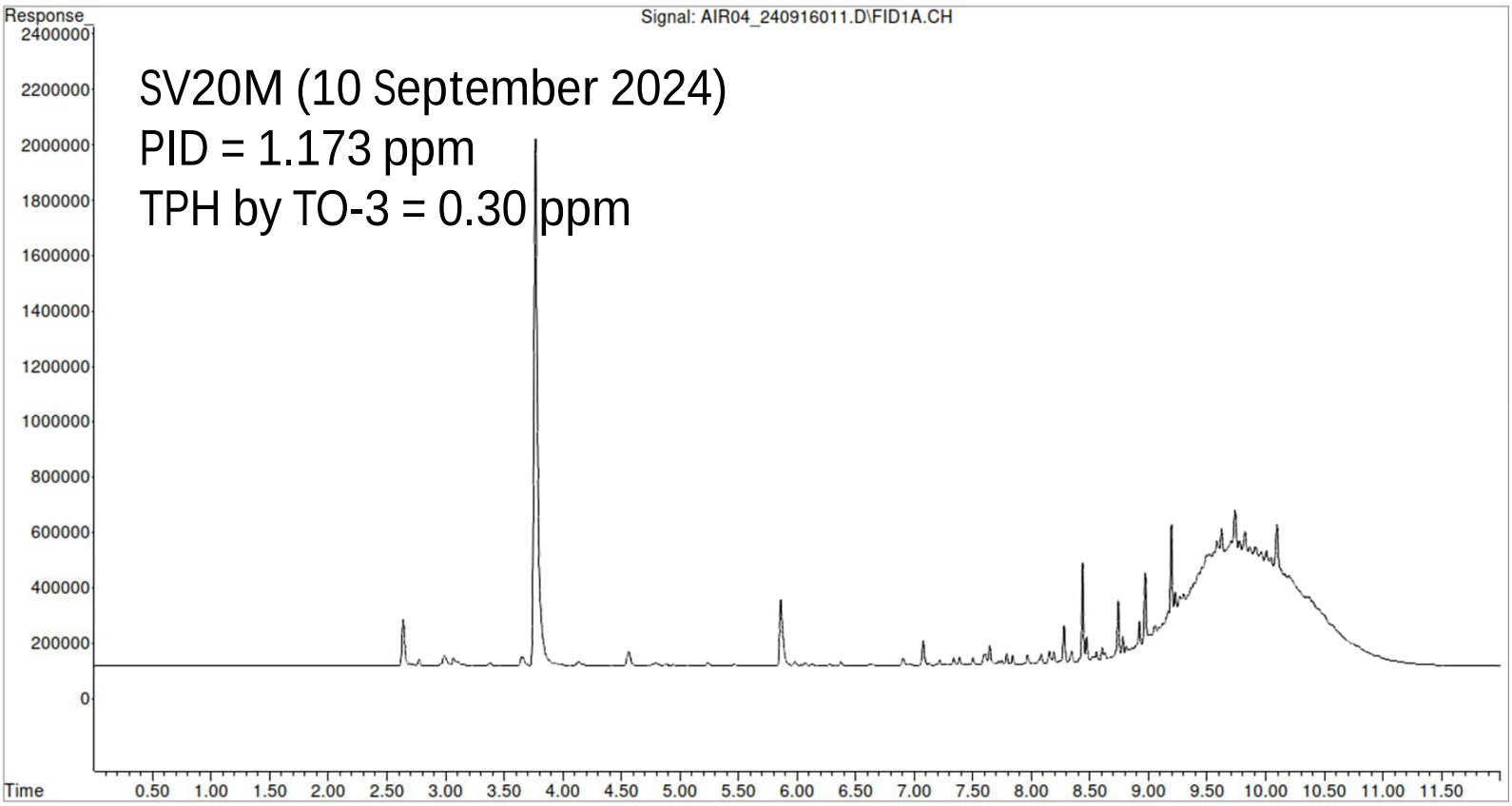

Response_
Signal: AIR04_240916006.D\FID1A.CH
SV15D (10 September 2024)
PID = 0.00 ppm
TPH by TO-3 = 0.061 ppm
3000000
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

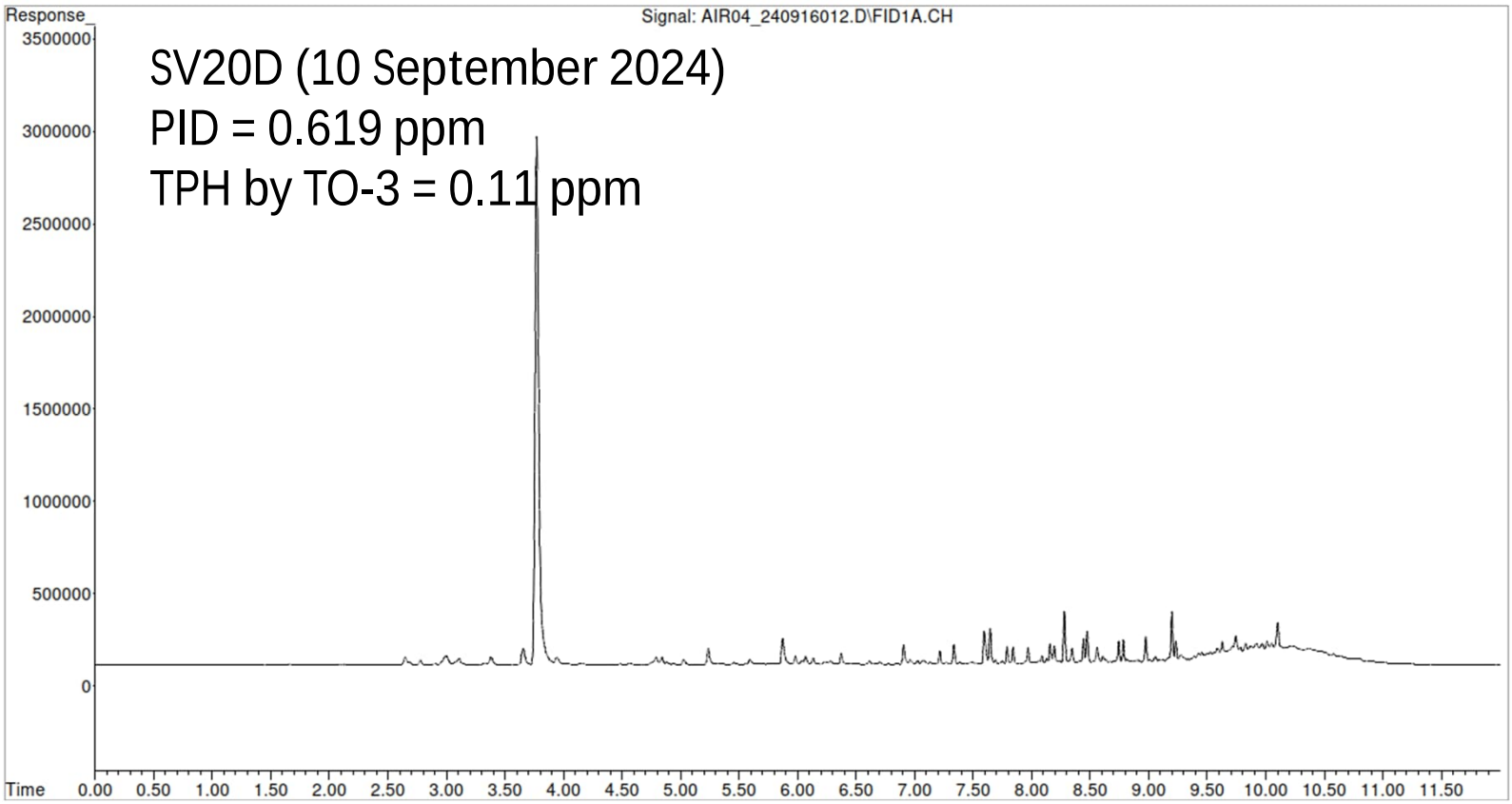

Response_
Signal: AIR04_240916007.D\FID1A.CH
SV17S (10 September 2024)
PID = 0.082 ppm
TPH by TO-3 = 0.088 ppm
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_240916008.D\FID1A.CH
SV17D (10 September 2024)
PID = 0.001 ppm
TPH by TO-3 = 0.060 ppm
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_240916009.D\FID1A.CH
SV18S (10 September 2024)
PID = 1.397
TPH by TO-3 = 0.28 ppm
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

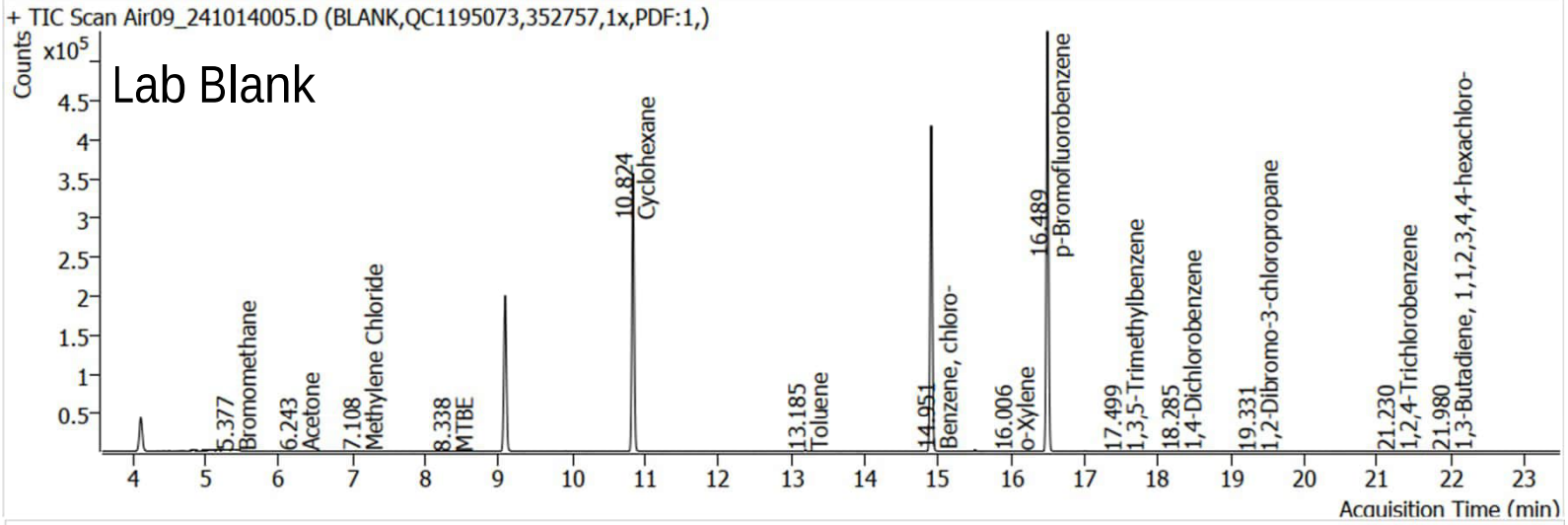

Response_
Signal: AIR04_240916010.D\FID1A.CH
SV18D (10 September 2024)
PID = 2.093 ppm
TPH by TO-3 = 0.52 ppm
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

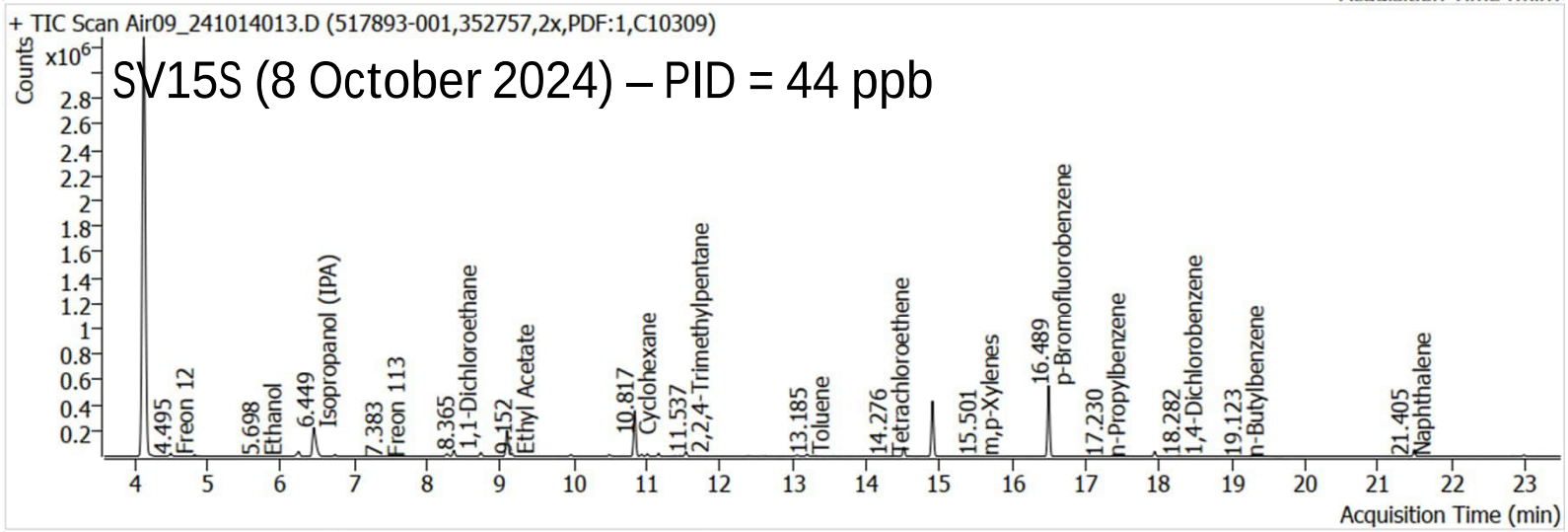

Response_
Signal: AIR04_240916011.D\FID1A.CH
SV20M (10 September 2024)
PID = 1.173 ppm
TPH by TO-3 = 0.30 ppm
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

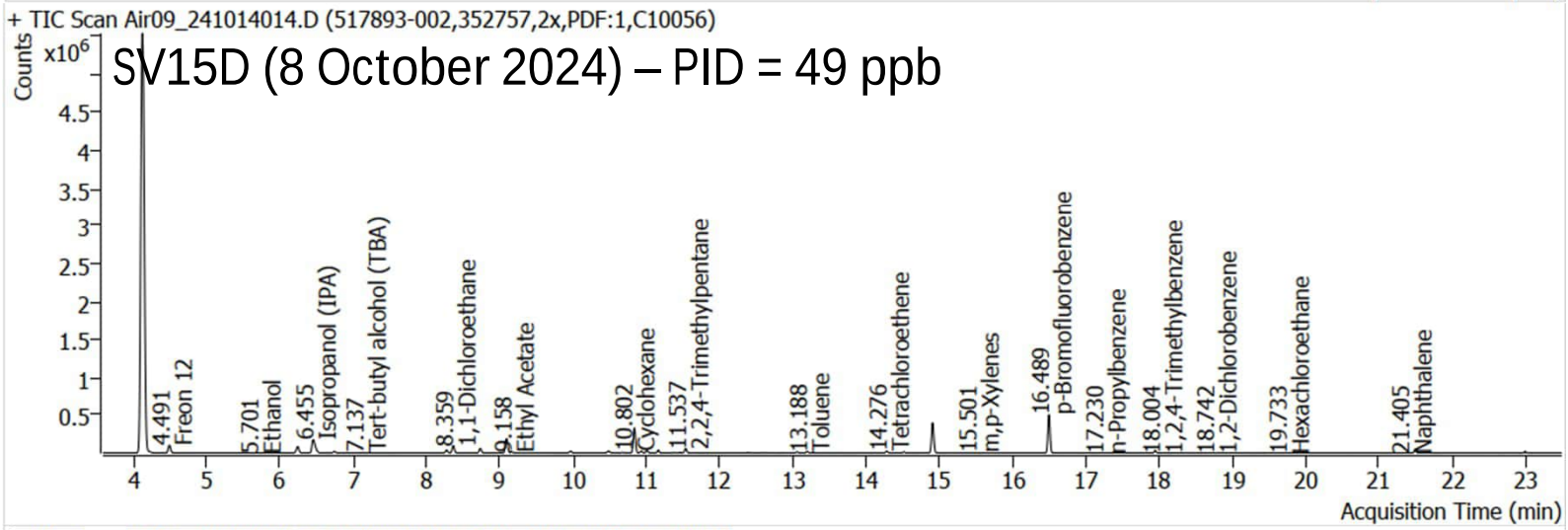

Response_
Signal: AIR04_240916012.D\FID1A.CH
SV20D (10 September 2024)
PID = 0.619 ppm
TPH by TO-3 = 0.11 ppm
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.00 0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

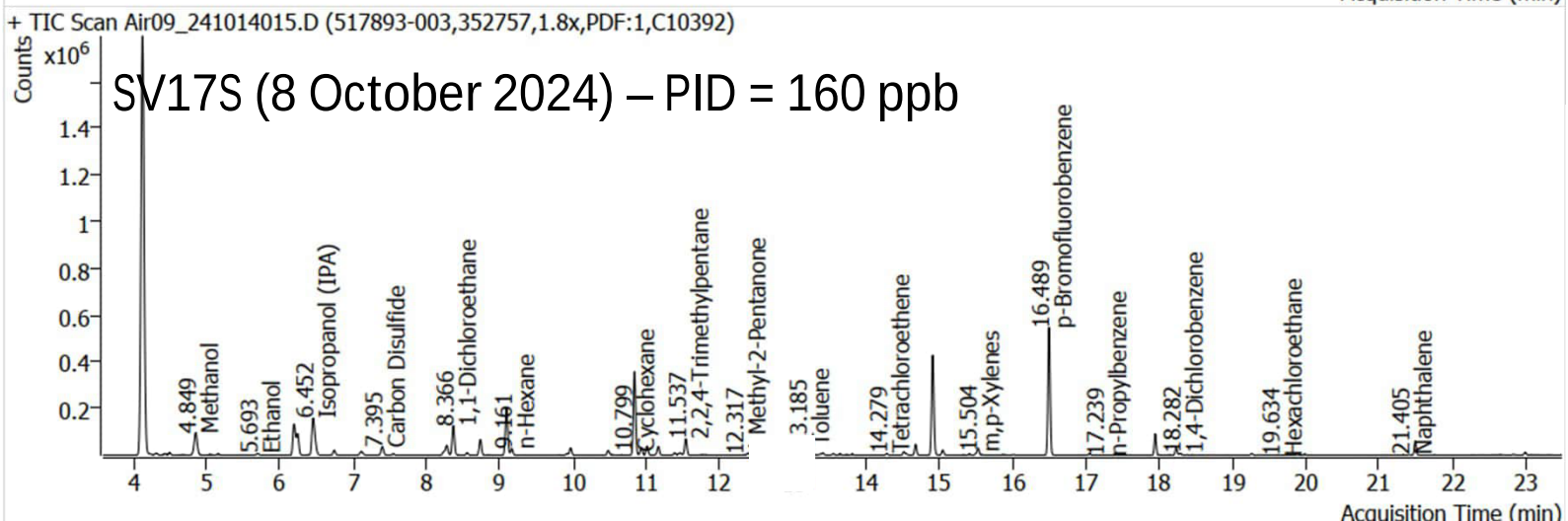
October 2024
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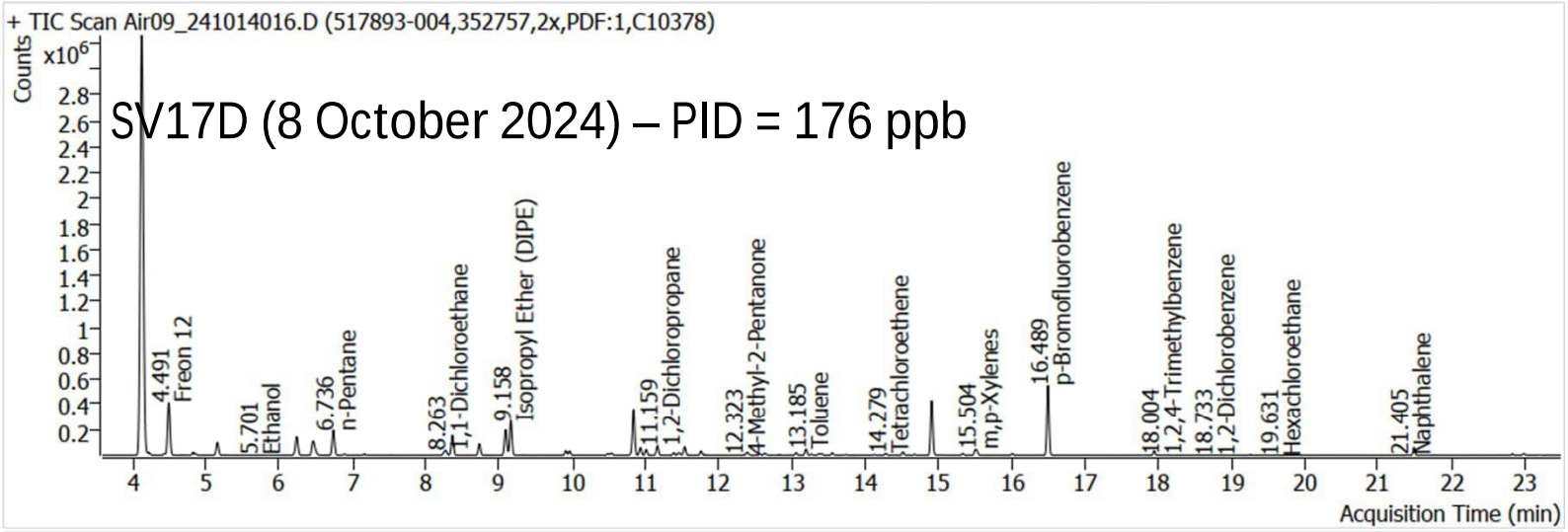
Mass Spec Chromatograms

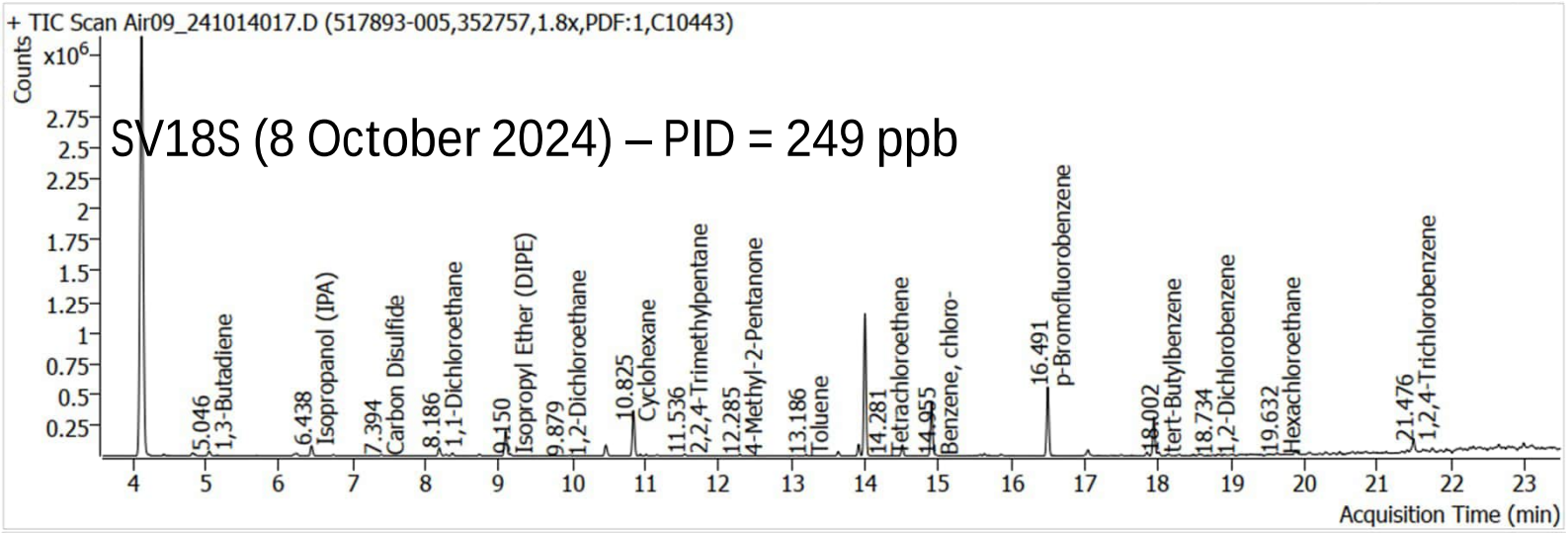

+ TIC Scan Air09_241014005.D (BLANK,QC1195073,352757,1x,PDF:1,)
Lab Blank
Counts
x10^5
5.377 Bromomethane
6.243 Acetone
7.108 Methylene Chloride
8.338 MTBE
10.824 Cyclohexane
13.185 Toluene
14.951 Benzene, chloro-
16.006 o-Xylene
16.489 p-Bromofluorobenzene
17.499 1,3,5-Trimethylbenzene
18.285 1,4-Dichlorobenzene
19.331 1,2-Dibromo-3-chloropropane
21.230 1,2,4-Trichlorobenzene
21.980 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

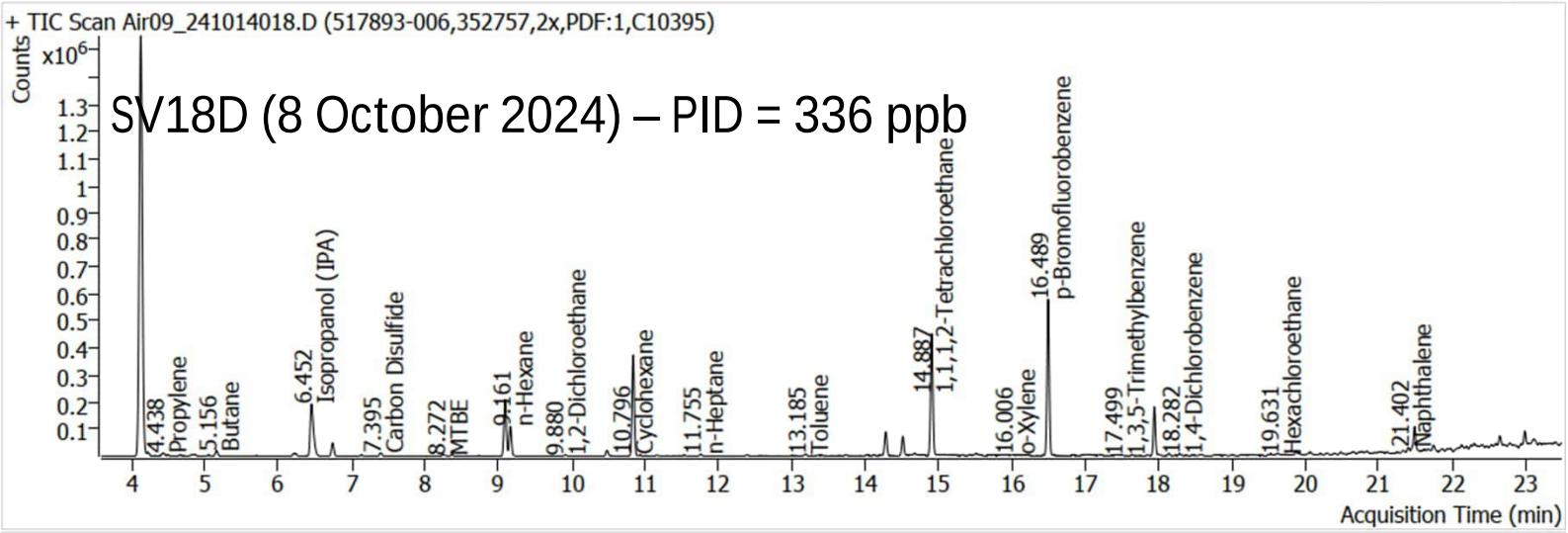

+ TIC Scan Air09_241014013.D (517893-001,352757,2x,PDF:1,C10309)
SV15S (8 October 2024) – PID = 44 ppb
Counts
x10^6
4.495 Freon 12
5.698 Ethanol
6.449 Isopropanol (IPA)
7.383 Freon 113
8.365 1,1-Dichloroethane
9.152 Ethyl Acetate
10.817 Cyclohexane
11.537 2,2,4-Trimethylpentane
13.185 Toluene
14.276 Tetrachloroethene
15.501 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.230 n-Propylbenzene
18.282 1,4-Dichlorobenzene
19.123 n-Butylbenzene
21.405 Naphthalene
Acquisition Time (min)

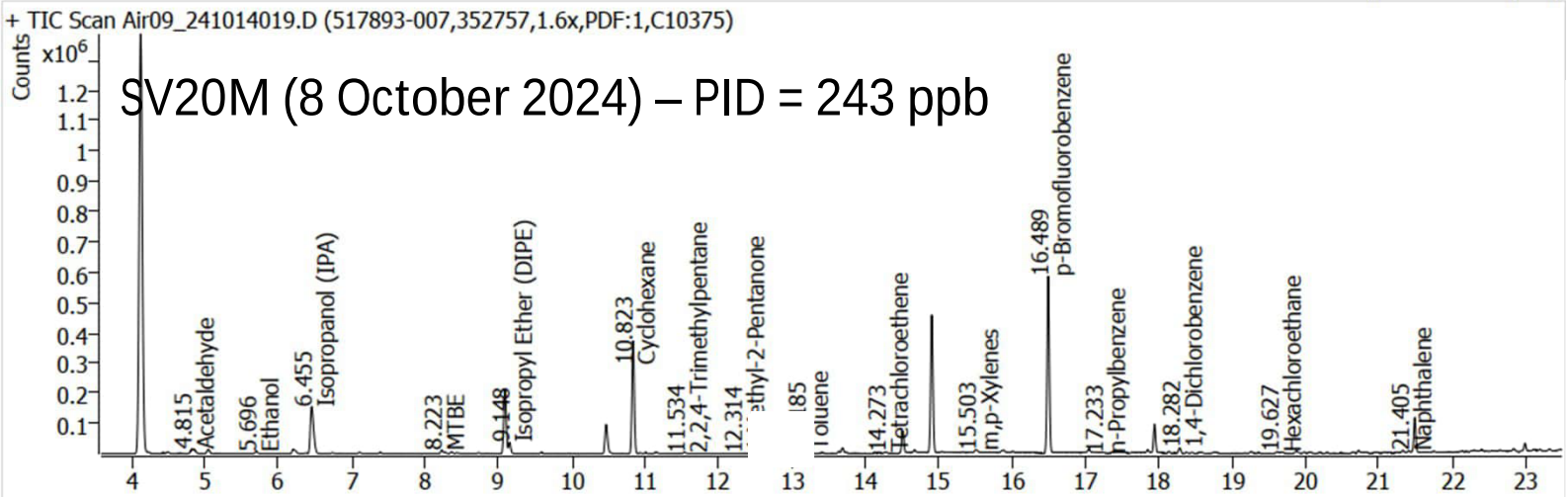

+ TIC Scan Air09_241014014.D (517893-002,352757,2x,PDF:1,C10056)
SV15D (8 October 2024) – PID = 49 ppb
Counts
x10^6
4.491 Freon 12
5.701 Ethanol
6.455 Isopropanol (IPA)
7.137 Tert-butyl alcohol (TBA)
8.359 1,1-Dichloroethane
9.158 Ethyl Acetate
10.802 Cyclohexane
11.537 2,2,4-Trimethylpentane
13.188 Toluene
14.276 Tetrachloroethene
15.501 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.230 n-Propylbenzene
18.004 1,2,4-Trimethylbenzene
18.742 1,2-Dichlorobenzene
19.733 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)

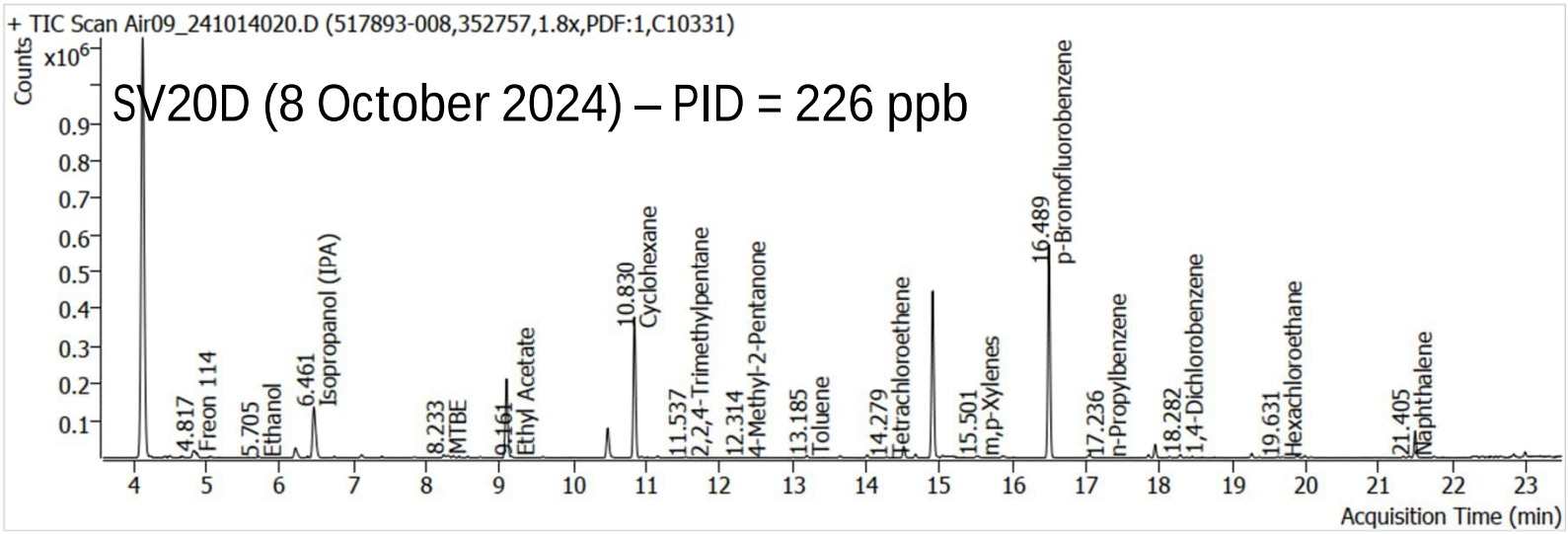

+ TIC Scan Air09_241014015.D (517893-003,352757,1.8x,PDF:1,C10392)
SV17S (8 October 2024) – PID = 160 ppb
Counts
x10^6
4.849 Methanol
5.693 Ethanol
6.452 Isopropanol (IPA)
7.395 Carbon Disulfide
8.366 1,1-Dichloroethane
9.161 n-Hexane
10.799 Cyclohexane
11.537 2,2,4-Trimethylpentane
12.317 Methyl-2-Pentanone
3.185 Toluene
14.279 Tetrachloroethene
15.504 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.239 n-Propylbenzene
18.282 1,4-Dichlorobenzene
19.634 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_241014016.D (517893-004,352757,2x,PDF:1,C10378)
Counts
x10^6
SV17D (8 October 2024) – PID = 176 ppb
4.491 Freon 12
5.701 Ethanol
6.736 n-Pentane
8.263 1,1-Dichloroethane
9.158 Isopropyl Ether (DIPE)
11.159 1,2-Dichloropropane
12.323 4-Methyl-2-Pentanone
13.185 Toluene
14.279 Tetrachloroethene
15.504 m,p-Xylenes
16.489 p-Bromofluorobenzene
18.004 1,2,4-Trimethylbenzene
18.733 1,2-Dichlorobenzene
19.631 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_241014017.D (517893-005,352757,1.8x,PDF:1,C10443)
Counts
x10^6
SV18S (8 October 2024) – PID = 249 ppb
5.046 1,3-Butadiene
6.438 Isopropanol (IPA)
7.394 Carbon Disulfide
8.186 1,1-Dichloroethane
9.150 Isopropyl Ether (DIPE)
9.879 1,2-Dichloroethane
10.825 Cyclohexane
11.536 2,2,4-Trimethylpentane
12.285 4-Methyl-2-Pentanone
13.186 Toluene
14.281 Tetrachloroethene
14.955 Benzene, chloro-
16.491 p-Bromofluorobenzene
18.002 tert-Butylbenzene
18.734 1,2-Dichlorobenzene
19.632 Hexachloroethane
21.476 1,2,4-Trichlorobenzene
Acquisition Time (min)

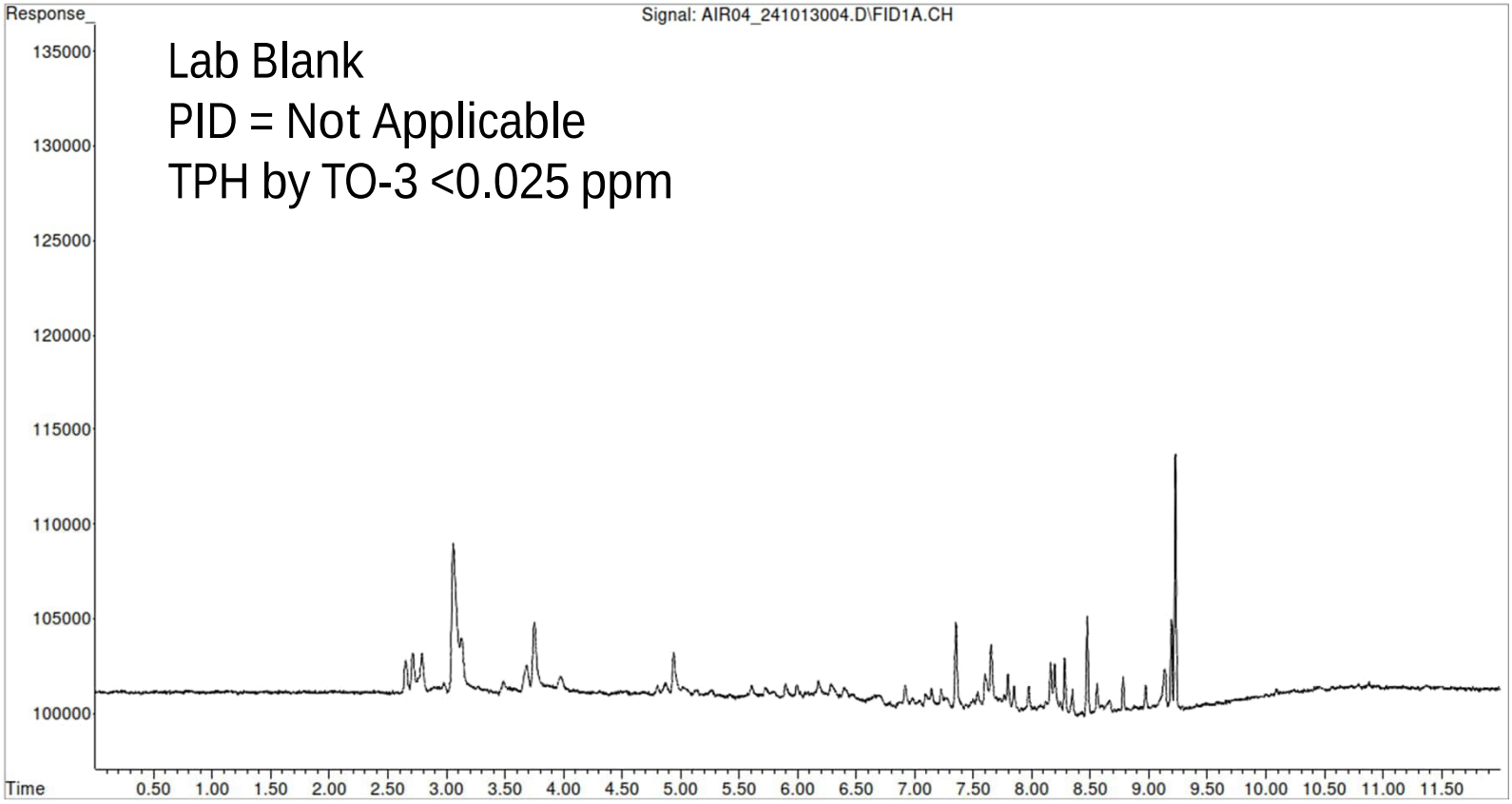

+ TIC Scan Air09_241014018.D (517893-006,352757,2x,PDF:1,C10395)
Counts
x10^6
SV18D (8 October 2024) – PID = 336 ppb
4.438 Propylene
5.156 Butane
6.452 Isopropanol (IPA)
7.395 Carbon Disulfide
8.272 MTBE
9.161 n-Hexane
9.880 1,2-Dichloroethane
10.796 Cyclohexane
11.755 n-Heptane
13.185 Toluene
14.887 1,1,1,2-Tetrachloroethane
16.006 o-Xylene
16.489 p-Bromofluorobenzene
17.499 1,3,5-Trimethylbenzene
18.282 1,4-Dichlorobenzene
19.631 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)

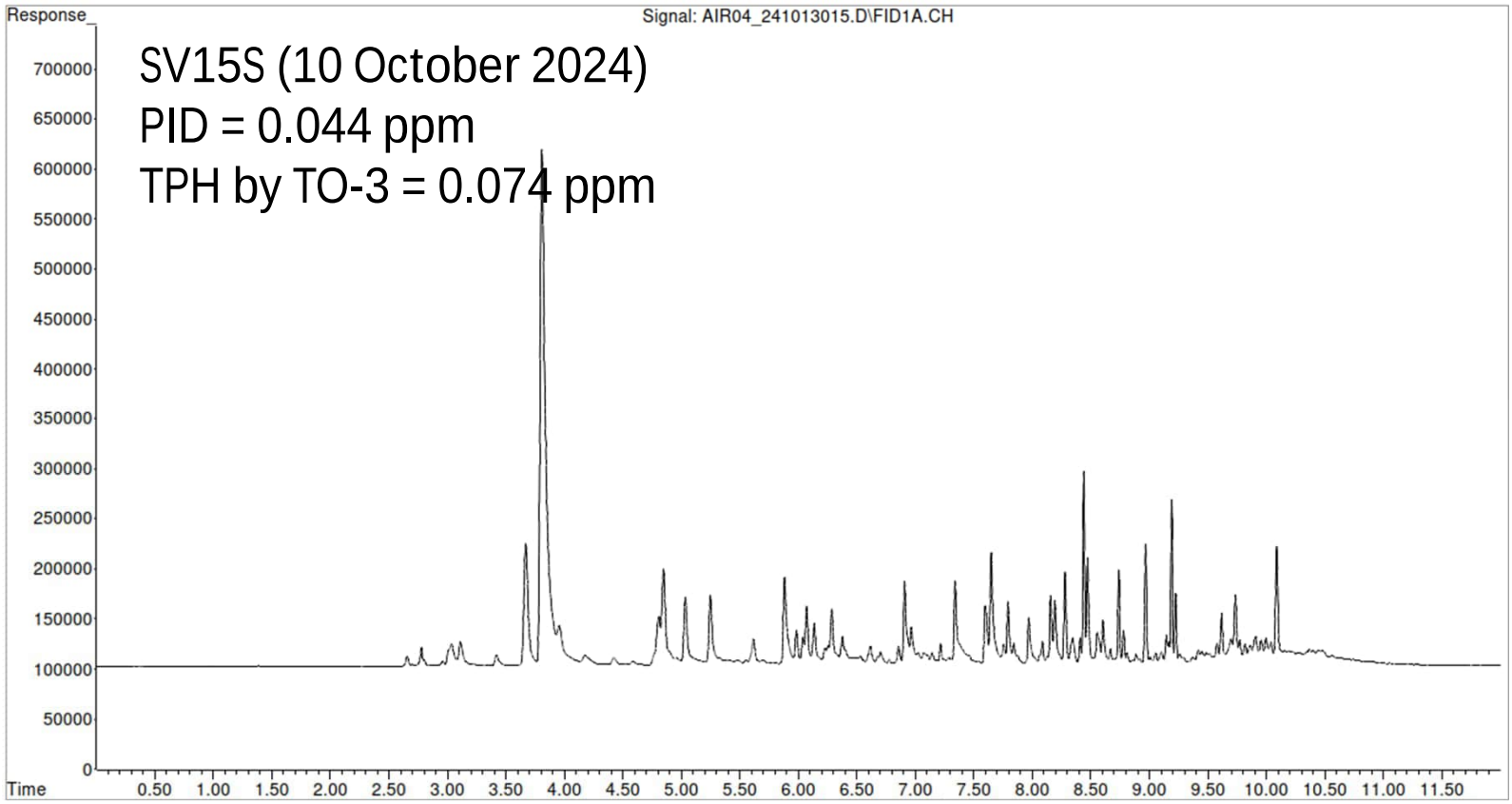

+ TIC Scan Air09_241014019.D (517893-007,352757,1.6x,PDF:1,C10375)
Counts
x10^6
SV20M (8 October 2024) – PID = 243 ppb
4.815 Acetaldehyde
5.696 Ethanol
6.455 Isopropanol (IPA)
8.223 MTBE
9.148 Isopropyl Ether (DIPE)
10.823 Cyclohexane
11.534 2,2,4-Trimethylpentane
12.314 ethyl-2-Pentanone
Toluene
14.273 Tetrachloroethene
15.503 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.233 n-Propylbenzene
18.282 1,4-Dichlorobenzene
19.627 Hexachloroethane
21.405 Naphthalene

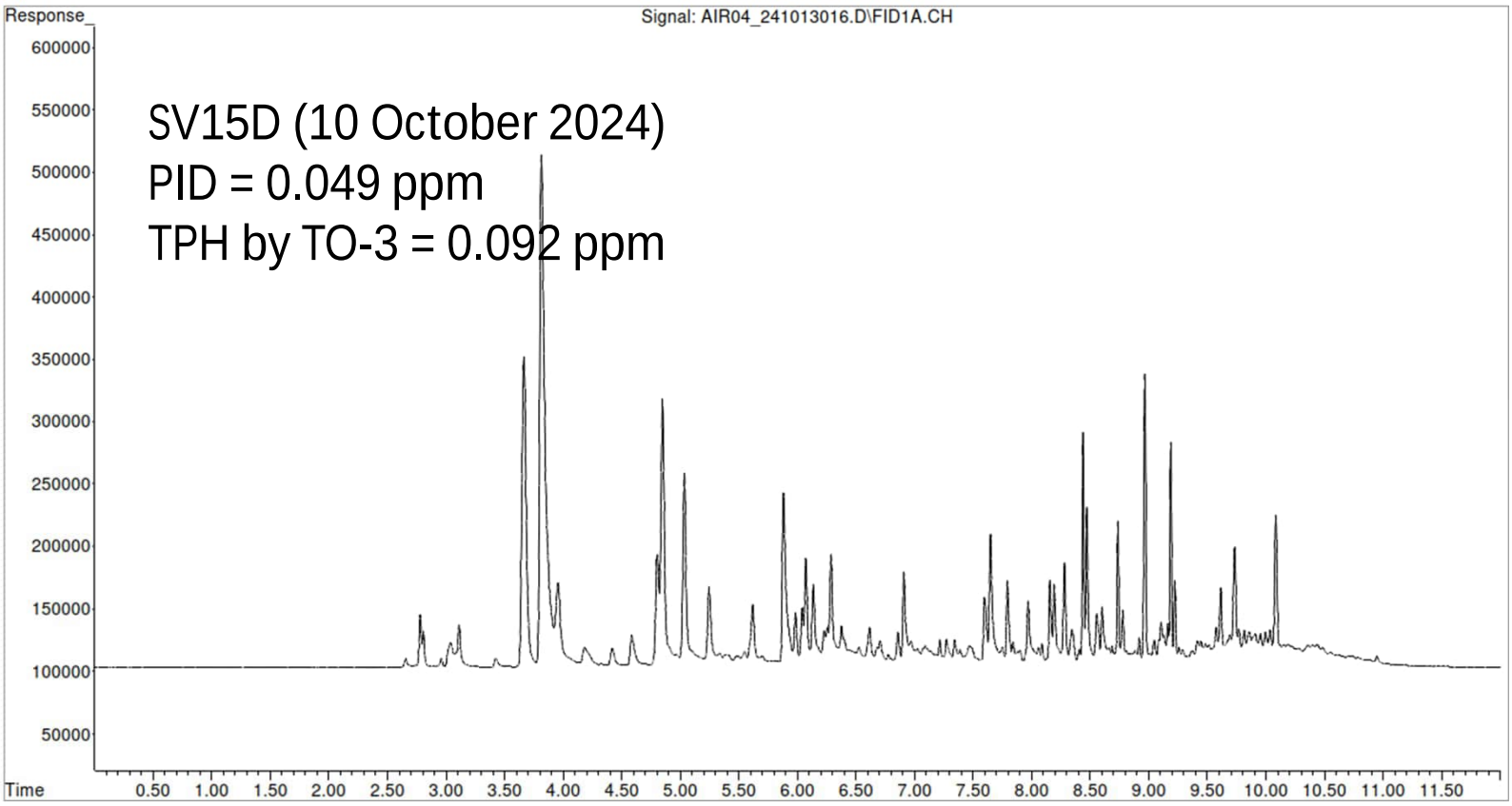

+ TIC Scan Air09_241014020.D (517893-008,352757,1.8x,PDF:1,C10331)
Counts
x10^6
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
SV20D (8 October 2024) – PID = 226 ppb
4.817 Freon 114
5.705 Ethanol
6.461 Isopropanol (IPA)
8.233 MTBE
9.161 Ethyl Acetate
10.830 Cyclohexane
11.537 2,2,4-Trimethylpentane
12.314 4-Methyl-2-Pentanone
13.185 Toluene
14.279 Tetrachloroethene
15.501 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.236 n-Propylbenzene
18.282 1,4-Dichlorobenzene
19.631 Hexachloroethane
21.405 Naphthalene
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Acquisition Time (min)

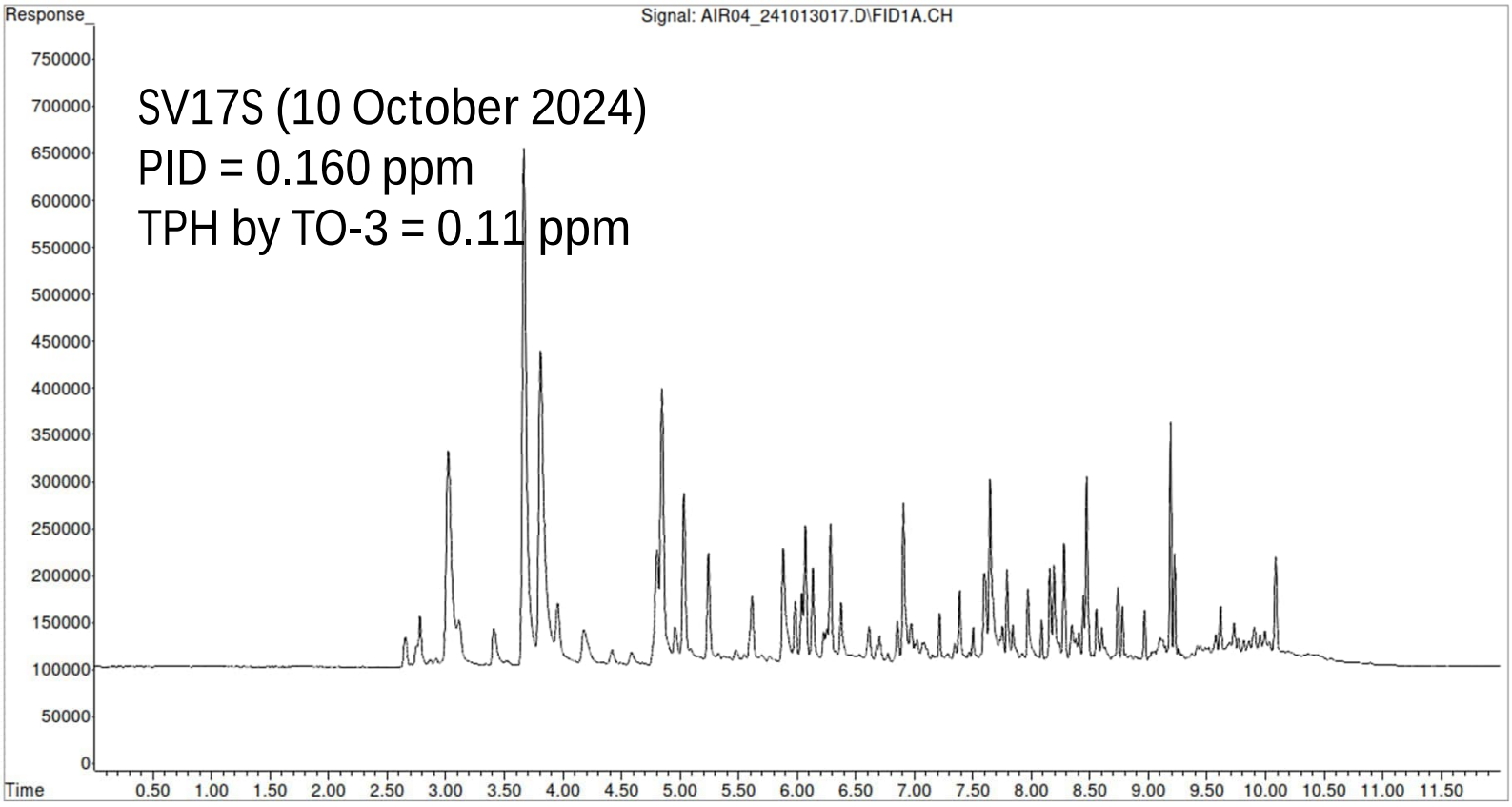
October 2024
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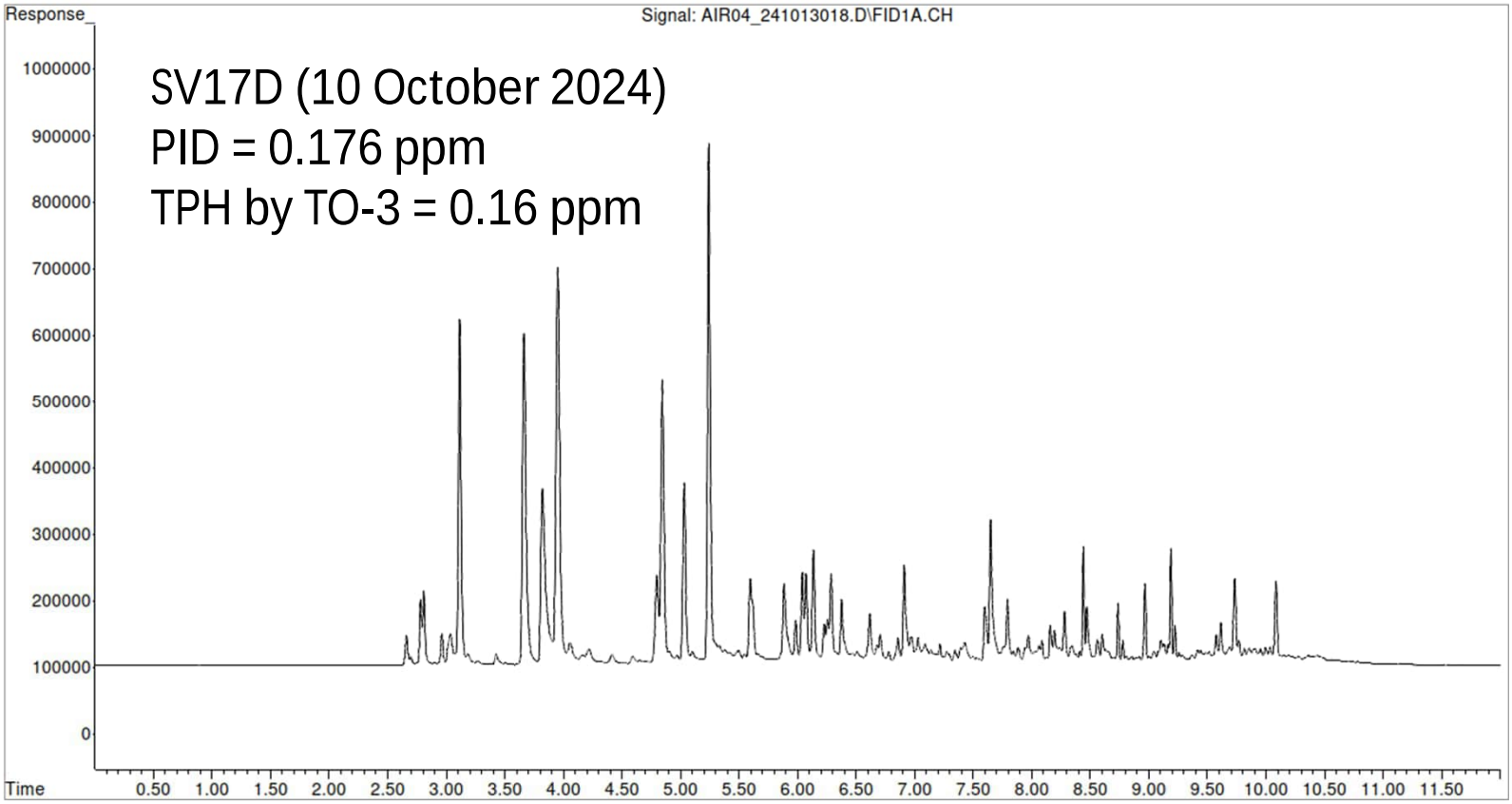
FID Chromatograms

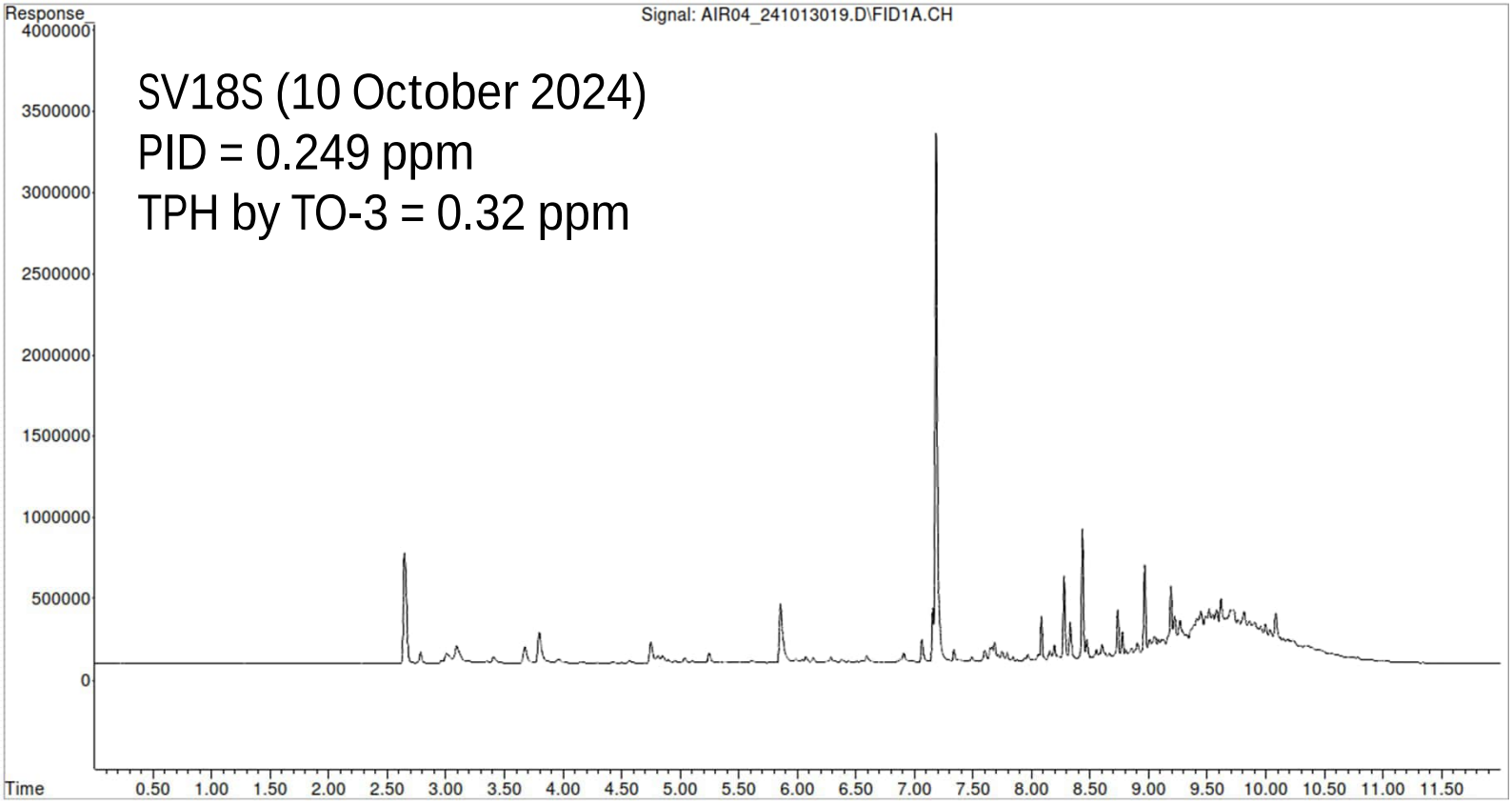

Response_
Signal: AIR04_241013004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
135000
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

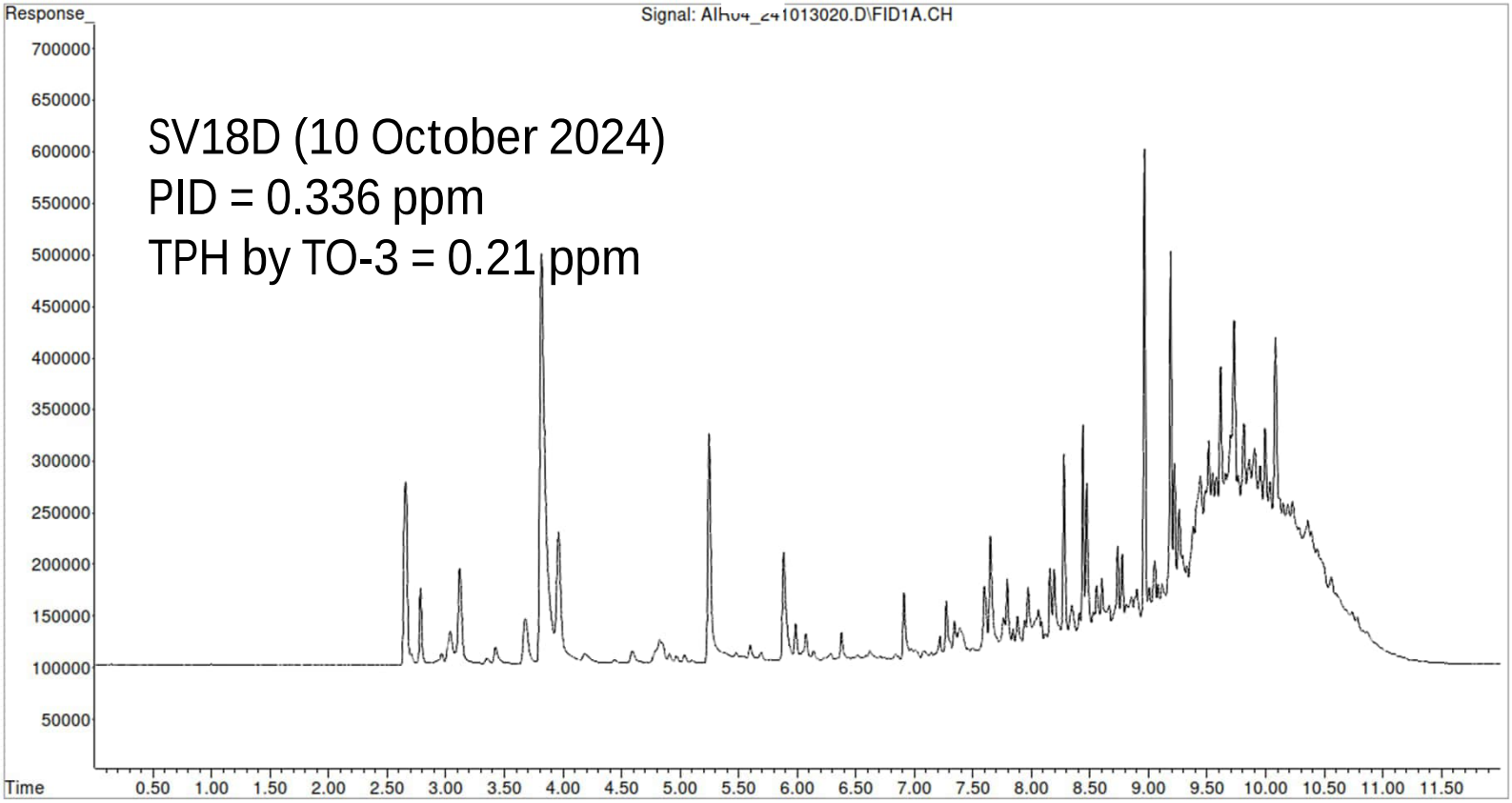

Response_
Signal: AIR04_241013015.D\FID1A.CH
SV15S (10 October 2024)
PID = 0.044 ppm
TPH by TO-3 = 0.074 ppm
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

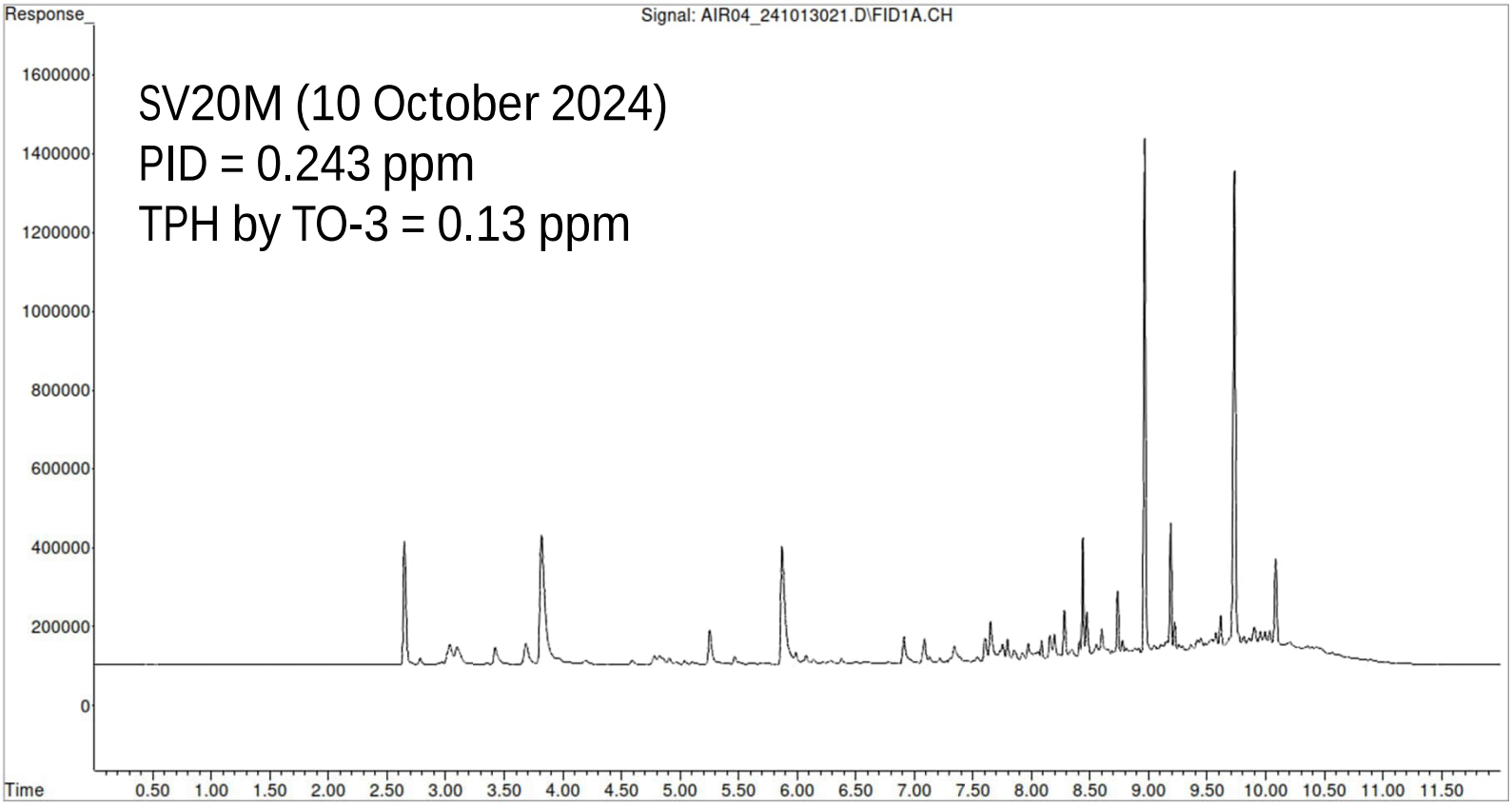

Response_
Signal: AIR04_241013016.D\FID1A.CH
SV15D (10 October 2024)
PID = 0.049 ppm
TPH by TO-3 = 0.092 ppm
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

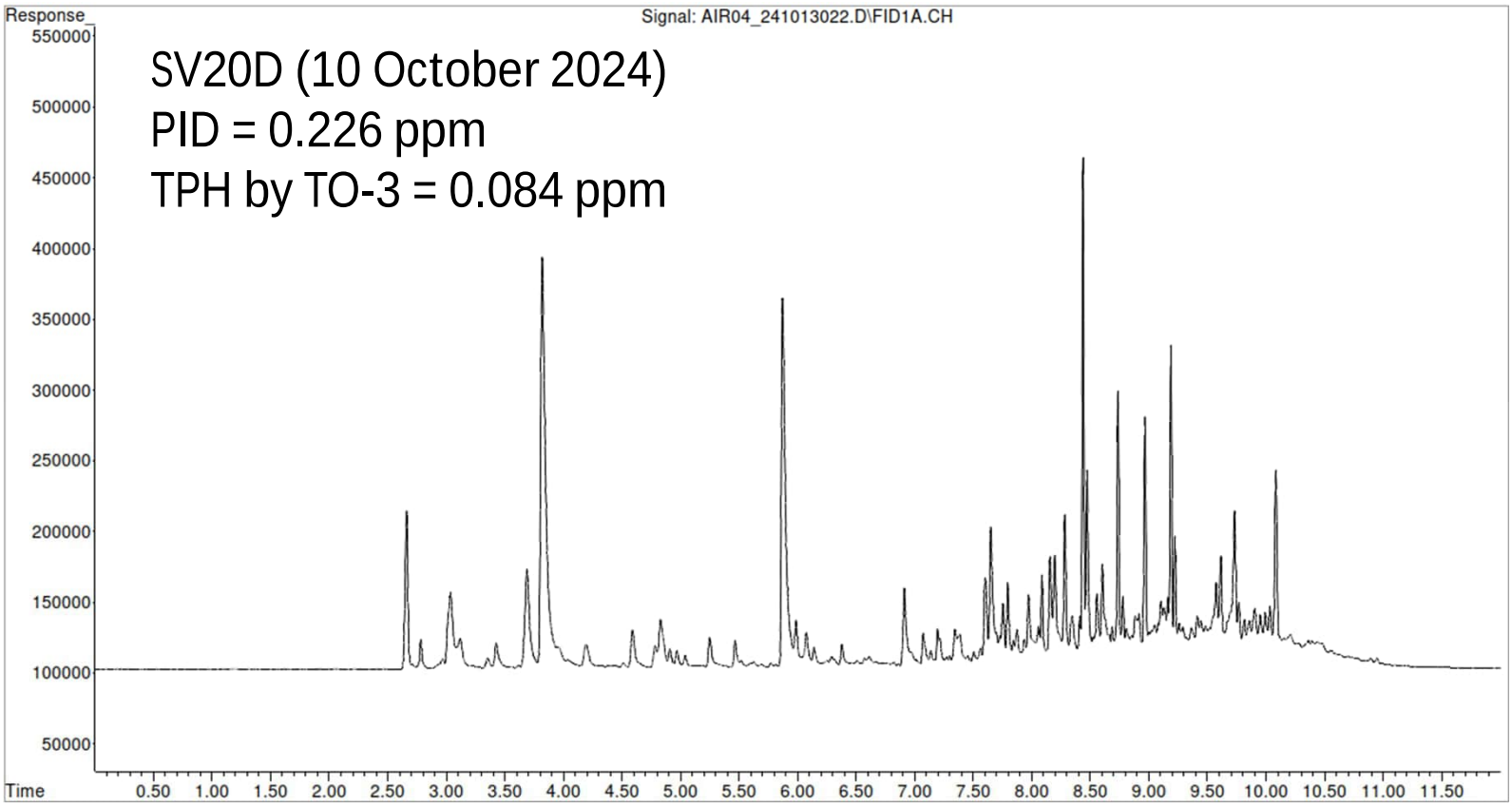

Response_
Signal: AIR04_241013017.D\FID1A.CH
SV17S (10 October 2024)
PID = 0.160 ppm
TPH by TO-3 = 0.11 ppm
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_241013018.D\FID1A.CH
SV17D (10 October 2024)
PID = 0.176 ppm
TPH by TO-3 = 0.16 ppm
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_241013019.D\FID1A.CH
SV18S (10 October 2024)
PID = 0.249 ppm
TPH by TO-3 = 0.32 ppm
4000000
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

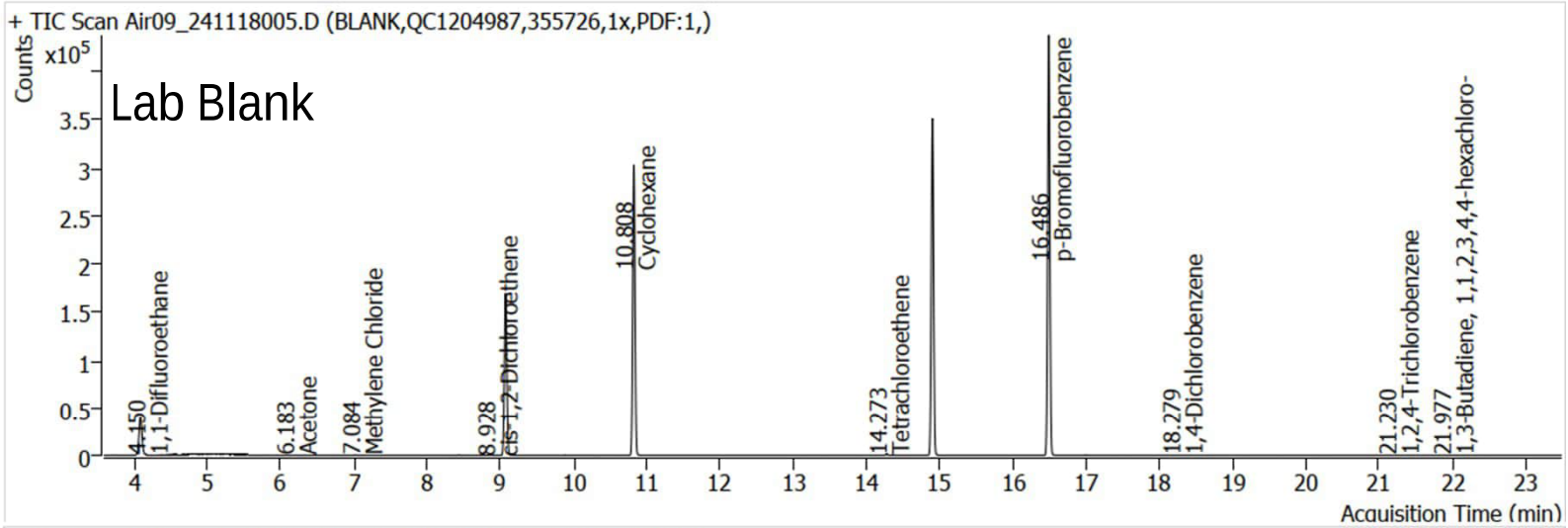

Response_
Signal: AIR04_241013020.D\FID1A.CH
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV18D (10 October 2024)
PID = 0.336 ppm
TPH by TO-3 = 0.21 ppm

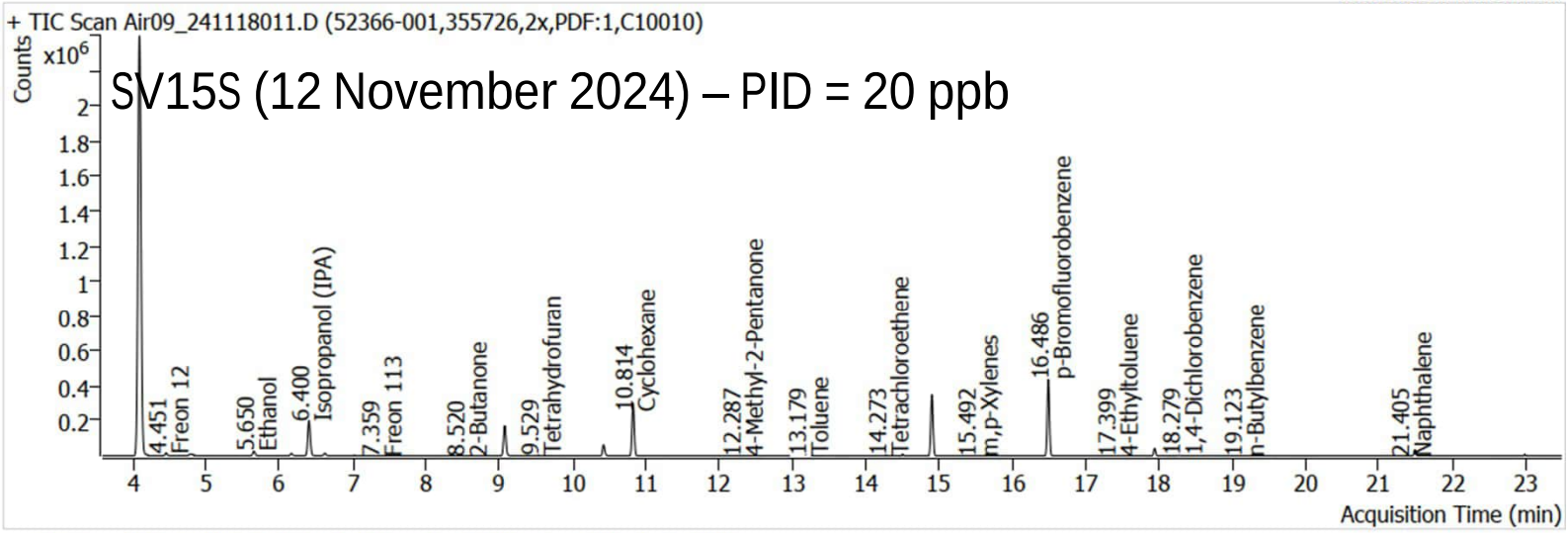

Response_
Signal: AIR04_241013021.D\FID1A.CH
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV20M (10 October 2024)
PID = 0.243 ppm
TPH by TO-3 = 0.13 ppm

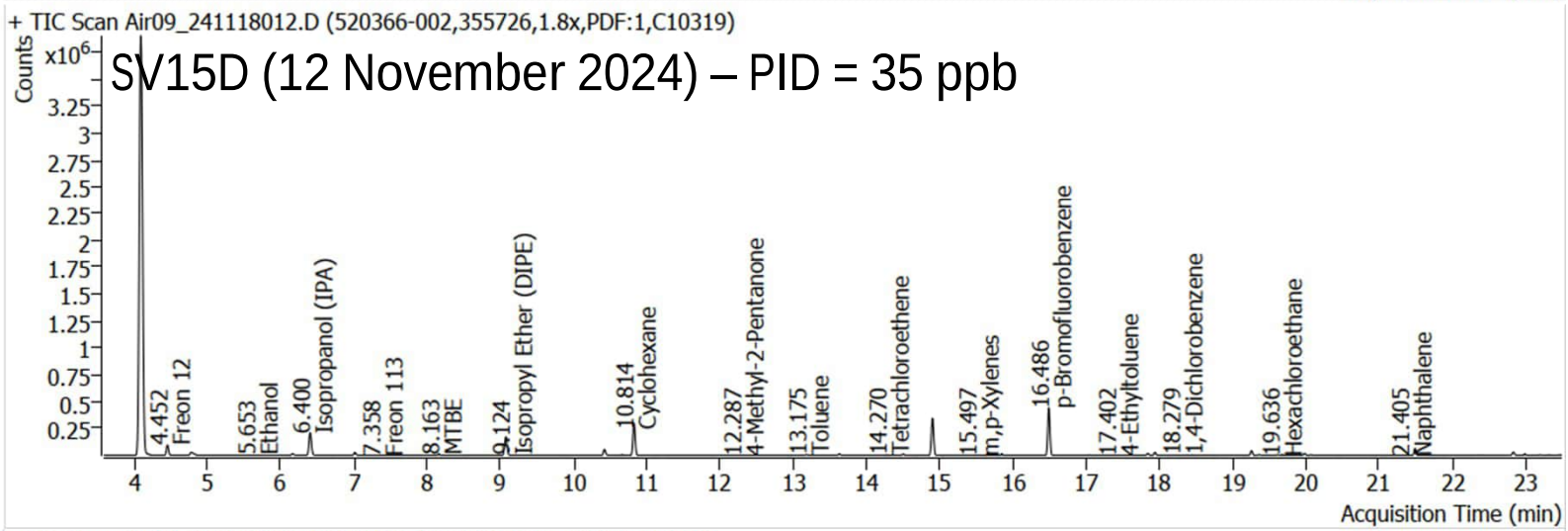

Response_
Signal: AIR04_241013022.D\FID1A.CH
SV20D (10 October 2024)
PID = 0.226 ppm
TPH by TO-3 = 0.084 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

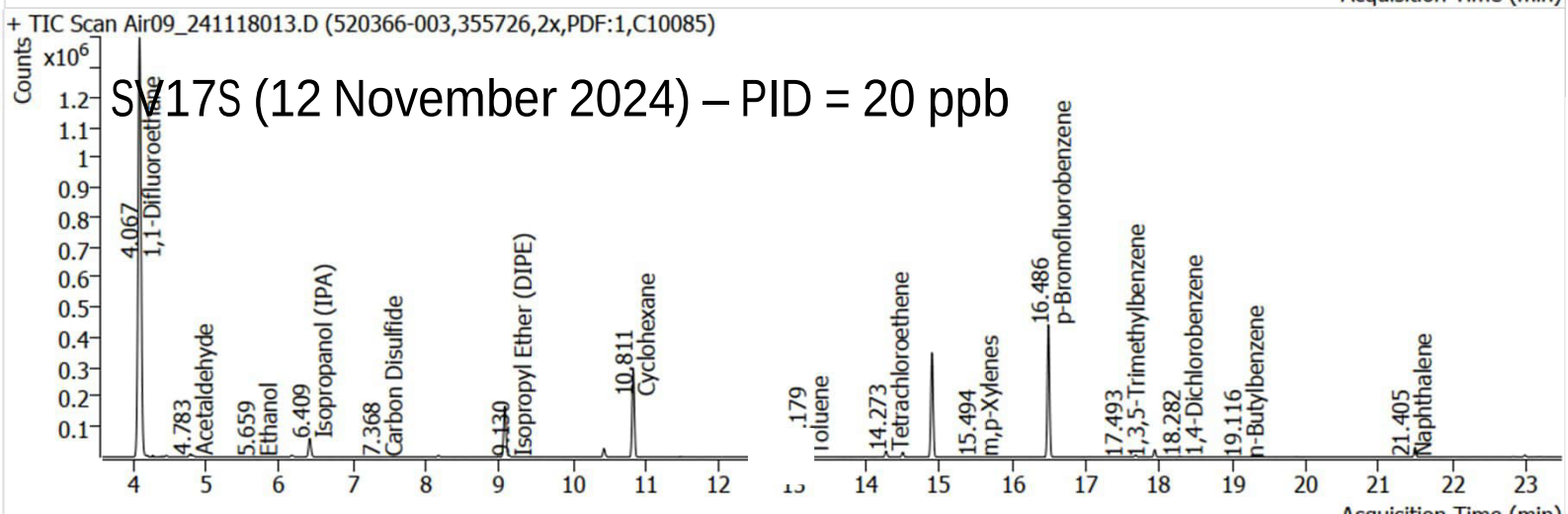
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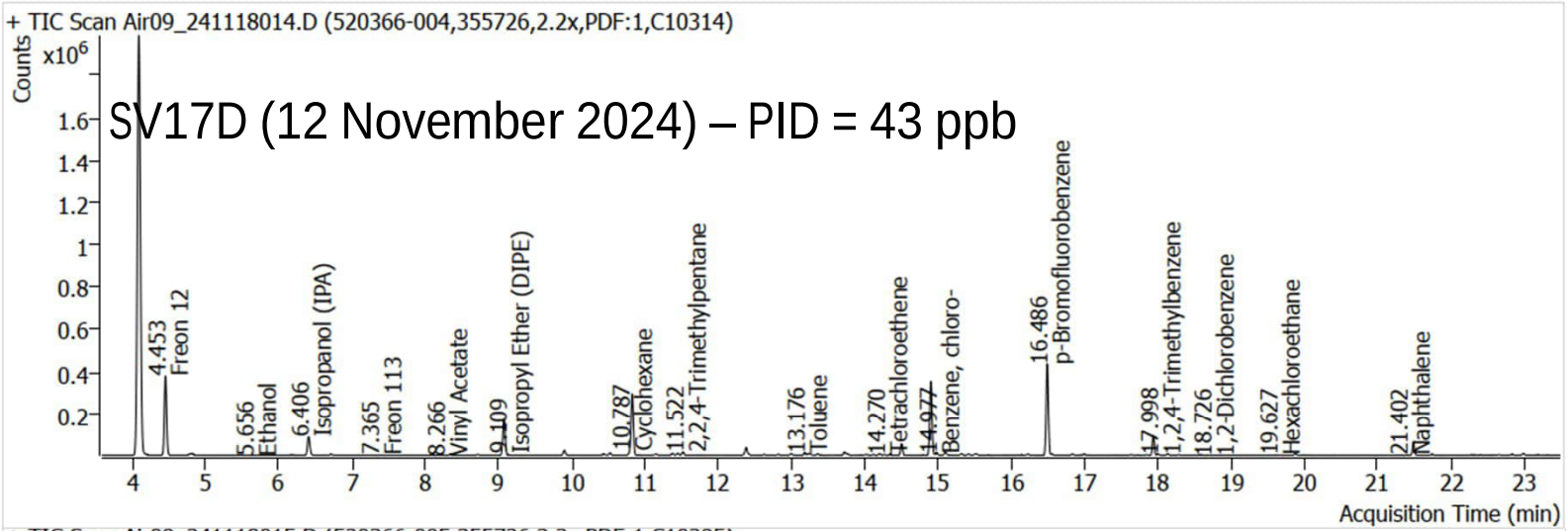
Mass Spec Chromatograms

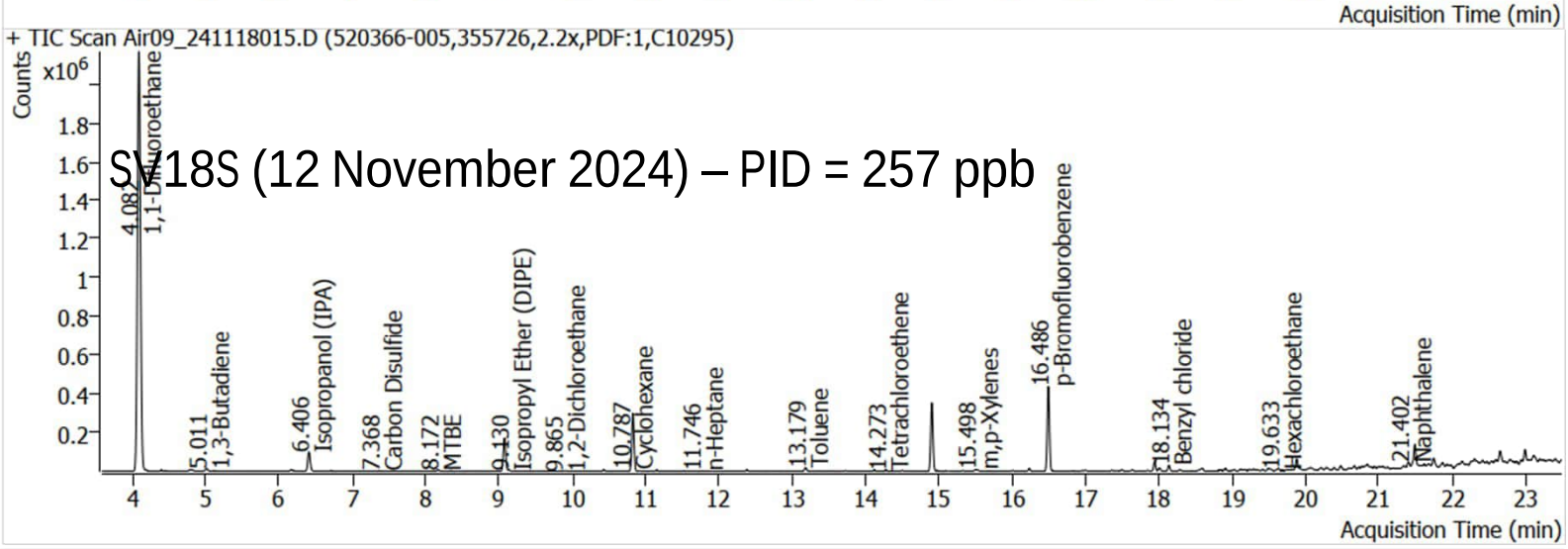

+ TIC Scan Air09_241118005.D (BLANK,QC1204987,355726,1x,PDF:1,)
Lab Blank
Counts
x10^5
4.150
1,1-Difluoroethane
6.183
Acetone
7.084
Methylene Chloride
8.928
cis-1,2-Dichloroethene
10.808
Cyclohexane
14.273
Tetrachloroethene
16.486
p-Bromofluorobenzene
18.279
1,4-Dichlorobenzene
21.230
1,2,4-Trichlorobenzene
21.977
1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

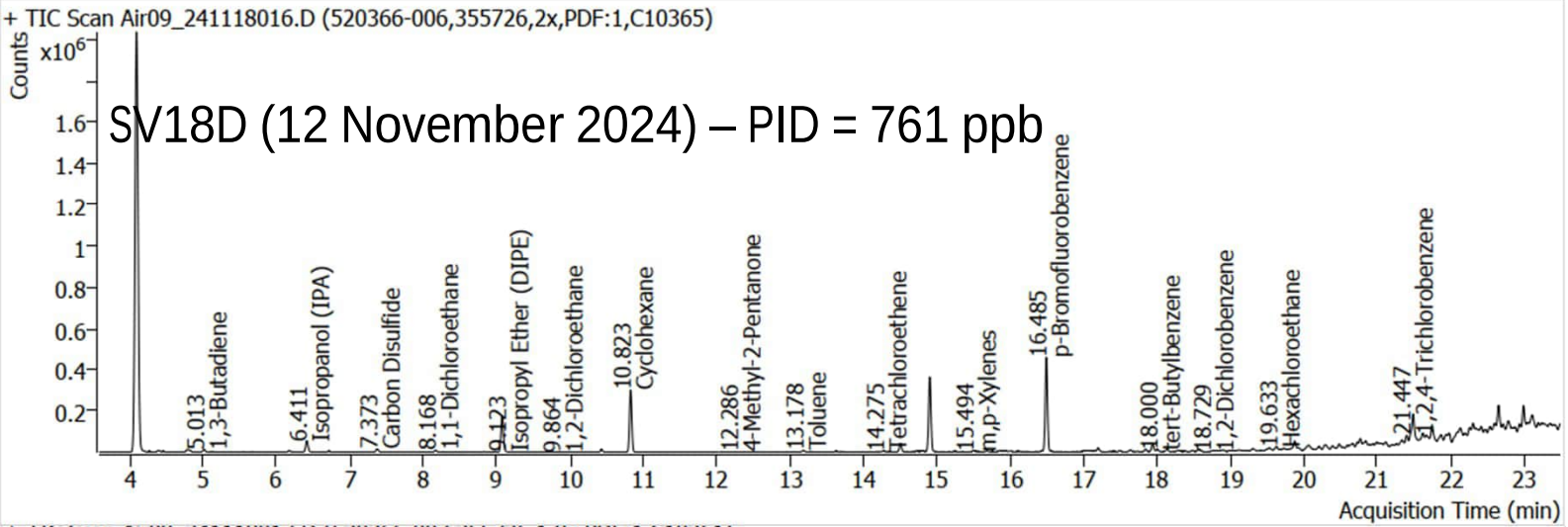

+ TIC Scan Air09_241118011.D (52366-001,355726,2x,PDF:1,C10010)
SV15S (12 November 2024) – PID = 20 ppb
Counts
x10^6
4.451
Freon 12
5.650
Ethanol
6.400
Isopropanol (IPA)
7.359
Freon 113
8.520
2-Butanone
9.529
Tetrahydrofuran
10.814
Cyclohexane
12.287
4-Methyl-2-Pentanone
13.179
Toluene
14.273
Tetrachloroethene
15.492
m,p-Xylenes
16.486
p-Bromofluorobenzene
17.399
4-Ethyltoluene
18.279
1,4-Dichlorobenzene
19.123
n-Butylbenzene
21.405
Naphthalene
Acquisition Time (min)

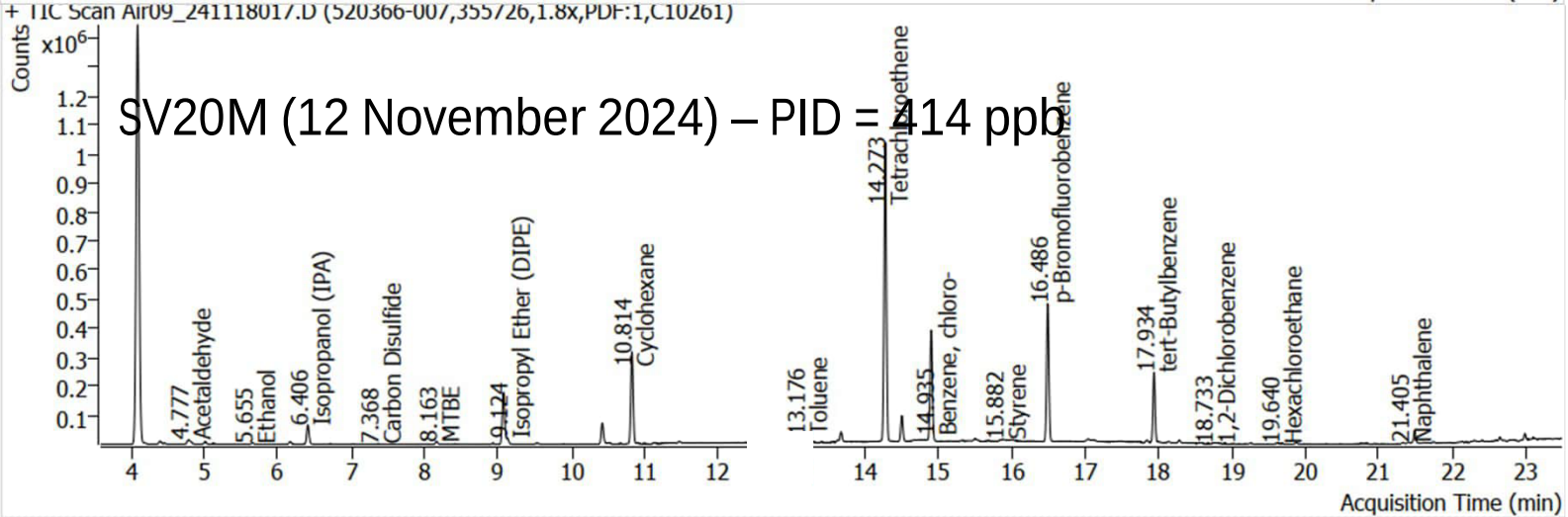

+ TIC Scan Air09_241118012.D (520366-002,355726,1.8x,PDF:1,C10319)
SV15D (12 November 2024) – PID = 35 ppb
Counts
x10^6
4.452
Freon 12
5.653
Ethanol
6.400
Isopropanol (IPA)
7.358
Freon 113
8.163
MTBE
9.124
Isopropyl Ether (DIPE)
10.814
Cyclohexane
12.287
4-Methyl-2-Pentanone
13.175
Toluene
14.270
Tetrachloroethene
15.497
m,p-Xylenes
16.486
p-Bromofluorobenzene
17.402
4-Ethyltoluene
18.279
1,4-Dichlorobenzene
19.636
Hexachloroethane
21.405
Naphthalene
Acquisition Time (min)

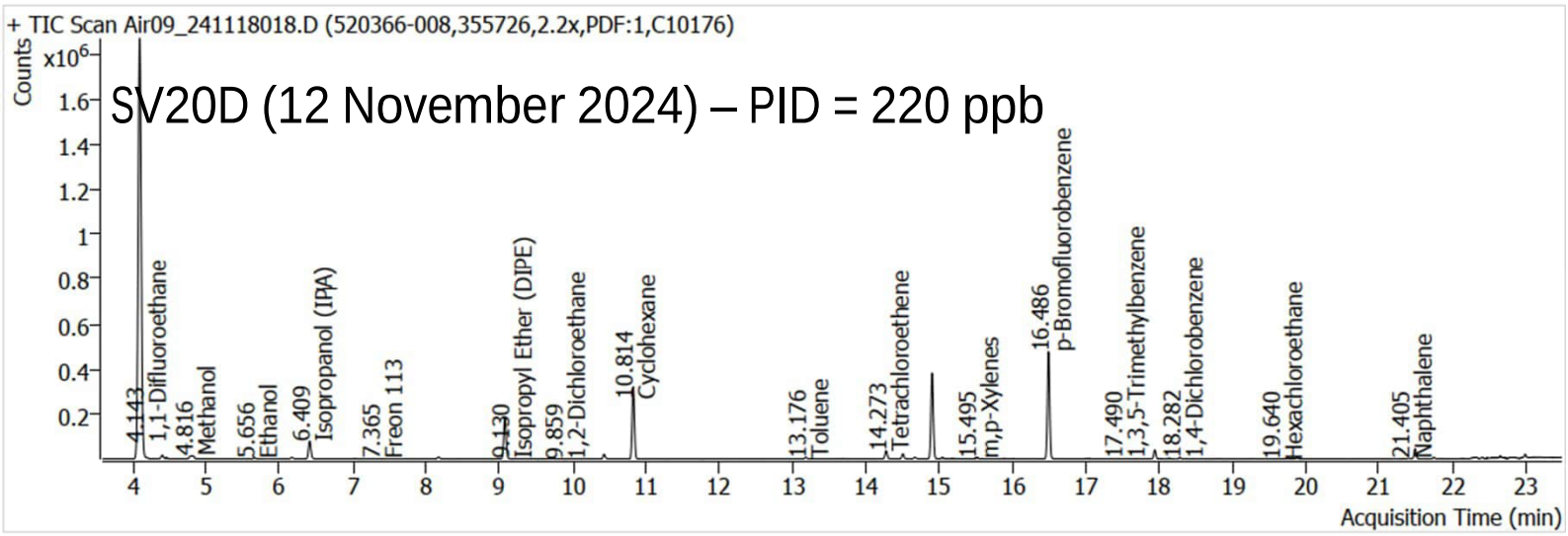

+ TIC Scan Air09_241118013.D (520366-003,355726,2x,PDF:1,C10085)
SV17S (12 November 2024) – PID = 20 ppb
Counts
x10^6
4.067
1,1-Difluoroethane
4.783
Acetaldehyde
5.659
Ethanol
6.409
Isopropanol (IPA)
7.368
Carbon Disulfide
9.130
Isopropyl Ether (DIPE)
10.811
Cyclohexane
13.179
Toluene
14.273
Tetrachloroethene
15.494
m,p-Xylenes
16.486
p-Bromofluorobenzene
17.493
1,3,5-Trimethylbenzene
18.282
1,4-Dichlorobenzene
19.116
n-Butylbenzene
21.405
Naphthalene


+ TIC Scan Air09_241118014.D (520366-004,355726,2.2x,PDF:1,C10314)
Counts
x10^6
SV17D (12 November 2024) – PID = 43 ppb
4.453 Freon 12
5.656 Ethanol
6.406 Isopropanol (IPA)
7.365 Freon 113
8.266 Vinyl Acetate
9.109 Isopropyl Ether (DIPE)
10.787 Cyclohexane
11.522 2,2,4-Trimethylpentane
13.176 Toluene
14.270 Tetrachloroethene
14.977 Benzene, chloro-
16.486 p-Bromofluorobenzene
17.998 1,2,4-Trimethylbenzene
18.726 1,2-Dichlorobenzene
19.627 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_241118015.D (520366-005,355726,2.2x,PDF:1,C10295)
Counts
x10^6
SV18S (12 November 2024) – PID = 257 ppb
4.082 1,1-Dichloroethane
5.011 1,3-Butadiene
6.406 Isopropanol (IPA)
7.368 Carbon Disulfide
8.172 MTBE
9.130 Isopropyl Ether (DIPE)
9.865 1,2-Dichloroethane
10.787 Cyclohexane
11.746 n-Heptane
13.179 Toluene
14.273 Tetrachloroethene
15.498 m,p-Xylenes
16.486 p-Bromofluorobenzene
18.134 Benzyl chloride
19.633 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_241118016.D (520366-006,355726,2x,PDF:1,C10365)
Counts
x10^6
SV18D (12 November 2024) – PID = 761 ppb
5.013 1,3-Butadiene
6.411 Isopropanol (IPA)
7.373 Carbon Disulfide
8.168 1,1-Dichloroethane
9.123 Isopropyl Ether (DIPE)
9.864 1,2-Dichloroethane
10.823 Cyclohexane
12.286 4-Methyl-2-Pentanone
13.178 Toluene
14.275 Tetrachloroethene
15.494 m,p-Xylenes
16.485 p-Bromofluorobenzene
18.000 tert-Butylbenzene
18.729 1,2-Dichlorobenzene
19.633 Hexachloroethane
21.447 1,2,4-Trichlorobenzene
Acquisition Time (min)

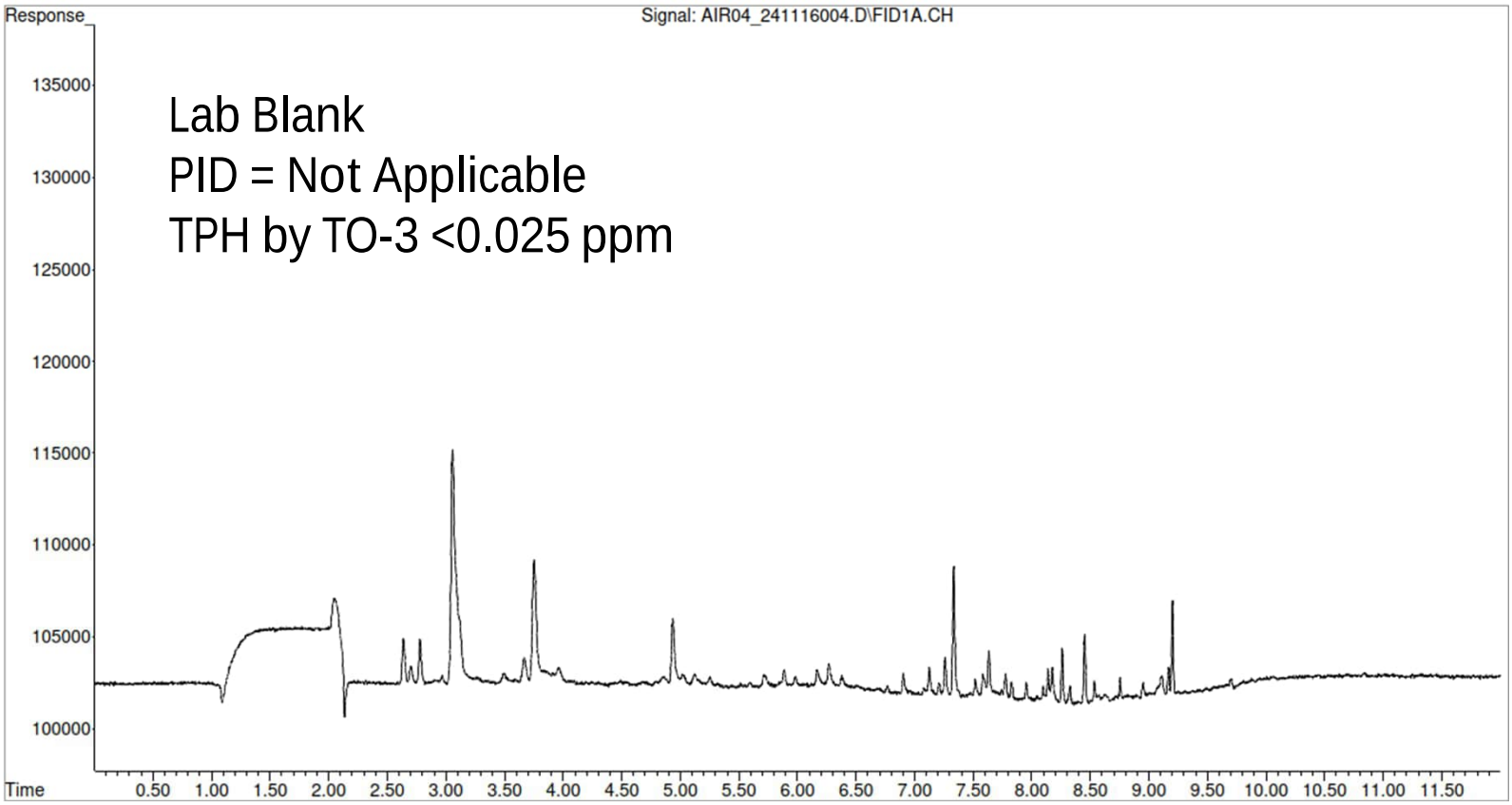

+ TIC Scan Air09_241118017.D (520366-007,355726,1.8x,PDF:1,C10261)
Counts
x10^6
SV20M (12 November 2024) – PID = 414 ppb
4.777 Acetaldehyde
5.655 Ethanol
6.406 Isopropanol (IPA)
7.368 Carbon Disulfide
8.163 MTBE
9.124 Isopropyl Ether (DIPE)
10.814 Cyclohexane
13.176 Toluene
14.273 Tetrachloroethene
14.935 Benzene, chloro-
15.882 Styrene
16.486 p-Bromofluorobenzene
17.934 tert-Butylbenzene
18.733 1,2-Dichlorobenzene
19.640 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)

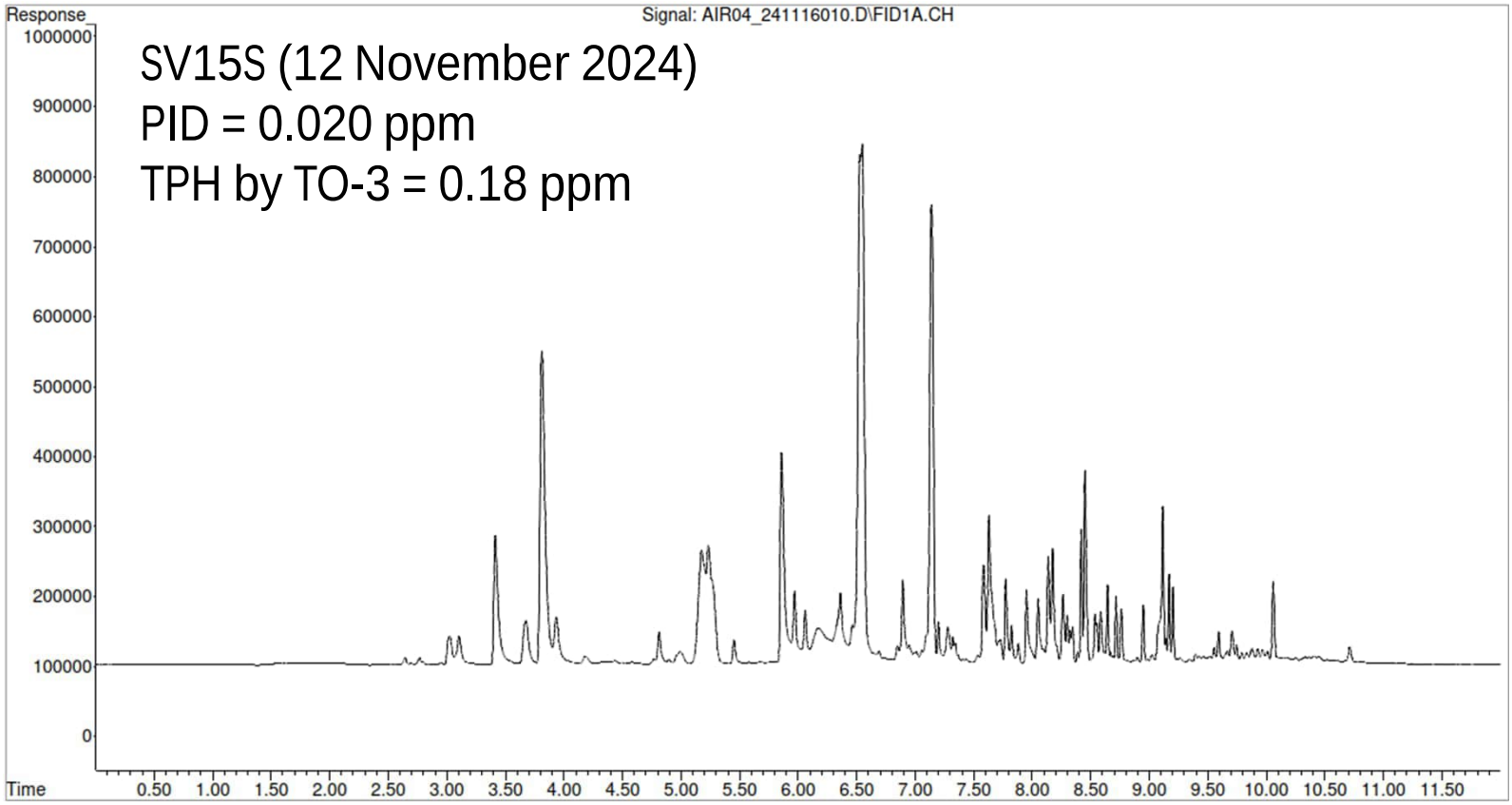


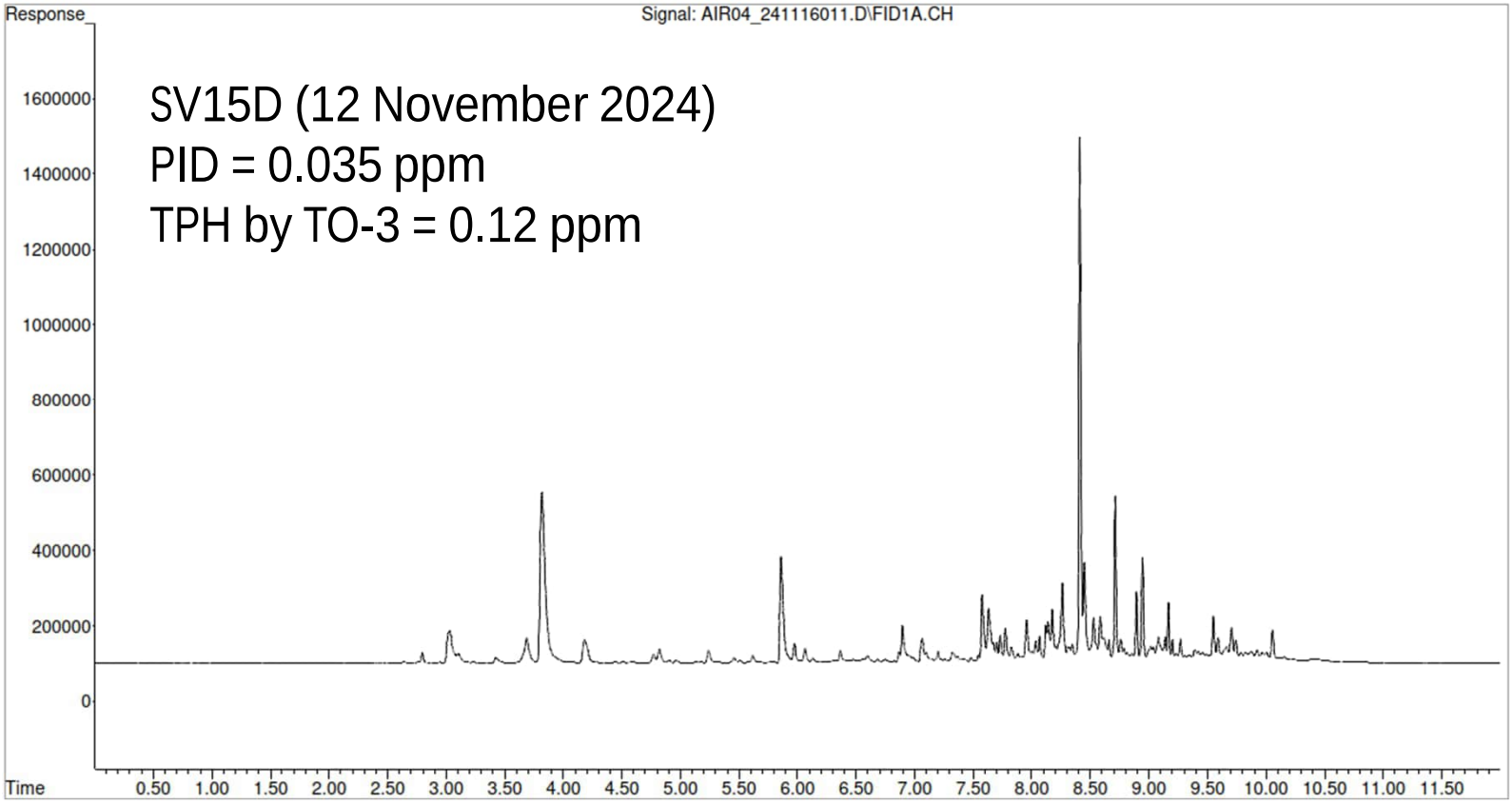
SV20D (12 November 2024) – PID = 220 ppb

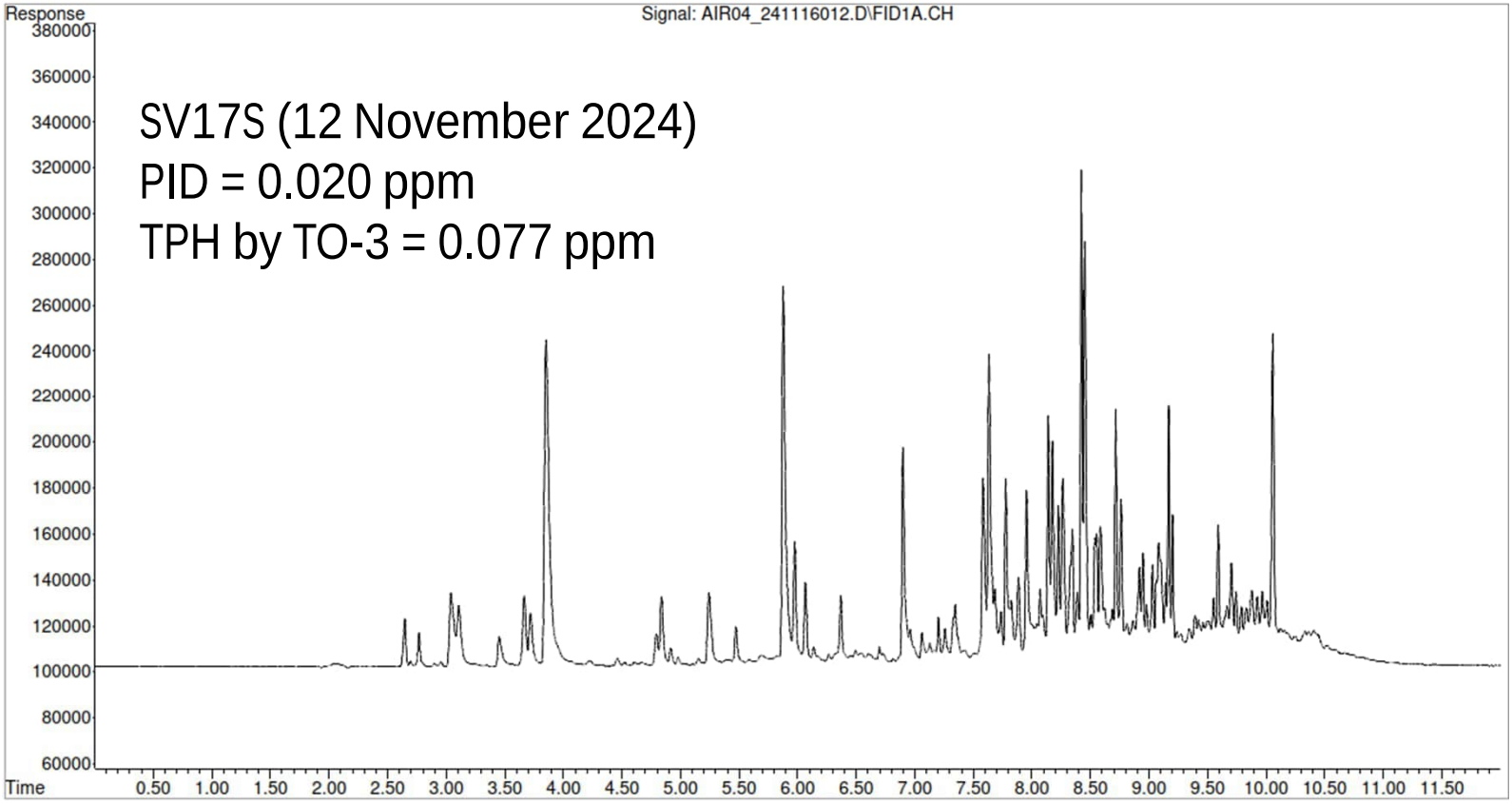
November 2024
Soil Vapor Samples

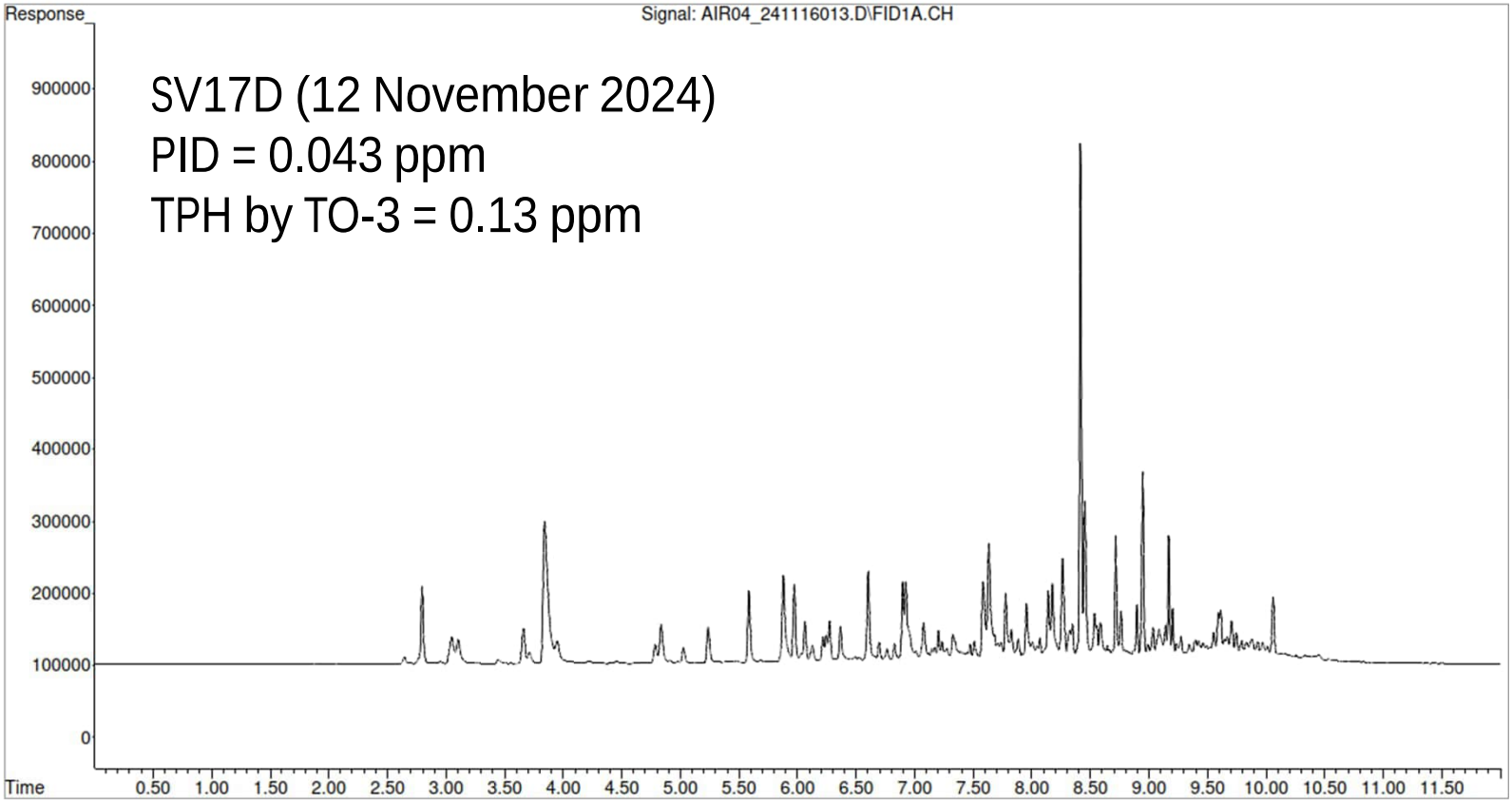
FID Chromatograms

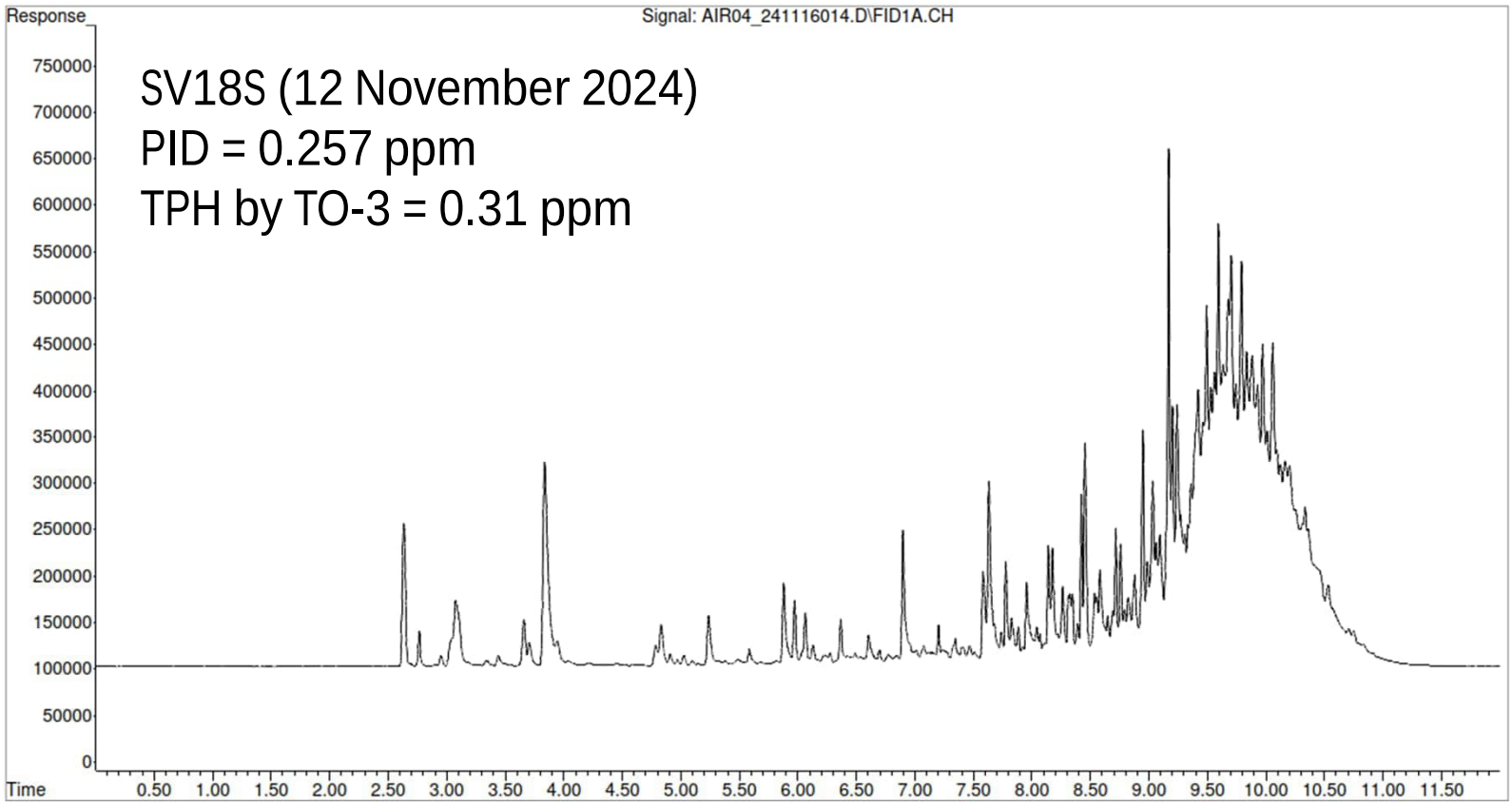

Response
Signal: AIR04_241116004.D\FID1A.CH
135000
130000
125000
120000
115000
110000
105000
100000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm

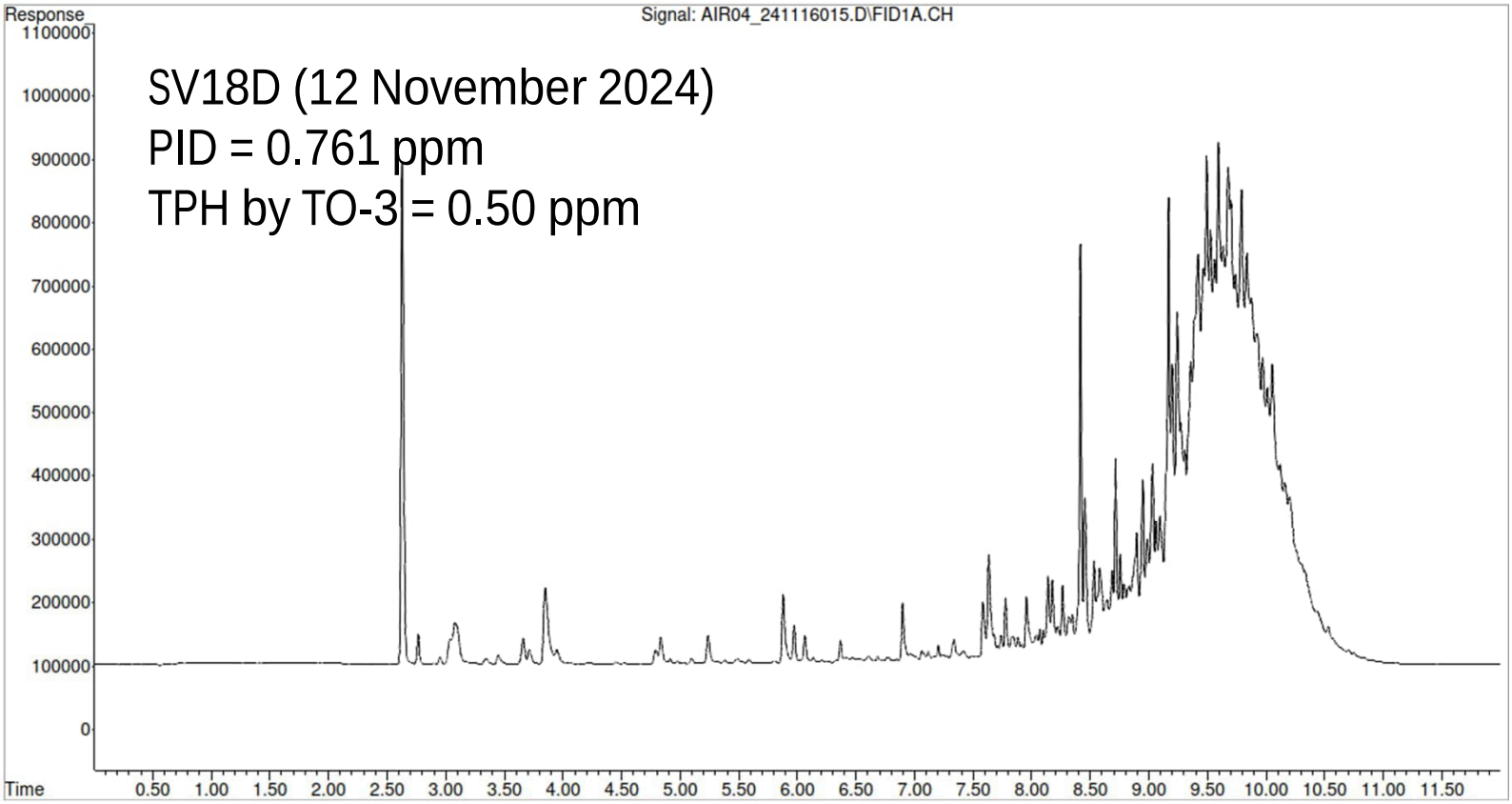

Response
Signal: AIR04_241116010.D\FID1A.CH
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50
SV15S (12 November 2024)
PID = 0.020 ppm
TPH by TO-3 = 0.18 ppm

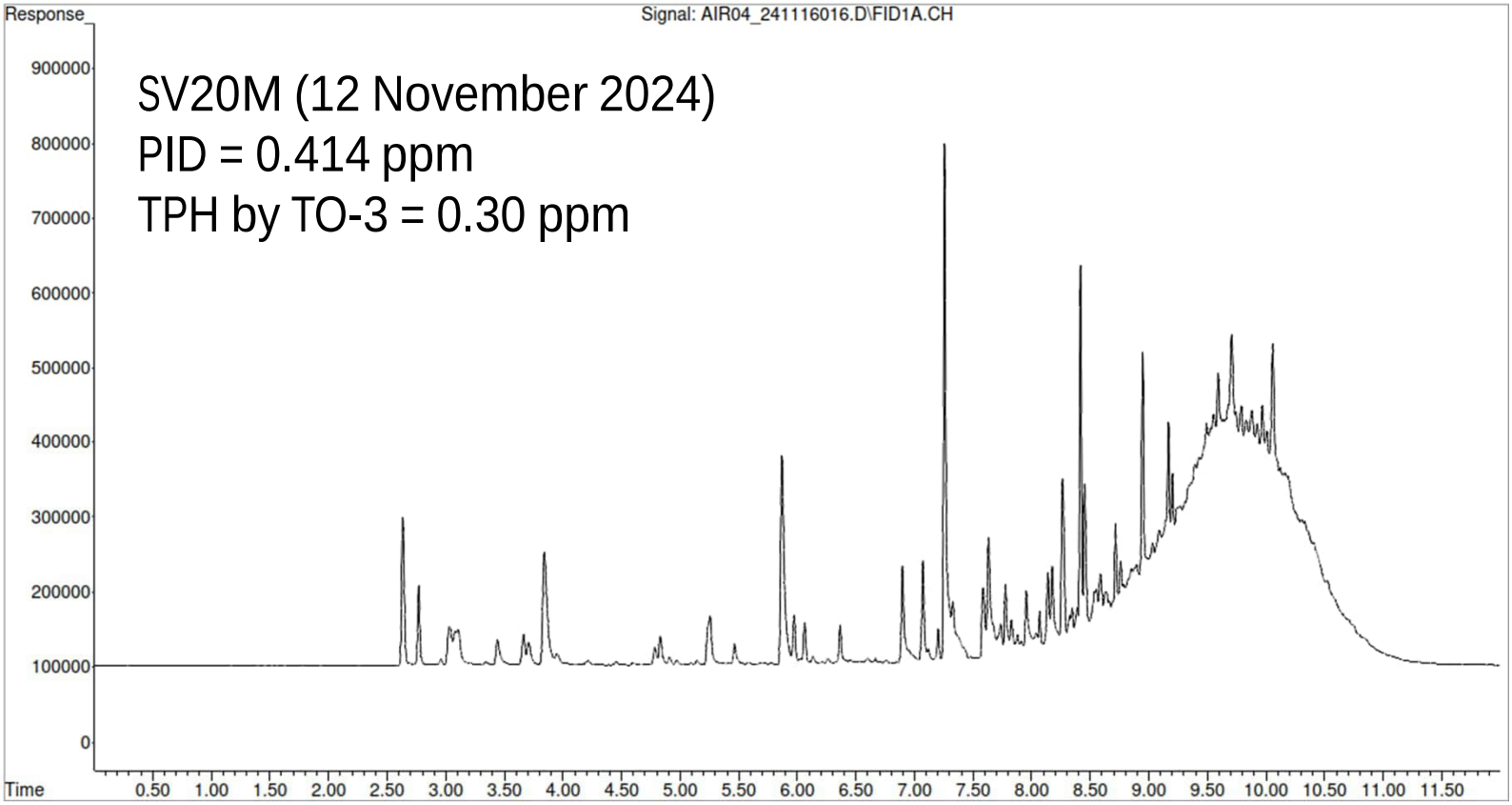

Response
Signal: AIR04_241116011.D\FID1A.CH
SV15D (12 November 2024)
PID = 0.035 ppm
TPH by TO-3 = 0.12 ppm
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

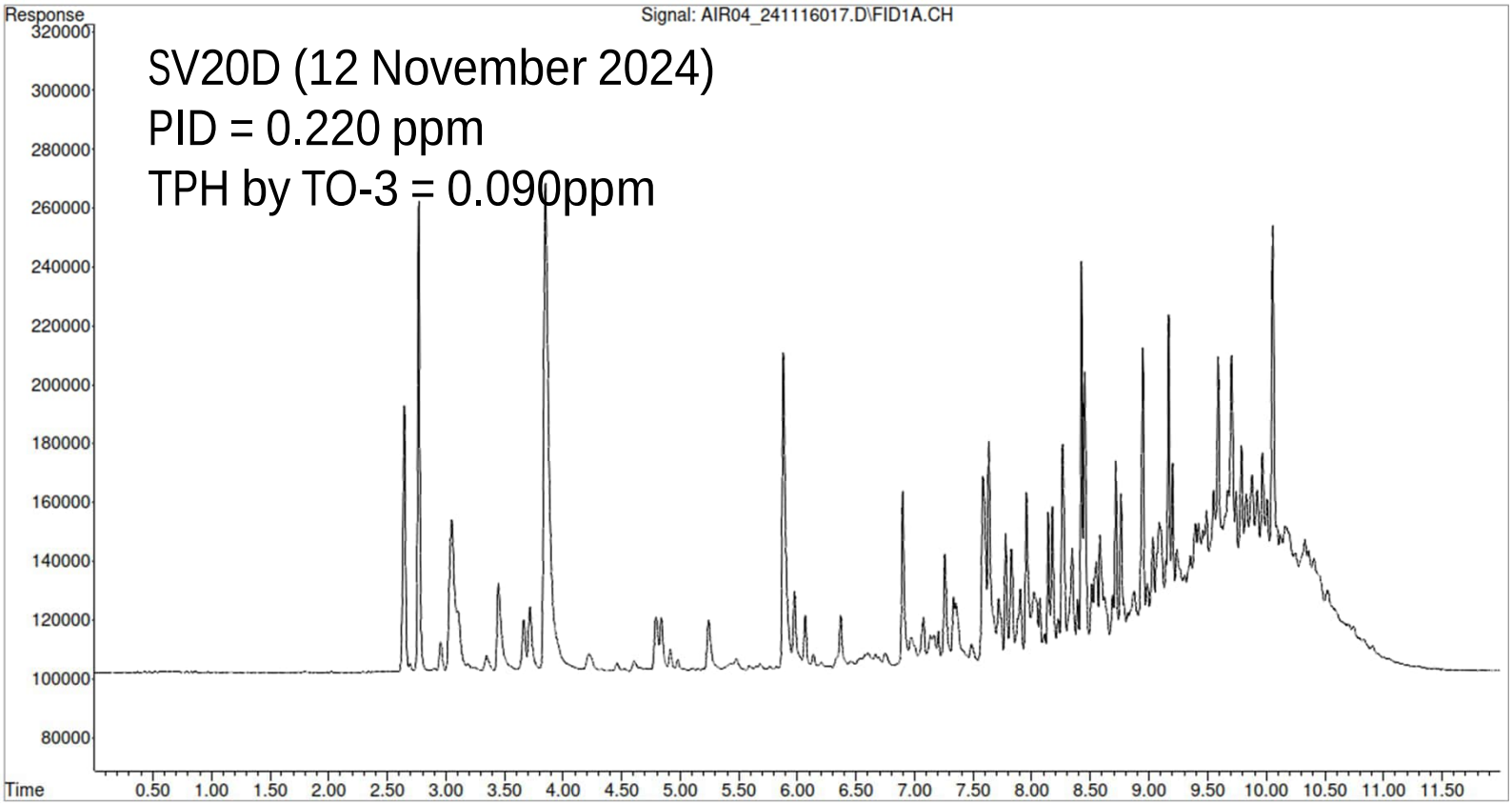

Response
Signal: AIR04_241116012.D\FID1A.CH
SV17S (12 November 2024)
PID = 0.020 ppm
TPH by TO-3 = 0.077 ppm
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_241116013.D\FID1A.CH
SV17D (12 November 2024)
PID = 0.043 ppm
TPH by TO-3 = 0.13 ppm
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response
Signal: AIR04_241116014.D\FID1A.CH
SV18S (12 November 2024)
PID = 0.257 ppm
TPH by TO-3 = 0.31 ppm
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

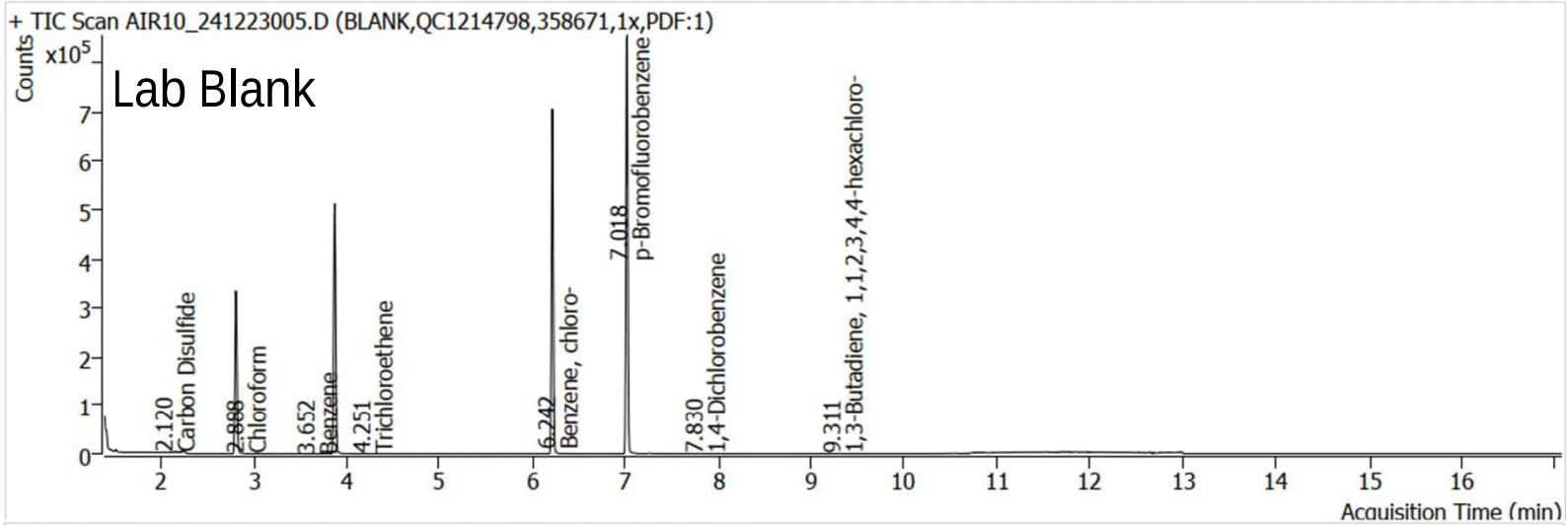

Response
Signal: AIR04_241116015.D\FID1A.CH
SV18D (12 November 2024)
PID = 0.761 ppm
TPH by TO-3 = 0.50 ppm
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

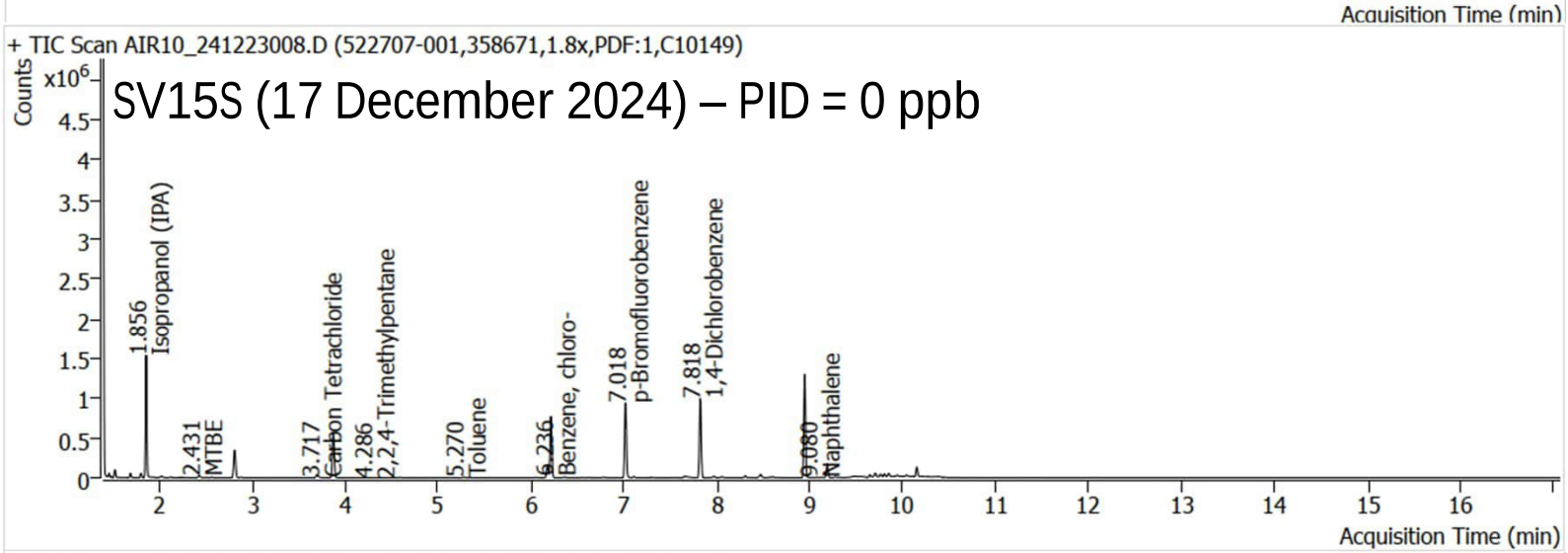

Response
Signal: AIR04_241116016.D\FID1A.CH
SV20M (12 November 2024)
PID = 0.414 ppm
TPH by TO-3 = 0.30 ppm
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

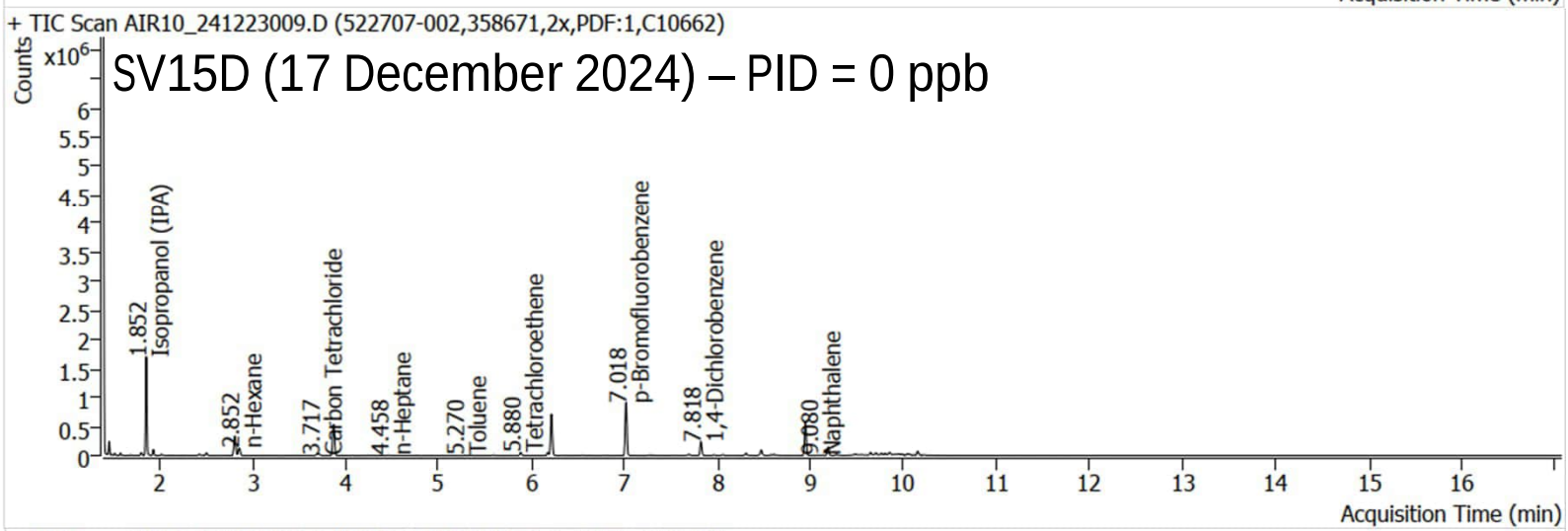

Response
Signal: AIR04_241116017.D\FID1A.CH
SV20D (12 November 2024)
PID = 0.220 ppm
TPH by TO-3 = 0.090ppm
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

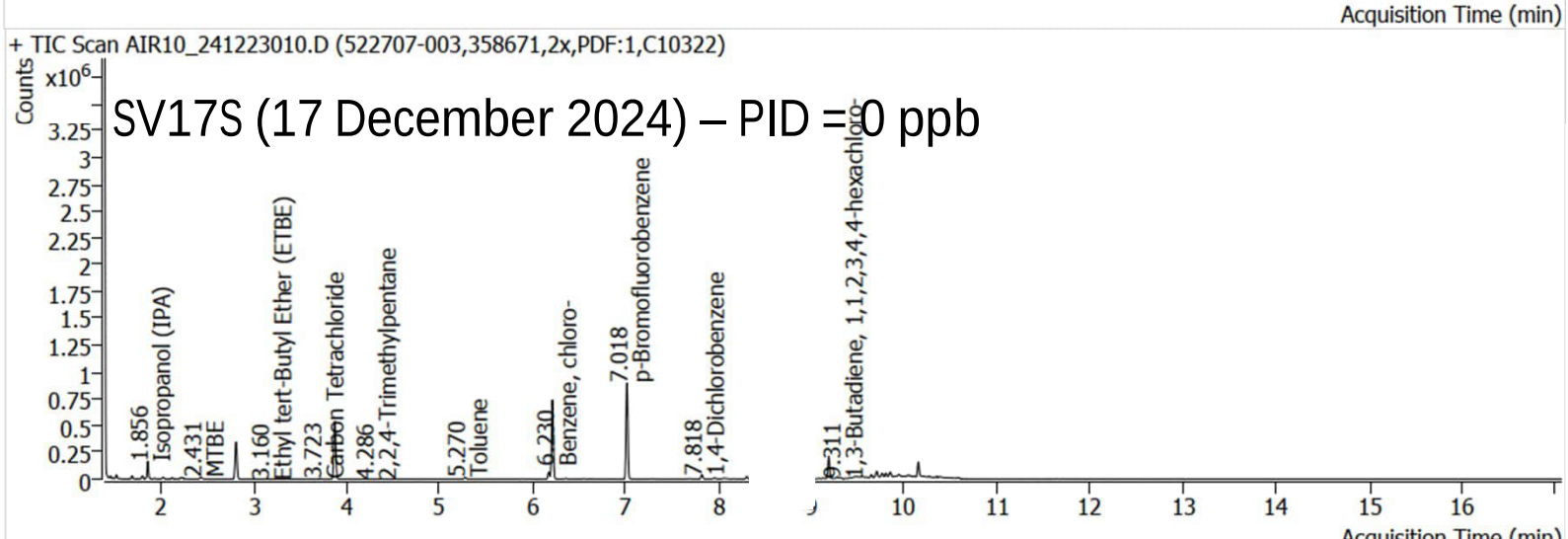
December 2024
Soil Vapor Samples

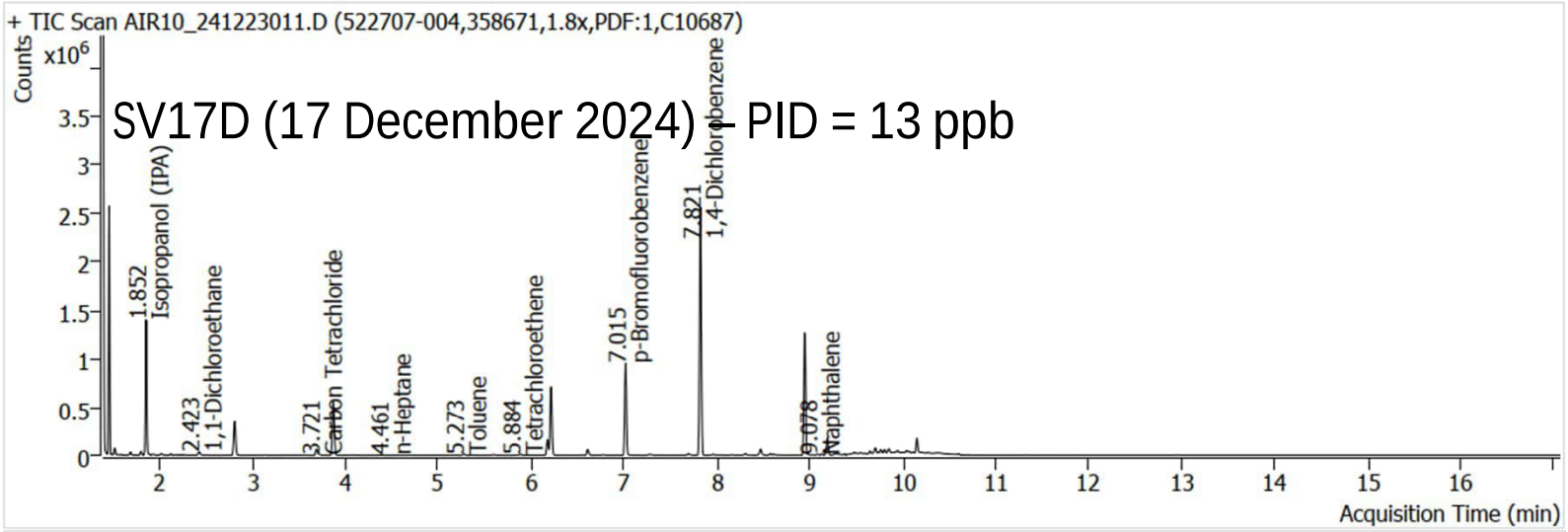
Mass Spec Chromatograms

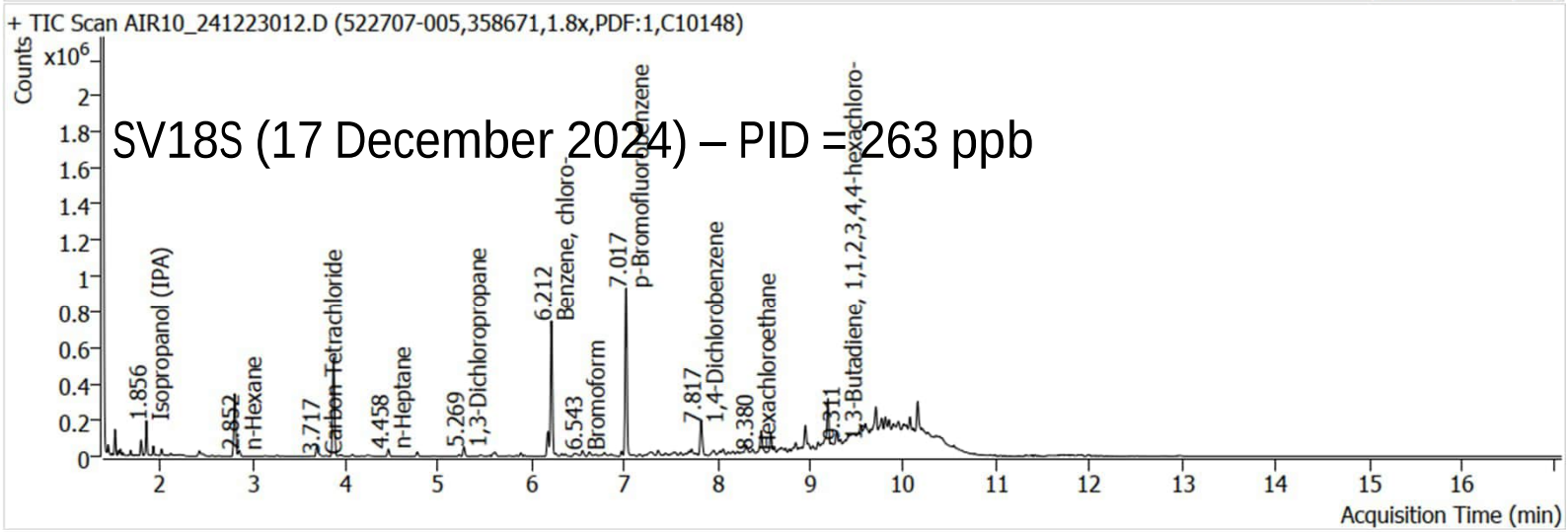

+ TIC Scan AIR10_241223005.D (BLANK,QC1214798,358671,1x,PDF:1)
Lab Blank
Counts
x10^5
2.120 Carbon Disulfide
2.888 Chloroform
3.652 Benzene
4.251 Trichloroethene
6.242 Benzene, chloro-
7.018 p-Bromofluorobenzene
7.830 1,4-Dichlorobenzene
9.311 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

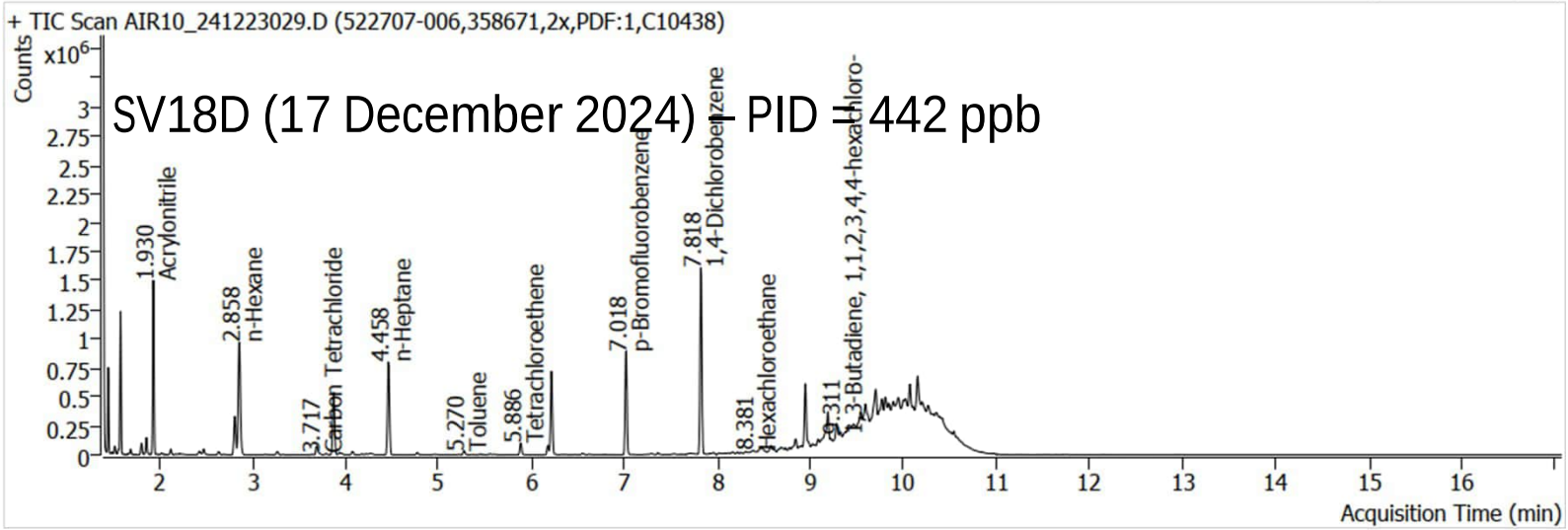

+ TIC Scan AIR10_241223008.D (522707-001,358671,1.8x,PDF:1,C10149)
SV15S (17 December 2024) – PID = 0 ppb
Counts
x10^6
1.856 Isopropanol (IPA)
2.431 MTBE
3.717 Carbon Tetrachloride
4.286 2,2,4-Trimethylpentane
5.270 Toluene
6.236 Benzene, chloro-
7.018 p-Bromofluorobenzene
7.818 1,4-Dichlorobenzene
9.080 Naphthalene
Acquisition Time (min)

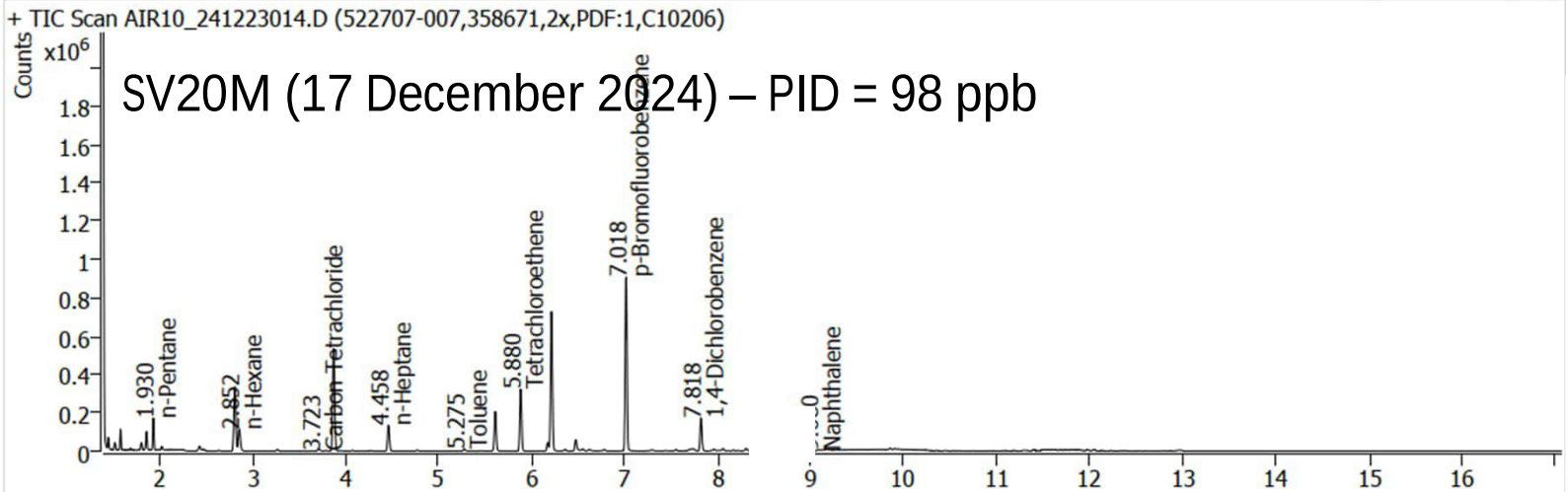

+ TIC Scan AIR10_241223009.D (522707-002,358671,2x,PDF:1,C10662)
SV15D (17 December 2024) – PID = 0 ppb
Counts
x10^6
1.852 Isopropanol (IPA)
2.852 n-Hexane
3.717 Carbon Tetrachloride
4.458 n-Heptane
5.270 Toluene
5.880 Tetrachloroethene
7.018 p-Bromofluorobenzene
7.818 1,4-Dichlorobenzene
9.080 Naphthalene
Acquisition Time (min)

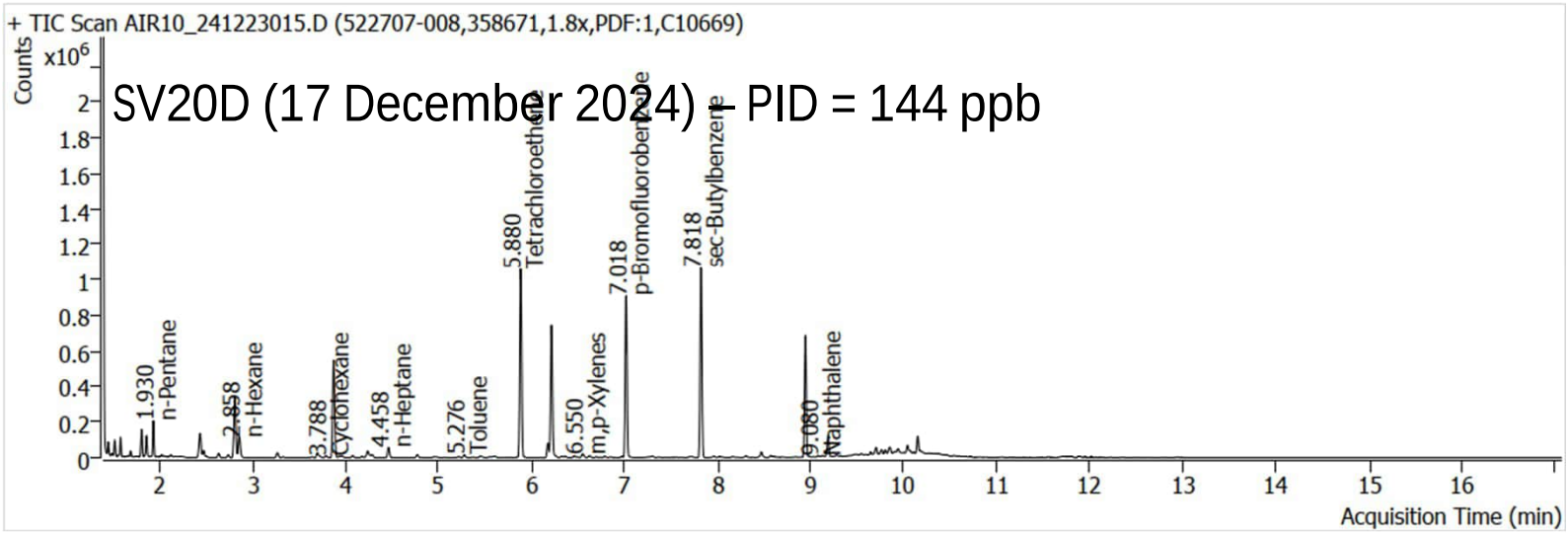

+ TIC Scan AIR10_241223010.D (522707-003,358671,2x,PDF:1,C10322)
SV17S (17 December 2024) – PID = 0 ppb
Counts
x10^6
1.856 Isopropanol (IPA)
2.431 MTBE
3.160 Ethyl tert-Butyl Ether (ETBE)
3.723 Carbon Tetrachloride
4.286 2,2,4-Trimethylpentane
5.270 Toluene
6.230 Benzene, chloro-
7.018 p-Bromofluorobenzene
7.818 1,4-Dichlorobenzene
9.311 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)


+ TIC Scan AIR10_241223011.D (522707-004,358671,1.8x,PDF:1,C10687)
Counts
x10^6
SV17D (17 December 2024) – PID = 13 ppb
1.852 Isopropanol (IPA)
2.423 1,1-Dichloroethane
3.721 Carbon Tetrachloride
4.461 n-Heptane
5.273 Toluene
5.884 Tetrachloroethene
7.015 p-Bromofluorobenzene
7.821 1,4-Dichlorobenzene
9.078 Naphthalene
Acquisition Time (min)


+ TIC Scan AIR10_241223012.D (522707-005,358671,1.8x,PDF:1,C10148)
Counts
x10^6
SV18S (17 December 2024) – PID = 263 ppb
1.856 Isopropanol (IPA)
2.852 n-Hexane
3.717 Carbon Tetrachloride
4.458 n-Heptane
5.269 1,3-Dichloropropane
6.212 Benzene, chloro-
6.543 Bromoform
7.017 p-Bromofluorobenzene
7.817 1,4-Dichlorobenzene
8.380 Hexachloroethane
9.311 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

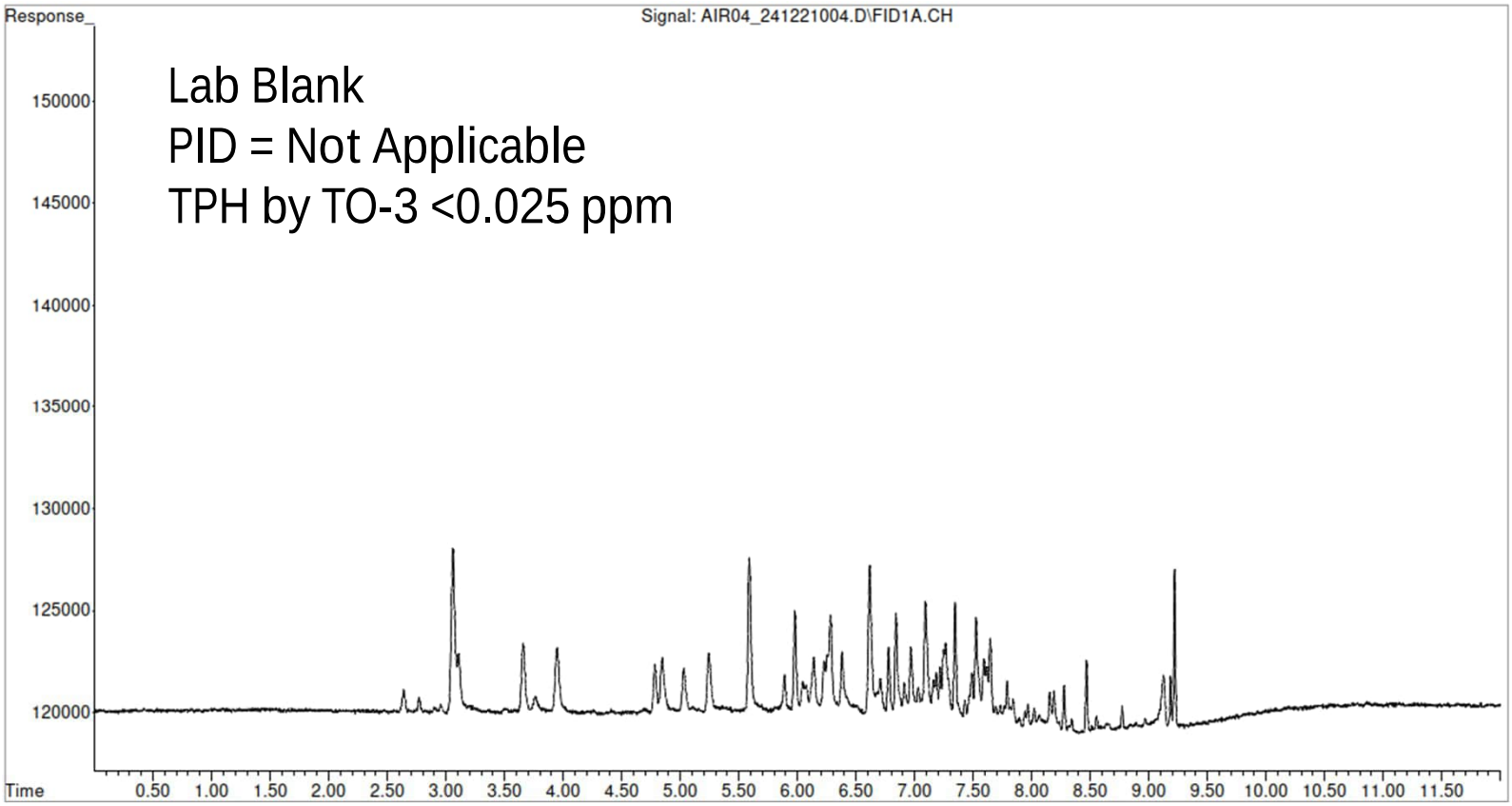

+ TIC Scan AIR10_241223029.D (522707-006,358671,2x,PDF:1,C10438)
Counts
x10^6
SV18D (17 December 2024) – PID = 442 ppb
1.930 Acrylonitrile
2.858 n-Hexane
3.717 Carbon Tetrachloride
4.458 n-Heptane
5.270 Toluene
5.886 Tetrachloroethene
7.018 p-Bromofluorobenzene
7.818 1,4-Dichlorobenzene
8.381 Hexachloroethane
9.311 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

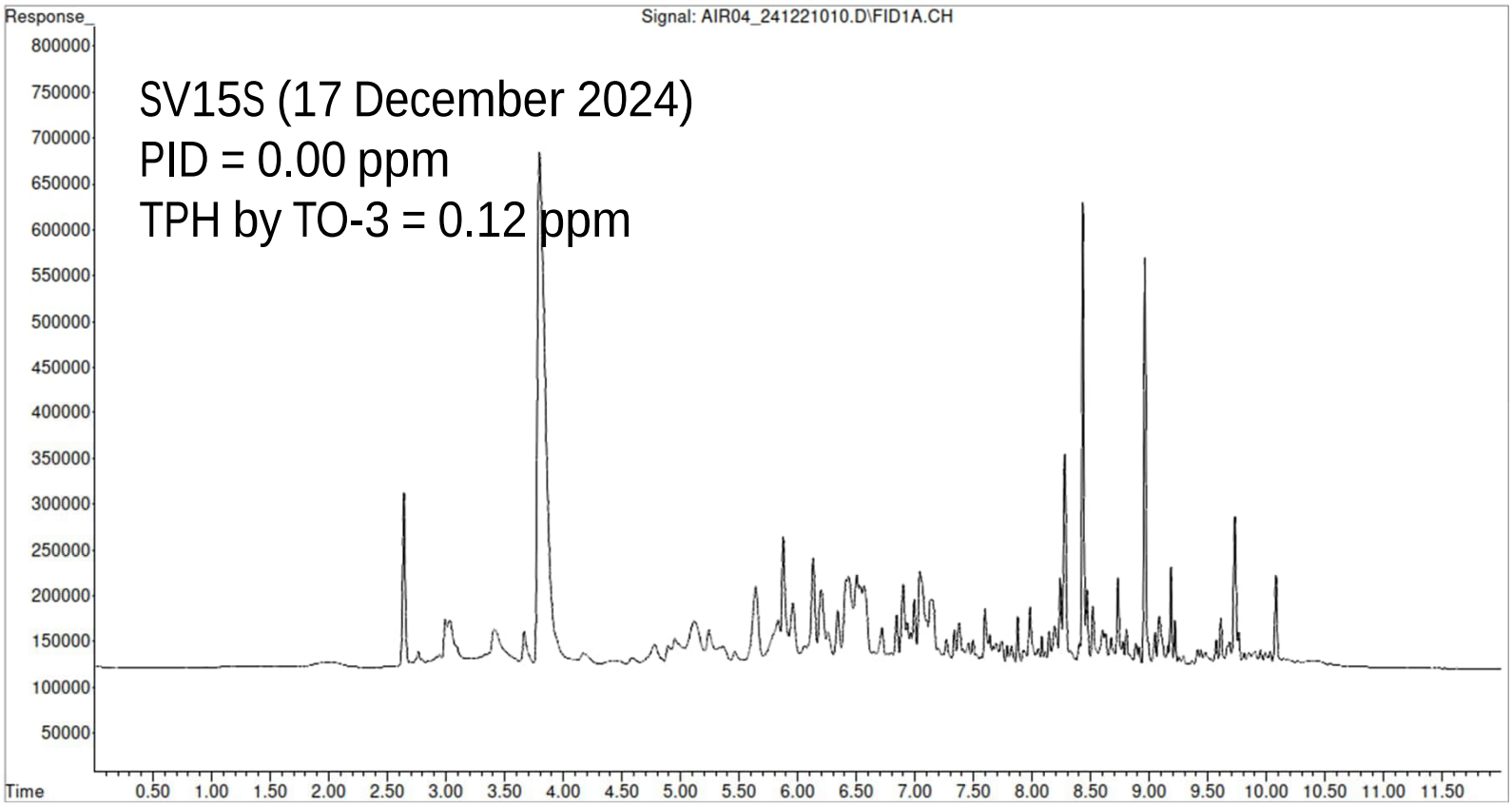

+ TIC Scan AIR10_241223014.D (522707-007,358671,2x,PDF:1,C10206)
Counts
x10^6
SV20M (17 December 2024) – PID = 98 ppb
1.930 n-Pentane
2.852 n-Hexane
3.723 Carbon Tetrachloride
4.458 n-Heptane
5.275 Toluene
5.880 Tetrachloroethene
7.018 p-Bromofluorobenzene
7.818 1,4-Dichlorobenzene
Naphthalene

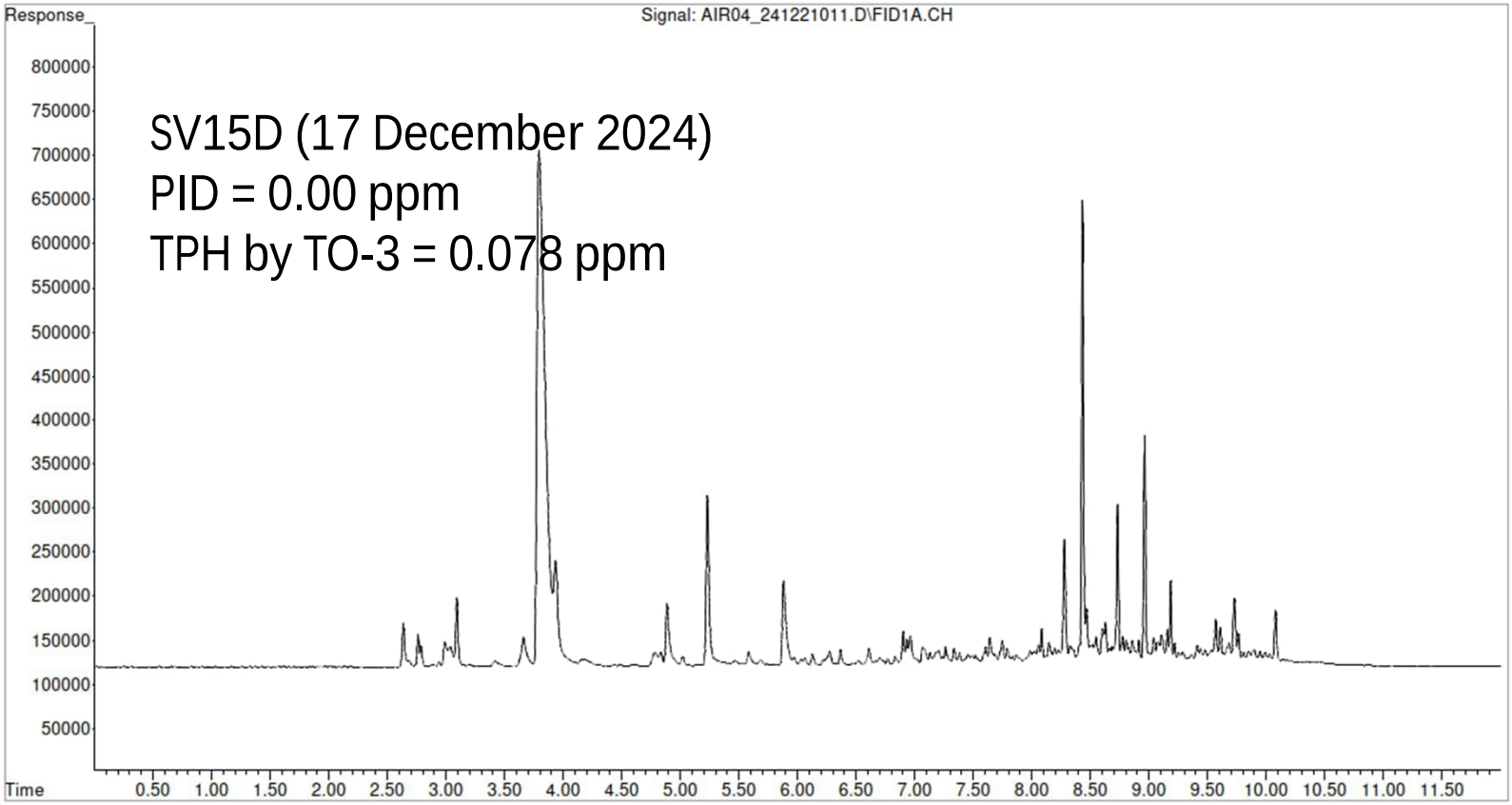

+ TIC Scan AIR10_241223015.D (522707-008,358671,1.8x,PDF:1,C10669)
Counts
x10^6
SV20D (17 December 2024) – PID = 144 ppb
1.930 n-Pentane
2.958 n-Hexane
3.788 Cyclohexane
4.458 n-Heptane
5.276 Toluene
5.880 Tetrachloroethene
6.550 m,p-Xylenes
7.018 p-Bromofluorobenzene
7.818 sec-Butylbenzene
9.080 Naphthalene
Acquisition Time (min)

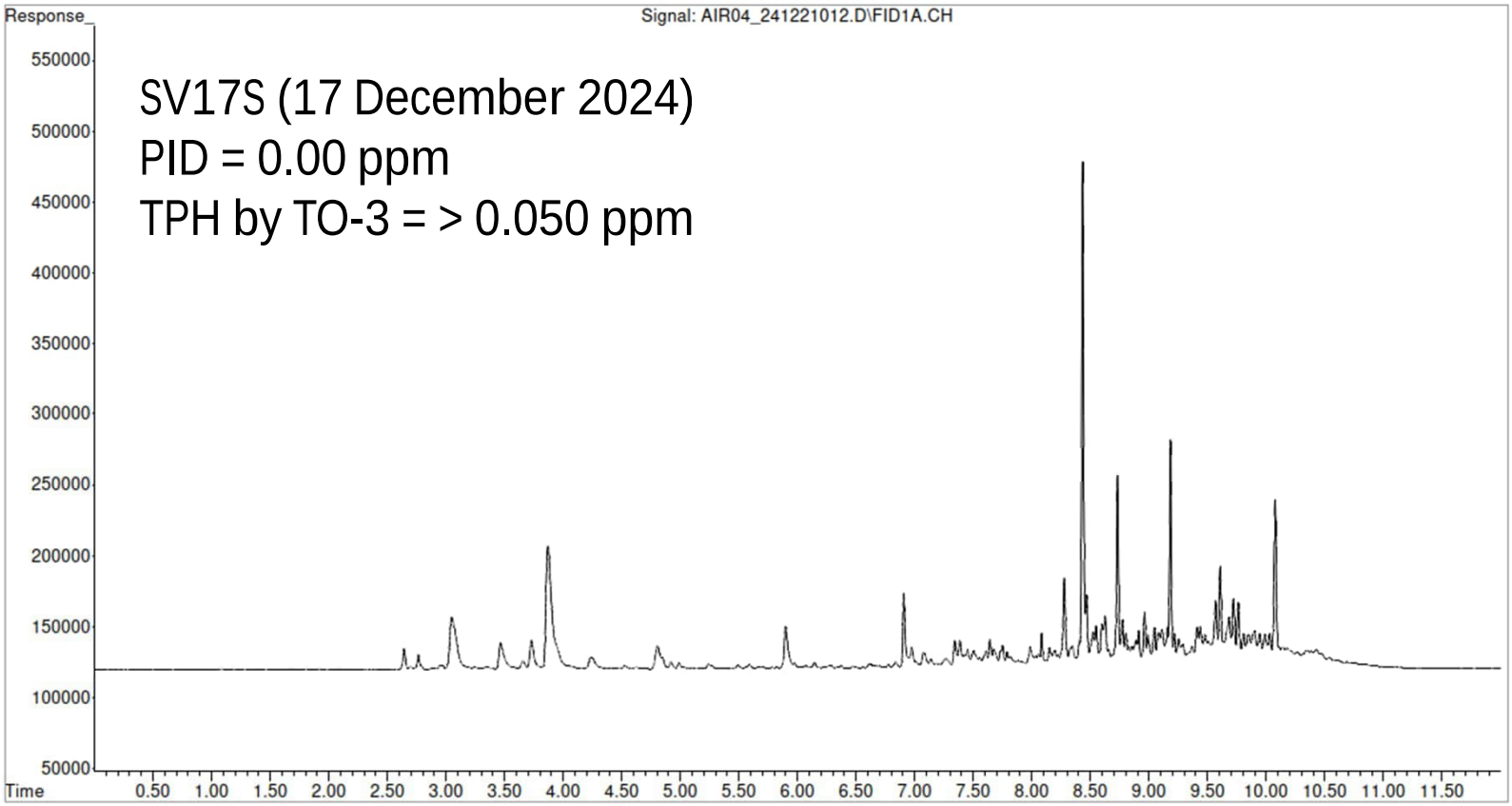
December 2024
Soil Vapor Samples

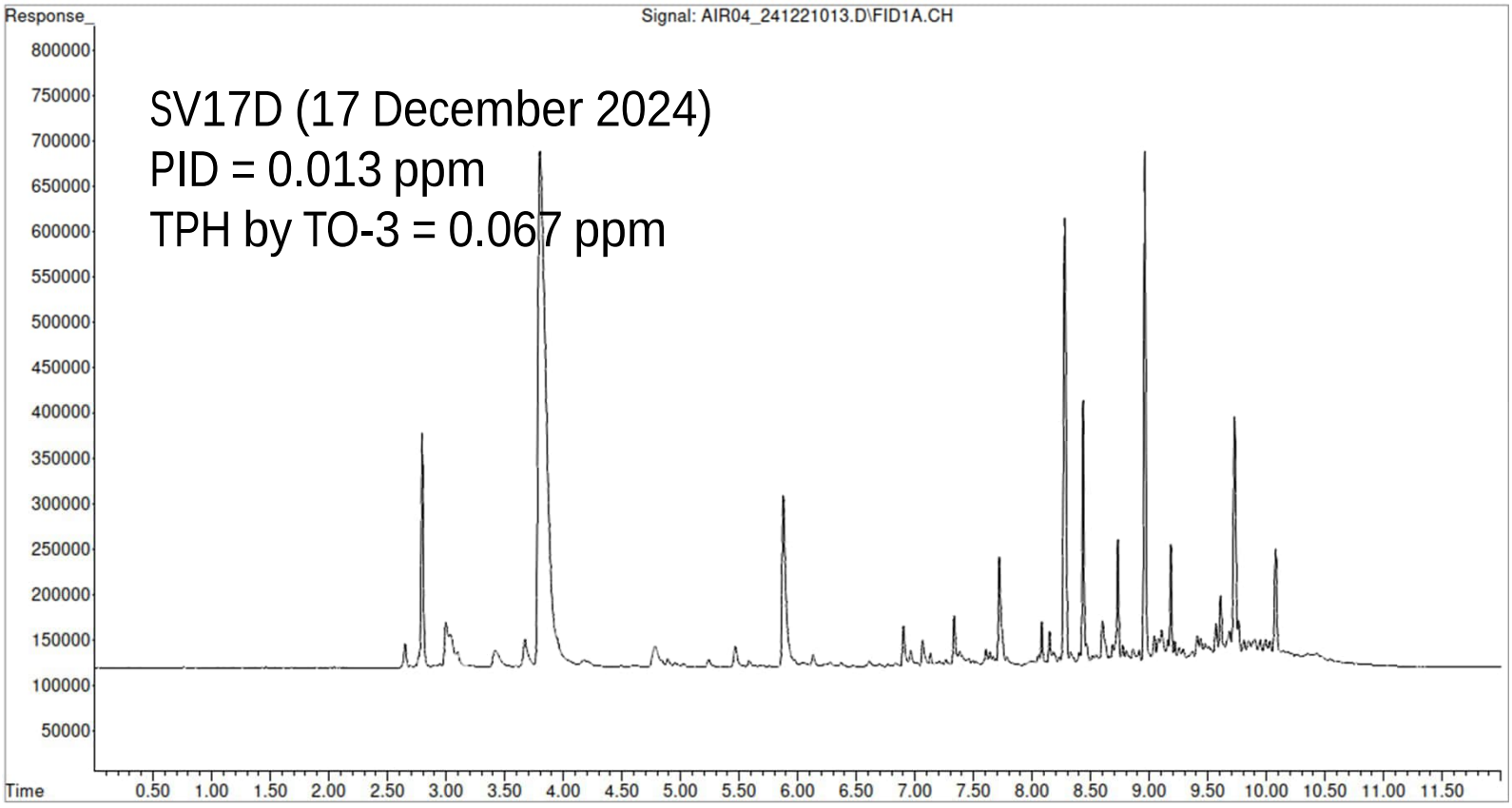
FID Chromatograms

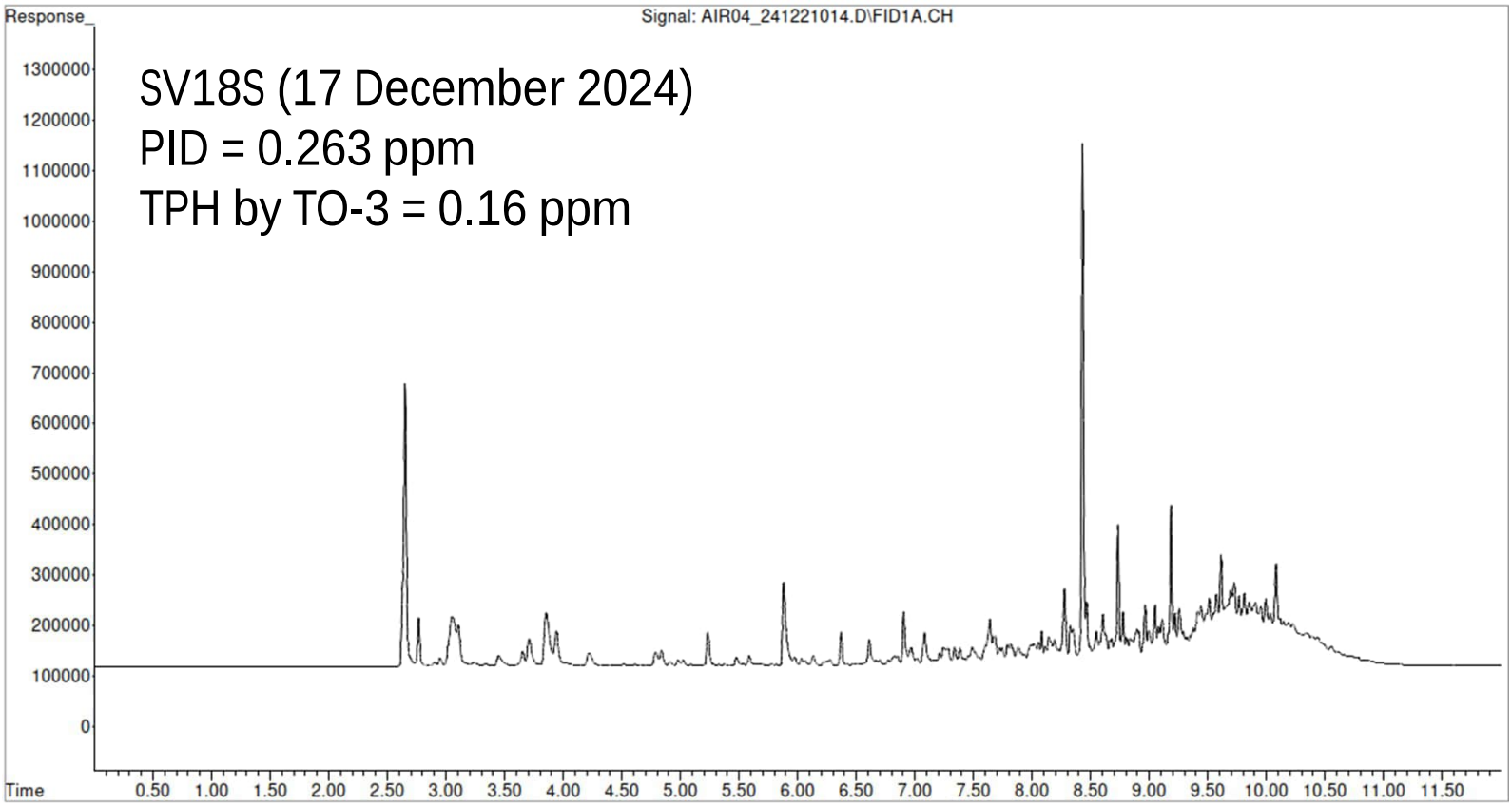

Response_
Signal: AIR04_241221004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
150000
145000
140000
135000
130000
125000
120000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

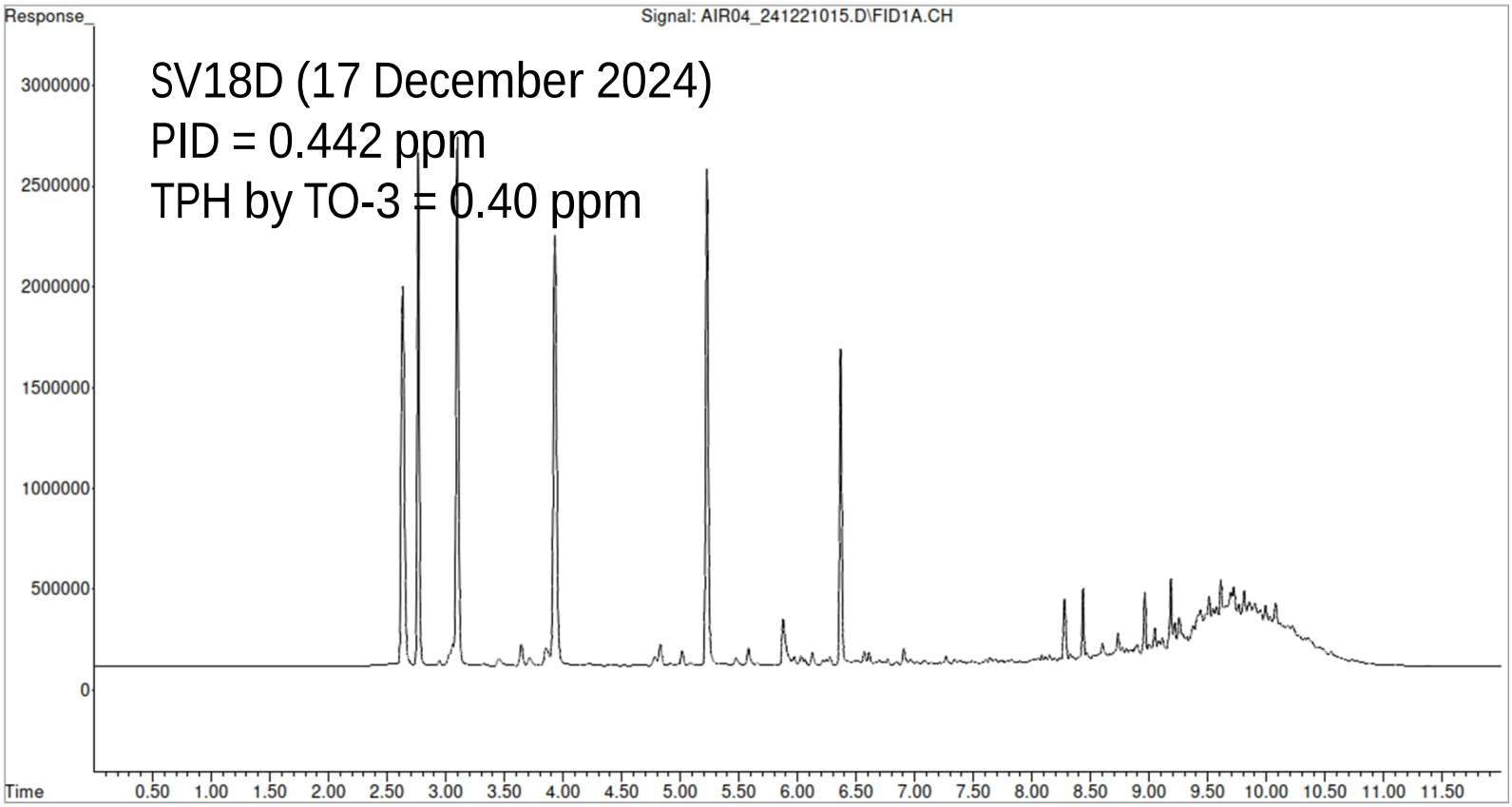

Response_
Signal: AIR04_241221010.D\FID1A.CH
SV15S (17 December 2024)
PID = 0.00 ppm
TPH by TO-3 = 0.12 ppm
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

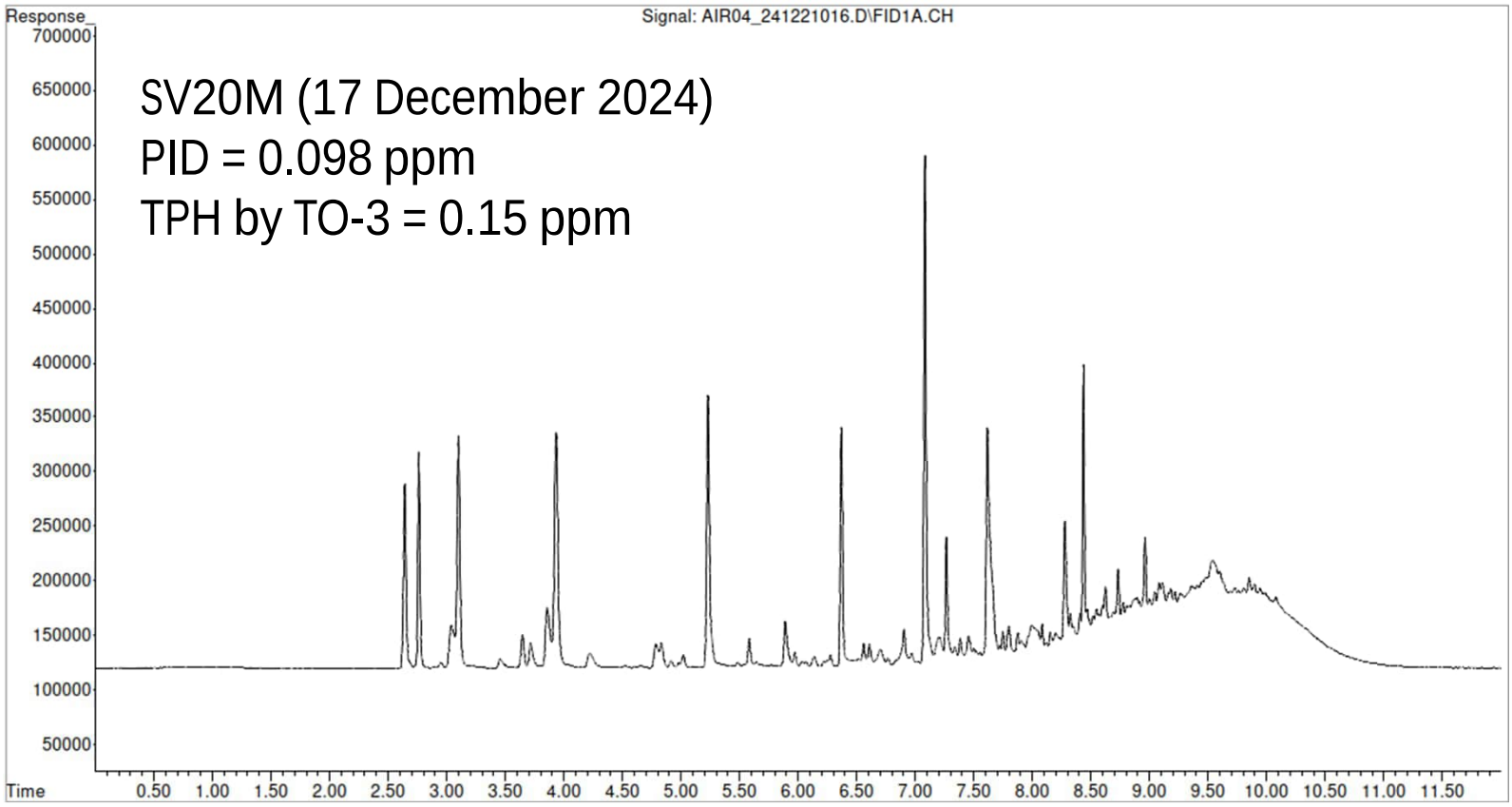

Response_
Signal: AIR04_241221011.D\FID1A.CH
SV15D (17 December 2024)
PID = 0.00 ppm
TPH by TO-3 = 0.078 ppm
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

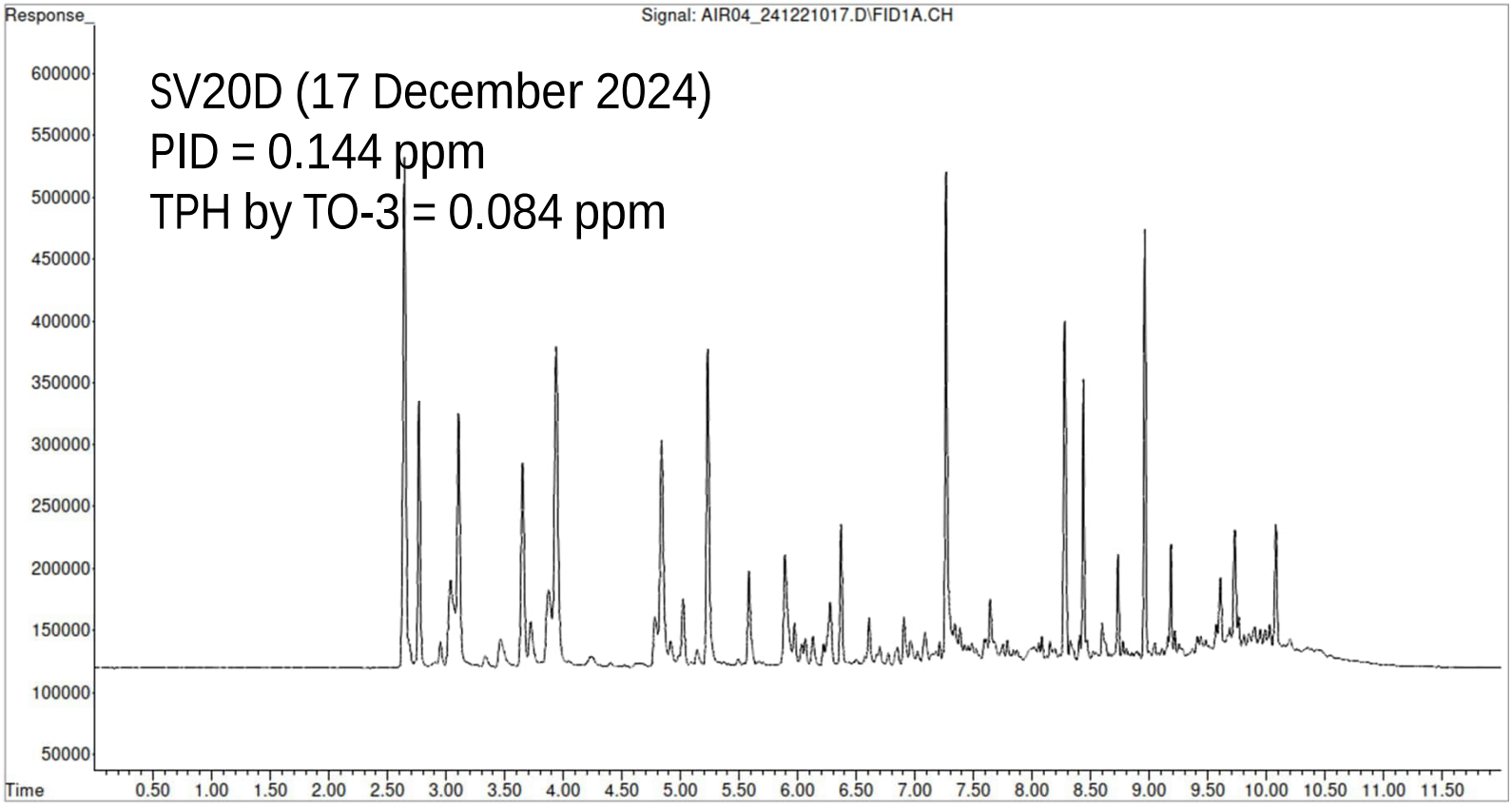

Response_
Signal: AIR04_241221012.D\FID1A.CH
SV17S (17 December 2024)
PID = 0.00 ppm
TPH by TO-3 = > 0.050 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_241221013.D\FID1A.CH
SV17D (17 December 2024)
PID = 0.013 ppm
TPH by TO-3 = 0.067 ppm
Time


Response_
Signal: AIR04_241221014.D\FID1A.CH
SV18S (17 December 2024)
PID = 0.263 ppm
TPH by TO-3 = 0.16 ppm
Time


Response_
Signal: AIR04_241221015.D\FID1A.CH
SV18D (17 December 2024)
PID = 0.442 ppm
TPH by TO-3 = 0.40 ppm
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_241221016.D\FID1A.CH
SV20M (17 December 2024)
PID = 0.098 ppm
TPH by TO-3 = 0.15 ppm
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_241221017.D\FID1A.CH
SV20D (17 December 2024)
PID = 0.144 ppm
TPH by TO-3 = 0.084 ppm
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

Appendix B – Groundwater Monitoring Results, Current Reporting Period

Appendix B.1 – Analytical Program for Groundwater Samples Collected During Current Reporting Period

Appendix B.2 – Monitoring Well Measurements

Appendix B.2.1 – LNAPL Gauging, Monitoring Well Headspace Measurements, and General Chemistry Parameters

Appendix B.2.2 – Monitoring Well Water Level Measurements

Appendix B.3 – Summary of Groundwater Analytical Results

Appendix B.3.1 – Groundwater Analytical Results

Appendix B.3.2 – Groundwater TPH and PAH Analytical Charts

Appendix B.3.3 – Consolidated Groundwater COPC Trend Analysis

Appendix B.4 – Chromatograms for Groundwater Detections and Exceedances

Appendix B.5 – Natural Attenuation Parameters

Appendix B.1 – Analytical Program for Groundwater Samples Collected During Current Reporting Period

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 August and Q3 GW LTM

Event ID: 2168

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW24	WL	NMW24-WGN01B-2408B	0	0	WG	N	1	B	2024-08-28 08:15 AM	2408SG20B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024	(b) (4)	FC18439	7	7	S2BVEM	Sampled; No SGC																								•
	NMW24	WL	NMW24-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408SG20B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	NMW25	WL	NMW25-WGN01B-2408B	0	0	WG	N	1	B	2024-08-28 10:00 AM	2408SG31B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled																								•
	NMW25	WL	NMW25-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:50 AM	2408SG31B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled						•	•				•			•					•	•			•	•
	NMW26	WL	NMW26-WGN01B-2408B	0	0	WG	N	1	B	2024-08-26 08:23 AM	2408SG37B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled																								•
	NMW26	WL	NMW26-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 10:50 AM	2408SG37B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	NMW34	WL	NMW34-WGN01B-2408B	0	0	WG	N	1	B	2024-08-27 08:25 AM	2408SG39B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled																								•
	NMW34	WL	NMW34-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 08:55 AM	2408SG39B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408SG40B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:30 AM	2408SG41B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHMW04	WL	RHMW04-WGN01B-2408B	0	0	WG	N	1	B	2024-08-27 09:05 AM	2408SG04B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled																								•
	RHMW04	WL	RHMW04-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 09:35 AM	2408SG04B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2408B	0	0	WG	N	1	G	2024-08-26 11:10 AM	2408SG12B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHMW17	WL	RHMW17-WGFD01B-2408B	0	0	WG	FD	1	B	2024-08-26 11:40 AM	2408SG16B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled																								•
	RHMW17	WL	RHMW17-WGFD01LF-2408B	0	0	WG	FD	1	LF	2024-08-26 12:25 PM	2408SG16B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled; No SGC						•					•			•					•	•			•	•
	RHMW17	WL	RHMW17-WGN01B-2408B	0	0	WG	N	1	B	2024-08-26 11:40 AM	2408SG16B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled																								•
	RHMW17	WL	RHMW17-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 12:25 PM	2408SG16B	UNITED CARGO	016-86219696	8/26/2024	8/28/2024		FC18346	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHMW20	WL	RHMW20-WGN01B-2408B	0	0	WG	N	1	B	2024-08-28 11:50 AM	2408SG18B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled																								•
	RHMW20	WL	RHMW20-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 12:35 PM	2408SG18B	UNITED CARGO	016-86219711	8/28/2024	8/30/2024		FC18439	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 12:15 PM	2408SG25B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHP04C	WL	RHP04C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 02:05 PM	2408SG26B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•
	RHP08C	WL	RHP08C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 10:50 AM	2408SG44B	UNITED CARGO	016-86219700	8/27/2024	8/29/2024		FC18395	7	7	S2BVEM	Sampled; No SGC						•	•				•			•					•	•			•	•

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 September and Q3 GW LTM

Event ID: 2171

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW24	WL	NMW24-WGN01B-2409B	0	0	WG	N	1	B	2024-09-24 08:20 AM	2409SG20B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024	(b) (4)	FC19169	7	7	S2BVEM	Sampled																						•
	NMW24	WL	NMW24-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 08:50 AM	2409AP20B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled							•															
	NMW24	WL	NMW24-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 08:50 AM	2409EU20A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•							•										
	NMW24	WL	NMW24-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 08:50 AM	2409AK20B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•				
	NMW24	WL	NMW24-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 08:50 AM	2409SG20B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 08:55 AM	2409AP29B	FEDEX	280019676296	9/27/2024	9/28/2024		24I0256	7	7	S2BVEM	Sampled							•															
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 08:55 AM	2409EU29B	ALASKA CARGO	027-34487471	9/27/2024	9/28/2024		580-144292-1	7	7	S2BVEM	Sampled			•		•							•										
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 08:55 AM	2409AK29B	ALASKA CARGO	027-34487460	9/30/2024	10/1/2024		1245703	7	7	S2BVEM	Sampled													•					•				
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 08:55 AM	2409SG29B	UNITED CARGO	016-58606306	9/27/2024	9/28/2024		FC19168	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 01:20 PM	2409AP10B	FEDEX	279754339095	9/20/2024	9/21/2024		24I0192	7	7	S2BVEM	Sampled							•															
	RHMW11-05	WL	RHMW11-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 01:20 PM	2409EU10B	ALASKA CARGO	027-34033882	9/18/2024	9/19/2024		580-144019-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW12A	WL	RHMW12A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:35 AM	2409AP11B	FEDEX	280019676296	9/27/2024	9/28/2024		24I0256	7	7	S2BVEM	Sampled							•															
	RHMW12A	WL	RHMW12A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:35 AM	2409EU11B	ALASKA CARGO	027-34487471	9/27/2024	9/28/2024		580-144292-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW12A	WL	RHMW12A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:35 AM	2409AK11B	ALASKA CARGO	027-34487460	9/30/2024	10/1/2024		1245703	7	7	S2BVEM	Sampled													•					•				
	RHMW12A	WL	RHMW12A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:35 AM	2409SG11B	UNITED CARGO	016-58606306	9/27/2024	9/28/2024		FC19168	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 09:50 AM	2409EU13B	ALASKA CARGO	027-34033882	9/18/2024	9/19/2024		580-144019-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW25	WL	NMW25-WGN01B-2409B	0	0	WG	N	1	B	2024-09-24 10:20 AM	2409SG31B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	NMW25	WL	NMW25-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AP31B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled							•															
	NMW25	WL	NMW25-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409EU31A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•							•										
	NMW25	WL	NMW25-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AK31B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•				
	NMW25	WL	NMW25-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409SG31B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled						•	•			•			•						•	•			•	•
	NMW26	WL	NMW26-WGN01B-2409B	0	0	WG	N	1	B	2024-09-23 12:30 PM	2409SG37B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled																						•
	NMW26	WL	NMW26-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 12:45 PM	2409AK37A	ALASKA CARGO	027-34033930	9/11/2024	9/12/2024		1245258_Rev1	7	7	S2BVEM	Sampled													•					•				
	NMW26	WL	NMW26-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 02:55 PM	2409AP37B	FEDEX	279888734030	9/24/2024	9/25/2024		24I0217	7	7	S2BVEM	Sampled							•															
	NMW26	WL	NMW26-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 02:55 PM	2409EU37B	ALASKA CARGO	027-34487434	9/23/2024	9/25/2024		580-144156-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW26	WL	NMW26-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 02:55 PM	2409AK37B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled													•					•				
	NMW26	WL	NMW26-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 02:55 PM	2409SG37B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW30	WL	NMW30-WGN01B-2409B	0	0	WG	N	1	B	2024-09-26 08:30 AM	2409SG35B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	NMW30	WL	NMW30-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:10 AM	2409AP35B	FEDEX	279977893520	9/26/2024	9/27/2024		24I0245	7	7	S2BVEM	Sampled							•															
	NMW30	WL	NMW30-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:10 AM	2409EU35B	ALASKA CARGO	027-34034022	9/26/2024	9/27/2024		580-144265-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW30	WL	NMW30-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:10 AM	2409AK35B	ALASKA CARGO	027-34034033	9/26/2024	9/27/2024		1245634	7	7	S2BVEM	Sampled													•					•				
	NMW30	WL	NMW30-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:10 AM	2409SG35B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW32	WL	NMW32-WGN01B-2409B	0	0	WG	N	1	B	2024-09-26 10:15 AM	2409SG32B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	NMW32	WL	NMW32-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:05 AM	2409AK32A	ALASKA CARGO	027-34033930	9/11/2024	9/12/2024		1245258_Rev1	7	7	S2BVEM	Sampled													•					•				
	NMW32	WL	NMW32-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 10:40 AM	2409AP32B	FEDEX	279977893520	9/26/2024	9/27/2024		24I0245	7	7	S2BVEM	Sampled							•															
	NMW32	WL	NMW32-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 10:40 AM	2409EU32B	ALASKA CARGO	027-34034022	9/26/2024	9/27/2024		580-144265-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW32	WL	NMW32-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 10:40 AM	2409AK32B	ALASKA CARGO	027-34034033	9/26/2024	9/27/2024		1245634	7	7	S2BVEM	Sampled													•					•				
	NMW32	WL	NMW32-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 10:40 AM	2409SG32B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW33	WL	NMW33-WGN01B-2409B	0	0	WG	N	1	B	2024-09-25 08:00 AM	2409SG34B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	NMW33	WL	NMW33-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 08:30 AM	2409AP34B	FEDEX	279933503042	9/25/2024	9/26/2024		24I0233	7	7	S2BVEM	Sampled							•															
	NMW33	WL	NMW33-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 08:30 AM	2409EU34B	ALASKA CARGO	027-34487456	9/25/2024	9/26/2024		580-144202-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW33	WL	NMW33-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 08:30 AM	2409AK34B	ALASKA CARGO	027-34034011	9/25/2024	9/26/2024		1245584	7	7	S2BVEM	Sampled													•					•				
	NMW33	WL	NMW33-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 08:30 AM	2409SG34B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW34	WL	NMW34-WGN01B-2409B	0	0	WG	N	1	B	2024-09-23 08:25 AM	2409SG39B	UNITED CARGO	016-59824030	9/23/2024	9/24/2024		FC19039	7	7	S2BVEM	Sampled																						•
	NMW34	WL	NMW34-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 08:55 AM	2409AP39B	FEDEX	279839320928	9/23/2024	9/24/2024		24I0201	7	7	S4VEM	Sampled							•															
	NMW34	WL	NMW34-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 08:55 AM	2409EU39B	ALASKA CARGO	027-34487434	9/23/2024	9/25/2024		580-144156-1	7	7	S2BVEM	Sampled			•		•							•										
	NMW34	WL	NMW34-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 08:55 AM	2409AK39B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled													•					•				
	NMW34	WL	NMW34-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 08:55 AM	2409SG39B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 01:05 PM	2409AP40B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled							•															
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 01:05 PM	2409EU40A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•							•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 01:05 PM	2409AK40B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•				
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 01:05 PM	2409SG40B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:45 AM	2409AK41A	ALASKA CARGO	027-34033930	9/11/2024	9/12/2024		1245258_Rev1	7	7	S2BVEM	Sampled													•					•				
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 12:50 PM	2409AP41B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled							•															

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 September and Q3 GW LTM

Event ID: 2171

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 12:50 PM	2409EU40A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024	(b) (4)	580-144160-1	7	7	S4VEM	Sampled			•		•					•															
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 12:50 PM	2409AK41B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled												•						•						
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 12:50 PM	2409SG41B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•		•					•	•			•	•
	RHMW02	WL	RHMW02-WGFD01B-2409B	0	0	WG	FD	1	B	2024-09-26 09:15 AM	2409SG02B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	RHMW02	WL	RHMW02-WGFD01LF-2409B	0	0	WG	FD	1	LF	2024-09-26 09:45 AM	2409SG02B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled						•						•					•	•			•	•
	RHMW02	WL	RHMW02-WGN01B-2409B	0	0	WG	N	1	B	2024-09-26 09:15 AM	2409SG02B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	RHMW02	WL	RHMW02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:45 AM	2409AP02B	FEDEX	279977893520	9/26/2024	9/27/2024		24I0245	7	7	S2BVEM	Sampled								•														
	RHMW02	WL	RHMW02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:45 AM	2409EU02B	ALASKA CARGO	027-34034022	9/26/2024	9/27/2024		580-144265-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW02	WL	RHMW02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:45 AM	2409AK02B	ALASKA CARGO	027-34034033	9/26/2024	9/27/2024		1245634	7	7	S2BVEM	Sampled												•						•				
	RHMW02	WL	RHMW02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 09:45 AM	2409SG02B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled						•	•			•		•					•	•			•	•
	RHMW03	WL	RHMW03-WGN01B-2409B	0	0	WG	N	1	B	2024-09-26 10:55 AM	2409SG03B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																						•
	RHMW03	WL	RHMW03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 11:25 AM	2409AP03B	FEDEX	279977893520	9/26/2024	9/27/2024		24I0245	7	7	S2BVEM	Sampled								•														
	RHMW03	WL	RHMW03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 11:25 AM	2409EU03B	ALASKA CARGO	027-34034022	9/26/2024	9/27/2024		580-144265-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW03	WL	RHMW03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 11:25 AM	2409AK03B	ALASKA CARGO	027-34034033	9/26/2024	9/27/2024		1245634	7	7	S2BVEM	Sampled												•						•				
	RHMW03	WL	RHMW03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-26 11:25 AM	2409SG03B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled						•	•			•		•					•	•			•	•
	RHMW04	WL	RHMW04-WGN01B-2409A	0	0	WG	N	1	B									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																					•
	RHMW04	WL	RHMW04-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study							•													
	RHMW04	WL	RHMW04-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study		•		•					•												
	RHMW04	WL	RHMW04-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study										•					•					
	RHMW04	WL	RHMW04-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study					•	•			•			•				•	•			•	•
	RHMW04	WL	RHMW04-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 09:15 AM	2409AP04B	FEDEX	279754339095	9/20/2024	9/21/2024		24I0192	7	7	S2BVEM	Sampled								•														
	RHMW04	WL	RHMW04-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 09:15 AM	2409EU04B	ALASKA CARGO	027-34033985	9/20/2024	9/21/2024		580-144075-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW04	WL	RHMW04-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 09:15 AM	2409AK04B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled												•						•				
	RHMW05	WL	RHMW05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 11:25 AM	2409EU05B	ALASKA CARGO	027-34033882	9/18/2024	9/19/2024		580-144019-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW06	WL	RHMW06-WGN01B-2409A	0	0	WG	N	1	B									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																					•
	RHMW06	WL	RHMW06-WGN01B-2409B	0	0	WG	N	1	B	2024-09-19 11:00 AM	2409SG06B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled																						•
	RHMW06	WL	RHMW06-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																					
	RHMW06	WL	RHMW06-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study		•		•					•												
	RHMW06	WL	RHMW06-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study										•					•					
	RHMW06	WL	RHMW06-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study					•	•			•			•				•	•			•	•
	RHMW06	WL	RHMW06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 11:45 AM	2409EU06B	ALASKA CARGO	027-34033904	9/19/2024	9/20/2024		580-144063-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW06	WL	RHMW06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 11:45 AM	2409SG06B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled; No SGC						•	•			•		•					•	•			•	•
	RHMW09	WL	RHMW09-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 12:00 PM	2409AP08B	FEDEX	279754339095	9/20/2024	9/21/2024		24I0192	7	7	S2BVEM	Sampled								•														
	RHMW09	WL	RHMW09-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 12:00 PM	2409EU08B	ALASKA CARGO	027-34033985	9/20/2024	9/21/2024		580-144075-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW09	WL	RHMW09-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 12:00 PM	2409AK08B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled												•						•				
	RHMW10	WL	RHMW10-WGN01B-2409A	0	0	WG	N	1	B	2024-09-06 08:40 AM	2409SG09A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled																						•
	RHMW10	WL	RHMW10-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:35 AM	2409SG09A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled; No SGC						•	•			•		•					•	•			•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2409B	0	0	WG	N	1	G	2024-09-23 10:00 AM	2409AP12B	FEDEX	279839320928	9/23/2024	9/24/2024		24I0201	7	7	S4VEM	Sampled								•														
	RHMW13-04	WL	RHMW13-04-WGN01G-2409B	0	0	WG	N	1	G	2024-09-23 10:00 AM	2409EU12B	ALASKA CARGO	027-34487434	9/23/2024	9/25/2024		580-144156-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW13-04	WL	RHMW13-04-WGN01G-2409B	0	0	WG	N	1	G	2024-09-23 10:00 AM	2409AK12B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled												•						•				
	RHMW13-04	WL	RHMW13-04-WGN01G-2409B	0	0	WG	N	1	G	2024-09-23 10:00 AM	2409SG12B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled; No SGC						•	•			•		•					•	•			•	•
	RHMW16	WL	RHMW16-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 09:35 AM	2409EU15B	ALASKA CARGO	027-34033904	9/19/2024	9/20/2024		580-144063-1	7	7	S2BVEM	Sampled			•		•							•										
	RHMW16	WL	RHMW16-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 09:35 AM	2409SG15B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled; No SGC						•	•			•		•					•	•			•	•
	RHMW17	WL	RHMW17-WGFD01B-2409A	0	0	WG	FD	1	B									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																					•
	RHMW17	WL	RHMW17-WGFD01B-2409B	0	0	WG	FD	1	B	2024-09-23 08:40 AM	2409SG16B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled																						•
	RHMW17	WL	RHMW17-WGFD01LF-2409A	0	0	WG	FD	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study					•							•				•	•			•	•
	RHMW17	WL	RHMW17-WGFD01LF-2409B	0	0	WG	FD	1	LF	2024-09-23 09:40 AM	2409SG16B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled; No SGC						•						•					•	•			•	•
	RHMW17	WL	RHMW17-WGN01B-2409A	0	0	WG	N	1	B									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																					•
	RHMW17	WL	RHMW17-WGN01B-2409B	0	0	WG	N	1	B	2024-09-23 08:40 AM	2409SG16B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled																						•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 September and Q3 GW LTM

Event ID: 2171

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW17	WL	RHMW17-WGN01LF-2409A	0	0	WG	N	1	LF							[redacted]		7	7	S2BVEM	Cancelled	did not want to interfere with UH study								•														
	RHMW17	WL	RHMW17-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study		•		•						•														
	RHMW17	WL	RHMW17-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study												•				•						
	RHMW17	WL	RHMW17-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study					•	•			•			•					•	•			•	•
	RHMW17	WL	RHMW17-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 09:40 AM	2409AP16B	FEDEX	279839320928	9/23/2024	9/24/2024		24I0201	7	7	S4VEM	Sampled									•														
	RHMW17	WL	RHMW17-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 09:40 AM	2409EU16B	ALASKA CARGO	027-34487434	9/23/2024	9/25/2024		580-144156-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW17	WL	RHMW17-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 09:40 AM	2409AK16B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled													•					•					
	RHMW17	WL	RHMW17-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-23 09:40 AM	2409SG16B	UNITED CARGO	016-59824030	9/23/2024	9/25/2024		FC19039	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHMW18	WL	RHMW18-WGN01B-2409B	0	0	WG	N	1	B	2024-09-25 10:10 AM	2409SG36B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																							•
	RHMW18	WL	RHMW18-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 11:25 AM	2409AP36B	FEDEX	279933503042	9/25/2024	9/26/2024		24I0233	7	7	S2BVEM	Sampled									•														
	RHMW18	WL	RHMW18-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 11:25 AM	2409EU36B	ALASKA CARGO	027-34487456	9/25/2024	9/26/2024		580-144202-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW18	WL	RHMW18-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 11:25 AM	2409AK36B	ALASKA CARGO	027-34034011	9/25/2024	9/26/2024		1245584	7	7	S2BVEM	Sampled													•					•					
	RHMW18	WL	RHMW18-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-25 11:25 AM	2409SG36B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHMW19	WL	RHMW19-WGN01B-2409A	0	0	WG	N	1	B	2024-09-06 11:30 AM	2409SG17A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled																							•
	RHMW19	WL	RHMW19-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 12:30 PM	2409SG17A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHMW20	WL	RHMW20-WGN01B-2409A	0	0	WG	N	1	B									7	7	S2BVEM	Cancelled	did not want to interfere with UH study																						•
	RHMW20	WL	RHMW20-WGN01B-2409B	0	0	WG	N	1	B	2024-09-24 08:25 AM	2409SG18B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled																							•
	RHMW20	WL	RHMW20-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study								•														
	RHMW20	WL	RHMW20-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study		•		•						•														
	RHMW20	WL	RHMW20-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study												•				•						
	RHMW20	WL	RHMW20-WGN01LF-2409A	0	0	WG	N	1	LF									7	7	S2BVEM	Cancelled	did not want to interfere with UH study					•	•			•			•					•	•			•	•
	RHMW20	WL	RHMW20-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 09:05 AM	2409AP18B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled									•														
	RHMW20	WL	RHMW20-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 09:05 AM	2409EU18A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•						•												
	RHMW20	WL	RHMW20-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 09:05 AM	2409AK18B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•					
	RHMW20	WL	RHMW20-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 09:05 AM	2409SG18B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP01	WL	RHP01-WGN01B-2409B	0	0	WG	N	1	B	2024-09-19 11:40 AM	2409SG21B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled																							•
	RHP01	WL	RHP01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 12:15 PM	2409EU21B	ALASKA CARGO	027-34033904	9/19/2024	9/20/2024		580-144063-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP01	WL	RHP01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 12:15 PM	2409SG21B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP02	WL	RHP02-WGN01B-2409A	0	0	WG	N	1	B	2024-09-06 11:05 AM	2409SG22A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled																							•
	RHP02	WL	RHP02-WGN01B-2409B	0	0	WG	N	1	B	2024-09-19 10:05 AM	2409SG22B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled																							•
	RHP02	WL	RHP02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 11:40 AM	2409SG22A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP02	WL	RHP02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 10:40 AM	2409EU22B	ALASKA CARGO	027-34033904	9/19/2024	9/20/2024		580-144063-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP02	WL	RHP02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 10:40 AM	2409SG22B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP03	WL	RHP03-WGN01B-2409B	0	0	WG	N	1	B	2024-09-19 08:25 AM	2409SG23B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled																							•
	RHP03	WL	RHP03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 08:55 AM	2409EU23B	ALASKA CARGO	027-34033904	9/19/2024	9/20/2024		580-144063-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP03	WL	RHP03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 08:55 AM	2409SG23B	UNITED CARGO	016-38654254	9/19/2024	9/21/2024		FC19003	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409AK25A	ALASKA CARGO	027-34033930	9/11/2024	9/12/2024		1245258_Rev1	7	7	S2BVEM	Sampled													•					•					
	RHP04B	WL	RHP04B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AP25B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled									•														
	RHP04B	WL	RHP04B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409EU25A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•						•												
	RHP04B	WL	RHP04B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409EU25A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled													•										
	RHP04B	WL	RHP04B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AK25B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•					
	RHP04B	WL	RHP04B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409SG25B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP04C	WL	RHP04C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409AK26A	ALASKA CARGO	027-34033930	9/11/2024	9/12/2024		1245258_Rev1	7	7	S2BVEM	Sampled													•					•					
	RHP04C	WL	RHP04C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AP26B	FEDEX	279888734030	9/24/2025	9/25/2024		24I0217	7	7	S2BVEM	Sampled									•														
	RHP04C	WL	RHP04C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409EU26A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled			•		•						•												
	RHP04C	WL	RHP04C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409EU26A	ALASKA CARGO	027-34033996	9/24/2024	9/25/2024		580-144160-1	7	7	S4VEM	Sampled													•										
	RHP04C	WL	RHP04C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409AK26B	ALASKA CARGO	027-34487423	9/24/2024	9/25/2024		1245554	7	7	S2BVEM	Sampled													•					•					
	RHP04C	WL	RHP04C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-24 11:00 AM	2409SG26B	UNITED CARGO	016-58606295	9/26/2024	9/28/2024		FC19169	7	7	S2BVEM	Sampled; No SGC						•	•			•		•						•	•			•	•
	RHP06	WL	RHP06-WGN01B-2409A	0	0	WG	N	1	B	2024-09-06 08:45 AM	2409SG30A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024		FC18647	7	7	S4VEM	Sampled																							•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 September and Q3 GW LTM

Event ID: 2171

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP06	WL	RHP06-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:20 AM	2409SG30A	UNITED CARGO	016-90574746	9/6/2024	9/7/2024	(b) (4)	FC18647	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP06	WL	RHP06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 08:45 AM	2409AP30B	FEDEX	279754339095	9/20/2024	9/21/2024		24I0192	7	7	S2BVEM	Sampled								•																		
	RHP06	WL	RHP06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 08:45 AM	2409EU30B	ALASKA CARGO	027-34033985	9/20/2024	9/21/2024		580-144075-1	7	7	S2BVEM	Sampled			•		•							•														
	RHP06	WL	RHP06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 08:45 AM	2409AK30B	ALASKA CARGO	027- 34487482	9/23/2024	9/24/2024		1245512	7	7	S2BVEM	Sampled													•						•						
	RHP07	WL	RHP07-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 09:50 AM	2409EU28B	ALASKA CARGO	027-34033882	9/18/2024	9/19/2024		580-144019-1	7	7	S2BVEM	Sampled			•		•							•														
	RHP08B	WL	RHP08B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 12:30 PM	2409AP45B	FEDEX	280019676296	9/27/2024	9/28/2024		24I0256	7	7	S2BVEM	Sampled		•						•							•											
	RHP08B	WL	RHP08B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 12:30 PM	2409EN45B	UNITED CARGO	016-09914516	9/27/2024	9/28/2024		B24092589	7	7	S2BVEM	Sampled																						•	•		
	RHP08B	WL	RHP08B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 12:30 PM	2409EU45B	ALASKA CARGO	027-34487471	9/27/2024	9/28/2024		580-144292-1	7	7	S2BVEM	Sampled			•	•				•		•			•		•		•								
	RHP08B	WL	RHP08B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 12:30 PM	2409AK45B	ALASKA CARGO	027-34487460	9/30/2024	10/1/2024		1245703	7	7	S2BVEM	Sampled													•						•						
	RHP08B	WL	RHP08B-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 12:30 PM	2409SG45B	UNITED CARGO	016-58606306	9/27/2024	9/28/2024		FC19168	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08C	WL	RHP08C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:30 AM	2409AP44B	FEDEX	280019676296	9/27/2024	9/28/2024		24I0256	7	7	S2BVEM	Sampled								•																	
	RHP08C	WL	RHP08C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:30 AM	2409EU44B	ALASKA CARGO	027-34487471	9/27/2024	9/28/2024		580-144292-1	7	7	S2BVEM	Sampled			•		•							•														
	RHP08C	WL	RHP08C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:30 AM	2409AK44B	ALASKA CARGO	027-34487460	9/30/2024	10/1/2024		1245703	7	7	S2BVEM	Sampled													•						•						
	RHP08C	WL	RHP08C-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-27 10:30 AM	2409SG44B	UNITED CARGO	016-58606306	9/27/2024	9/28/2024		FC19168	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Alea	NMW24	WL	NMW24-WGN01B-2410A	0	0	WG	N	1	B	2024-10-15 08:15 AM	2410SG20A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024	(b) (4)	FC19577	7	7	S4VEM	Sampled																								•
	NMW24	WL	NMW24-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 08:45 AM	2410AP20A	FEDEX	280688575812	10/15/2024	10/16/2024		24J0158	7	7	S2BVEM	Sampled								•															
	NMW24	WL	NMW24-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 08:45 AM	2410EU20A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled			•		•							•												
	NMW24	WL	NMW24-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 08:45 AM	2410EU20A	UNITED CARGO	016-06082510	10/16/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled												•												
	NMW24	WL	NMW24-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 08:45 AM	2410AK20A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		1246066	7	7	S2BVEM	Sampled													•					•						
	NMW24	WL	NMW24-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 08:45 AM	2410SG20A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	NMW24	WL	NMW24-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 12:20 PM	2410AP20B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	NMW24	WL	NMW24-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 12:20 PM	2410EN20B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•	
	NMW24	WL	NMW24-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 12:20 PM	2410EU20B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•									•		•		•						
	NMW24	WL	NMW24-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 12:20 PM	2410EU20B	UNITED CARGO	016-20386181	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•												
	NMW24	WL	NMW24-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 12:20 PM	2410AK20B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024		1246341	7	7	S2BVEM	Sampled													•					•						
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 09:45 AM	2410AP29A	FEDEX	280821665187	10/18/2024	10/19/2024		24J0201	7	7	S2BVEM	Sampled								•																
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 09:45 AM	2410EU29A	ALASKA CARGO	027-34814426	10/18/2024	10/19/2024		580-144992-1	7	7	S2BVEM	Sampled			•		•																			
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 09:45 AM	2410EU29A	UNITED CARGO	016-83806984	10/18/2024	10/19/2024		580-144992-1	7	7	S2BVEM	Sampled												•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 09:45 AM	2410AK29A	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246155	7	7	S2BVEM	Sampled													•					•						
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 09:45 AM	2410SG29A	UNITED CARGO	016-40413671	10/18/2024	10/19/2024		FC19723	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:05 AM	2410AP29B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:05 AM	2410EN29B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•	
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:05 AM	2410EU29B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•									•		•		•						
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:05 AM	2410EU29B	UNITED CARGO	016-20386181	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:05 AM	2410AK29B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024		1246341	7	7	S2BVEM	Sampled													•					•						
	RHMW11-05	WL	RHMW11-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 01:10 PM	2410AP10A	FEDEX	280470111136	10/9/2024	10/10/2024		24J0107	7	7	S2BVEM	Sampled								•																
	RHMW11-05	WL	RHMW11-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 01:10 PM	2410EU10A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled			•		•																			
	RHMW11-05	WL	RHMW11-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 01:10 PM	2410EU10A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled												•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 01:10 PM	2410AK10A	ALASKA CARGO	027- 34034055	10/8/2024	10/9/2024		1245918	7	7	S4VEM	Sampled													•					•						
	RHMW11-05	WL	RHMW11-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 01:10 PM	2410SG10A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410AP10B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																
	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410EN10B	UNITED CARGO	UNITED CARGO	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																						•	•	
Halawa Correctional Facility	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410EU10B	ALASKA CARGO	027-34814496	10/24/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled			•		•							•		•		•								
	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410EU10B	UNITED CARGO	016-31848316	10/24/2024	10/9/2024		580-145138-1	7	7	S2BVEM	Sampled												•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410AK10B	ALASKA CARGO	027-34814592	10/24/2024	10/24/2024		1246200	7	7	S2BVEM	Sampled													•					•						
	RHMW11-05	WL	RHMW11-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 02:10 PM	2410SG10B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 11:20 AM	2410AP11A	FEDEX	280821665187	10/18/2024	10/19/2024		24J0201	7	7	S2BVEM	Sampled								•																
	RHMW12A	WL	RHMW12A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 11:20 AM	2410EU11A	ALASKA CARGO	027-34814426	10/18/2024	10/19/2024		580-144992-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW12A	WL	RHMW12A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 11:20 AM	2410EU11A	UNITED CARGO	016-83806984	10/18/2024	10/19/2024		580-144992-1	7	7	S2BVEM	Sampled												•												
	RHMW12A	WL	RHMW12A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 11:20 AM	2410AK11A	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246155	7	7	S2BVEM	Sampled													•					•						
	RHMW12A	WL	RHMW12A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-18 11:20 AM	2410SG11A	UNITED CARGO	016-40413671	10/18/2024	10/19/2024		FC19723	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 10:45 AM	2410AP11B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	RHMW12A	WL	RHMW12A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 10:45 AM	2410EN11B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•	
	RHMW12A	WL	RHMW12A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 10:45 AM	2410EU11B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•									•		•		•						
	RHMW12A	WL	RHMW12A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 10:45 AM	2410EU11B	UNITED CARGO	016-20386181	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•												
	RHMW12A	WL	RHMW12A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 10:45 AM	2410AK11B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024		1246341	7	7	S2BVEM	Sampled													•					•						
	RHMW14-03	WL	RHMW14-03-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 10:00 AM	2410AP13A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled								•																
	RHMW14-03	WL	RHMW14-03-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 10:00 AM	2410EU13A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled			•		•																			
	RHMW14-03	WL	RHMW14-03-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 10:00 AM	2410EU13A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled												•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 10:00 AM	2410AK13A	ALASKA CARGO	027- 34034055	10/8/2024	10/9/2024		1245918	7	7	S4VEM	Sampled													•					•						
	RHMW14-03	WL	RHMW14-03-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 10:00 AM	2410SG13A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•		•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410AP13B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410EN13B	UNITED CARGO	016-34577174	10/23/2024	10/23/2024		B24102171	7	7	S2BVEM	Sampled; No SGC																						•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410EU13B	ALASKA CARGO	027-34814485	10/23/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled			•		•							•		•		•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410EU13B	UNITED CARGO	016-31848316	10/24/2024	10/9/2024		580-145138-1	7	7	S2BVEM	Sampled												•												

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410AK13B	ALASKA CARGO	027-34814570	10/23/2024	10/24/2024	(b) (4)	1246200	7	7	S2BVEM	Sampled												•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2410B	0	0	WG	N	1	G	2024-10-23 09:40 AM	2410SG13B	UNITED CARGO	016-34386424	10/23/2024	10/25/2024		FC19854	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW25	WL	NMW25-WGN01B-2410A	0	0	WG	N	1	B	2024-10-15 09:55 AM	2410SG31A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled																								•
	NMW25	WL	NMW25-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 10:50 AM	2410AP31A	FEDEX	280688575812	10/15/2024	10/16/2024		24J0158	7	7	S2BVEM	Sampled									•															
	NMW25	WL	NMW25-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 10:50 AM	2410EU31A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled			•		•							•												
	NMW25	WL	NMW25-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 10:50 AM	2410EU31A	UNITED CARGO	016-06082510	10/16/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled												•												
	NMW25	WL	NMW25-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 10:50 AM	2410AK31A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		1246066	7	7	S2BVEM	Sampled													•							•					
	NMW25	WL	NMW25-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 10:50 AM	2410SG31A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW25	WL	NMW25-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 01:10 PM	2410AP31B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	NMW25	WL	NMW25-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 01:10 PM	2410EN31B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634	7	7	S4VEM	Sampled; No SGC																						•	•	
	NMW25	WL	NMW25-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 01:10 PM	2410EU31B	ALASKA CARGO	027-34814581	10/30/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled			•		•										•		•							
	NMW25	WL	NMW25-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 01:10 PM	2410EU31B	UNITED CARGO	016-20386181	10/31/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled												•												
	NMW25	WL	NMW25-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 01:10 PM	2410AK31B	ALASKA CARGO	027-34814636	10/30/2024	10/31/2024		1246315	7	7	S2BVEM	Sampled													•							•					
	NMW26	WL	NMW26-WGN01B-2410A	0	0	WG	N	1	B	2024-10-14 08:45 AM	2410SG37A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled																								•
	NMW26	WL	NMW26-WGN01B-2410B	0	0	WG	N	1	B	2024-10-28 11:45 AM	2410SG37B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled																								•
	NMW26	WL	NMW26-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 11:05 AM	2410AP37A	FEDEX	280636206791	10/14/2024	10/15/2024		24J0136	7	7	S2BVEM	Sampled									•															
	NMW26	WL	NMW26-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 11:05 AM	2410EU37A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled			•		•																			
	NMW26	WL	NMW26-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 11:05 AM	2410EU37A	UNITED CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled												•												
	NMW26	WL	NMW26-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 11:05 AM	2410AK37A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		1246046	7	7	S2BVEM	Sampled													•							•					
	NMW26	WL	NMW26-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 11:05 AM	2410SG37A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410AP37B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410EN37B	UNITED CARGO	016-26898734	10/28/2024	10/29/2024		B24102429	7	7	S2BVEM	Sampled; No SGC																						•	•	
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410EU37B	ALASKA CARGO	027-34814544	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled			•		•										•		•							
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410EU37B	UNITED CARGO	016-20386446	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled												•												
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410AK37B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled													•							•					
	NMW26	WL	NMW26-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 01:55 PM	2410SG37B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410AP38A	FEDEX	280511727959	10/10/2024	10/11/2024		24J0121	7	7	S2BVEM	Sampled		•						•									•							
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410EN38A	UNITED CARGO	016-50012362	10/9/2024	10/11/2024		B24101152	7	7	S2BVEM	Sampled; No SGC																						•	•	
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410EU38A	ALASKA CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled			•	•				•					•		•		•							
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410EU38A	UNITED CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled								•	•															
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410AK38A	ALASKA CARGO	027-34487644	10/9/2024	10/10/2024		1245952	7	7	S2BVEM	Sampled													•							•					
	NMW27	WL	NMW27-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 03:00 PM	2410SG38A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410AP38B	FEDEX	281171144371	10/28/2024	10/29/2024		24J0270	7	7	S2BVEM	Sampled																								
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410EN38B	UNITED CARGO	016-26898734	10/28/2024	10/11/2024		B24101152	7	7	S2BVEM	Sampled; No SGC																						•	•	
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410EU38B	ALASKA CARGO	027-34814544	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled			•		•																			
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410EU38B	UNITED CARGO	016-20386446	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled												•												
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410AK38B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled													•							•					
	NMW27	WL	NMW27-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:55 AM	2410SG38B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW30	WL	NMW30-WGN01B-2410A	0	0	WG	N	1	B	2024-10-17 12:05 PM	2410SG35A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled																								•
	NMW30	WL	NMW30-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 12:45 PM	2410AP35A	FEDEX	280780551298	10/17/2024	10/18/2024		24J0196	7	7	S2BVEM	Sampled									•															
	NMW30	WL	NMW30-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 12:45 PM	2410EU35A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled			•		•																			
	NMW30	WL	NMW30-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 12:45 PM	2410EU35A	UNITED CARGO	016-83806984	10/18/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled												•												
	NMW30	WL	NMW30-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 12:45 PM	2410AK35A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		1246127	7	7	S2BVEM	Sampled													•							•					
	NMW30	WL	NMW30-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 12:45 PM	2410SG35A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	NMW30	WL	NMW30-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 09:30 AM	2410AP35B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	NMW30	WL	NMW30-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 09:30 AM	2410EN35B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634	7	7	S4VEM	Sampled; No SGC																						•	•	
	NMW30	WL	NMW30-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 09:30 AM	2410EU35B	ALASKA CARGO	027-34814581	10/30/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled			•		•										•		•							
	NMW30	WL	NMW30-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 09:30 AM	2410EU35B	UNITED CARGO	016-20386181	10/31/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled												•												
	NMW30	WL	NMW30-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 09:30 AM	2410AK35B	ALASKA CARGO	027-34814636	10/30/2024	10/31/2024		1246315	7	7	S2BVEM	Sampled													•							•					
	NMW32	WL	NMW32-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-29 09:15 AM	2410AP32B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																
	NMW32	WL	NMW32-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-29 09:15 AM	2410EN32B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																						•	•	
	NMW32	WL	NMW32-WGN01B-2410A	0	0	WG	N	1	B	2024-10-17 10:35 AM	2410SG32A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled																								•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW32	WL	NMW32-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 11:10 AM	2410AP32A	FEDEX	280780551298	10/17/2024	10/18/2024	(b) (4)	24J0196	7	7	S2BVEM	Sampled									•															
	NMW32	WL	NMW32-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 11:10 AM	2410EU32A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled			•		•																				
	NMW32	WL	NMW32-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 11:10 AM	2410EU32A	UNITED CARGO	016-83806984	10/18/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled												•													
	NMW32	WL	NMW32-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 11:10 AM	2410AK32A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		1246127	7	7	S2BVEM	Sampled													•						•					
	NMW32	WL	NMW32-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 11:10 AM	2410SG32A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled; No SGC						•	•		•			•		•						•	•			•	•
	NMW32	WL	NMW32-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:15 AM	2410AP32B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																	
	NMW32	WL	NMW32-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:15 AM	2410EN32B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																						•	•		
	NMW32	WL	NMW32-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:15 AM	2410EU32B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•											•		•							
	NMW32	WL	NMW32-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:15 AM	2410EU32B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled												•													
	NMW32	WL	NMW32-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:15 AM	2410AK32B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled													•						•					
	NMW33	WL	NMW33-WGN01B-2410A	0	0	WG	N	1	B	2024-10-17 08:45 AM	2410SG34A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled																									•
	NMW33	WL	NMW33-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 09:25 AM	2410AP34A	FEDEX	280780551298	10/17/2024	10/18/2024		24J0196	7	7	S2BVEM	Sampled									•																
	NMW33	WL	NMW33-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 09:25 AM	2410EU34A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled			•		•																				
	NMW33	WL	NMW33-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 09:25 AM	2410EU34A	UNITED CARGO	016-83806984	10/18/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled												•													
	NMW33	WL	NMW33-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 09:25 AM	2410AK34A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		1246127	7	7	S2BVEM	Sampled													•						•					
	NMW33	WL	NMW33-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 09:25 AM	2410SG34A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled; No SGC						•	•		•			•		•						•	•			•	•
	NMW33	WL	NMW33-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 03:10 PM	2410AP34B	FEDEX	281263391458	10/30/2024	10/31/2024		24J0321	7	7	S2BVEM	Sampled		•						•																	
	NMW33	WL	NMW33-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 03:10 PM	2410EN34B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634	7	7	S4VEM	Sampled; No SGC																						•	•		
	NMW33	WL	NMW33-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 03:10 PM	2410EU34B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•											•		•							
	NMW33	WL	NMW33-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 03:10 PM	2410EU34B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled												•													
	NMW33	WL	NMW33-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 03:10 PM	2410AK34B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled													•						•					
	NMW34	WL	NMW34-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-29 12:35 PM	2410AP39B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																	
	NMW34	WL	NMW34-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-29 12:35 PM	2410EN39B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																						•	•		
	NMW34	WL	NMW34-WGN01B-2410A	0	0	WG	N	1	B	2024-10-17 12:20 PM	2410SG39A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled																									•
	NMW34	WL	NMW34-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 01:00 PM	2410AP39A	FEDEX	280780551298	10/17/2024	10/18/2024		24J0196	7	7	S2BVEM	Sampled									•																
	NMW34	WL	NMW34-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 01:00 PM	2410EU39A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled			•		•																				
	NMW34	WL	NMW34-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 01:00 PM	2410EU39A	UNITED CARGO	016-83806984	10/18/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled												•													
	NMW34	WL	NMW34-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 01:00 PM	2410AK39A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		1246127	7	7	S2BVEM	Sampled													•						•					
	NMW34	WL	NMW34-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 01:00 PM	2410SG39A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled; No SGC						•	•		•			•		•						•	•			•	•
	NMW34	WL	NMW34-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410AP39B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																	
	NMW34	WL	NMW34-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410EN39B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																						•	•		
	NMW34	WL	NMW34-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410EU39B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•											•		•							
	NMW34	WL	NMW34-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410EU33B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled												•													
	NMW34	WL	NMW34-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410AK39B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled													•						•					
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:20 AM	2410AP40A	FEDEX	280736234419	10/16/2024	10/17/2024		24J0172	7	7	S2BVEM	Sampled									•																
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:20 AM	2410EU40A	ALASKA CARGO	027-34487681	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled			•		•											•									
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:20 AM	2410EU40A	UNITED CARGO	016-06082510	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled												•													
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:20 AM	2410AK40A	ALASKA CARGO	027-34487666	10/16/2024	10/17/2024		1246090	7	7	S2BVEM	Sampled													•						•					
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:20 AM	2410SG40A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654	7	7	S2BVEM	Sampled; No SGC						•	•		•			•		•						•	•			•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 11:05 AM	2410AP40B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																	
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 11:05 AM	2410EN40B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•		
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 11:05 AM	2410EU40B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•											•		•							
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 11:05 AM	2410EU40B	UNITED CARGO	016-20386181	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•													
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 11:05 AM	2410AK40B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024		1246341	7	7	S2BVEM	Sampled													•						•					
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 11:00 AM	2410AP41A	FEDEX	280736234419	10/16/2024	10/17/2024		24J0172	7	7	S2BVEM	Sampled									•																
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 11:00 AM	2410EU40A	ALASKA CARGO	027-34487681	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled			•		•											•									
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 11:00 AM	2410EU41A	UNITED CARGO	016-06082510	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled												•													
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 11:00 AM	2410AK41A	ALASKA CARGO	027-34487666	10/16/2024	10/17/2024		1246090	7	7	S2BVEM	Sampled													•						•					
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 11:00 AM	2410SG41A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654	7	7	S2BVEM	Sampled; No SGC						•	•		•			•		•						•	•			•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:15 AM	2410AP41B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																	
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:15 AM	2410EN41B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•		
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:15 AM	2410EU41B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•											•		•							
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:15 AM	2410EU41B	UNITED CARGO	016-20386181	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•													

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 09:15 AM	2410AK41B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024	(b) (4)	1246341	7	7	S2BVEM	Sampled												•						•						
	RHMW01R	WL	RHMW01R-WGFD01B-2410B	0	0	WG	FD	1	B	2024-10-21 09:40 AM	2410SG01B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled																								•
	RHMW01R	WL	RHMW01R-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-21 10:15 AM	2410AP01B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•																
	RHMW01R	WL	RHMW01R-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-21 10:15 AM	2410EN01B	UNITED CARGO	016-23220562	10/21/2024	10/22/2024		B24101842			S2BVEM	Sampled																				•	•		
	RHMW01R	WL	RHMW01R-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-21 10:15 AM	2410SG01B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled						•							•				•	•			•	•
	RHMW01R	WL	RHMW01R-WGN01B-2410B	0	0	WG	N	1	B	2024-10-21 09:40 AM	2410SG01B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled; No SGC						•													•				•
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410AP01B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•																
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410EN01B	UNITED CARGO	016-23220562	10/21/2024	10/22/2024		B24101842	7	7	S2BVEM	Sampled																				•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410EU01B	ALASKA CARGO	027-34814371	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled			•		•									•		•							
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410EU01B	UNITED CARGO	016-34589144	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled											•												
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410AK01B	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246154	7	7	S4VEM	Sampled												•							•				
	RHMW01R	WL	RHMW01R-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:15 AM	2410SG01B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHMW02	WL	RHMW02-WGFD01B-2410A	0	0	WG	FD	1	B	2024-10-07 01:05 PM	2410SG02A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW02	WL	RHMW02-WGFD01LF-2410A	0	0	WG	FD	1	LF	2024-10-07 01:35 PM	2410SG02A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled						•							•				•	•			•	•
	RHMW02	WL	RHMW02-WGN01B-2410A	0	0	WG	N	1	B	2024-10-07 01:05 PM	2410SG02A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW02	WL	RHMW02-WGN01B-2410B	0	0	WG	N	1	B	2024-10-21 12:45 PM	2410SG02B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•
	RHMW02	WL	RHMW02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 01:35 PM	2410AP02A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled																								
	RHMW02	WL	RHMW02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 01:35 PM	2410EU02A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW02	WL	RHMW02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 01:35 PM	2410EU02A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled											•												
	RHMW02	WL	RHMW02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 01:35 PM	2410AK02A	ALASKA CARGO	027-34487563	10/7/2024	10/8/2024		1245891	7	7	S2BVEM	Sampled												•							•				
	RHMW02	WL	RHMW02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 01:35 PM	2410SG02A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHMW02	WL	RHMW02-WGN01B-2410B	0	0	WG	N	1	B	2024-10-21 01:30 PM	2410AP02B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•																
	RHMW02	WL	RHMW02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 01:30 PM	2410EN02B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled																				•	•		
	RHMW02	WL	RHMW02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 01:30 PM	2410EU02B	ALASKA CARGO	027-34814371	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled			•		•									•		•							
	RHMW02	WL	RHMW02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 01:30 PM	2410EU02B	UNITED CARGO	016-34589144	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled											•												
	RHMW02	WL	RHMW02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 01:30 PM	2410AK02B	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246154	7	7	S4VEM	Sampled												•							•				
	RHMW02	WL	RHMW02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 01:30 PM	2410SG02B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHMW03	WL	RHMW03-WGN01B-2410A	0	0	WG	N	1	B	2024-10-08 08:55 AM	2410SG03A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW03	WL	RHMW03-WGN01B-2410B	0	0	WG	N	1	B	2024-10-22 09:10 AM	2410SG03B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•
	RHMW03	WL	RHMW03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 09:25 AM	2410AP03A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled																								
	RHMW03	WL	RHMW03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 09:25 AM	2410EU03A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled			•		•																			
	RHMW03	WL	RHMW03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 09:25 AM	2410EU03A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled											•												
	RHMW03	WL	RHMW03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 09:25 AM	2410AK03A	ALASKA CARGO	027- 34034055	10/8/2024	10/9/2024		1245918	7	7	S4VEM	Sampled												•							•				
	RHMW03	WL	RHMW03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 09:25 AM	2410SG03A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410AP03B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•						•																
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410EN03B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled																				•	•		
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410EU03B	ALASKA CARGO	027-34814474	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled			•		•									•		•							
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410EU03B	UNITED CARGO	016-34589155	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled											•												
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410AK03B	ALASKA CARGO	027-3481455	10/22/2024	10/23/2024		1246171	7	7	S2BVEM	Sampled												•							•				
	RHMW03	WL	RHMW03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 09:45 AM	2410SG03B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHMW04	WL	RHMW04-WGN01B-2410A	0	0	WG	N	1	B	2024-10-15 08:45 AM	2410SG04A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled																								•
	RHMW04	WL	RHMW04-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 09:40 AM	2410AP04A	FEDEX	280688575812	10/15/2024	10/16/2024		24J0158	7	7	S2BVEM	Sampled																								
	RHMW04	WL	RHMW04-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 09:40 AM	2410EU04A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled			•		•									•										
	RHMW04	WL	RHMW04-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 09:40 AM	2410EU04A	UNITED CARGO	016-06082510	10/16/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled											•												
	RHMW04	WL	RHMW04-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 09:40 AM	2410AK04A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		1246066	7	7	S2BVEM	Sampled												•							•				
	RHMW04	WL	RHMW04-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 09:40 AM	2410SG04A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHMW04	WL	RHMW04-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:25 AM	2410AP04B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																
	RHMW04	WL	RHMW04-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:25 AM	2410EN04B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																				•	•		
	RHMW04	WL	RHMW04-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:25 AM	2410EU04B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•									•		•							
	RHMW04	WL	RHMW04-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:25 AM	2410EU04B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled											•												
	RHMW04	WL	RHMW04-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 09:25 AM	2410AK04B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled												•							•				
	RHMW05	WL	RHMW05-WGN01B-2410B	0	0	WG	N	1	B	2024-10-23 12:00 PM	2410SG05B	UNITED CARGO	016-34386424	10/23/2024	10/25/2024		FC19854	7	7	S2BVEM	Sampled																								•
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410AP05B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410EN05B	UNITED CARGO	016-34577174	10/23/2024	10/23/2024		B24102171	7	7	S2BVEM	Sampled																				•	•		
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410EU05B	ALASKA CARGO	027-34814485	10/23/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled			•		•									•		•							
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410EU05B	UNITED CARGO	016-31848316	10/24/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled											•												

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410AK05B	ALASKA CARGO	027-34814570	10/23/2024	10/24/2024	[redacted]	1246200	7	7	S2BVEM	Sampled												•											
	RHMW05	WL	RHMW05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 12:30 PM	2410SG05B	UNITED CARGO	016-34386424	10/23/2024	10/25/2024		FC19854	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW06	WL	RHMW06-WGN01B-2410A	0	0	WG	N	1	B	2024-10-10 10:10 AM	2410SG06A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled																						•
	RHMW06	WL	RHMW06-WGN01B-2410B	0	0	WG	N	1	B	2024-10-24 09:20 AM	2410SG06B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled																						•
	RHMW06	WL	RHMW06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 10:35 AM	2410AP06A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•													
	RHMW06	WL	RHMW06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 10:35 AM	2410EU08A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled			•		•																	
	RHMW06	WL	RHMW06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 10:35 AM	2410EU08A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled												•									
	RHMW06	WL	RHMW06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 10:35 AM	2410AK06A	ALASKA CARGO	027-34487655	10/10/2024	10/11/2024		1245988	7	7	S2BVEM	Sampled													•								
	RHMW06	WL	RHMW06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 10:35 AM	2410SG06A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410AP06B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•														
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410EN06B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																			•	•		
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410EU06B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled			•		•									•		•						
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410EU06B	UNITED CARGO	016-31848316	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled											•										
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410AK06B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled												•									
	RHMW06	WL	RHMW06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:00 AM	2410SG06B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW08	WL	RHMW08-WGN01B-2410A	0	0	WG	N	1	B	2024-10-01 08:20 AM	2410SG07A	UNITED CARGO	016-05997051	10/1/2024	10/3/2024		FC19288	7	7	S2BVEM	Sampled																						•
	RHMW08	WL	RHMW08-WGN01B-2410B	0	0	WG	N	1	B	2024-10-21 09:15 AM	2410SG07B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled																						•
	RHMW08	WL	RHMW08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 09:15 AM	2410AP07A	FEDEX	280149907760	10/1/2024	10/2/2024		24J0024	7	7	S2BVEM	Sampled								•													
	RHMW08	WL	RHMW08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 09:15 AM	2410EU07A	ALASKA CARGO	027-34487493	10/1/2024	10/2/2024		580-144383-1	7	7	S2BVEM	Sampled			•		•							•									
	RHMW08	WL	RHMW08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 09:15 AM	2410AK07A	ALASKA CARGO	027-34487493	10/1/2024	10/2/2024		1245728	7	7	S2BVEM	Sampled												•									
	RHMW08	WL	RHMW08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 09:15 AM	2410SG07A	UNITED CARGO	016-05997051	10/1/2024	10/3/2024		FC19288	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410AP07B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•														
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410EN07B	UNITED CARGO	016-23220562	10/21/2024	10/22/2024		B24101842	7	7	S2BVEM	Sampled; No SGC																			•	•		
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410EU07B	ALASKA CARGO	027-34814371	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled			•		•									•		•						
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410EU07B	UNITED CARGO	016-34589144	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled											•										
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410AK07B	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246154	7	7	S4VEM	Sampled												•									
	RHMW08	WL	RHMW08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 10:10 AM	2410SG07B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW09	WL	RHMW09-WGN01B-2410A	0	0	WG	N	1	B	2024-10-01 10:40 AM	2410SG08A	UNITED CARGO	016-05997051	10/1/2024	10/3/2024		FC19288	7	7	S2BVEM	Sampled																						•
	RHMW09	WL	RHMW09-WGN01B-2410B	0	0	WG	N	1	B	2024-10-25 08:45 AM	2410SG08B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled																						•
	RHMW09	WL	RHMW09-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 11:35 AM	2410AP08A	FEDEX	280149907760	10/1/2024	10/2/2024		24J0024	7	7	S2BVEM	Sampled								•													
	RHMW09	WL	RHMW09-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 11:35 AM	2410EU08A	ALASKA CARGO	027-34487493	10/1/2024	10/2/2024		580-144383-1	7	7	S2BVEM	Sampled			•		•							•									
	RHMW09	WL	RHMW09-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 11:35 AM	2410AK08A	ALASKA CARGO	027-34487493	10/1/2024	10/2/2024		1245728	7	7	S2BVEM	Sampled												•									
	RHMW09	WL	RHMW09-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-01 11:35 AM	2410SG08A	UNITED CARGO	016-05997051	10/1/2024	10/3/2024		FC19288	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410AP08B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•														
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410EN08B	UNITED CARGO	016-34577222	10/25/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																			•	•		
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410EU08B	ALASKA CARGO	027-34814511	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled			•		•									•		•						
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410EU08B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled											•										
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410AK08B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled												•									
	RHMW09	WL	RHMW09-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:45 AM	2410SG08B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW10	WL	RHMW10-WGN01B-2410A	0	0	WG	N	1	B	2024-10-11 08:35 AM	2410SG09A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled																						•
	RHMW10	WL	RHMW10-WGN01B-2410B	0	0	WG	N	1	B	2024-10-25 10:40 AM	2410SG09B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled																						•
	RHMW10	WL	RHMW10-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 09:35 AM	2410AP09A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•													
	RHMW10	WL	RHMW10-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 09:35 AM	2410EU09A	ALASKA CARGO	027-34487596	10/11/2024	10/12/2024		580-144787-1	7	7	S2BVEM	Sampled			•		•																	
	RHMW10	WL	RHMW10-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 09:35 AM	2410EU09A	UNITED CARGO	027-34487596	10/11/2024	10/12/2024		580-144787-1	7	7	S2BVEM	Sampled											•										
	RHMW10	WL	RHMW10-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 09:35 AM	2410AK09A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		1246046	7	7	S2BVEM	Sampled												•									
	RHMW10	WL	RHMW10-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 09:35 AM	2410SG09A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410AP09B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•														
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410EN09B	UNITED CARGO	016-34577222	10/25/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																			•	•		
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410EU09B	ALASKA CARGO	027-34814511	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled			•		•									•		•						
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410EU09B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled											•										
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410AK09B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled												•									
	RHMW10	WL	RHMW10-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 11:25 AM	2410SG09B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled; No SGC						•	•			•			•					•	•			•	•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Red Hill Bulk Fuel Storage Facility

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW13-04	WL	RHMW13-04-WGN01G-2410A	0	0	WG	N	1	G	2024-10-14 10:00 AM	2410AP12A	FEDEX	280636206791	10/14/2024	10/15/2024	(b) (4)	24J0136	7	7	S2BVEM	Sampled								•																
	RHMW13-04	WL	RHMW13-04-WGN01G-2410A	0	0	WG	N	1	G	2024-10-14 10:00 AM	2410EU12A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled			•		•																				
	RHMW13-04	WL	RHMW13-04-WGN01G-2410A	0	0	WG	N	1	G	2024-10-14 10:00 AM	2410EU12A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled												•												
	RHMW13-04	WL	RHMW13-04-WGN01G-2410A	0	0	WG	N	1	G	2024-10-14 10:00 AM	2410AK12A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		1246046	7	7	S2BVEM	Sampled													•						•					
	RHMW13-04	WL	RHMW13-04-WGN01G-2410A	0	0	WG	N	1	G	2024-10-14 10:00 AM	2410SG12A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410AP12B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•					•																		
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410EN12B	UNITED CARGO	016-26898734	10/28/2024	10/29/2024		B24102429	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410EU12B	ALASKA CARGO	027-34814544	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled			•		•											•		•						
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410EU12B	UNITED CARGO	016-20386446	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled												•												
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410AK12B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled													•						•					
	RHMW13-04	WL	RHMW13-04-WGN01G-2410B	0	0	WG	N	1	G	2024-10-28 10:55 AM	2410SG12B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW15-05	WL	RHMW15-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-07 09:50 AM	2410AP14A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled								•																
	RHMW15-05	WL	RHMW15-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-07 09:50 AM	2410EU14A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled			•		•																				
	RHMW15-05	WL	RHMW15-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-07 09:50 AM	2410EU14A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled												•												
	RHMW15-05	WL	RHMW15-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-07 09:50 AM	2410AK14A	ALASKA CARGO	027-34487563	10/7/2024	10/8/2024		1245891	7	7	S2BVEM	Sampled													•						•					
	RHMW15-05	WL	RHMW15-05-WGN01G-2410A	0	0	WG	N	1	G	2024-10-07 09:50 AM	2410SG14A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410AP14B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•																	
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410EN14B	UNITED CARGO	016-23220562	10/21/2024	10/22/2024		B24101842	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410EU14B	ALASKA CARGO	027-34814371	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled			•		•											•		•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410EU14B	UNITED CARGO	016-34589144	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled												•												
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410AK14B	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246154	7	7	S4VEM	Sampled													•						•					
	RHMW15-05	WL	RHMW15-05-WGN01G-2410B	0	0	WG	N	1	G	2024-10-21 10:00 AM	2410SG14B	UNITED CARGO	016-34386413	10/21/2024	10/23/2024		FC19769	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW16	WL	RHMW16-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:10 AM	2410AP15A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•																
	RHMW16	WL	RHMW16-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:10 AM	2410EU15A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled			•		•																				
	RHMW16	WL	RHMW16-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:10 AM	2410EU15A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled												•												
	RHMW16	WL	RHMW16-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:10 AM	2410AK15A	ALASKA CARGO	027-34487655	10/10/2024	10/11/2024		1245988	7	7	S2BVEM	Sampled													•						•					
	RHMW16	WL	RHMW16-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:10 AM	2410SG15A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410AP15B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•																	
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410EN15B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410EU15B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled			•		•											•		•						
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410EU15B	UNITED CARGO	016-31848316	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled												•												
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410AK15B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled													•						•					
	RHMW16	WL	RHMW16-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 09:50 AM	2410SG15B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW17	WL	RHMW17-WGFD01B-2410A	0	0	WG	FD	1	B	2024-10-14 08:30 AM	2410SG16A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled																									•
	RHMW17	WL	RHMW17-WGFD01B-2410B	0	0	WG	FD	1	B	2024-10-28 09:00 AM	2410SG16B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled																									•
	RHMW17	WL	RHMW17-WGFD01LF-2410A	0	0	WG	FD	1	LF	2024-10-14 09:15 AM	2410SG16A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled; No SGC						•							•						•	•			•	•
	RHMW17	WL	RHMW17-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-28 09:50 AM	2410AP16B	FEDEX	281171144371	10/28/2024	10/29/2024		24J0270	7	7	S2BVEM	Sampled		•																								
	RHMW17	WL	RHMW17-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-28 09:50 AM	2410EN16B	UNITED CARGO	016-26898734	10/28/2024	10/29/2024		B24102429	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHMW17	WL	RHMW17-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-28 09:50 AM	2410SG16B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled; No SGC						•							•						•	•			•	•
	RHMW17	WL	RHMW17-WGN01B-2410A	0	0	WG	N	1	B	2024-10-14 08:30 AM	2410SG16A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled																									•
	RHMW17	WL	RHMW17-WGN01B-2410B	0	0	WG	N	1	B	2024-10-28 09:00 AM	2410SG16B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024		FC19960	7	7	S2BVEM	Sampled																									•
	RHMW17	WL	RHMW17-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 09:15 AM	2410AP16A	FEDEX	280636206791	10/14/2024	10/15/2024		24J0136	7	7	S2BVEM	Sampled								•																
	RHMW17	WL	RHMW17-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 09:15 AM	2410EU16A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled			•		•																				
	RHMW17	WL	RHMW17-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 09:15 AM	2410EU16A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		580-144834-1	7	7	S2BVEM	Sampled												•												
	RHMW17	WL	RHMW17-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 09:15 AM	2410AK16A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		1246046	7	7	S2BVEM	Sampled													•						•					
	RHMW17	WL	RHMW17-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-14 09:15 AM	2410SG16A	UNITED CARGO	016-40413380	10/14/2024	10/16/2024		FC19552	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410AP16B	FEDEX	281171144371	10/28/2024	10/29/2024		24J0270	7	7	S2BVEM	Sampled		•						•																	
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410EN16B	UNITED CARGO	016-26898734	10/28/2024	10/29/2024		B24102429	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410EU16B	ALASKA CARGO	027-34814544	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled			•		•											•		•						
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410EU16B	UNITED CARGO	016-20386446	10/28/2024	10/28/2024		580-145231-1	7	7	S2BVEM	Sampled												•												
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410AK16B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled													•						•					

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW17	WL	RHMW17-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-28 09:50 AM	2410SG16B	UNITED CARGO	016-86095085	10/28/2024	10/30/2024	(b) (4)	FC19960	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW18	WL	RHMW18-WGN01B-2410A	0	0	WG	N	1	B	2024-10-17 09:10 AM	2410SG36A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled																									•
	RHMW18	WL	RHMW18-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 10:25 AM	2410AP36A	FEDEX	280780551298	10/17/2024	10/18/2024		24J0196	7	7	S2BVEM	Sampled								•																
	RHMW18	WL	RHMW18-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 10:25 AM	2410EU36A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW18	WL	RHMW18-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 10:25 AM	2410EU36A	UNITED CARGO	016-83806984	10/18/2024	10/18/2024		580-144954-1	7	7	S2BVEM	Sampled												•												
	RHMW18	WL	RHMW18-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 10:25 AM	2410AK36A	ALASKA CARGO	027-34487670	10/17/2024	10/18/2024		1246127	7	7	S2BVEM	Sampled													•						•					
	RHMW18	WL	RHMW18-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-17 10:25 AM	2410SG36A	UNITED CARGO	016-40413660	10/17/2024	10/19/2024		FC19703	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW18	WL	RHMW18-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 12:55 PM	2410AP36B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																
	RHMW18	WL	RHMW18-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 12:55 PM	2410EN36B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634	7	7	S4VEM	Sampled; No SGC																						•	•	
	RHMW18	WL	RHMW18-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 12:55 PM	2410EU36B	ALASKA CARGO	027-34814581	10/30/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled			•		•										•		•							
	RHMW18	WL	RHMW18-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 12:55 PM	2410EU36B	UNITED CARGO	016-20386181	10/31/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled												•												
	RHMW18	WL	RHMW18-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 12:55 PM	2410AK36B	ALASKA CARGO	027-34814636	10/30/2024	10/31/2024		1246315	7	7	S2BVEM	Sampled													•						•					
	RHMW19	WL	RHMW19-WGN01B-2410A	0	0	WG	N	1	B	2024-10-11 10:40 AM	2410SG17A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled																								•
	RHMW19	WL	RHMW19-WGN01B-2410B	0	0	WG	N	1	B	2024-10-25 11:25 AM	2410SG17B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled																								•
	RHMW19	WL	RHMW19-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 11:40 AM	2410AP17A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•																
	RHMW19	WL	RHMW19-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 11:40 AM	2410EU17A	ALASKA CARGO	027-34487596	10/11/2024	10/12/2024		580-144787-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW19	WL	RHMW19-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 11:40 AM	2410EU17A	UNITED CARGO	016-34577596	10/11/2024	10/12/2024		580-144787-1	7	7	S2BVEM	Sampled												•												
	RHMW19	WL	RHMW19-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 11:40 AM	2410AK17A	ALASKA CARGO	027-34487445	10/14/2024	10/15/2024		1246046	7	7	S2BVEM	Sampled													•						•					
	RHMW19	WL	RHMW19-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-11 11:40 AM	2410SG17A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410AP17B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•																
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410EN17B	UNITED CARGO	016-34577222	10/25/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																						•	•	
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410EU17B	ALASKA CARGO	027-34814511	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled			•		•										•		•							
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410EU17B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled												•												
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410AK17B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled													•						•					
	RHMW19	WL	RHMW19-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 12:25 PM	2410SG17B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW20	WL	RHMW20-WGN01B-2410A	0	0	WG	N	1	B	2024-10-16 12:05 PM	2410SG18A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654	7	7	S2BVEM	Sampled																								•
	RHMW20	WL	RHMW20-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 12:40 PM	2410AP18A	FEDEX	280736234419	10/16/2024	10/17/2024		24J0172	7	7	S2BVEM	Sampled								•																
	RHMW20	WL	RHMW20-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 12:40 PM	2410EU18A	ALASKA CARGO	027-34487681	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW20	WL	RHMW20-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 12:40 PM	2410EU18A	UNITED CARGO	016-06082510	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled												•												
	RHMW20	WL	RHMW20-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 12:40 PM	2410AK18A	ALASKA CARGO	027-34487666	10/16/2024	10/17/2024		1246090	7	7	S2BVEM	Sampled													•						•					
	RHMW20	WL	RHMW20-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 12:40 PM	2410SG18A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW20	WL	RHMW20-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 01:15 PM	2410AP18B	FEDEX	281341160521	11/1/2024	11/2/2024		24K0008	7	7	S2BVEM	Sampled		•						•																
	RHMW20	WL	RHMW20-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 01:15 PM	2410EN18B	UNITED CARGO	016-26916993	10/31/2024	11/1/2024		B24110059	7	7	S4VEM	Sampled; No SGC																						•	•	
	RHMW20	WL	RHMW20-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 01:15 PM	2410EU18B	ALASKA CARGO	027-34814452	10/31/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled			•		•										•		•							
	RHMW20	WL	RHMW20-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 01:15 PM	2410EU18B	UNITED CARGO	016-20381071	11/1/2024	11/1/2024		580-145397-1	7	7	S2BVEM	Sampled												•												
	RHMW20	WL	RHMW20-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-31 01:15 PM	2410AK18B	ALASKA CARGO	027-35071912	10/31/2024	11/1/2024		1246341	7	7	S2BVEM	Sampled													•						•					
	RHMW21	WL	RHMW21-WGFD01B-2410A	0	0	WG	FD	1	B	2024-10-07 09:35 AM	2410SG43A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW21	WL	RHMW21-WGFD01LF-2410A	0	0	WG	FD	1	LF	2024-10-07 10:10 AM	2410SG43A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•							•						•	•			•	•
	RHMW21	WL	RHMW21-WGN01B-2410A	0	0	WG	N	1	B	2024-10-07 09:35 AM	2410SG43A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW21	WL	RHMW21-WGN01B-2410B	0	0	WG	N	1	B	2024-10-21 02:00 PM	2410SG43B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•
	RHMW21	WL	RHMW21-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 10:10 AM	2410AP43A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled								•																
	RHMW21	WL	RHMW21-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 10:10 AM	2410EU43A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled			•		•																			
	RHMW21	WL	RHMW21-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 10:10 AM	2410EU43A	ALASKA CARGO	027-34487541	10/7/2024	10/8/2024		580-144598-1	7	7	S2BVEM	Sampled												•												
	RHMW21	WL	RHMW21-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 10:10 AM	2410AK43A	ALASKA CARGO	027-34487563	10/7/2024	10/8/2024		1245891	7	7	S2BVEM	Sampled													•						•					
	RHMW21	WL	RHMW21-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-07 10:10 AM	2410SG43A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410AP43B	FEDEX	280955837426	10/22/2024	10/23/2024		24J0215	7	7	S2BVEM	Sampled		•						•																
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410EN43B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled																						•	•	
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410EU43B	ALASKA CARGO	027-34814371	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled			•		•										•		•							
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410EU43B	UNITED CARGO	016-34589144	10/21/2024	10/22/2024		580-145049-1	7	7	S4VEM	Sampled												•												
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410AK43B	ALASKA CARGO	027-34814533	10/21/2024	10/22/2024		1246154	7	7	S4VEM	Sampled													•						•					
	RHMW21	WL	RHMW21-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-21 02:55 PM	2410SG43B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2410A	0	0	WG	N	1	B	2024-10-08 10:55 AM	2410SG19A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																								•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2410B	0	0	WG	N	1	B	2024-10-22 11:30 AM	2410SG19B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 11:20 AM	2410AP19A	FEDEX	280421161680	10/8/2024	10/9/2024	(b) (4)	24J0092	7	7	S2BVEM	Sampled								•																
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 11:20 AM	2410EU19A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled			•		•																					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 11:20 AM	2410EU19A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled												•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 11:20 AM	2410AK19A	ALASKA CARGO	027- 34034055	10/8/2024	10/9/2024		1245918	7	7	S4VEM	Sampled													•					•								
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-08 11:20 AM	2410SG19A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410AP19B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•						•																		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410EN19B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled; No SGC																							•	•		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410EU19B	ALASKA CARGO	027-34814474	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled			•		•										•			•		•						
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410EU19B	UNITED CARGO	016-34589155	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled												•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410AK19B	ALASKA CARGO	027-3481455	10/22/2024	10/23/2024		1246171	7	7	S2BVEM	Sampled													•					•								
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 12:10 PM	2410SG19B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP01	WL	RHP01-WGN01B-2410A	0	0	WG	N	1	B	2024-10-03 10:40 AM	2410SG21A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled																										•
	RHP01	WL	RHP01-WGN01B-2410B	0	0	WG	N	1	B	2024-10-24 11:20 AM	2410SG21B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled																										•
	RHP01	WL	RHP01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 11:10 AM	2410AP21A	FEDEX	280241096667	10/3/2024	10/4/2024		24J0064	7	7	S2BVEM	Sampled									•																	
	RHP01	WL	RHP01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 11:10 AM	2410EU21A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled			•		•																					
	RHP01	WL	RHP01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 11:10 AM	2410EU21A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled												•														
	RHP01	WL	RHP01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 11:10 AM	2410AK21A	ALASKA CARGO	027-34487515	10/3/2024	10/4/2024		1245801	7	7	S2BVEM	Sampled													•					•								
	RHP01	WL	RHP01-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 11:10 AM	2410SG21A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410AP21B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•																		
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410EN21B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled																							•	•		
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410EU21B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145175-1	7	7	S2BVEM	Sampled			•		•										•		•									
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410EU21B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145175-1	7	7	S2BVEM	Sampled												•														
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410AK21B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled													•					•								
	RHP01	WL	RHP01-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:05 PM	2410SG21B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP02	WL	RHP02-WGN01B-2410A	0	0	WG	N	1	B	2024-10-03 12:10 PM	2410SG22A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled																										•
	RHP02	WL	RHP02-WGN01B-2410B	0	0	WG	N	1	B	2024-10-24 12:00 PM	2410SG22B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled																										•
	RHP02	WL	RHP02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 12:35 PM	2410AP22A	FEDEX	280241096667	10/3/2024	10/4/2024		24J0064	7	7	S2BVEM	Sampled									•																	
	RHP02	WL	RHP02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 12:35 PM	2410EU22A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled			•		•																					
	RHP02	WL	RHP02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 12:35 PM	2410EU22A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled												•														
	RHP02	WL	RHP02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 12:35 PM	2410AK22A	ALASKA CARGO	027-34487515	10/3/2024	10/4/2024		1245801	7	7	S2BVEM	Sampled													•					•								
	RHP02	WL	RHP02-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 12:35 PM	2410SG22A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410AP22B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•																		
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410EN22B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																							•	•		
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410EU22B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145175-1	7	7	S2BVEM	Sampled			•		•										•		•									
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410EU22B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145175-1	7	7	S2BVEM	Sampled												•														
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410AK22B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled													•					•								
	RHP02	WL	RHP02-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 12:45 PM	2410SG22B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP03	WL	RHP03-WGN01B-2410A	0	0	WG	N	1	B	2024-10-09 08:10 AM	2410SG23A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																										•
	RHP03	WL	RHP03-WGN01B-2410B	0	0	WG	N	1	B	2024-10-24 11:15 AM	2410SG23B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled																										•
	RHP03	WL	RHP03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 08:55 AM	2410AP23A	FEDEX	280470111136	10/9/2024	10/10/2024		24J0107	7	7	S2BVEM	Sampled									•																	
	RHP03	WL	RHP03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 08:55 AM	2410EU23A	ALASKA CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled			•		•																					
	RHP03	WL	RHP03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 08:55 AM	2410EU23A	ALASKA CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled												•														
	RHP03	WL	RHP03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 08:55 AM	2410AK23A	ALASKA CARGO	027-34487644	10/9/2024	10/10/2024		1245952	7	7	S2BVEM	Sampled													•					•								
	RHP03	WL	RHP03-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 08:55 AM	2410SG23A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410AP23B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																		
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410EN23B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																							•	•		
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410EU23B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled			•		•										•		•									
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410EU23B	UNITED CARGO	016-31848316	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled												•														
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410AK23B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled													•					•								
	RHP03	WL	RHP03-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 11:50 AM	2410SG23B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP04A	WL	RHP04A-WGN01B-2410A	0	0	WG	N	1	B	2024-10-09 10:00 AM	2410SG24A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled																										•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP04A	WL	RHP04A-WGN01B-2410B	0	0	WG	N	1	B	2024-10-24 09:10 AM	2410SG24B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024	(b) (4)	FC19902	7	7	S2BVEM	Sampled																									•
	RHP04A	WL	RHP04A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 10:50 AM	2410AP24A	FEDEX	280470111136	10/9/2024	10/10/2024		24J0107	7	7	S2BVEM	Sampled								•																	
	RHP04A	WL	RHP04A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 10:50 AM	2410EU24A	ALASKA CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled			•		•																				
	RHP04A	WL	RHP04A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 10:50 AM	2410EU24A	ALASKA CARGO	027-34034044	10/9/2024	10/10/2024		580-144708-1	7	7	S4VEM	Sampled													•												
	RHP04A	WL	RHP04A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 10:50 AM	2410AK24A	ALASKA CARGO	027-34487644	10/9/2024	10/10/2024		1245952	7	7	S2BVEM	Sampled														•					•						
	RHP04A	WL	RHP04A-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-09 10:50 AM	2410SG24A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410AP24B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																	
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410EN24B	UNITED CARGO	016-34577196	10/24/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled																							•	•	
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410EU24B	ALASKA CARGO	027-34814496	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled			•		•										•		•								
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410EU24B	UNITED CARGO	016-31848316	10/24/2024	10/26/2024		580-145179-1	7	7	S2BVEM	Sampled													•												
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410AK24B	ALASKA CARGO	027-34814592	10/24/2024	10/25/2024		1246226	7	7	S2BVEM	Sampled														•					•						
	RHP04A	WL	RHP04A-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-24 10:15 AM	2410SG24B	UNITED CARGO	016-34394931	10/24/2024	10/26/2024		FC19902	7	7	S2BVEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:55 PM	2410AP25A	FEDEX	280688575812	10/15/2024	10/16/2024		24J0158	7	7	S2BVEM	Sampled								•																	
	RHP04B	WL	RHP04B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:55 PM	2410EU25A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled			•		•								•												
	RHP04B	WL	RHP04B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:55 PM	2410EU25A	UNITED CARGO	016-06082510	10/16/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled													•												
	RHP04B	WL	RHP04B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:55 PM	2410AK25A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		1246066	7	7	S2BVEM	Sampled														•					•						
	RHP04B	WL	RHP04B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:55 PM	2410SG26A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 11:55 AM	2410AP25B	FEDEX	281219701720	10/29/2024	10/30/2024		24J0307	7	7	S2BVEM	Sampled		•						•																	
	RHP04B	WL	RHP04B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 11:55 AM	2410EN26B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled																							•	•	
	RHP04B	WL	RHP04B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 11:55 AM	2410EU25B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•										•		•								
	RHP04B	WL	RHP04B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 11:55 AM	2410EU25B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled													•												
	RHP04B	WL	RHP04B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 11:55 AM	2410AK25B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled														•					•						
	RHP04C	WL	RHP04C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:20 PM	2410AP26A	FEDEX	280688575812	10/15/2024	10/16/2024		24J0158	7	7	S2BVEM	Sampled								•																	
	RHP04C	WL	RHP04C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:20 PM	2410EU26A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled			•		•								•												
	RHP04C	WL	RHP04C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:20 PM	2410EU26A	UNITED CARGO	016-06082510	10/16/2024	10/16/2024		580-144860-1	7	7	S2BVEM	Sampled													•												
	RHP04C	WL	RHP04C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:20 PM	2410AK26A	ALASKA CARGO	027-34814463	10/15/2024	10/16/2024		1246066	7	7	S2BVEM	Sampled														•					•						
	RHP04C	WL	RHP04C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-15 12:20 PM	2410SG26A	UNITED CARGO	016-40413645	10/15/2024	10/17/2024		FC19577	7	7	S4VEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP04C	WL	RHP04C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410AP26B	FEDEX	281263391458	10/30/2024	10/31/2024		24J0321	7	7	S2BVEM	Sampled		•						•																	
	RHP04C	WL	RHP04C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410EN26B	UNITED CARGO	016-26898745	10/29/2024	10/30/2024		B24102575	7	7	S4VEM	Sampled; No SGC																							•	•	
	RHP04C	WL	RHP04C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410EU26B	ALASKA CARGO	027-34487633	10/29/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled			•		•										•		•								
	RHP04C	WL	RHP04C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:35 PM	2410AK26B	ALASKA CARGO	027-35071901	10/29/2024	10/30/2024		1246307	7	7	S2BVEM	Sampled														•					•						
	RHP04C	WL	RHP04C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-29 12:55 PM	2410EU26B	UNITED CARGO	016-20386192	10/30/2024	10/30/2024		580-145281-1	7	7	S2BVEM	Sampled													•												
	RHP05	WL	RHP05-WGN01B-2410A	0	0	WG	N	1	B	2024-10-10 08:40 AM	2410SG27A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled																									•
	RHP05	WL	RHP05-WGN01B-2410B	0	0	WG	N	1	B	2024-10-25 08:40 AM	2410SG27B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled																									•
	RHP05	WL	RHP05-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:35 AM	2410AP27A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•																	
	RHP05	WL	RHP05-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:35 AM	2410EU27A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled			•		•								•												
	RHP05	WL	RHP05-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:35 AM	2410EU27A	UNITED CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled													•												
	RHP05	WL	RHP05-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:35 AM	2410AK27A	ALASKA CARGO	027-34487655	10/10/2024	10/11/2024		1245988	7	7	S2BVEM	Sampled														•					•						
	RHP05	WL	RHP05-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 09:35 AM	2410SG27A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410AP27B	FEDEX	281088446467	10/25/2024	10/26/2024		24J0254	7	7	S2BVEM	Sampled		•						•																	
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410EN27B	UNITED CARGO	016-34577222	10/25/2024	10/26/2024		B24102311	7	7	S2BVEM	Sampled; No SGC																							•	•	
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410EU27B	ALASKA CARGO	027-34814511	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled			•		•										•		•								
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410EU27B	UNITED CARGO	016-82256462	10/25/2024	10/26/2024		580-145178-1	7	7	S2BVEM	Sampled													•												
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410AK27B	ALASKA CARGO	027-35071890	10/28/2024	10/30/2024		1246277	7	7	S2BVEM	Sampled														•					•						
	RHP05	WL	RHP05-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-25 09:15 AM	2410SG27B	UNITED CARGO	016-31848375	10/25/2024	10/26/2024		FC19918	7	7	S2BVEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP06	WL	RHP06-WGN01B-2410A	0	0	WG	N	1	B	2024-10-10 10:45 AM	2410SG30A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled																									•
	RHP06	WL	RHP06-WGN01B-2410B	0	0	WG	N	1	B	2024-10-22 01:00 PM	2410SG30B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																									•
	RHP06	WL	RHP06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 11:50 AM	2410AP30A	FEDEX	280557196255	10/11/2024	10/12/2024		24J0126	7	7	S4VEM	Sampled								•																	
	RHP06	WL	RHP06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 11:50 AM	2410EU30A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled			•		•								•												
	RHP06	WL	RHP06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 11:50 AM	2410EU30A	ALASKA CARGO	027-34487585	10/10/2024	10/11/2024		580-144753-1	7	7	S2BVEM	Sampled													•												
	RHP06	WL	RHP06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 11:50 AM	2410AK30A	ALASKA CARGO	027-34487655	10/10/2024	10/11/2024		1245988	7	7	S2BVEM	Sampled														•					•						
	RHP06	WL	RHP06-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-10 11:50 AM	2410SG30A	UNITED CARGO	016-37252843	10/14/2024	10/15/2024		FC19525	7	7	S2BVEM	Sampled; No SGC						•	•			•			•							•	•			•	•
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410AP30B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•						•																	

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410EN30B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024	(b) (4)	B24102001	7	7	S2BVEM	Sampled; No SGC																									
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410EU30B	ALASKA CARGO	027-34814474	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled			•		•									•			•								
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410EU30B	UNITED CARGO	016-34589155	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled												•												
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410AK30B	ALASKA CARGO	027-3481455	10/22/2024	10/23/2024		1246171	7	7	S2BVEM	Sampled													•						•					
	RHP06	WL	RHP06-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 02:00 PM	2410SG30B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP07	WL	RHP07-WGN01B-2410B	0	0	WG	N	1	B	2024-10-23 09:52 AM	2410SG28B	UNITED CARGO	016-34386424	10/23/2024	10/25/2024		FC19854	7	7	S2BVEM	Sampled																								•
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410AP28B	FEDEX	281047289751	10/24/2024	10/25/2024		24J0245	7	7	S2BVEM	Sampled		•						•																
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410EN28B	UNITED CARGO	016-34577174	10/23/2024	10/23/2024		B24102171	7	7	S2BVEM	Sampled; No SGC																							•	•		
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410EU28B	ALASKA CARGO	027-34814485	10/23/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled			•		•									•			•								
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410EU28B	UNITED CARGO	016-31848316	10/24/2024	10/24/2024		580-145138-1	7	7	S2BVEM	Sampled												•												
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410AK28B	ALASKA CARGO	027-34814570	10/23/2024	10/24/2024		1246200	7	7	S2BVEM	Sampled													•							•				
	RHP07	WL	RHP07-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-23 10:30 AM	2410SG28B	UNITED CARGO	016-34386424	10/23/2024	10/25/2024		FC19854	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08	WL	RHP08-WGFD01B-2410A	0	0	WG	FD	1	B	2024-10-03 08:30 AM	2410SG33A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled																								•
	RHP08	WL	RHP08-WGFD01B-2410B	0	0	WG	FD	1	B	2024-10-22 09:25 AM	2410SG33B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•
	RHP08	WL	RHP08-WGFD01LF-2410A	0	0	WG	FD	1	LF	2024-10-03 09:10 AM	2410SG33A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled; No SGC						•															•	•			•	•
	RHP08	WL	RHP08-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-22 10:50 AM	2410AP33B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•																								
	RHP08	WL	RHP08-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-22 10:50 AM	2410EN33B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled; No SGC																							•	•		
	RHP08	WL	RHP08-WGFD01LF-2410B	0	0	WG	FD	1	LF	2024-10-22 10:50 AM	2410SG33B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC						•							•						•	•			•	•
	RHP08	WL	RHP08-WGN01B-2410A	0	0	WG	N	1	B	2024-10-03 08:30 AM	2410SG33A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled																								•
	RHP08	WL	RHP08-WGN01B-2410B	0	0	WG	N	1	B	2024-10-22 09:25 AM	2410SG33B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled																								•
	RHP08	WL	RHP08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 09:10 AM	2410AP33A	FEDEX	280241096667	10/3/2024	10/4/2024		24J0064	7	7	S2BVEM	Sampled														•											
	RHP08	WL	RHP08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 09:10 AM	2410EU33A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled			•		•																				
	RHP08	WL	RHP08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 09:10 AM	2410EU33A	ALASKA CARGO	027-34487552	10/3/2024	10/4/2024		580-144479-1	7	7	S2BVEM	Sampled													•											
	RHP08	WL	RHP08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 09:10 AM	2410AK33A	ALASKA CARGO	027-34487515	10/3/2024	10/4/2024		1245801	7	7	S2BVEM	Sampled														•						•				
	RHP08	WL	RHP08-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-03 09:10 AM	2410SG33A	UNITED CARGO	016-05998580	10/3/2024	10/5/2024		FC19366	7	7	S4VEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410AP33B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•						•																	
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410EN33B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled																							•	•		
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410EU33B	ALASKA CARGO	027-34814474	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled			•		•												•		•					
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410EU33B	UNITED CARGO	016-34589155	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled														•										
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410AK33B	ALASKA CARGO	027-3481455	10/22/2024	10/23/2024		1246171	7	7	S2BVEM	Sampled															•						•			
	RHP08	WL	RHP08-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-22 10:50 AM	2410SG33B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08B	WL	RHP08B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 10:40 AM	2410AP45A	FEDEX	280736234419	10/16/2024	10/17/2024		24J0172	7	7	S2BVEM	Sampled														•										
	RHP08B	WL	RHP08B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 10:40 AM	2410EU45A	ALASKA CARGO	027-34487681	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled			•		•																				
	RHP08B	WL	RHP08B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 10:40 AM	2410EU45A	UNITED CARGO	016-06082510	10/16/2024	10/17/2024		580-144901-1	7	7	S2BVEM	Sampled													•											
	RHP08B	WL	RHP08B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 10:40 AM	2410AK45A	ALASKA CARGO	027-34487666	10/16/2024	10/17/2024		1246090	7	7	S2BVEM	Sampled														•						•				
	RHP08B	WL	RHP08B-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 10:40 AM	2410SG45A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654	7	7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08B	WL	RHP08B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410AP45B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003	7	7	S2BVEM	Sampled		•						•																	
	RHP08B	WL	RHP08B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EN45B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634	7	7	S4VEM	Sampled; No SGC																							•	•		
	RHP08B	WL	RHP08B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EU45B	ALASKA CARGO	027-34814581	10/30/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled			•		•									•			•								
	RHP08B	WL	RHP08B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EU45B	UNITED CARGO	016-20386181	10/31/2024	10/31/2024		580-145334-1	7	7	S2BVEM	Sampled												•												
	RHP08B	WL	RHP08B-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410AK45B	ALASKA CARGO	027-34814636	10/30/2024	10/31/2024		1246315	7	7	S2BVEM	Sampled													•							•				
	RHP08C	WL	RHP08C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:30 AM	2410AP44A	FEDEX	280736234419	10/16/2024	10/17/2024		24J0172		7	S2BVEM	Sampled														•										
	RHP08C	WL	RHP08C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:30 AM	2410EU44A	ALASKA CARGO	027-34487681	10/16/2024	10/17/2024		580-144901-1		7	S2BVEM	Sampled			•		•																				
	RHP08C	WL	RHP08C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:30 AM	2410EU44A	UNITED CARGO	016-06082510	10/16/2024	10/4/2024		580-144901-1		7	S2BVEM	Sampled														•										
	RHP08C	WL	RHP08C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:30 AM	2410AK44A	ALASKA CARGO	027-34487666	10/16/2024	10/17/2024		1246090		7	S2BVEM	Sampled															•						•			
	RHP08C	WL	RHP08C-WGN01LF-2410A	0	0	WG	N	1	LF	2024-10-16 09:30 AM	2410SG44A	UNITED CARGO	016-40413656	10/16/2024	10/18/2024		FC19654		7	S2BVEM	Sampled; No SGC						•	•			•			•						•	•			•	•
	RHP08C	WL	RHP08C-WGN01B-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410AP44B	FEDEX	281305225156	10/31/2024	11/1/2024		24K0003		7	S2BVEM	Sampled		•						•																	
	RHP08C	WL	RHP08C-WGN01B-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EN44B	UNITED CARGO	016-26916982	10/30/2024	10/31/2024		B24102634		7	S4VEM	Sampled; No SGC																							•	•		
	RHP08C	WL	RHP08C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EU44B	ALASKA CARGO	027-34814581	10/30/2024	10/31/2024		580-145334-1		7	S2BVEM	Sampled			•		•									•			•								
	RHP08C	WL	RHP08C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410EU44B	UNITED CARGO	016-20386181	10/31/2024	10/31/2024		580-145334-1		7	S2BVEM	Sampled												•												
	RHP08C	WL	RHP08C-WGN01LF-2410B	0	0	WG	N	1	LF	2024-10-30 10:20 AM	2410AK44B	ALASKA CARGO	027-34814636	10/30/2024	10/31/2024		1246315		7	S2BVEM	Sampled														•							•				

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 October and Q4 GW LTM

Event ID: 2175

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	22MEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2410A	0	0	WG	FD	1	G	2024-10-08 11:10 AM	2410SG42A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024	(b) (4)	FC19455	7	7	S2BVEM	Sampled; No SGC						•								•					•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 11:10 AM	2410AP42A	FEDEX	280421161680	10/8/2024	10/9/2024		24J0092	7	7	S2BVEM	Sampled									•																	
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 11:10 AM	2410EU42A	ALASKA CARGO	027-34487526	10/8/2024	10/9/2024		580-144652-1	7	7	S4VEM	Sampled			•		•							•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 11:10 AM	2410EU42A	ALASKA CARGO	027-34487526	10/8/2024	10/23/2024		580-144652-1	7	7	S4VEM	Sampled												•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 11:10 AM	2410AK42A	ALASKA CARGO	027- 34034055	10/8/2024	10/9/2024		1245918	7	7	S4VEM	Sampled													•				•								
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410A	0	0	WG	N	1	G	2024-10-08 11:10 AM	2410SG42A	UNITED CARGO	016-04797461	10/10/2024	10/11/2024		FC19455	7	7	S2BVEM	Sampled; No SGC					•	•			•			•							•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410AP42B	FEDEX	281001673020	10/23/2024	10/24/2024		24J0226	7	7	S4VEM	Sampled		•					•																		
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410EN42B	UNITED CARGO	016-34502440	10/22/2024	10/23/2024		B24102001	7	7	S2BVEM	Sampled; No SGC																						•	•		
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410EU42B	ALASKA CARGO	027-34814474	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled			•		•											•			•						
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410EU42B	UNITED CARGO	016-34589155	10/22/2024	10/23/2024		580-145080-1	7	7	S2BVEM	Sampled												•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410AK42B	ALASKA CARGO	027-3481455	10/22/2024	10/23/2024		1246171	7	7	S2BVEM	Sampled													•				•								
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2410B	0	0	WG	N	1	G	2024-10-22 12:00 PM	2410SG42B	UNITED CARGO	016-30301445	10/22/2024	10/24/2024		FC19813	7	7	S2BVEM	Sampled; No SGC					•	•			•			•							•	•			•	•

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab [redacted]	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Alea	NMW24	WL	NMW24-WGN01B-2411A	0	0	WG	N	1	B	2024-11-11 08:40 AM	2411SG20A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled																•
	NMW24	WL	NMW24-WGN01B-2411B	0	0	WG	N	1	B	2024-11-22 08:15 AM	2411SG20B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled																•
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411AP20A	FEDEX	281679875639	11/11/2024	11/12/2024		24K0071			S2BVEM	Sampled						•										
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411EU20A	ALASKA CARGO	027-34814566	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled		•	•													
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411EU20A	UNITED CARGO	016-02559830	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled								•							
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411AK20A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled									•		•				
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411SG20A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW24	WL	NMW24-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:10 AM	2411SG20A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354				Sampled; No SGC													•			
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411AP20B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled						•										
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411EU20B	ALASKA CARGO	027-35072063	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled		•	•													
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411EU20B	UNITED CARGO	016-33119251	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled								•							
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411AK20B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•				
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411SG20B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW24	WL	NMW24-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 08:45 AM	2411SG20B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776				Sampled; No SGC													•			
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411AP29A	FEDEX	281870724140	11/15/2024	11/16/2024		24K0124			S2BVEM	Sampled						•										
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411EU29A	ALASKA CARGO	027- 35072122	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled		•	•													
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411EU29A	UNITED CARGO	016- 02667210	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled								•							
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411AK29A	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•				
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411SG29A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 08:55 AM	2411SG29A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518				Sampled; No SGC													•			
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411AP29B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411EU29B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411EU29B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411AK29B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•				
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411SG29B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 10:05 AM	2411SG29B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC													•			
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411AP10A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled						•										
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411EU10A	ALASKA CARGO	027-34814640	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled		•	•													
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411EU10A	UNITED CARGO	016-88175544	11/7/2024	11/7/2024		580-145577-1			S2BVEM	Sampled								•							
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411AK10A	ALASKA CARGO	027-35071923	11/6/2024	11/7/2024		1246429			S2BVEM	Sampled									•		•				
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411SG10A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 12:30 PM	2411SG10A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258				Sampled; No SGC													•			
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411AP10B	FEDEX	282115890435	11/21/2024	11/22/2024		24K0178			S2BVEM	Sampled						•										
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411EU10B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled		•	•													
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411EU10B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled								•							
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411AK10B	ALASKA CARGO	027-35072144	11/20/2024	11/21/2024		1246643			S2BVEM	Sampled									•		•				
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411SG10B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 01:10 PM	2411SG10B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681				Sampled; No SGC													•			
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411AP11A	FEDEX	281870724140	11/15/2024	11/16/2024		24K0124			S2BVEM	Sampled						•										
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411EU11A	ALASKA CARGO	027- 35072122	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled		•	•													
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411EU11A	UNITED CARGO	016- 02667210	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled								•							
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411AK11A	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•				
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411SG11A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 10:15 AM	2411SG11A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518				Sampled; No SGC													•			
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411AP11B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled						•										
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411EU11B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411EU11B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled								•							
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411AK11B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled									•		•				
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411SG11B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:50 AM	2411SG11B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC													•			
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411AP13A	FEDEX	281513721537	11/6/2024	11/7/2024		24K0036			S4VEM	Sampled						•										
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411EU13A	ALASKA CARGO	027-34814640	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled		•	•													

Halawa Correctional Facility

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411EU13A	UNITED CARGO	016-88161776	11/6/2024	11/7/2024	(b) (4)	580-145577-1			S2BVEM	Sampled								•								
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411AK13A	ALASKA CARGO	027-35071923	11/6/2024	11/7/2024		1246429			S2BVEM	Sampled									•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411SG13A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2411A	0	0	WG	N	1	G	2024-11-06 09:30 AM	2411SG13A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258				Sampled; No SGC														•		
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411AP13B	FEDEX	282067235348	11/20/2024	11/21/2024		24K0158			S2BVEM	Sampled						•										
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411EU13B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled		•	•													
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411EU13B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled								•							
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411AK13B	ALASKA CARGO	027-35072144	11/20/2024	11/21/2024		1246643			S2BVEM	Sampled									•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411SG13B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2411B	0	0	WG	N	1	G	2024-11-20 10:00 AM	2411SG13B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681				Sampled; No SGC														•		
	NMW25	WL	NMW25-WGN01B-2411A	0	0	WG	N	1	B	2024-11-11 10:30 AM	2411SG31A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled																•
	NMW25	WL	NMW25-WGN01B-2411B	0	0	WG	N	1	B	2024-11-26 08:35 AM	2411SG31B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled																•
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411AP31A	FEDEX	281679875639	11/11/2024	11/12/2024		24K0071			S2BVEM	Sampled						•										
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411EU31A	ALASKA CARGO	027-34814566	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled		•	•													
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411EU31A	UNITED CARGO	016-02559830	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled								•							
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411AK31A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled									•		•					
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411SG31A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW25	WL	NMW25-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411SG31A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354				Sampled; No SGC														•		
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411AP31B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled						•										
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411EU31B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411EU31B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled								•							
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411AK31B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled									•		•					
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411SG31B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW25	WL	NMW25-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:05 AM	2411SG31B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC														•		
	NMW26	WL	NMW26-WGN01B-2411A	740.5	770.5	WG	N	1	B	2024-11-12 08:50 AM	2411SG37A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled																•
	NMW26	WL	NMW26-WGN01B-2411B	740.5	770.5	WG	N	1	B	2024-11-25 09:40 AM	2411SG37B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled																•
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411AP37A	FEDEX	281731715786	11/12/2024	11/13/2024		24K0086			S2BVEM	Sampled						•										
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411EU37A	ALASKA CARGO	027-35072030	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled		•	•													
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411EU37A	UNITED CARGO	016-02612536	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled								•							
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411AK37A	ALASKA CARGO	027-35072004	11/12/2024	11/13/2024		1246530			S2BVEM	Sampled									•		•					
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411SG37A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW26	WL	NMW26-WGN01LF-2411A	740.5	770.5	WG	N	1	LF	2024-11-12 10:40 AM	2411SG37A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403				Sampled; No SGC														•		
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411AP37B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411EU37B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411EU37B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411AK37B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•					
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411SG37B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW26	WL	NMW26-WGN01LF-2411B	740.5	770.5	WG	N	1	LF	2024-11-25 11:40 AM	2411SG37B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC														•		
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411AP38A	FEDEX	281870724140	11/15/2024	11/16/2024		24K0124			S2BVEM	Sampled						•										
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411EU38A	ALASKA CARGO	027- 35072122	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled		•	•													
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411EU38A	UNITED CARGO	016- 02667210	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled								•							
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411AK38A	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•					
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411SG38A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW27	WL	NMW27-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 11:20 AM	2411SG38A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518				Sampled; No SGC														•		
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411AP38B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled						•										
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411EU38B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411EU38B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411AK38B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•					
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411SG38B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW27	WL	NMW27-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:35 PM	2411SG38B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC														•		
	NMW30	WL	NMW30-WGN01B-2411A	0	0	WG	N	1	B	2024-11-14 08:15 AM	2411SG35A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled																•
	NMW30	WL	NMW30-WGN01B-2411B	0	0	WG	N	1	B	2024-11-26 09:00 AM	2411SG35B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled																•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411AP35A	FEDEX	281825289531	11/14/2024	11/15/2024	(b) (4)	24K0115			S2BVEM	Sampled						•										
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411EU35A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled		•	•													
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411EU35A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled							•								
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411AK35A	ALASKA CARGO	027-35072052	11/14/2024	11/15/2024		1246572			S2BVEM	Sampled								•		•					
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411SG35A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled; No SGC				•	•		•		•		•		•		•	•
	NMW30	WL	NMW30-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 08:55 AM	2411SG35A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484				Sampled; No SGC												•			
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411AP35B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411EU35B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411EU35B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled							•								
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411AK35B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled								•		•					
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411SG35B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•		•		•		•		•	•
	NMW30	WL	NMW30-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 09:40 AM	2411SG35B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC												•			
	NMW32	WL	NMW32-WGFD01B-2411B	0	0	WG	FD	1	B	2024-11-25 10:40 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled															•
	NMW32	WL	NMW32-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-25 11:10 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•					•		•		•	•	•	•
	NMW32	WL	NMW32-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-25 11:10 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC												•			
	NMW32	WL	NMW32-WGN01B-2411B	0	0	WG	N	1	B	2024-11-25 10:40 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled															•
	NMW32	WL	NMW32-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411AP32A	FEDEX	281778987892	11/13/2024	11/14/2024		24K0099			S2BVEM	Sampled					•										
	NMW32	WL	NMW32-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411EU32A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled		•	•													
	NMW32	WL	NMW32-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411EU32A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled							•								
	NMW32	WL	NMW32-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411AK32A	ALASKA CARGO	027- 35071956	11/13/2024	11/14/2024		1246543			S2BVEM	Sampled								•		•					
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411AP32B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled					•										
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411EU32B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411EU32B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled							•								
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411AK32B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled								•		•					
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•		•		•		•		•	•
	NMW32	WL	NMW32-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 11:10 AM	2411SG32B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC												•			
	NMW33	WL	NMW33-WGN01B-2411B	0	0	WG	N	1	B	2024-11-25 08:55 AM	2411SG34B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled															•
	NMW33	WL	NMW33-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 11:25 AM	2411AP34A	FEDEX	281778987892	11/13/2024	11/14/2024		24K0099			S2BVEM	Sampled					•										
	NMW33	WL	NMW33-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 11:25 AM	2411EU34A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled		•	•													
	NMW33	WL	NMW33-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 11:25 AM	2411EU34A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled							•								
	NMW33	WL	NMW33-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 11:25 AM	2411AK34A	ALASKA CARGO	027- 35071956	11/13/2024	11/14/2024		1246543			S2BVEM	Sampled								•		•					
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411AP34B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled					•										
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411EU34B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411EU34B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled							•								
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411AK34B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled								•		•					
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411SG34B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•		•		•		•		•	•
	NMW33	WL	NMW33-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 09:25 AM	2411SG34B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC												•			
	NMW34	WL	NMW34-WGFD01B-2411A	0	0	WG	FD	1	B	2024-11-15 08:20 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled															•
	NMW34	WL	NMW34-WGFD01B-2411B	0	0	WG	FD	1	B	2024-11-25 12:38 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled															•
	NMW34	WL	NMW34-WGFD01LF-2411A	0	0	WG	FD	1	LF	2024-11-15 09:10 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled; No SGC					•				•		•		•	•	•	•
	NMW34	WL	NMW34-WGFD01LF-2411A	0	0	WG	FD	1	LF	2024-11-15 09:10 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518				Sampled; No SGC												•			
	NMW34	WL	NMW34-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-25 01:00 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC					•				•		•		•	•	•	•
	NMW34	WL	NMW34-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-25 01:00 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC												•			
	NMW34	WL	NMW34-WGN01B-2411A	0	0	WG	N	1	B	2024-11-15 08:20 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled															•
	NMW34	WL	NMW34-WGN01B-2411B	0	0	WG	N	1	B	2024-11-25 12:38 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled															•
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411AP39A	FEDEX	281870724140	11/15/2024	11/16/2024		24K0124			S2BVEM	Sampled					•										
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411EU39A	ALASKA CARGO	027- 35072122	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled		•	•													
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411EU39A	UNITED CARGO	016- 02667210	11/15/2024	11/16/2024		580-145872-1			S2BVEM	Sampled							•								
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411AK39A	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled								•		•					
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518			S2BVEM	Sampled; No SGC				•	•		•		•		•		•		•	•
	NMW34	WL	NMW34-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-15 09:10 AM	2411SG39A	UNITED CARGO	016- 11151722	11/15/2024	11/16/2024		FC20518				Sampled; No SGC												•			
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411AP39B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411EU39B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024	(b) (4)	580-146131-1			S2BVEM	Sampled		•	•													
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411EU39B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411AK39B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•				
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	NMW34	WL	NMW34-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:00 PM	2411SG39B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC														•		
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411AP40A	FEDEX	281778987892	11/13/2024	11/14/2024		24K0099			S2BVEM	Sampled						•									
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411EU40A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled		•	•													
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411EU40A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled							•								
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 09:30 AM	2411AK40A	ALASKA CARGO	027- 35071956	11/13/2024	11/14/2024		1246543			S2BVEM	Sampled								•		•					
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411AP40B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411EU40B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411EU40B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411AK40B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•				
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411SG40B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 01:45 PM	2411SG40B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC														•		
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:35 AM	2411AP41A	FEDEX	281778987892	11/13/2024	11/14/2024		24K0099			S2BVEM	Sampled						•									
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:35 AM	2411EU41A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled		•	•													
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:35 AM	2411EU41A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled								•							
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:35 AM	2411AK41A	ALASKA CARGO	027- 35071956	11/13/2024	11/14/2024		1246543			S2BVEM	Sampled									•		•				
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411AP41B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411EU41B	ALASKA CARGO	027-35217136	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled		•	•													
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411EU41B	UNITED CARGO	016-33153632	11/25/2024	11/26/2024		580-146131-1			S2BVEM	Sampled								•							
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411AK41B	ALASKA CARGO	027-35217206	11/25/2024	11/26/2024		1246691			S2BVEM	Sampled									•		•				
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411SG41B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-25 03:05 PM	2411SG41B	UNITED CARGO	016-34235062	11/25/2024	11/27/2024		FC20861				Sampled; No SGC														•		
	RHMW01R	WL	RHMW01R-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 10:15 AM	2411AP01A	FEDEX	281423483693	11/4/2024	11/5/2024		24K0017			S2BVEM	Sampled						•									
	RHMW01R	WL	RHMW01R-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 10:15 AM	2411EU01A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHMW01R	WL	RHMW01R-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 10:15 AM	2411EU01A	UNITED CARGO	016-88161732	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•							
	RHMW01R	WL	RHMW01R-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 10:15 AM	2411AK01A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024		1246372			S4VEM	Sampled									•		•				
	RHMW01R	WL	RHMW01R-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 09:40 AM	2411AP01B	FEDEX	281964631386	11/18/2024	11/19/2024		24K0135			S4VEM	Sampled					•										
	RHMW01R	WL	RHMW01R-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 09:40 AM	2411EU01B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled		•	•													
	RHMW01R	WL	RHMW01R-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 09:40 AM	2411EU01B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled								•							
	RHMW01R	WL	RHMW01R-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 09:40 AM	2411AK01B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•				
	RHMW02	WL	RHMW02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:45 AM	2411AP02A	FEDEX	281423483693	11/4/2024	11/5/2024		24K0017			S2BVEM	Sampled						•									
	RHMW02	WL	RHMW02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:45 AM	2411EU02A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHMW02	WL	RHMW02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:45 AM	2411EU02A	UNITED CARGO	016-88161732	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•							
	RHMW02	WL	RHMW02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:45 AM	2411AK02A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024		1246372			S4VEM	Sampled									•		•				
	RHMW02	WL	RHMW02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 10:55 AM	2411AP02B	FEDEX	281964631386	11/18/2024	11/19/2024		24K0135			S4VEM	Sampled					•										
	RHMW02	WL	RHMW02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 10:55 AM	2411EU02B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled		•	•													
	RHMW02	WL	RHMW02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 10:55 AM	2411EU02B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled								•							
	RHMW02	WL	RHMW02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 10:55 AM	2411AK02B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•				
	RHMW03	WL	RHMW03-WGN01B-2411A	0	0	WG	N	1	B	2024-11-05 08:55 AM	2411SG03A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled																•
	RHMW03	WL	RHMW03-WGN01B-2411B	0	0	WG	N	1	B	2024-11-19 09:10 AM	2411SG03B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled																•
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411AP03A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•									
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411EU03A	ALASKA CARGO	027-35071993	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled		•	•													
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411EU03A	UNITED CARGO	016-88161754	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled								•							
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411AK03A	ALASKA CARGO	027-34814500	11/5/2024	11/6/2024		1246415			S2BVEM	Sampled									•		•				
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411SG03A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW03	WL	RHMW03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 09:30 AM	2411SG03A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217				Sampled; No SGC														•		
	RHMW03	WL	RHMW03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:35 AM	2411AP03B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled						•									
	RHMW03	WL	RHMW03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:35 AM	2411EU03B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHMW03	WL	RHMW03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:35 AM	2411EU03B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled								•							
	RHMW03	WL	RHMW03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:35 AM	2411AK03B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled									•		•				
	RHMW03	WL	RHMW03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:35 AM	2411SG03B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled				•	•		•			•		•	•	•	•	•
	RHMW04	WL	RHMW04-WGN01B-2411A	0	0	WG	N	1	B	2024-11-11 08:30 AM	2411SG04A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled																•

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW04	WL	RHMW04-WGN01B-2411B	0	0	WG	N	1	B	2024-11-26 11:30 AM	2411SG04B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024	(b) (4)	FC20885			S2BVEM	Sampled																•
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411AP04A	FEDEX	281679875639	11/11/2024	11/12/2024		24K0071			S2BVEM	Sampled						•										
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411EU04A	ALASKA CARGO	027-34814566	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled		•	•													
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411EU04A	UNITED CARGO	016-02559830	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled									•							
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411AK04A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled										•		•				
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411SG04A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 09:20 AM	2411SG04A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354				Sampled; No SGC												•				
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411AP04B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled						•										
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411EU04B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411EU04B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled								•								
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411AK04B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled									•		•					
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411SG04B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW04	WL	RHMW04-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411SG04B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC												•				
	RHMW05	WL	RHMW05-WGN01B-2411A	0	0	WG	N	1	B	2024-11-06 11:25 AM	2411SG05A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled																•
	RHMW05	WL	RHMW05-WGN01B-2411B	0	0	WG	N	1	B	2024-11-20 10:40 AM	2411SG05B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled																•
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411AP05A	FEDEX	281513721537	11/6/2024	11/7/2024		24K0036			S4VEM	Sampled						•										
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411EU05A	ALASKA CARGO	027-34814640	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled		•	•													
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411EU05A	UNITED CARGO	016-88161776	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled								•								
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411AK05A	ALASKA CARGO	027-35071923	11/6/2024	11/7/2024		1246429			S2BVEM	Sampled									•		•					
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411SG05A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW05	WL	RHMW05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 11:55 AM	2411SG05A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258				Sampled; No SGC												•				
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411AP05B	FEDEX	282067235348	11/20/2024	11/21/2024		24K0158			S2BVEM	Sampled						•										
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411EU05B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled		•	•													
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411EU05B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled								•								
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411AK05B	ALASKA CARGO	027-35072144	11/20/2024	11/21/2024		1246643			S2BVEM	Sampled									•		•					
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411SG05B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW05	WL	RHMW05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 11:05 AM	2411SG05B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681				Sampled; No SGC												•				
	RHMW06	WL	RHMW06-WGN01B-2411A	0	0	WG	N	1	B	2024-11-07 09:50 AM	2411SG06A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled																•
	RHMW06	WL	RHMW06-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 10:35 AM	2411SG06B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled																•
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411AP06A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled						•										
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411EU06A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411EU06A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•								
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411AK06A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled									•		•					
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411SG06A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW06	WL	RHMW06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 10:40 AM	2411SG06A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC												•				
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411AP06B	FEDEX	282115890435	11/21/2024	11/22/2024		24K0178			S2BVEM	Sampled						•										
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411EU06B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled		•	•													
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411EU06B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled								•								
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411AK06B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled									•		•					
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411SG06B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW06	WL	RHMW06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:25 AM	2411SG06B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC												•				
	RHMW08	WL	RHMW08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 01:30 PM	2411AP07A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•										
	RHMW08	WL	RHMW08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 01:30 PM	2411EU07A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHMW08	WL	RHMW08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 01:30 PM	2411EU07A	UNITED CARGO	016-88161754	11/5/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•								
	RHMW08	WL	RHMW08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 01:30 PM	2411AK07A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024		1246372			S4VEM	Sampled									•		•					
	RHMW08	WL	RHMW08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 11:20 AM	2411AP07B	FEDEX	281964631386	11/18/2024	11/19/2024		24K0135			S4VEM	Sampled						•										
	RHMW08	WL	RHMW08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 11:20 AM	2411EU07B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled		•	•													
	RHMW08	WL	RHMW08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 11:20 AM	2411EU07B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled								•								
	RHMW08	WL	RHMW08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 11:20 AM	2411AK07B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•					
	RHMW09	WL	RHMW09-WGN01B-2411A	0	0	WG	N	1	B	2024-11-08 09:50 AM	2411SG08A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled																•
	RHMW09	WL	RHMW09-WGN01B-2411B	0	0	WG	N	1	B	2024-11-22 11:25 AM	2411SG08B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled																•
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411AP08A	FEDEX	281597989998	11/8/2024	11/9/2024		24K0062			S2BVEM	Sampled						•										
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411EU08A	ALASKA CARGO	027-35072026	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled		•	•													
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411EU08A	UNITED CARGO	016-88175544	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled								•								

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411AK08A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024	(b) (4)	1246509			S2BVEM	Sampled								•		•						
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411SG08A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW09	WL	RHMW09-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 10:30 AM	2411SG08A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309				Sampled; No SGC													•			
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411AP08B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411EU08B	ALASKA CARGO	027-35072063	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled		•	•													
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411EU08B	UNITED CARGO	016-33119251	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled								•							
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411AK08B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•				
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411SG08B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW09	WL	RHMW09-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 12:15 PM	2411SG08B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776				Sampled; No SGC													•			
	RHMW10	WL	RHMW10-WGN01B-2411A	0	0	WG	N	1	B	2024-11-08 10:40 AM	2411SG09A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled															•
	RHMW10	WL	RHMW10-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 12:55 PM	2411SG09B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled															•
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411AP09A	FEDEX	281597989998	11/8/2024	11/9/2024		24K0062			S2BVEM	Sampled						•										
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411EU09A	ALASKA CARGO	027-35072026	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled		•	•													
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411EU09A	UNITED CARGO	016-88175544	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled								•							
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411AK09A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled									•		•				
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411SG09A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW10	WL	RHMW10-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 11:45 AM	2411SG09A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309				Sampled; No SGC													•			
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411AP09B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled						•										
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411EU09B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled		•	•													
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411EU09B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled								•							
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411AK09B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled									•		•				
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411SG09B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW10	WL	RHMW10-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 02:00 PM	2411SG09B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC													•			
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411AP12A	FEDEX	281731715786	11/12/2024	11/13/2024		24K0086			S2BVEM	Sampled						•										
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411EU12A	ALASKA CARGO	027-35072030	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled		•	•													
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411EU12A	UNITED CARGO	016-02612536	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled								•							
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411AK12A	ALASKA CARGO	027-35072004	11/12/2024	11/13/2024		1246530			S2BVEM	Sampled									•		•				
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411SG12A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2411A	0	0	WG	N	1	G	2024-11-12 10:00 AM	2411SG12A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403				Sampled; No SGC													•			
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411AP12B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411EU12B	ALASKA CARGO	027-35072063	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled		•	•													
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411EU12B	UNITED CARGO	016-33119251	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled								•							
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411AK12B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•				
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411SG12B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2411B	0	0	WG	N	1	G	2024-11-22 02:30 PM	2411SG12B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788				Sampled; No SGC													•			
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411AP14A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•										
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411EU14A	ALASKA CARGO	027-35071993	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled		•	•													
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411EU14A	UNITED CARGO	016-88161754	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled								•							
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411AK14A	ALASKA CARGO	027-34814500	11/5/2024	11/6/2024		1246415			S2BVEM	Sampled									•		•				
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411SG14A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW15-05	WL	RHMW15-05-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 10:00 AM	2411SG14A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217				Sampled; No SGC													•			
	RHMW15-05	WL	RHMW15-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-18 10:15 AM	2411AP14B	FEDEX	281964631386	11/18/2024	11/19/2024		24K0135			S4VEM	Sampled						•										
	RHMW15-05	WL	RHMW15-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-18 10:15 AM	2411EU14B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled		•	•													
	RHMW15-05	WL	RHMW15-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-18 10:15 AM	2411EU14B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled								•							
	RHMW15-05	WL	RHMW15-05-WGN01G-2411B	0	0	WG	N	1	G	2024-11-18 10:15 AM	2411AK14B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled									•		•				
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411AP15A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled						•										
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411EU15A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411EU15A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•							
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411AK16A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled									•		•				
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411SG15A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW16	WL	RHMW16-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 12:35 PM	2411SG15A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC													•			
	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411AP15B	FEDEX	282115890435	11/21/2024	11/22/2024		24K0178			S2BVEM	Sampled						•										

Storage Facility

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Red Hill Bulk Fuel S	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411EU15B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024	(b) (4)	580-146023-1			S4VEM	Sampled		•	•													
	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411EU15B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled							•								
	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411AK15B	ALASKA CARGO	027-35072144	11/20/2024	11/21/2024		1246643			S2BVEM	Sampled								•		•					
	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411SG15B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW16	WL	RHMW16-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 01:30 PM	2411SG15B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681				Sampled; No SGC													•			
	RHMW17	WL	RHMW17-WGFD01B-2411A	0	0	WG	FD	1	B	2024-11-12 09:10 AM	2411SG16A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled															•
	RHMW17	WL	RHMW17-WGFD01B-2411B	0	0	WG	FD	1	B	2024-11-22 08:55 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled															•
	RHMW17	WL	RHMW17-WGFD01LF-2411A	0	0	WG	FD	1	LF	2024-11-12 10:20 AM	2411SG16A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled				•						•		•	•	•	•
	RHMW17	WL	RHMW17-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-22 09:35 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled; No SGC				•						•		•		•	•
	RHMW17	WL	RHMW17-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-22 09:35 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776				Sampled; No SGC													•			
	RHMW17	WL	RHMW17-WGN01B-2411A	0	0	WG	N	1	B	2024-11-12 09:10 AM	2411SG16A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled															•
	RHMW17	WL	RHMW17-WGN01B-2411B	0	0	WG	N	1	B	2024-11-22 08:55 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled															•
	RHMW17	WL	RHMW17-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-12 10:20 AM	2411AP16A	FEDEX	281731715786	11/12/2024	11/13/2024		24K0086			S2BVEM	Sampled						•									
	RHMW17	WL	RHMW17-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-12 10:20 AM	2411EU16A	ALASKA CARGO	027-35072030	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled		•	•													
	RHMW17	WL	RHMW17-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-12 10:20 AM	2411EU16A	UNITED CARGO	016-02612536	11/12/2024	11/13/2024		580-145767-1			S2BVEM	Sampled								•							
	RHMW17	WL	RHMW17-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-12 10:20 AM	2411AK16A	ALASKA CARGO	027-35072004	11/12/2024	11/13/2024		1246530			S2BVEM	Sampled								•		•					
	RHMW17	WL	RHMW17-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-12 10:20 AM	2411SG16A	UNITED CARGO	016-02667232	11/12/2024	11/14/2024		FC20403			S4VEM	Sampled				•	•		•			•		•	•	•	•
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411AP16B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled						•									
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411EU16B	ALASKA CARGO	027-35072063	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled		•	•													
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411EU16B	UNITED CARGO	016-33119251	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled								•							
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411AK16B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•				
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHMW17	WL	RHMW17-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 09:35 AM	2411SG16B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776				Sampled; No SGC													•			
	RHMW18	WL	RHMW18-WGN01B-2411A	0	0	WG	N	1	B	2024-11-14 10:15 AM	2411SG36A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled															•
	RHMW18	WL	RHMW18-WGN01B-2411B	0	0	WG	N	1	B	2024-11-26 11:10 AM	2411SG36B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled															•
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411AP36A	FEDEX	281825289531	11/14/2024	11/15/2024		24K0115			S2BVEM	Sampled						•									
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411EU36A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled		•	•													
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411EU36A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled								•							
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411AK36A	ALASKA CARGO	027-35072052	11/14/2024	11/15/2024		1246572			S2BVEM	Sampled								•		•					
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411SG36A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHMW18	WL	RHMW18-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:30 AM	2411SG36A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484				Sampled; No SGC													•			
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411AP36B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled						•									
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411EU36B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411EU36B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled								•							
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411AK36B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled								•		•					
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411SG36B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHMW18	WL	RHMW18-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 12:20 PM	2411SG36B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC													•			
	RHMW19	WL	RHMW19-WGN01B-2411A	0	0	WG	N	1	B	2024-11-08 08:15 AM	2411SG17A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled															•
	RHMW19	WL	RHMW19-WGN01B-2411B	0	0	WG	N	1	B	2024-11-22 09:45 AM	2411SG17B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled															•
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411AP17A	FEDEX	281597989998	11/8/2024	11/9/2024		24K0062			S2BVEM	Sampled						•									
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411EU17A	ALASKA CARGO	027-35072026	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled		•	•													
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411EU17A	UNITED CARGO	016-88175544	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled								•							
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411AK17A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled								•		•					
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411SG17A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHMW19	WL	RHMW19-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:00 AM	2411SG17A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309				Sampled; No SGC													•			
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411AP17B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled						•									
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411EU17B	ALASKA CARGO	027-35072063	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled		•	•													
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411EU17B	UNITED CARGO	016-33119251	11/22/2024	11/25/2024		580-146101-1			S2BVEM	Sampled								•							
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411AK17B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•				
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411SG17B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHMW19	WL	RHMW19-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-22 10:30 AM	2411SG17B	UNITED CARGO	016-21511335	11/22/2024	11/23/2024		FC20776				Sampled; No SGC													•			
	RHMW20	WL	RHMW20-WGN01B-2411B	0	0	WG	N	1	B	2024-11-26 12:30 PM	2411SG18B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled															•
	RHMW20	WL	RHMW20-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:15 AM	2411AP18A	FEDEX	281778987892	11/13/2024	11/14/2024		24K0099			S2BVEM	Sampled						•									

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW20	WL	RHMW20-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:15 AM	2411EU18A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024	(b) (4)	580-145801-1			S2BVEM	Sampled		•	•													
	RHMW20	WL	RHMW20-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:15 AM	2411EU18A	ALASKA CARGO	027- 35072096	11/13/2024	11/14/2024		580-145801-1			S2BVEM	Sampled							•								
	RHMW20	WL	RHMW20-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-13 10:15 AM	2411AK18A	ALASKA CARGO	027- 35071956	11/13/2024	11/14/2024		1246543			S2BVEM	Sampled								•		•					
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411AP18B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411EU18B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411EU18B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled							•								
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411AK18B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled								•		•					
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411SG18B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW20	WL	RHMW20-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 01:05 PM	2411SG18B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC												•			
	RHMW21	WL	RHMW21-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 02:05 PM	2411AP43A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•									
	RHMW21	WL	RHMW21-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 02:05 PM	2411EU43A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHMW21	WL	RHMW21-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 02:05 PM	2411EU43A	UNITED CARGO	016-88161754	11/5/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•							
	RHMW21	WL	RHMW21-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 02:05 PM	2411AK43A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024		1246372			S4VEM	Sampled								•		•					
	RHMW21	WL	RHMW21-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 12:30 PM	2411AP43B	FEDEX	281964631386	11/18/2024	11/19/2024		24K0135			S4VEM	Sampled					•										
	RHMW21	WL	RHMW21-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 12:30 PM	2411EU43B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled		•	•													
	RHMW21	WL	RHMW21-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 12:30 PM	2411EU43B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		580-145928-1			S2BVEM	Sampled							•								
	RHMW21	WL	RHMW21-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-18 12:30 PM	2411AK43B	ALASKA CARGO	027-35072085	11/18/2024	11/19/2024		1246607			S2BVEM	Sampled								•		•					
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2411A	0	0	WG	N	1	B	2024-11-05 11:00 AM	2411SG19A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled															•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2411B	0	0	WG	N	1	B	2024-11-19 11:05 AM	2411SG19B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411AP19A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•									
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411EU19A	ALASKA CARGO	027-35071993	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled		•	•													
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411EU19A	UNITED CARGO	016-88161754	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled								•							
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411AK19A	ALASKA CARGO	027-34814500	11/5/2024	11/6/2024		1246415			S2BVEM	Sampled								•		•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411SG19A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-05 11:50 AM	2411SG19A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217				Sampled; No SGC												•			
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411AP19B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled					•										
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411EU19B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411EU19B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled							•								
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411AK19B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled								•		•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411SG19B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:45 AM	2411SG19B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620				Sampled; No SGC												•			
	RHP01	WL	RHP01-WGN01B-2411A	0	0	WG	N	1	B	2024-11-07 12:27 PM	2411SG21A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled															•
	RHP01	WL	RHP01-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 09:40 AM	2411SG21B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled															•
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411AP21A	FEDEX	281597989998	11/8/2024	11/9/2024		24K0062			S2BVEM	Sampled					•										
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411EU21A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411EU21A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•							
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411AK21A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled								•		•					
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411SG21A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP01	WL	RHP01-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 01:15 PM	2411SG21A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC												•			
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411AP21B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled						•									
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411EU21B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled		•	•													
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411EU21B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled								•							
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411AK21B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled								•		•					
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411SG21B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP01	WL	RHP01-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:27 PM	2411SG21B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC												•			
	RHP02	WL	RHP02-WGN01B-2411A	0	0	WG	N	1	B	2024-11-07 10:35 AM	2411SG22A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled															•
	RHP02	WL	RHP02-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 10:15 AM	2411SG22B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled															•
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411AP22A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled						•									
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411EU22A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411EU22A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•							
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411AK22A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled								•		•					
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411SG22A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP02	WL	RHP02-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 11:15 AM	2411SG22A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC												•			
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411AP22B	FEDEX	282115890435	11/21/2024	11/22/2024		24K0178			S2BVEM	Sampled						•									

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411EU22B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024	(b) (4)	580-146071-1			S2BVEM	Sampled		•	•													
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411EU22B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled							•								
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411AK22B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled								•		•					
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411SG22B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP02	WL	RHP02-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 11:10 AM	2411SG22B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC													•		
	RHP03	WL	RHP03-WGN01B-2411A	0	0	WG	N	1	B	2024-11-07 08:26 AM	2411SG23A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled															•
	RHP03	WL	RHP03-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 12:15 PM	2411SG23B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled															•
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411AP23A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled					•										
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411EU23A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411EU23A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•							
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411AK23A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled								•		•					
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411SG23A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP03	WL	RHP03-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:15 AM	2411SG23A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC													•		
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411AP23B	FEDEX	282165272754	11/22/2024	11/23/2024		24K0184			S2BVEM	Sampled					•										
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411EU23B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled		•	•													
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411EU23B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled								•							
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411AK23B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled								•		•					
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411SG23B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP03	WL	RHP03-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 12:50 PM	2411SG23B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC													•		
	RHP04A	WL	RHP04A-WGN01B-2411A	0	0	WG	N	1	B	2024-11-07 08:50 AM	2411SG24A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled															•
	RHP04A	WL	RHP04A-WGN01B-2411B	0	0	WG	N	1	B	2024-11-21 09:00 AM	2411SG24B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled															•
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411AP24A	FEDEX	281556471981	11/7/2024	11/8/2024		24K0044			S4VEM	Sampled					•										
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411EU24A	ALASKA CARGO	027-35072015	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled		•	•													
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411EU24A	UNITED CARGO	016-88175544	11/7/2024	11/8/2024		580-145634-1			S4VEM	Sampled								•							
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411AK24A	ALASKA CARGO	027-35071945	11/7/2024	11/8/2024		1246465_Rev1			S2BVEM	Sampled								•		•					
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411SG24A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP04A	WL	RHP04A-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-07 09:35 AM	2411SG24A	UNITED CARGO	016-88060125	11/7/2024	11/9/2024		FC20288				Sampled; No SGC													•		
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411AP24B	FEDEX	282115890435	11/21/2024	11/22/2024		24K0178			S2BVEM	Sampled					•										
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411EU24B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled		•	•													
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411EU24B	ALASKA CARGO	027-35217184	11/21/2024	11/22/2024		580-146071-1			S2BVEM	Sampled								•							
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411AK24B	ALASKA CARGO	027-35072155	11/21/2024	11/22/2024		1246658			S2BVEM	Sampled								•		•					
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411SG24B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP04A	WL	RHP04A-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-21 10:00 AM	2411SG24B	UNITED CARGO	016-21511044	11/21/2024	11/23/2024		FC20750				Sampled; No SGC													•		
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411AP25A	FEDEX	281679875639	11/11/2024	11/12/2024		24K0071			S2BVEM	Sampled					•										
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411EU25A	ALASKA CARGO	027-34814566	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled		•	•													
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411EU25A	UNITED CARGO	016-02559830	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled								•							
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411AK25A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled								•		•					
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411SG25A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP04B	WL	RHP04B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:10 AM	2411SG25A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354				Sampled; No SGC													•		
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411AP25B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411EU25B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled		•	•													
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411EU25B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled								•							
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411AK25B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled								•		•					
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411SG25B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP04B	WL	RHP04B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:05 AM	2411SG25B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC													•		
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411AP26A	FEDEX	281679875639	11/11/2024	11/12/2024		24K0071			S2BVEM	Sampled					•										
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411EU26A	ALASKA CARGO	027-34814566	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled		•	•													
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411EU26A	UNITED CARGO	016-02559830	11/11/2024	11/12/2024		580-145726-1			S2BVEM	Sampled								•							
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411AK26A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled								•		•					
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411SG26A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP04C	WL	RHP04C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-11 11:25 AM	2411SG26A	UNITED CARGO	016-03224163	11/11/2024	11/13/2024		FC20354				Sampled; No SGC													•		
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411AP26B	UNITED CARGO	016-43243594	11/26/2024	11/27/2024		24K0219			S2BVEM	Sampled					•										

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411EU26B	ALASKA CARGO	027-35071971	11/26/2024	11/27/2024	(b) (4)	580-146154-1			S2BVEM	Sampled		•	•													
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411EU26B	UNITED CARGO	016-41922801	11/26/2024	11/27/2024		580-146154-1			S2BVEM	Sampled							•								
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411AK26B	ALASKA CARGO	027-35072133	11/26/2024	11/27/2024		1246712			S2BVEM	Sampled								•		•					
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411SG26B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885			S2BVEM	Sampled; No SGC				•	•		•			•		•	•		•	•
	RHP04C	WL	RHP04C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-26 10:30 AM	2411SG26B	UNITED CARGO	016-34241664	11/27/2024	11/30/2024		FC20885				Sampled; No SGC													•		
	RHP05	WL	RHP05-WGFD01B-2411A	0	0	WG	FD	1	B	2024-11-08 08:20 AM	2411SG27A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGFD01B-2411B	0	0	WG	FD	1	B	2024-11-19 10:20 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGFD01LF-2411A	0	0	WG	FD	1	LF	2024-11-08 09:10 AM	2411SG27A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled				•						•		•	•	•	•
	RHP05	WL	RHP05-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-19 11:00 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled; No SGC				•						•		•		•	•
	RHP05	WL	RHP05-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-19 11:00 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620				Sampled; No SGC													•		
	RHP05	WL	RHP05-WGN01B-2411A	0	0	WG	N	1	B	2024-11-08 08:20 AM	2411SG27A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGN01B-2411B	0	0	WG	N	1	B	2024-11-19 10:20 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:10 AM	2411AP27A	FEDEX	281597989998	11/8/2024	11/9/2024		24K0062			S2BVEM	Sampled						•									
	RHP05	WL	RHP05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:10 AM	2411EU27A	ALASKA CARGO	027-35072026	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled		•	•													
	RHP05	WL	RHP05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:10 AM	2411EU27A	UNITED CARGO	016-88175544	11/8/2024	11/9/2024		580-145681-1			S2BVEM	Sampled								•							
	RHP05	WL	RHP05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:10 AM	2411AK27A	ALASKA CARGO	027-35071934	11/11/2024	11/12/2024		1246509			S2BVEM	Sampled										•		•			
	RHP05	WL	RHP05-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-08 09:10 AM	2411SG27A	UNITED CARGO	016-88071631	11/8/2024	11/9/2024		FC20309			S2BVEM	Sampled				•	•		•			•		•	•	•	•
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411AP27B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled						•									
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411EU27B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411EU27B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled								•							
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411AK27B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled										•		•			
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHP05	WL	RHP05-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 11:00 AM	2411SG27B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620				Sampled; No SGC													•		
	RHP06	WL	RHP06-WGN01B-2411B	0	0	WG	N	1	B	2024-11-19 11:50 AM	2411SG30B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHP06	WL	RHP06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:25 AM	2411AP30A	FEDEX	281423483693	11/4/2024	11/5/2024		24K0017			S2BVEM	Sampled						•									
	RHP06	WL	RHP06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:25 AM	2411EU30A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHP06	WL	RHP06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:25 AM	2411EU30A	UNITED CARGO	016-88161732	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•							
	RHP06	WL	RHP06-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 11:25 AM	2411AK30A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024		1246372			S4VEM	Sampled										•		•			
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411AP30B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled						•									
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411EU30B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411EU30B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled								•							
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411AK30B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled										•		•			
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411SG30B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHP06	WL	RHP06-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 12:35 PM	2411SG30B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620				Sampled; No SGC													•		
	RHP07	WL	RHP07-WGN01B-2411A	0	0	WG	N	1	B	2024-11-06 09:35 AM	2411SG28A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled															•
	RHP07	WL	RHP07-WGN01B-2411B	0	0	WG	N	1	B	2024-11-20 09:25 AM	2411SG28B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled															•
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411AP28A	FEDEX	281513721537	11/6/2024	11/7/2024		24K0036			S4VEM	Sampled						•									
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411EU28A	ALASKA CARGO	027-34814640	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled		•	•													
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411EU28A	UNITED CARGO	016-88161776	11/6/2024	11/7/2024		580-145577-1			S2BVEM	Sampled								•							
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411AK28A	ALASKA CARGO	027-35071923	11/6/2024	11/7/2024		1246429			S2BVEM	Sampled										•		•			
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411SG28A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHP07	WL	RHP07-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-06 10:10 AM	2411SG28A	UNITED CARGO	016-88060070	11/6/2024	11/8/2024		FC20258				Sampled; No SGC													•		
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411AP28B	FEDEX	282067235348	11/20/2024	11/21/2024		24K0158			S2BVEM	Sampled						•									
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411EU28B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled		•	•													
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411EU28B	ALASKA CARGO	027-35217195	11/20/2024	11/21/2024		580-146023-1			S4VEM	Sampled								•							
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411AK42B	ALASKA CARGO	027-35072144	11/20/2024	11/21/2024		1246643			S2BVEM	Sampled										•		•			
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411SG28B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•
	RHP07	WL	RHP07-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-20 09:55 AM	2411SG28B	UNITED CARGO	016-21510926	11/20/2024	11/22/2024		FC20681				Sampled; No SGC													•		
	RHP08	WL	RHP08-WGFD01B-2411B	0	0	WG	FD	1	B	2024-11-19 08:30 AM	2411SG33B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHP08	WL	RHP08-WGFD01LF-2411B	0	0	WG	FD	1	LF	2024-11-19 09:15 AM	2411SG33B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled				•						•		•	•	•	•
	RHP08	WL	RHP08-WGN01B-2411B	0	0	WG	N	1	B	2024-11-19 08:30 AM	2411SG33B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled															•
	RHP08	WL	RHP08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 09:40 AM	2411AP33A	FEDEX	281423483693	11/4/2024	11/5/2024		24K0017			S2BVEM	Sampled						•									
	RHP08	WL	RHP08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 09:40 AM	2411EU033A	ALASKA CARGO	027-35071982	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled		•	•													
	RHP08	WL	RHP08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 09:40 AM	2411EU33A	UNITED CARGO	016-88161732	11/4/2024	11/5/2024		580-145507-1			S4VEM	Sampled								•							

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 November and Q4 GW LTM

Event ID: 3177

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK176)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP08	WL	RHP08-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-04 09:40 AM	2411AK33A	ALASKA CARGO	027-34814382	11/4/2024	11/5/2024	(b) (4)	1246372			S4VEM	Sampled									•		•					
	RHP08	WL	RHP08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:15 AM	2411AP33B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled						•										
	RHP08	WL	RHP08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:15 AM	2411EU33B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHP08	WL	RHP08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:15 AM	2411EU33B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled								•							
	RHP08	WL	RHP08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:15 AM	2411AK33B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled									•		•					
	RHP08	WL	RHP08-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-19 09:15 AM	2411SG33B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled				•	•		•			•		•	•	•	•	•
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411AP45A	FEDEX	281825289531	11/14/2024	11/15/2024		24K0115			S2BVEM	Sampled						•										
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411EU45A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled		•	•													
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411EU45A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled								•							
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411AK45A	ALASKA CARGO	027-35072052	11/14/2024	11/15/2024		1246572			S2BVEM	Sampled									•		•					
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411SG45A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP08B	WL	RHP08B-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 09:35 AM	2411SG45A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484				Sampled; No SGC												•				
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411AP45B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411EU45B	ALASKA CARGO	027-35217210	11/24/2024	11/25/2024		580-146104-1			S2BVEM	Sampled		•	•													
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411EU45B	ALASKA CARGO	027-35217210	11/24/2024	11/25/2024		580-146104-1			S2BVEM	Sampled								•							
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411AK45B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•					
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411SG45B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP08B	WL	RHP08B-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:30 AM	2411SG45B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788				Sampled; No SGC												•				
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411AP44A	FEDEX	281825289531	11/14/2024	11/15/2024		24K0115			S2BVEM	Sampled						•										
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411EU44A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled		•	•													
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411EU44A	ALASKA CARGO	027-35072111	11/14/2024	11/15/2024		580-145831-1			S2BVEM	Sampled								•							
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411AK44A	ALASKA CARGO	027-35072052	11/14/2024	11/15/2024		1246572			S2BVEM	Sampled									•		•					
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411SG44A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP08C	WL	RHP08C-WGN01LF-2411A	0	0	WG	N	1	LF	2024-11-14 11:11 AM	2411SG44A	UNITED CARGO	016-11138540	11/14/2024	11/16/2024		FC20484				Sampled; No SGC												•				
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411AP44B	FEDEX	282270395716	11/25/2024	11/26/2024		24K0202			S2BVEM	Sampled						•										
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411EU44B	ALASKA CARGO	027-35217210	11/24/2024	11/25/2024		580-146104-1			S2BVEM	Sampled		•	•													
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411EU44B	ALASKA CARGO	027-35217210	11/24/2024	11/25/2024		580-146104-1			S2BVEM	Sampled								•							
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411AK44B	ALASKA CARGO	027-35217140	11/24/2024	11/25/2024		1246682			S2BVEM	Sampled									•		•					
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411SG44B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHP08C	WL	RHP08C-WGN01LF-2411B	0	0	WG	N	1	LF	2024-11-24 09:25 AM	2411SG44B	UNITED CARGO	016-34211240	11/24/2024	11/26/2024		FC20788				Sampled; No SGC												•				
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411AP42A	FEDEX	281470944375	11/5/2024	11/6/2024		24K0031			S4VEM	Sampled						•										
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411EU42A	ALASKA CARGO	027-35071993	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled		•	•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411EU42A	UNITED CARGO	016-88161754	11/5/2024	11/6/2024		580-145550-1			S2BVEM	Sampled								•							
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411AK42A	ALASKA CARGO	027-34814500	11/5/2024	11/6/2024		1246415			S2BVEM	Sampled									•		•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411SG42A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411A	0	0	WG	N	1	G	2024-11-05 12:10 PM	2411SG42A	UNITED CARGO	016-88050863	11/5/2024	11/7/2024		FC20217				Sampled; No SGC												•				
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411AP42B	FEDEX	282017351592	11/19/2024	11/20/2024		24K0146			S2BVEM	Sampled						•										
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411EU42B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled		•	•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411EU42B	ALASKA CARGO	027-35217173	11/19/2024	11/20/2024		580-145984-1			S2BVEM	Sampled								•							
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411AK42B	ALASKA CARGO	027-35072100	11/19/2024	11/20/2024		1246631			S4VEM	Sampled									•		•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411SG42B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620			S2BVEM	Sampled; No SGC				•	•		•			•		•		•	•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2411B	0	0	WG	N	1	G	2024-11-19 11:30 AM	2411SG42B	UNITED CARGO	016-21510845	11/19/2024	11/21/2024		FC20620				Sampled; No SGC												•				

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 December and Q4 GW LTM

Event ID: 3181

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Alea	NMW24	WL	NMW24-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 08:45 AM	2412AP20A	FEDEX	283075628293	12/10/2024	12/11/2024	(b) (4)	24L0078			S4VEM	Sampled						•										
	NMW24	WL	NMW24-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 08:45 AM	2412EU20A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled		•	•													
	NMW24	WL	NMW24-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 08:45 AM	2412EU20A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled								•							
	NMW24	WL	NMW24-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 08:45 AM	2412AK20A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		1246868			S2BVEM	Sampled									•		•					
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 09:10 AM	2412AP29A	FEDEX	283251590309	12/13/2024	12/14/2024		24L0115			S2BVEM	Sampled						•										
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 09:10 AM	2412EU29A	ALASKA CARGO	027-35217405	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled		•	•													
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 09:10 AM	2412EU29A	UNITED CARGO	016-73478495	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled								•							
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 09:10 AM	2412AK29A	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•					
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-27 09:00 AM	2412AK29B	ALASKA CARGO	027-35567140	1/2/2025							Sampled									•		•					
	RHMW11-05	WL	RHMW11-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 01:30 PM	2412AP10A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•										
	RHMW11-05	WL	RHMW11-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 01:30 PM	2412EU10A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled		•	•													
	RHMW11-05	WL	RHMW11-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 01:30 PM	2412EU10A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled								•							
	RHMW11-05	WL	RHMW11-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 01:30 PM	2412AK10A	ALASKA CARGO	027-35217276	12/4/2024	12/5/2024		1246802			S2BVEM	Sampled									•		•					
	RHMW12A	WL	RHMW12A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412AP11A	FEDEX	283251590309	12/13/2024	12/14/2024		24L0115			S2BVEM	Sampled						•										
	RHMW12A	WL	RHMW12A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412EU11A	ALASKA CARGO	027-35217405	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled		•	•													
	RHMW12A	WL	RHMW12A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412EU11A	UNITED CARGO	016-73478495	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled								•							
	RHMW12A	WL	RHMW12A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412AK11A	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•					
	RHMW12A	WL	RHMW12A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-27 10:45 AM	2412AK11B	ALASKA CARGO	027-35567140	1/2/2025							Sampled									•		•					
	RHMW14-03	WL	RHMW14-03-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 10:30 AM	2412AP13A	FEDEX	282773206508	12/4/2024	12/5/2024		24L0026			S2BVEM	Sampled						•										
	RHMW14-03	WL	RHMW14-03-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 10:30 AM	2412EU13A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled		•	•													
	RHMW14-03	WL	RHMW14-03-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 10:30 AM	2412EU13A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled								•							
	RHMW14-03	WL	RHMW14-03-WGN01G-2412A	0	0	WG	N	1	G	2024-12-04 10:30 AM	2412AK13A	ALASKA CARGO	027-35217276	12/4/2024	12/5/2024		1246802			S2BVEM	Sampled									•		•					
	NMW25	WL	NMW25-WGN01B-2412A	0	0	WG	N	1	B	2024-12-06 08:20 AM	2412SG31A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled																•
	NMW25	WL	NMW25-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 08:50 AM	2412AP31A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled						•										
	NMW25	WL	NMW25-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 08:50 AM	2412EU31A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•													
	NMW25	WL	NMW25-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 08:50 AM	2412EU31A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled								•							
	NMW25	WL	NMW25-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 08:50 AM	2412SG31A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•		•		•		•	•	•	•
	NMW25	WL	NMW25-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 08:50 AM	2412SG31A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled											•					
	NMW26	WL	NMW26-WGN01B-2412A	740.5	770.5	WG	N	1	B	2024-12-09 09:35 AM	2412SG37A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled																•
	NMW26	WL	NMW26-WGN01B-2412B	740.5	770.5	WG	N	1	B	2024-12-30 01:00 PM	2412SG37B	UNITED CARGO	016-42480830	12/31/2024							Sampled																•
	NMW26	WL	NMW26-WGN01LF-2412A	740.5	770.5	WG	N	1	LF	2024-12-09 12:50 PM	2412AP37A	FEDEX	283012545998	12/9/2024	12/10/2024		24L0055			S2BVEM	Sampled						•										
	NMW26	WL	NMW26-WGN01LF-2412A	740.5	770.5	WG	N	1	LF	2024-12-09 12:50 PM	2412EU37A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled		•	•													
	NMW26	WL	NMW26-WGN01LF-2412A	740.5	770.5	WG	N	1	LF	2024-12-09 12:50 PM	2412EU37A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled								•							
	NMW26	WL	NMW26-WGN01LF-2412A	740.5	770.5	WG	N	1	LF	2024-12-09 12:50 PM	2412SG37A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled				•	•		•		•		•	•	•	•	•	•
	NMW26	WL	NMW26-WGN01LF-2412B	740.5	770.5	WG	N	1	LF	2024-12-30 11:40 AM	2412AP37B	UNITED CARGO	016-62280573	12/31/2024							Sampled						•										
	NMW26	WL	NMW26-WGN01LF-2412B	740.5	770.5	WG	N	1	LF	2024-12-30 11:40 AM	2412EU37B	ALASKA CARGO	027-35567114	12/30/2024							Sampled		•	•														
	NMW26	WL	NMW26-WGN01LF-2412B	740.5	770.5	WG	N	1	LF	2024-12-30 11:40 AM	2412EU37B	UNITED CARGO	016-41358531	12/30/2024							Sampled								•								
	NMW26	WL	NMW26-WGN01LF-2412B	740.5	770.5	WG	N	1	LF	2024-12-30 11:40 AM	2412SG37B	UNITED CARGO	016-42480830	12/31/2024							Sampled				•	•		•		•		•	•	•	•		
	NMW27	WL	NMW27-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412AP38A	FEDEX	283251590309	12/13/2024	12/14/2024		24L0115			S2BVEM	Sampled						•										
	NMW27	WL	NMW27-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412EU38A	ALASKA CARGO	027-35217405	12/13/2024			580-146618-1			S2BVEM	Sampled		•	•													
	NMW27	WL	NMW27-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412EU38A	UNITED CARGO	016-73478495	12/13/2024			580-146618-1			S2BVEM	Sampled								•								
	NMW27	WL	NMW27-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412AK38A	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•					
	NMW27	WL	NMW27-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 10:40 AM	2412SG38A	UNITED CARGO	016-64548175	12/13/2024							Sampled											•					
	NMW30	WL	NMW30-WGN01B-2412A	0	0	WG	N	1	B	2024-12-12 08:15 AM	2412SG35A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled																•
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412AP35A	FEDEX	283194380596	12/12/2024	12/13/2024		24L0108			S2BVEM	Sampled						•										
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412EU35A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled		•	•													
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412EU35A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled								•							
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412AK35A	ALASKA CARGO	027-35217313	12/12/2024	12/13/2024		1246921			S2BVEM	Sampled									•		•					
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412SG35A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled				•	•		•		•		•		•	•	•	•
	NMW30	WL	NMW30-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 08:55 AM	2412SG35A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264				Sampled												•				
	NMW30	WL	NMW30-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-26 09:35 AM	2412SG35B	UNITED CARGO	016-33874293	12/26/2024							Sampled												•				
	NMW32	WL	NMW32-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 08:50 AM	2412AP32A	FEDEX	283136612429	12/11/2024	12/12/2024		24L0085			S2BVEM	Sampled						•										
	NMW32	WL	NMW32-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 08:50 AM	2412EU32A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled		•	•													
	NMW32	WL	NMW32-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 08:50 AM	2412EU32A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled								•							
	NMW32	WL	NMW32-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 08:50 AM	2412AK32A	ALASKA CARGO	027-35217372	12/11/2024	12/12/2024		1246896			S2BVEM	Sampled									•		•					
	NMW33	WL	NMW33-WGN01B-2412B	0	0	WG	N	1	B	2024-12-30 01:35 PM	2412SG34B	UNITED CARGO	016-42480830	12/31/2024							Sampled																•
	NMW33	WL	NMW33-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412AP34A	FEDEX	283136612429	12/11/2024	12/12/2024		24L0085			S2BVEM	Sampled						•										
	NMW33	WL	NMW33-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412EU34A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled		•	•													
	NMW33	WL	NMW33-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412EU34A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled								•							
	NMW33	WL	NMW33-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412AK34A	ALASKA CARGO	027-35217372	12/11/2024	12/12/2024		1246896			S2BVEM	Sampled									•		•					

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 December and Q4 GW LTM

Event ID: 3181

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	NMW33	WL	NMW33-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 02:05 PM	2412AP34B	UNITED CARGO	016-62280573	12/31/2024		(b) (4)					Sampled						•										
	NMW33	WL	NMW33-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 02:05 PM	2412EU34B	ALASKA CARGO	027-35567114	12/30/2024							Sampled		•	•													
	NMW33	WL	NMW33-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 02:05 PM	2412EU34B	UNITED CARGO	016-41358531	12/30/2024							Sampled								•								
	NMW33	WL	NMW33-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 02:05 PM	2412SG34B	UNITED CARGO	016-42480830	12/31/2024							Sampled				•	•		•			•		•	•	•	•	•	•
	NMW34	WL	NMW34-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 08:45 AM	2412AP39A	FEDEX	283251590309	12/13/2024	12/14/2024		24L0115			S2BVEM	Sampled						•										
	NMW34	WL	NMW34-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 08:45 AM	2412EU39A	ALASKA CARGO	027-35217405	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled		•	•														
	NMW34	WL	NMW34-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 08:45 AM	2412EU39A	UNITED CARGO	016-73478495	12/13/2024	12/14/2024		580-146618-1			S2BVEM	Sampled								•								
	NMW34	WL	NMW34-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-13 08:45 AM	2412AK39A	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•						
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 09:00 AM	2412AP40A	FEDEX	283136612429	12/11/2024	12/12/2024		24L0085			S2BVEM	Sampled						•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 09:00 AM	2412EU40A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled		•	•														
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 09:00 AM	2412EU40A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled								•								
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 09:00 AM	2412AK40A	ALASKA CARGO	027-35217372	12/11/2024	12/12/2024		1246896			S2BVEM	Sampled									•		•						
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 09:10 AM	2412AP40B	UNITED CARGO	016-62280573	12/31/2024							Sampled						•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 09:10 AM	2412EU40B	ALASKA CARGO	027-35567114	12/30/2024							Sampled		•	•													
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 09:10 AM	2412EU40B	UNITED CARGO	016-41358531	12/30/2024							Sampled								•								
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 09:10 AM	2412SG40B	UNITED CARGO	016-42480830	12/31/2024							Sampled				•	•		•			•		•	•	•	•	•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412AP41A	FEDEX	283136612429	12/11/2024	12/12/2024		24L0085			S2BVEM	Sampled						•										
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412EU41A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled		•	•														
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412EU41A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled								•								
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 10:30 AM	2412AK41A	ALASKA CARGO	027-35217372	12/11/2024	12/12/2024		1246896			S2BVEM	Sampled									•		•						
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 10:50 AM	2412AP41B	UNITED CARGO	016-62280573	12/31/2024							Sampled						•										
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 10:50 AM	2412EU41B	ALASKA CARGO	027-35567114	12/30/2024							Sampled		•	•													
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 10:50 AM	2412EU41B	UNITED CARGO	016-41358531	12/30/2024							Sampled								•								
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-30 10:50 AM	2412SG41B	UNITED CARGO	016-42480830	12/31/2024							Sampled				•	•		•			•		•	•	•	•	•	•
	RHMW01R	WL	RHMW01R-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 10:15 AM	2412AP01A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•										
	RHMW01R	WL	RHMW01R-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 10:15 AM	2412EU01A	ALASKA CARGO	027-35072166	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled		•	•														
	RHMW01R	WL	RHMW01R-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 10:15 AM	2412EU01A	UNITED CARGO	016-57725290	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled								•								
	RHMW01R	WL	RHMW01R-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 10:15 AM	2412AK01A	ALASKA CARGO	027-35217243	12/2/2024	12/3/2024		1246742			S2BVEM	Sampled									•		•						
	RHMW01R	WL	RHMW01R-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 10:10 AM	2412AP01B	FEDEX	283371277010	12/16/2024	12/17/2024		24L0126			S2BVEM	Sampled						•										
	RHMW01R	WL	RHMW01R-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 10:10 AM	2412AK01B	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•						
	RHMW02	WL	RHMW02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 11:40 AM	2412AP02A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•										
	RHMW02	WL	RHMW02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 11:40 AM	2412EU02A	ALASKA CARGO	027-35072166	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled		•	•														
	RHMW02	WL	RHMW02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 11:40 AM	2412EU02A	UNITED CARGO	016-57725290	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled								•								
	RHMW02	WL	RHMW02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 11:40 AM	2412AK02A	ALASKA CARGO	027-35217243	12/2/2024	12/3/2024		1246742			S2BVEM	Sampled									•		•						
	RHMW02	WL	RHMW02-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 11:27 AM	2412AP02B	FEDEX	283371277010	12/16/2024	12/17/2024		24L0126			S2BVEM	Sampled						•										
	RHMW02	WL	RHMW02-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 11:27 AM	2412AK02B	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•						
	RHMW03	WL	RHMW03-WGN01B-2412A	0	0	WG	N	1	B	2024-12-06 11:45 AM	2412SG03A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled																•
	RHMW03	WL	RHMW03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:15 PM	2412AP03A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled						•										
	RHMW03	WL	RHMW03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:15 PM	2412EU03A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•														
	RHMW03	WL	RHMW03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:15 PM	2412EU03A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled								•								
	RHMW03	WL	RHMW03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:15 PM	2412SG03A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•			•		•		•	•	•	•
	RHMW03	WL	RHMW03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:15 PM	2412SG03A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled														•		
	RHMW04	WL	RHMW04-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:35 AM	2412AP04A	FEDEX	283075628293	12/10/2024	12/11/2024		24L0078			S4VEM	Sampled						•										
	RHMW04	WL	RHMW04-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:35 AM	2412EU04A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled		•	•														
	RHMW04	WL	RHMW04-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:35 AM	2412EU04A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled								•								
	RHMW04	WL	RHMW04-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:35 AM	2412AK04A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		1246868			S2BVEM	Sampled									•		•						
	RHMW05	WL	RHMW05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 11:20 AM	2412AP05A	FEDEX	282773206508	12/4/2024	12/5/2024		24L0026			S2BVEM	Sampled						•										
	RHMW05	WL	RHMW05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 11:20 AM	2412EU05A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled		•	•														
	RHMW05	WL	RHMW05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 11:20 AM	2412EU05A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled								•								
	RHMW05	WL	RHMW05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 11:20 AM	2412AK05A	ALASKA CARGO	027-35217276	12/4/2024	12/5/2024		1246802			S2BVEM	Sampled									•		•						
	RHMW06	WL	RHMW06-WGN01B-2412A	0	0	WG	N	1	B	2024-12-05 09:20 AM	2412SG06A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled																•
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412AP06A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•										
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412EU06A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•														
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412EU06A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•								
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412AK06A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•						
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412SG06A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•			•		•		•	•	•	•
	RHMW06	WL	RHMW06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:00 AM	2412SG06A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled														•		
	RHMW08	WL	RHMW08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 09:45 AM	2412AP07A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•										
	RHMW08	WL	RHMW08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 09:45 AM	2412EU07A	ALASKA CARGO	027-35072166	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled		•	•														

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 December and Q4 GW LTM

Event ID: 3181

Red Hill Bulk Fuel Storage Facility

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW6270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW08	WL	RHMW08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 09:45 AM	2412EU07A	UNITED CARGO	016-57725290	12/2/2024	12/3/2024	(b) (4)	580-146249-1			S2BVEM	Sampled								•								
	RHMW08	WL	RHMW08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-02 09:45 AM	2412AK07A	ALASKA CARGO	027-35217243	12/2/2024	12/3/2024		1246742			S2BVEM	Sampled									•		•					
	RHMW08	WL	RHMW08-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 10:55 AM	2412AP07B	FEDEX	283371277010	12/16/2024	12/17/2024		24L0126			S2BVEM	Sampled						•									
	RHMW08	WL	RHMW08-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-16 10:55 AM	2412AK07B	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•					
	RHMW09	WL	RHMW09-WGN01B-2412A	0	0	WG	N	1	B	2024-12-06 09:50 AM	2412SG08A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled																•
	RHMW09	WL	RHMW09-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:40 AM	2412AP08A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled						•									
	RHMW09	WL	RHMW09-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:40 AM	2412EU08A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•													
	RHMW09	WL	RHMW09-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:40 AM	2412EU08A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled								•							
	RHMW09	WL	RHMW09-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:40 AM	2412SG08A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW09	WL	RHMW09-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:40 AM	2412SG08A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled													•		
	RHMW10	WL	RHMW10-WGN01B-2412A	0	0	WG	N	1	B	2024-12-03 11:00 AM	2412SG09A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled																•
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412AP09A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•									
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412EU09A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled		•	•													
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412EU09A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled								•							
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412AK09A	ALASKA CARGO	027-35217162	12/3/2024	12/4/2024		1246759			S2BVEM	Sampled								•		•					
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412SG09A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW10	WL	RHMW10-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:55 AM	2412SG09A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980				Sampled													•		
	RHMW13-04	WL	RHMW13-04-WGN01G-2412A	0	0	WG	N	1	G	2024-12-09 11:42 AM	2412AP12A	FEDEX	283012545998	12/9/2024	12/11/2024		24L0078			S4VEM	Sampled						•									
	RHMW13-04	WL	RHMW13-04-WGN01G-2412A	0	0	WG	N	1	G	2024-12-09 11:42 AM	2412EU12A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled		•	•													
	RHMW13-04	WL	RHMW13-04-WGN01G-2412A	0	0	WG	N	1	G	2024-12-09 11:42 AM	2412EU12A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled								•							
	RHMW13-04	WL	RHMW13-04-WGN01G-2412A	0	0	WG	N	1	G	2024-12-09 11:42 AM	2412SG12A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW13-04	WL	RHMW13-04-WGN01G-2412A	0	0	WG	N	1	G	2024-12-09 11:42 AM	2412SG12A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099				Sampled													•		
	RHMW15-05	WL	RHMW15-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-02 10:25 AM	2412AP14A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•									
	RHMW15-05	WL	RHMW15-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-02 10:25 AM	2412EU14A	ALASKA CARGO	027-35072166	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled		•	•													
	RHMW15-05	WL	RHMW15-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-02 10:25 AM	2412EU14A	UNITED CARGO	016-57725290	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled								•							
	RHMW15-05	WL	RHMW15-05-WGN01G-2412A	0	0	WG	N	1	G	2024-12-02 10:25 AM	2412AK14A	ALASKA CARGO	027-35217243	12/2/2024	12/3/2024		1246742			S2BVEM	Sampled									•		•					
	RHMW15-05	WL	RHMW15-05-WGN01G-2412B	0	0	WG	N	1	G	2024-12-16 10:30 AM	2412AK14B	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•					
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412AP15A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•									
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412EU15A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•													
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412EU15A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•							
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412AK15A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•					
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412SG15A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW16	WL	RHMW16-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:00 PM	2412SG15A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled													•		
	RHMW17	WL	RHMW17-WGFD01B-2412A	0	0	WG	FD	1	B	2024-12-09 09:35 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled																•
	RHMW17	WL	RHMW17-WGFD01LF-2412A	0	0	WG	FD	1	LF	2024-12-09 10:10 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled				•				•		•		•		•	•
	RHMW17	WL	RHMW17-WGFD01LF-2412A	0	0	WG	FD	1	LF	2024-12-09 10:10 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099				Sampled													•		
	RHMW17	WL	RHMW17-WGN01B-2412A	0	0	WG	N	1	B	2024-12-09 09:35 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled																•
	RHMW17	WL	RHMW17-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-09 10:10 AM	2412AP16A	FEDEX	283012545998	12/9/2024	12/10/2024		24L0055			S2BVEM	Sampled						•									
	RHMW17	WL	RHMW17-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-09 10:10 AM	2412EU16A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled		•	•													
	RHMW17	WL	RHMW17-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-09 10:10 AM	2412EU16A	ALASKA CARGO	027-35566996	12/9/2024	12/10/2024		580-146438-1			S2BVEM	Sampled								•							
	RHMW17	WL	RHMW17-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-09 10:10 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW17	WL	RHMW17-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-09 10:10 AM	2412SG16A	UNITED CARGO	016-64317853	12/9/2024	12/11/2024		FC21099				Sampled													•		
	RHMW18	WL	RHMW18-WGN01B-2412A	0	0	WG	N	1	B	2024-12-12 10:35 AM	2412SG36A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled																•
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412AP36A	FEDEX	283194380596	12/12/2024	12/13/2024		24L0108			S2BVEM	Sampled						•									
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412EU36A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled		•	•													
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412EU36A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled								•							
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412AK36A	ALASKA CARGO	027-35217313	12/12/2024	12/13/2024		1246921			S2BVEM	Sampled									•		•					
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412SG36A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW18	WL	RHMW18-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 11:30 AM	2412SG36A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264				Sampled													•		
	RHMW18	WL	RHMW18-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-26 12:15 PM	2412SG36B	UNITED CARGO	016-33874293	12/26/2024							Sampled													•		
	RHMW19	WL	RHMW19-WGN01B-2412A	0	0	WG	N	1	B	2024-12-06 11:25 AM	2412SG17A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled																•
	RHMW19	WL	RHMW19-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:20 PM	2412AP17A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled						•									
	RHMW19	WL	RHMW19-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:20 PM	2412EU17A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•													
	RHMW19	WL	RHMW19-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:20 PM	2412EU17A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled								•							
	RHMW19	WL	RHMW19-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:20 PM	2412SG17A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•			•		•		•	•
	RHMW19	WL	RHMW19-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 12:20 PM	2412SG17A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled													•		
	RHMW20	WL	RHMW20-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 12:20 PM	2412AP18A	FEDEX	283136612429	12/11/2024	12/12/2024		24L0085			S2BVEM	Sampled						•									
	RHMW20	WL	RHMW20-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 12:20 PM	2412EU18A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled		•	•													
	RHMW20	WL	RHMW20-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 12:20 PM	2412EU18A	ALASKA CARGO	027-35567011	12/11/2024	12/12/2024		580-146533-1			S2BVEM	Sampled								•							

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 December and Q4 GW LTM

Event ID: 3181

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW6270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHMW20	WL	RHMW20-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-11 12:20 PM	2412AK18A	ALASKA CARGO	027-35217372	12/11/2024	12/12/2024	(b) (4)	1246896			S2BVEM	Sampled								•		•		•				
	RHMW20	WL	RHMW20-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-27 11:30 AM	2412AK18B	ALASKA CARGO	027-35567140	1/2/2025							Sampled									•		•					
	RHMW21	WL	RHMW21-WGN01LF-2412A	104	124	WG	N	1	LF	2024-12-02 01:15 PM	2412AP43A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•										
	RHMW21	WL	RHMW21-WGN01LF-2412A	104	124	WG	N	1	LF	2024-12-02 01:15 PM	2412EU43A	ALASKA CARGO	027-35072166	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled		•	•													
	RHMW21	WL	RHMW21-WGN01LF-2412A	104	124	WG	N	1	LF	2024-12-02 01:15 PM	2412EU43A	UNITED CARGO	016-57725290	12/2/2024	12/3/2024		580-146249-1			S2BVEM	Sampled								•							
	RHMW21	WL	RHMW21-WGN01LF-2412A	104	124	WG	N	1	LF	2024-12-02 01:15 PM	2412AK43A	ALASKA CARGO	027-35217243	12/2/2024	12/3/2024		1246742			S2BVEM	Sampled									•		•				
	RHMW21	WL	RHMW21-WGN01LF-2412B	104	124	WG	N	1	LF	2024-12-16 01:25 PM	2412AK43B	ALASKA CARGO	027-35567000	12/16/2024			1246946			S2BVEM	Sampled									•		•				
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2412A	0	0	WG	N	1	B	2024-12-06 09:37 AM	2412SG19A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled															•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:10 AM	2412AP19A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled						•									
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:10 AM	2412EU19A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•													
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:10 AM	2412EU19A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled								•							
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:10 AM	2412SG19A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•		•		•		•	•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-06 10:10 AM	2412SG19A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled													•		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-26 09:10 AM	2412SG19B	UNITED CARGO	016-33874293	12/26/2024							Sampled													•		
	RHP01	WL	RHP01-WGN01B-2412A	0	0	WG	N	1	B	2024-12-05 08:40 AM	2412SG21A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled															•
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412AP21A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•									
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412EU21A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•													
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412EU21A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•							
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412AK21A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•				
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412SG21A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•		•		•		•	•	•
	RHP01	WL	RHP01-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:30 AM	2412SG21A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled													•		
	RHP02	WL	RHP02-WGN01B-2412A	0	0	WG	N	1	B	2024-12-05 10:15 AM	2412SG22A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled															•
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412AP22A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•									
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412EU22A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•													
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412EU22A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•							
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412AK22A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•				
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412SG22A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•		•		•		•	•	•
	RHP02	WL	RHP02-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 10:50 AM	2412SG22A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled													•		
	RHP03	WL	RHP03-WGN01B-2412A	0	0	WG	N	1	B	2024-12-05 11:30 AM	2412SG23A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled															•
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412AP23A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•									
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412EU23A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•													
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412EU23A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•							
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412AK23A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•				
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412SG23A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•		•		•		•	•	•
	RHP03	WL	RHP03-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 12:10 PM	2412SG23A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled													•		
	RHP04A	WL	RHP04A-WGN01B-2412A	0	0	WG	N	1	B	2024-12-05 08:40 AM	2412SG24A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled															•
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412AP24A	FEDEX	282834458252	12/5/2024	12/6/2024		24L0032			S2BVEM	Sampled						•									
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412EU24A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled		•	•													
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412EU24A	ALASKA CARGO	027-35217346	12/5/2024	12/6/2024		580-146381-1			S4VEM	Sampled								•							
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412AK24A	ALASKA CARGO	027-35217291	12/5/2024	12/6/2024		1246830			S4VEM	Sampled									•		•				
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412SG24A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053			S2BVEM	Sampled				•	•		•		•		•		•	•	•
	RHP04A	WL	RHP04A-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-05 09:15 AM	2412SG24A	UNITED CARGO	016-57677874	12/5/2024	12/7/2024		FC21053				Sampled													•		
	RHP04B	WL	RHP04B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:30 AM	2412AP25A	FEDEX	283075628293	12/10/2024	12/11/2024		24L0078			S4VEM	Sampled						•									
	RHP04B	WL	RHP04B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:30 AM	2412EU25A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled		•	•													
	RHP04B	WL	RHP04B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:30 AM	2412EU25A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled								•							
	RHP04B	WL	RHP04B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 10:30 AM	2412AK25A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		1246868			S2BVEM	Sampled									•		•				
	RHP04B	WL	RHP04B-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-26 11:00 AM	2412SG25B	UNITED CARGO	016-33874293	12/26/2024							Sampled													•		
	RHP04C	WL	RHP04C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 09:45 AM	2412AP26A	FEDEX	283075628293	12/10/2024	12/11/2024		24L0078			S4VEM	Sampled						•									
	RHP04C	WL	RHP04C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 09:45 AM	2412EU26A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled		•	•													
	RHP04C	WL	RHP04C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 09:45 AM	2412EU26A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		580-146471-1			S2BVEM	Sampled								•							
	RHP04C	WL	RHP04C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-10 09:45 AM	2412AK26A	ALASKA CARGO	027-35217383	12/10/2024	12/11/2024		1246868			S2BVEM	Sampled									•		•				
	RHP04C	WL	RHP04C-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-26 11:10 AM	2412SG26B	UNITED CARGO	016-33874293	12/26/2024							Sampled													•		
	RHP05	WL	RHP05-WGFD01B-2412A	0	0	WG	FD	1	B	2024-12-03 08:45 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGFD01LF-2412A	0	0	WG	FD	1	LF	2024-12-03 09:35 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•							•		•		•	•
	RHP05	WL	RHP05-WGFD01LF-2412A	0	0	WG	FD	1	LF	2024-12-03 09:35 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980				Sampled													•		
	RHP05	WL	RHP05-WGN01B-2412A	0	0	WG	N	1	B	2024-12-03 08:45 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled															•
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412AP27A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled						•									
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412EU27A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled		•	•													
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412EU27A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled								•							

Event Status Report
RH Consolidated Groundwater Program
RHS CGW UFP-QAPP

Event Name: Monthly 2024 December and Q4 GW LTM

Event ID: 3181

Site	Location	Location Type	Field Sample ID	Begin Depth	End Depth	Matrix	Sample Type	Sample No.	Samp. Method	Sampling Date	Chain of Custody	Shipping Method	Shipment Tracking Number	Laboratory Shipped Date	Laboratory Receipt Date	Lab	SDG	TAT (Days)	Validation TAT (Days)	Review Type	Sampling Status	Remarks	Alkalinity (A2320B)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNASIME)	EDB SGS (SW8011)	Ferrous Iron (A3500B)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW6270)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412AK27A	ALASKA CARGO	027-35217162	12/3/2024	12/4/2024	(b) (4)	1246759			S2BVEM	Sampled									•	•						
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•	•	•		•		•	•	•	•		•	•
	RHP05	WL	RHP05-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 09:35 AM	2412SG27A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980				Sampled													•			
	RHP06	WL	RHP06-WGN01B-2412A	0	0	WG	N	1	B	2024-12-03 11:00 AM	2412SG30A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled																•
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412AP30A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled					•											
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412EU30A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled		•	•													
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412EU30A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled							•								
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412AK30A	ALASKA CARGO	027-35217162	12/3/2024	12/4/2024		1246759			S2BVEM	Sampled								•		•					
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412SG30A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•	•		•		•	•	•	•	•		•	•
	RHP06	WL	RHP06-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 11:30 AM	2412SG30A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980				Sampled													•			
	RHP07	WL	RHP07-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 10:05 AM	2412AP28A	FEDEX	282773206508	12/4/2024	12/5/2024		24L0026			S2BVEM	Sampled					•											
	RHP07	WL	RHP07-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 10:05 AM	2412EU28A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled		•	•													
	RHP07	WL	RHP07-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 10:05 AM	2412EU28A	ALASKA CARGO	027-35217335	12/4/2024	12/6/2024		580-146357-1			S2BVEM	Sampled							•								
	RHP07	WL	RHP07-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-04 10:05 AM	2412AK28A	ALASKA CARGO	027-35217276	12/4/2024	12/5/2024		1246802			S2BVEM	Sampled								•		•					
	RHP08	WL	RHP08-WGFD01B-2412A	0	0	WG	FD	1	B	2024-12-03 08:30 AM	2412SG33A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled																•
	RHP08	WL	RHP08-WGFD01LF-2412A	0	0	WG	FD	1	LF	2024-12-03 10:00 AM	2412SG33A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•					•		•	•	•	•	•
	RHP08	WL	RHP08-WGN01B-2412A	0	0	WG	N	1	B	2024-12-03 08:30 AM	2412SG33A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled																•
	RHP08	WL	RHP08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 10:00 AM	2412AP33A	FEDEX	282705413111	12/3/2024	12/4/2024		24L0018			S2BVEM	Sampled					•											
	RHP08	WL	RHP08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 10:00 AM	2412EU33A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled		•	•													
	RHP08	WL	RHP08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 10:00 AM	2412EU33A	ALASKA CARGO	027-35217324	12/3/2024	12/4/2024		580-146274-1			S2BVEM	Sampled							•								
	RHP08	WL	RHP08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 10:00 AM	2412AK33A	ALASKA CARGO	027-35217162	12/3/2024	12/4/2024		1246759			S2BVEM	Sampled								•		•					
	RHP08	WL	RHP08-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-03 10:00 AM	2412SG33A	UNITED CARGO	016-57677852	12/3/2024	12/5/2024		FC20980			S2BVEM	Sampled				•	•		•		•		•	•	•	•		•
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412AP45A	FEDEX	283194380596	12/12/2024	12/13/2024		24L0108			S2BVEM	Sampled						•										
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412EU45A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled		•	•													
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412EU45A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled							•								
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412AK45A	ALASKA CARGO	027-35217313	12/12/2024	12/13/2024		1246921			S2BVEM	Sampled								•		•					
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412SG45A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled				•	•		•		•		•	•	•	•		•
	RHP08B	WL	RHP08B-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:25 AM	2412SG45A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264				Sampled													•			
	RHP08B	WL	RHP08B-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-27 09:15 AM	2412AK45B	ALASKA CARGO	027-35567140	1/2/2025							Sampled																
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412AP44A	FEDEX	283194380596	12/12/2024	12/13/2024		24L0108			S2BVEM	Sampled						•										
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412EU44A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled		•	•													
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412EU44A	ALASKA CARGO	027-35567022	12/12/2024	12/13/2024		580-146568-1			S2BVEM	Sampled							•								
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412AK44A	ALASKA CARGO	027-35217313	12/12/2024	12/13/2024		1246921			S2BVEM	Sampled								•		•					
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412SG44A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264			S2BVEM	Sampled				•	•		•		•		•	•	•	•		•
	RHP08C	WL	RHP08C-WGN01LF-2412A	0	0	WG	N	1	LF	2024-12-12 09:10 AM	2412SG44A	UNITED CARGO	016-64544852	12/12/2024	12/14/2024		FC21264				Sampled													•			
	RHP08C	WL	RHP08C-WGN01LF-2412B	0	0	WG	N	1	LF	2024-12-27 09:30 AM	2412AK44B	ALASKA CARGO	027-35567140	1/2/2025							Sampled																
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412A	0	0	WG	N	1	G	2024-12-06 09:35 AM	2412AP42A	FEDEX	282892786172	12/6/2024	12/7/2024		24L0044			S2BVEM	Sampled					•											
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412A	0	0	WG	N	1	G	2024-12-06 09:35 AM	2412EU42A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled		•	•													
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412A	0	0	WG	N	1	G	2024-12-06 09:35 AM	2412EU42A	ALASKA CARGO	027-35217361	12/6/2024	12/7/2024		580-146396-1			S2BVEM	Sampled							•								
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412A	0	0	WG	N	1	G	2024-12-06 09:35 AM	2412SG42A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060			S2BVEM	Sampled				•	•		•		•		•	•	•	•		•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412A	0	0	WG	N	1	G	2024-12-06 09:35 AM	2412SG42A	UNITED CARGO	016-57678025	12/6/2024	12/7/2024		FC21060				Sampled													•			
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2412B	0	0	WG	N	1	G	2024-12-26 09:00 AM	2412SG42B	UNITED CARGO	016-33874293	12/26/2024							Sampled																

Note: This event has missing samples in Event Management that are Field QC ONLY. Please refer to the Unplanned Field Samples report to view these samples.

Appendix B.2 – Monitoring Well Measurements

Appendix B.2.1 – LNAPL Gauging, Monitoring Well Headspace Measurements, and General Chemistry Parameters

Red Hill Bulk Fuel Storage Facility
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Notes:

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

- = Not applicable / no data available

ppmv = parts-per-million by volume

Depth to water measurements correction factors for Solinst groundwater-level measuring tapes N-1 through N-6 using the USGS calibration results are published in letters titled “Results from Calibration of Groundwater-Level Measuring Tapes” dated January 24, 2020 (N-1 and N-2) and December 14, 2022 (N 1, N-2, N-3, N-4, N 5 and N-6). Depth to water measurements correction factors for horizontal well displacement are derived from gyroscopic survey results for wells RHMW01R through RHMW19, OWDFMW01 through OWDFMW08A, HDMW2253-03, NMW24, RHP01 through RHP04A, RHP04C, and RHP07 and are pending results for wells RHMW20, RHP04B, and RHP05. Groundwater-level measuring tape and horizontal displacement correction factors for N-1 through N-6 for all wells are shown on “Correction Factor Tables”.

All Westbay Wells - Westbay is a closed system and the sample port is not located at the water's surface, therefore free product will not be captured or observed. Headspace is measured from Westbay wells for almost all canister pulls. The highest reading measured for each sample is shown in this spreadsheet. Samples collected from Westbay wells are observed for free product during collection and will be noted.

RHMW12A - All readings: Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed. Wells with submerged screens have a one-time bailer sample collected to verfiy no free product at the waters surface.

RHMW16 - All readings: Well screen is submerged and does not span the water's surface, therefore free product will not be captured or observed. Wells with submerged screens have a one-time bailer sample collected to verfiy no free product at the waters surface.

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	HDMW2253-03 Headspace and Product Gauging						HDMW2253-03 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/18/2024	0.0	0.0	207.58	No	-	304.58	6.43	0.47	0.29	44.11	23.83	22.5	0.23
10/28/2024	10/31/2024	0.0	0.0	207.65	No	-	273.32	6.47	0.42	0.49	20.83	23.41	-51.3	0.20
11/11/2024	11/15/2024	0.0	0.0	207.51	No	-	277.44	6.52	0.43	0.49	24.20	23.47	-40.5	0.21
11/25/2024	11/25/2024	0.0	0.0	207.48	No	-	288.95	6.39	0.44	0.35	20.39	23.21	-23.1	0.22
12/09/2024	12/13/2024	0.0	0.0	207.51	No	-	284.68	6.36	0.44	0.46	16.38	23.27	88.1	0.21
12/23/2024	12/27/2024	0.0	0.0	207.5	No	-	294.93	6.30	0.45	0.46	13.45	23.03	74.7	0.22

	NMW24 Headspace and Product Gauging						NMW24 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/15/2024	0.0	0.0	90.46	No	-	466.47	7.00	0.72	5.43	0.34	25.93	278.4	0.35
10/28/2024	10/31/2024	0.0	0.0	90.4	No	-	464.80	7.10	0.72	5.07	0.29	26.24	59.4	0.35
11/11/2024	11/11/2024	0.0	0.0	90.31	No	-	468.80	7.00	0.70	5.30	0.12	26.00	137.6	0.36
11/18/2024	11/22/2024	0.0	0.0	90.28	No	-	495.80	7.00	0.80	5.20	0.40	25.50	152.4	0.40
12/09/2024	12/10/2024	0.0	0.0	90.31	No	-	492.90	7.00	0.80	5.40	0.10	25.80	188.5	0.40
12/23/2024	12/24/2024	0.0	0.0	90.31	No	-	460.10	7.00	0.70	5.70	0.30	25.60	337.4	0.40

	NMW25 Headspace and Product Gauging						NMW25 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/15/2024	0.0	0.0	190.11	No	-	943.88	7.00	1.45	7.60	0.60	27.12	273.8	0.74
10/28/2024	10/30/2024	0.0	0.0	190.2	No	-	869.90	6.98	1.30	7.80	0.40	26.71	89.1	0.68
11/11/2024	11/11/2024	0.0	0.0	189.95	No	-	927.09	7.00	1.40	7.70	0.30	26.63	138.4	0.70
11/25/2024	11/26/2024	0.0	0.0	190	No	-	973.70	7.00	1.50	7.50	0.50	26.00	228.2	0.76
12/02/2024	12/06/2024	0.0	0.0	189.51	No	-	919.20	6.90	1.40	7.60	0.30	26.30	130.8	0.70
12/23/2024	12/24/2024	0.0	0.0	189.99	No	-	920.60	7.00	1.40	7.90	0.50	26.73	220.4	0.70

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	NMW26 Headspace and Product Gauging						NMW26 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/14/2024	0.0	0.0	749.82	No	-	217.75	8.02	0.33	0.78	0.81	25.27	110.7	0.16
10/28/2024	10/28/2024	0.0	0.0	749.73	No	-	206.19	8.07	0.32	0.71	0.42	24.60	-33.5	0.20
11/11/2024	11/12/2024	0.0	0.0	749.7	No	-	211.00	7.80	0.32	0.61	0.00	24.50	23.6	0.20
11/25/2024	11/25/2024	0.0	0.0	749.59	No	-	284.90	7.73	0.40	0.90	0.00	24.76	158.1	0.20
12/09/2024	12/09/2024	0.0	0.0	749.7	No	-	218.37	7.77	0.30	1.00	8.00	25.21	75.4	0.20
12/30/2024	12/30/2024	0.0	0.0	749.69	No	-	228.80	7.80	0.40	0.70	3.00	24.80	134.8	0.20

	NMW27 Headspace and Product Gauging						NMW27 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/09/2024	0.0	0.0	-	No	-	1206.09	7.85	1.86	9.34	3.35	27.23	165.7	0.95
10/28/2024	10/28/2024	0.0	0.0	-	No	-	1175.12	8.77	1.81	6.18	1.44	27.39	30.0	0.93
11/11/2024	11/15/2024	0.0	0.0	-	No	-	1311.83	9.07	2.02	5.72	0.00	27.40	65.2	1.00
11/25/2024	11/25/2024	0.0	0.0	-	No	-	1279.50	9.00	1.97	5.25	3.00	27.60	108.0	1.00
12/09/2024	12/13/2024	0.0	0.0	-	No	-	1232.00	8.90	1.90	4.55	6.30	27.40	180.1	1.00
12/23/2024	12/24/2024	0.0	0.0	-	No	-	1209.90	8.70	1.86	3.90	13.10	27.20	131.0	1.00

	NMW30 Headspace and Product Gauging						NMW30 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/17/2024	0.0	0.0	290.91	No	-	381.54	7.41	0.59	3.10	1.23	26.51	228.6	0.29
10/28/2024	10/30/2024	0.0	0.0	290.94	No	-	413.70	7.40	0.60	3.52	0.00	25.28	110.4	0.31
11/11/2024	11/14/2024	0.0	0.0	290.82	No	-	375.90	7.40	0.60	3.73	0.04	25.44	105.6	0.28
11/25/2024	11/26/2024	0.0	0.0	290.78	No	-	394.70	7.40	0.61	4.32	0.18	25.40	215.2	0.30
12/09/2024	12/12/2024	0.0	0.0	290.79	No	-	468.60	7.30	0.72	4.04	0.20	25.30	153.4	0.40
12/23/2024	12/26/2024	0.0	0.0	290.61	No	-	383.90	7.40	0.59	3.89	10.80	25.30	298.8	0.30

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	NMW32 Headspace and Product Gauging						NMW32 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/17/2024	0.0	0.0	170.17	No	-	725.42	7.29	1.12	4.53	0.77	26.92	162.8	0.56
10/28/2024	10/29/2024	0.0	0.0	170.11	No	-	681.48	7.28	1.05	2.90	0.80	26.30	138.4	0.52
11/11/2024	11/13/2024	0.0	0.0	170.03	No	-	683.76	7.36	1.05	3.30	0.10	26.00	103.7	0.50
11/25/2024	11/25/2024	0.0	0.0	169.78	No	-	744.40	7.40	1.20	4.87	0.87	26.44	170.3	0.58
12/09/2024	12/11/2024	0.0	0.0	169.88	No	-	700.90	7.20	1.10	5.20	0.20	25.84	163.5	0.50
12/23/2024	12/24/2024	0.0	0.0	170.02	No	-	692.90	7.10	1.10	3.40	0.26	26.15	194.2	0.50

	NMW33 Headspace and Product Gauging						NMW33 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/17/2024	0.0	0.0	117.77	No	-	971.93	7.62	1.50	6.57	0.10	26.20	173.1	0.76
10/28/2024	10/29/2024	0.0	0.0	117.67	No	-	944.21	7.62	1.45	6.38	0.72	26.05	176.3	0.70
11/11/2024	11/13/2024	0.0	0.0	117.87	No	-	925.56	7.67	1.42	6.49	0.09	25.70	106.8	0.70
11/25/2024	11/25/2024	0.0	0.0	117.85	No	-	987.60	7.70	1.50	6.60	0.50	25.50	183.5	0.80
12/09/2024	12/11/2024	0.0	0.0	117.85	No	-	932.50	7.60	1.40	6.60	0.30	25.50	163.6	0.70
12/30/2024	12/30/2024	0.0	0.0	117.79	No	-	990.90	7.50	1.50	6.60	0.20	25.90	247.6	0.80

	NMW34 Headspace and Product Gauging						NMW34 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/17/2024	0.0	0.0	64.76	No	-	426.38	6.63	0.66	5.20	0.64	26.56	187.7	0.32
10/28/2024	10/29/2024	0.0	0.0	64.73	No	-	393.50	6.63	0.61	4.79	0.52	25.83	222.7	0.30
11/11/2024	11/15/2024	0.0	0.0	64.63	No	-	439.87	6.62	0.68	5.20	0.00	25.70	184.7	0.33
11/25/2024	11/25/2024	0.0	0.0	64.61	No	-	517.29	6.72	0.80	5.46	0.00	25.80	269.4	0.40
12/09/2024	12/13/2024	0.0	0.0	64.63	No	-	391.18	6.63	0.60	5.38	0.07	25.60	312.9	0.30
12/23/2024	12/24/2024	0.0	0.0	64.63	No	-	388.00	6.70	0.60	5.40	0.40	25.70	353.8	0.30

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	OWDFMW03A Headspace and Product Gauging						OWDFMW03A Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/16/2024	0.0	0.0	100.52	No	-	245.14	8.04	0.38	1.21	2.85	25.99	167.4	0.18
10/28/2024	10/31/2024	0.0	0.0	100.32	No	-	268.12	7.80	0.40	1.30	3.43	26.40	64.1	0.20
11/11/2024	11/13/2024	0.0	0.0	100.37	No	-	259.90	7.90	0.40	1.28	0.70	25.62	43.5	0.19
11/25/2024	11/25/2024	0.0	0.0	100.18	No	-	249.55	7.91	0.38	1.20	0.60	26.20	43.0	0.20
12/09/2024	12/11/2024	0.0	0.0	100.18	No	-	246.40	8.10	0.40	1.10	1.40	25.60	172.9	0.20
12/30/2024	12/30/2024	0.0	0.0	100.18	No	-	250.20	8.10	0.40	1.30	0.70	25.50	167.7	0.20
	OWDFMW08A Headspace and Product Gauging						**OWDFMW08A Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/16/2024	0.0	0.0	115.65	No	-	652.55	7.20	1.00	5.01	0.25	25.84	183.9	0.50
10/28/2024	10/31/2024	0.0	0.0	115.42	No	-	716.46	6.97	1.10	5.11	0.00	25.80	145.4	0.55
11/11/2024	11/13/2024	0.0	0.0	115.5	No	-	708.71	7.10	1.10	5.10	0.40	25.10	139.2	0.55
11/25/2024	11/25/2024	0.0	0.0	115.3	No	-	695.20	7.10	1.10	4.77	0.38	25.79	119.2	0.54
12/09/2024	12/11/2024	0.0	0.0	115.28	No	-	690.80	7.10	1.10	5.02	0.16	25.38	214.5	0.53
12/30/2024	12/30/2024	0.0	0.0	115.3	No	-	701.80	7.10	1.10	4.80	0.30	25.50	226.9	0.50
	RHMW01R Headspace and Product Gauging						**RHMW01R Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/21/2024	0.0	0.0	83.39	No	-	211.50	7.00	0.30	0.30	0.00	23.60	-66.4	0.20
11/04/2024	11/04/2024	0.0	0.0	83.24	No	-	194.20	7.20	0.30	0.10	0.00	23.40	-185.3	0.10
11/18/2024	11/18/2024	0.0	0.0	83.15	No	-	224.50	7.00	0.40	0.10	0.00	23.60	-118.4	0.20
12/02/2024	12/02/2024	0.0	0.0	83.33	No	-	187.90	7.00	0.30	0.10	0.30	23.50	-119.8	0.10
12/16/2024	12/16/2024	0.0	0.0	83.35	No	-	194.80	7.00	0.30	0.10	0.10	23.50	-175.9	0.10
	RHMW02 Headspace and Product Gauging						**RHMW02 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/21/2024	0.0	0.0	86.29	No	-	332.60	6.80	0.50	0.00	0.00	24.20	-107.5	0.30
11/04/2024	11/04/2024	0.0	0.0	86.18	No	-	304.20	7.00	0.50	0.10	0.50	24.30	-226.9	0.20
11/18/2024	11/18/2024	0.0	0.0	86.03	No	-	358.70	6.80	0.60	0.10	0.20	24.60	-190.8	0.30
12/02/2024	12/02/2024	0.0	0.0	86.22	No	-	315.40	6.70	0.50	0.00	0.40	24.30	-182.1	0.20
12/16/2024	12/16/2024	0.0	0.0	86.25	No	-	318.70	6.70	0.50	0.10	0.20	24.40	-272.3	0.20

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	RHMW03 Headspace and Product Gauging						RHMW03 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/22/2024	0.0	0.0	102.67	No	-	546.50	6.80	0.80	0.60	1.90	27.30	155.6	0.40
11/04/2024	11/05/2024	0.0	0.0	102.55	No	-	500.80	6.80	0.80	0.50	0.30	27.20	61.4	0.40
11/18/2024	11/19/2024	0.0	0.0	102.45	No	-	484.60	6.80	0.80	0.40	3.40	27.00	152.1	0.40
12/02/2024	12/06/2024	0.0	0.0	102.34	No	-	490.70	6.80	0.80	0.50	0.50	26.90	169.4	0.40
12/16/2024	12/17/2024	0.0	0.0	102.4	No	-	508.10	6.80	0.80	0.50	0.80	27.30	188.4	0.40
	RHMW04 Headspace and Product Gauging						**RHMW04 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/15/2024	0.0	0.0	293.85	No	-	251.46	7.95	0.39	8.85	0.00	23.24	233.1	0.19
10/28/2024	10/29/2024	0.0	0.0	293.91	No	-	288.30	7.41	0.44	8.78	0.03	23.17	135.1	0.20
11/11/2024	11/11/2024	0.0	0.0	293.74	No	-	271.05	7.42	0.42	8.89	0.00	22.94	125.9	0.20
11/25/2024	11/26/2024	0.0	0.0	293.71	No	-	276.40	7.40	0.40	8.80	0.20	22.90	142.1	0.21
12/09/2024	12/10/2024	0.0	0.0	293.72	No	-	265.20	7.30	0.40	8.80	0.00	23.10	195.9	0.20
12/23/2024	12/24/2024	0.0	0.0	293.8	No	-	271.10	7.19	0.42	8.78	0.00	22.90	261.9	0.20
	RHMW05 Headspace and Product Gauging						**RHMW05 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/23/2024	0.0	0.0	83.03	No	-	220.00	7.40	0.30	7.60	1.40	23.10	148.2	0.20
11/04/2024	11/06/2024	0.0	0.0	83	No	-	198.30	7.60	0.30	7.60	0.30	23.20	61.3	0.20
11/18/2024	11/20/2024	0.0	0.0	82.85	No	-	212.50	7.40	0.30	7.60	0.70	23.00	155.7	0.20
12/02/2024	12/04/2024	0.0	0.0	82.69	No	-	204.00	7.40	0.30	7.70	1.00	22.90	227.7	0.20
12/16/2024	12/18/2024	0.0	0.0	82.73	No	-	208.50	7.30	0.30	7.60	1.80	22.90	252.1	0.20
	RHMW06 Headspace and Product Gauging						**RHMW06 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/10/2024	0.0	0.0	240.82	No	-	1102.50	6.90	1.70	6.80	0.10	25.00	245.0	0.90
10/21/2024	10/24/2024	0.0	0.0	240.87	No	-	1071.20	6.80	1.70	6.70	0.10	24.80	186.4	0.80
11/04/2024	11/07/2024	0.0	0.0	240.78	No	-	1037.40	6.80	1.60	6.60	0.00	24.40	121.1	0.80
11/18/2024	11/21/2024	0.0	0.0	240.61	No	-	1000.30	6.90	1.50	7.10	0.60	24.80	247.2	0.80
12/02/2024	12/05/2024	0.0	0.0	240.7	No	-	1062.30	6.70	1.60	6.90	0.10	24.70	215.5	0.80
12/16/2024	12/19/2024	0.0	0.0	240.69	No	-	1067.20	6.90	1.60	6.80	0.60	25.50	255.6	0.80

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	RHMW08 Headspace and Product Gauging						RHMW08 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/21/2024	0.0	0.0	292.16	No	-	438.20	7.80	0.70	2.20	0.00	25.40	213.9	0.30
11/04/2024	11/04/2024	0.0	0.0	292.15	No	-	462.70	8.10	0.70	1.80	1.90	25.00	85.6	0.40
11/18/2024	11/18/2024	0.0	0.0	292.18	No	-	408.60	8.10	0.60	0.60	0.40	24.80	-197.6	0.30
12/02/2024	12/02/2024	0.0	0.0	292.24	No	-	453.80	8.00	0.70	0.30	0.40	24.50	-14.3	0.30
12/16/2024	12/16/2024	0.0	0.0	292.23	No	-	435.30	8.00	0.70	0.70	0.40	25.00	76.9	0.30

	RHMW09 Headspace and Product Gauging						RHMW09 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/25/2024	0.0	0.0	377.42	No	-	199.10	7.60	0.30	8.40	0.00	24.90	96.5	0.20
11/04/2024	11/08/2024	0.0	0.0	377.26	No	-	295.50	7.50	0.50	8.50	0.00	23.90	152.2	0.20
11/18/2024	11/22/2024	0.0	0.0	377.17	No	-	216.60	7.50	0.30	8.50	0.50	24.40	168.0	0.20
12/02/2024	12/06/2024	0.0	0.0	377.27	No	-	214.30	7.40	0.30	8.40	0.20	24.40	153.5	0.20
12/16/2024	12/20/2024	0.0	0.0	377.18	No	-	231.30	7.40	0.40	8.00	8.10	24.20	77.7	0.20

	RHMW10 Headspace and Product Gauging						RHMW10 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/11/2024	0.0	0.0	477.42	No	-	196.90	7.50	0.30	8.60	0.00	24.60	287.8	0.20
10/21/2024	10/25/2024	0.0	0.0	477.41	No	-	181.50	7.40	0.30	8.30	0.50	25.40	183.1	0.10
11/04/2024	11/08/2024	0.0	0.0	477.31	No	-	176.50	7.60	0.30	8.30	0.20	24.00	133.3	0.10
11/18/2024	11/21/2024	0.0	0.0	477.14	No	-	178.20	7.50	0.30	8.90	0.60	24.20	224.6	0.10
12/02/2024	12/03/2024	0.0	0.0	477.19	No	-	184.30	7.40	0.30	8.20	0.50	24.50	266.4	0.10
12/16/2024	12/19/2024	0.0	0.0	477.26	No	-	189.40	7.40	0.30	8.30	0.50	24.50	257.3	0.10

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	RHMW11-05 Headspace and Product Gauging						RHMW11-05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/23/2024	0.0	0.0	-	No	-	265.30	8.20	0.40	0.60	1.70	26.50	-176.1	0.20
11/04/2024	11/06/2024	0.0	0.0	-	No	-	293.70	8.20	0.50	1.80	0.00	24.70	-134.1	0.20
11/18/2024	11/20/2024	0.0	0.0	-	No	-	256.20	8.10	0.40	0.90	0.70	24.80	-106.0	0.20
12/02/2024	12/04/2024	0.0	0.0	-	No	-	264.30	8.30	0.40	1.90	0.80	24.70	7.5	0.20
12/16/2024	12/18/2024	0.0	0.0	-	No	-	274.80	8.10	0.40	0.60	0.70	24.90	7.0	0.20
	RHMW12A Headspace and Product Gauging						**RHMW12A Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/18/2024	0.0	0.0	220.33	No	-	211.20	8.38	0.32	7.27	0.19	26.51	156.0	0.16
10/28/2024	10/31/2024	0.0	0.0	220.36	No	-	189.00	8.56	0.29	7.28	0.00	25.15	19.6	0.14
11/11/2024	11/15/2024	0.0	0.0	220.21	No	-	190.40	8.48	0.30	7.30	0.00	25.00	74.3	0.14
11/25/2024	11/26/2024	0.0	0.0	220.28	No	-	208.45	8.40	0.30	7.30	0.49	25.47	182.3	0.20
12/09/2024	12/13/2024	0.0	0.0	220.28	No	-	197.31	8.40	0.30	7.40	0.20	25.50	157.1	0.20
12/23/2024	12/27/2024	0.0	0.0	220.26	No	-	203.00	8.30	0.30	7.40	0.30	25.10	197.4	0.20
	RHMW13-04 Headspace and Product Gauging						**RHMW13-04 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/14/2024	0.0	0.0	-	No	-	209.55	7.96	0.32	2.67	0.65	24.51	224.9	0.16
10/28/2024	10/28/2024	0.0	0.0	-	No	-	207.69	7.90	0.30	2.07	0.25	23.35	57.2	0.15
11/11/2024	11/12/2024	0.0	0.0	-	No	-	224.34	8.00	0.40	2.38	0.00	23.27	142.4	0.20
11/18/2024	11/22/2024	0.0	0.0	-	No	-	219.40	7.90	0.30	1.70	0.40	23.00	63.6	0.20
12/09/2024	12/09/2024	0.0	0.0	-	No	-	210.70	8.00	0.30	1.94	0.09	22.86	134.3	0.16
12/16/2024	12/20/2024	0.0	0.0	-	No	-	220.00	8.00	0.30	2.80	0.20	23.60	163.1	0.20
	RHMW14-03 Headspace and Product Gauging						**RHMW14-03 Parameter Readings**							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/23/2024	0.0	0.0	-	No	-	185.00	8.00	0.30	1.90	1.50	25.90	94.0	0.10
11/04/2024	11/06/2024	0.0	0.0	-	No	-	203.90	8.10	0.30	2.70	0.20	24.50	70.9	0.20
11/18/2024	11/20/2024	0.0	0.0	-	No	-	182.00	8.00	0.30	1.90	0.50	24.60	148.4	0.10
12/02/2024	12/04/2024	0.0	0.0	-	No	-	193.30	7.90	0.30	1.90	0.60	25.00	157.9	0.10
12/16/2024	12/18/2024	0.0	0.0	-	No	-	193.50	7.90	0.30	1.90	0.80	25.60	181.1	0.10

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	RHMW15-05 Headspace and Product Gauging						RHMW15-05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/21/2024	0.0	0.0	-	No	-	212.30	7.70	0.30	2.20	2.20	30.70	89.2	0.20
11/04/2024	11/05/2024	0.0	0.0	-	No	-	225.30	7.90	0.40	2.20	1.20	26.00	91.0	0.20
11/18/2024	11/18/2024	0.0	0.0	-	No	-	198.90	8.00	0.30	2.80	0.00	24.80	94.8	0.20
12/02/2024	12/02/2024	0.0	0.0	-	No	-	219.70	7.90	0.30	2.10	1.00	25.20	141.1	0.20
12/16/2024	12/16/2024	0.0	0.0	-	No	-	204.60	7.90	0.30	1.50	0.40	25.20	234.5	0.20

	RHMW16 Headspace and Product Gauging						RHMW16 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/10/2024	0.0	0.0	201.48	No	-	251.70	8.00	0.40	8.70	0.00	24.90	215.4	0.20
10/21/2024	10/24/2024	0.0	0.0	201.59	No	-	240.10	8.00	0.40	8.60	0.10	24.70	167.3	0.20
11/04/2024	11/07/2024	0.0	0.0	201.52	No	-	227.40	8.10	0.40	8.50	0.00	24.50	97.4	0.20
11/18/2024	11/20/2024	0.0	0.0	201.4	No	-	246.50	8.00	0.40	8.60	0.40	25.30	164.6	0.20
12/02/2024	12/05/2024	0.0	0.0	201.43	No	-	243.50	7.70	0.40	8.70	0.20	24.80	211.4	0.20
12/16/2024	12/17/2024	0.0	0.0	201.44	No	-	236.00	8.00	0.40	8.70	0.20	24.20	241.4	0.20

	RHMW17 Headspace and Product Gauging						RHMW17 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/14/2024	0.0	0.0	234.15	No	-	255.98	7.46	0.39	3.45	3.62	24.24	196.3	0.19
10/28/2024	10/28/2024	0.0	0.0	234.18	No	-	262.83	7.37	0.40	3.80	0.00	23.70	153.7	0.20
11/11/2024	11/12/2024	0.0	0.0	234.09	No	-	263.20	7.50	0.40	3.80	0.00	23.72	135.3	0.20
11/18/2024	11/22/2024	0.0	0.0	234	No	-	253.90	7.30	0.40	2.10	0.30	23.50	158.1	0.20
12/09/2024	12/09/2024	0.0	0.0	234.08	No	-	243.20	7.30	0.40	4.00	0.00	23.80	153.4	0.20
12/16/2024	12/20/2024	0.0	0.0	234.02	No	-	260.70	7.40	0.40	4.10	0.10	24.00	254.2	0.20

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	RHMW18 Headspace and Product Gauging						RHMW18 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/17/2024	0.0	0.0	604.25	No	-	222.86	9.02	0.34	1.75	0.83	25.13	108.3	0.17
10/28/2024	10/30/2024	0.0	0.0	604.15	No	-	243.15	9.51	0.37	1.17	0.27	24.81	48.9	0.20
11/11/2024	11/14/2024	0.0	0.0	604.08	No	-	218.62	9.61	0.34	1.25	0.00	24.20	-11.8	0.20
11/25/2024	11/26/2024	0.0	0.0	603.97	No	-	233.70	9.50	0.40	1.20	0.23	24.87	100.7	0.17
12/09/2024	12/12/2024	0.0	0.0	604.01	No	-	275.86	9.44	0.40	1.30	0.10	24.47	30.1	0.20
12/23/2024	12/26/2024	0.0	0.0	603.93	No	-	220.10	9.40	0.30	1.87	0.41	24.66	166.9	0.16

	RHMW19 Headspace and Product Gauging						RHMW19 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/11/2024	0.0	0.0	426.34	No	-	193.00	7.70	0.30	8.60	2.60	25.50	282.3	0.10
10/21/2024	10/25/2024	0.0	0.0	426.39	No	-	170.20	8.30	0.30	8.70	0.20	25.50	26.2	0.10
11/04/2024	11/08/2024	0.0	0.0	426.24	No	-	251.60	7.70	0.40	8.60	0.00	24.10	141.1	0.20
11/18/2024	11/22/2024	0.0	0.0	426.12	No	-	183.90	7.70	0.30	8.60	0.50	24.50	157.0	0.10
12/02/2024	12/06/2024	0.0	0.0	426.24	No	-	181.60	7.60	0.30	8.70	0.20	24.20	144.1	0.10
12/16/2024	12/20/2024	0.0	0.0	426.12	No	-	196.80	7.70	0.30	8.40	0.40	25.30	54.0	0.20

	RHMW20 Headspace and Product Gauging						RHMW20 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/16/2024	0.0	0.0	237.43	No	-	1185.36	7.05	1.82	6.68	0.21	24.71	278.4	0.94
10/28/2024	10/31/2024	0.0	0.0	237.44	No	-	1249.20	7.00	1.92	6.48	0.00	24.40	120.6	0.99
11/11/2024	11/13/2024	0.0	0.0	237.4	No	-	1240.90	7.03	1.91	6.66	0.00	23.82	121.1	0.98
11/25/2024	11/26/2024	0.0	0.0	237.35	No	-	1263.67	7.10	1.90	6.38	0.30	24.50	208.5	1.00
12/09/2024	12/11/2024	0.0	0.0	237.33	No	-	1243.60	7.09	1.91	6.60	0.20	24.20	284.5	1.00
12/23/2024	12/27/2024	0.0	0.0	237.31	No	-	1220.00	7.00	1.90	6.70	0.60	24.20	206.6	1.00

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	RHMW21 Headspace and Product Gauging						RHMW21 Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/21/2024	0.0	0.2	113.47	No	-	203.60	10.00	0.30	0.30	0.90	24.70	-68.8	0.20
11/04/2024	11/04/2024	0.0	0.2	113.41	No	-	202.60	10.20	0.30	0.40	0.90	24.40	-281.3	0.20
11/18/2024	11/18/2024	0.0	0.0	113.37	No	-	233.70	9.80	0.40	0.30	0.20	24.40	-233.4	0.20
12/02/2024	12/02/2024	0.0	0.0	113.45	No	-	192.90	9.80	0.30	0.40	0.70	24.30	-219.0	0.10
12/16/2024	12/16/2024	0.0	0.0	113.45	No	-	199.40	9.70	0.30	0.40	0.50	24.40	-280.4	0.20

	RHMW2254-01 Headspace and Product Gauging						RHMW2254-01 Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/22/2024	0.0	0.0	(b) (3) (A)	No	-	358.60	7.60	0.60	7.70	0.00	22.70	186.6	0.30
11/04/2024	11/05/2024	0.0	0.0		No	-	323.70	7.90	0.50	8.60	0.00	22.20	69.3	0.20
11/18/2024	11/19/2024	0.0	0.0		No	-	315.60	7.60	0.50	8.70	0.00	22.20	196.3	0.20
12/02/2024	12/06/2024	0.0	0.0		No	-	297.30	7.60	0.50	8.60	0.10	22.20	219.4	0.20
12/23/2024	12/26/2024	0.0	0.0		No	-	325.90	7.50	0.50	8.70	0.00	22.10	206.4	0.20

	RHP01 Headspace and Product Gauging						RHP01 Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/24/2024	0.0	0.0	138.35	No	-	435.40	6.90	0.70	6.40	0.30	25.30	148.0	0.30
11/04/2024	11/07/2024	0.0	0.0	138.24	No	-	490.10	6.90	0.80	6.10	0.10	24.50	162.1	0.40
11/18/2024	11/21/2024	0.0	0.0	138.18	No	-	421.70	7.00	0.70	5.90	0.40	24.40	198.6	0.30
12/02/2024	12/05/2024	0.0	0.0	138.18	No	-	410.30	6.90	0.60	6.60	0.20	24.40	224.7	0.30
12/16/2024	12/19/2024	0.0	0.0	138.24	No	-	431.60	6.90	0.70	6.60	0.30	24.10	253.7	0.30

	RHP02 Headspace and Product Gauging						RHP02 Parameter Readings							
WEEK	DATE	AMBIENT	HEADSPACE	Raw DTW	PRODUCT?	THICKNESS	TDS	pH	Sp. Cond.	D.O.	Turbidity	TEMP	ORP	SAL
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/24/2024	0.0	0.0	121.38	No	-	482.30	7.10	0.70	7.70	0.30	25.20	169.5	0.40
11/04/2024	11/07/2024	0.0	0.0	121.25	No	-	552.90	6.80	0.90	7.30	0.10	24.60	157.5	0.40
11/18/2024	11/21/2024	0.0	0.0	121.12	No	-	485.00	6.80	0.80	7.60	0.20	24.50	163.2	0.40
12/02/2024	12/05/2024	0.0	0.0	120.15	No	-	467.10	6.90	0.70	7.80	0.30	24.60	242.2	0.40
12/16/2024	12/19/2024	0.0	0.0	121.22	No	-	488.90	6.80	0.80	7.70	0.00	24.60	304.7	0.40

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	RHP03 Headspace and Product Gauging						RHP03 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/09/2024	0.0	0.0	118.74	No	-	755.20	7.40	1.20	3.20	0.00	24.80	209.9	0.60
10/21/2024	10/24/2024	0.0	0.0	118.57	No	-	731.10	7.40	1.10	3.40	0.40	25.10	139.6	0.60
11/04/2024	11/07/2024	0.0	0.0	118.47	No	-	852.30	7.40	1.30	3.10	0.00	24.40	141.9	0.70
11/18/2024	11/21/2024	0.0	0.0	118.35	No	-	769.10	7.40	1.20	3.00	0.30	24.70	108.1	0.60
12/02/2024	12/05/2024	0.0	0.0	118.36	No	-	737.70	7.40	1.10	3.20	0.30	24.90	183.4	0.60
12/16/2024	12/19/2024	0.0	0.0	118.43	No	-	763.90	7.30	1.20	3.20	0.00	24.80	255.5	0.60

	RHP04A Headspace and Product Gauging						RHP04A Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/09/2024	0.0	0.0	139.65	No	-	647.70	7.50	1.00	2.60	0.00	25.97	226.2	0.50
10/21/2024	10/24/2024	0.0	0.0	139.5	No	-	650.60	7.40	1.00	3.10	0.20	26.20	98.0	0.50
11/04/2024	11/07/2024	0.0	0.0	139.42	No	-	631.60	7.30	1.00	3.50	0.00	25.20	68.1	0.50
11/18/2024	11/21/2024	0.0	0.0	139.29	No	-	601.00	7.40	0.90	3.60	3.30	25.90	201.3	0.50
12/02/2024	12/05/2024	0.0	0.0	139.37	No	-	623.40	7.30	1.00	3.70	0.10	25.40	164.4	0.50
12/16/2024	12/19/2024	0.0	0.0	139.41	No	-	622.10	7.30	1.00	3.70	0.00	25.20	248.2	0.50

	RHP04B Headspace and Product Gauging						RHP04B Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/15/2024	0.0	0.0	138.58	No	-	382.00	8.06	0.59	0.22	0.38	25.84	-98.6	0.29
10/28/2024	10/29/2024	0.0	0.0	138.72	No	-	363.50	7.90	0.60	0.17	0.03	25.59	-217.1	0.27
11/11/2024	11/11/2024	0.0	0.0	138.48	No	-	369.50	8.00	0.57	0.20	0.30	25.44	-226.8	0.28
11/25/2024	11/26/2024	0.0	0.0	138.58	No	-	358.80	7.90	0.55	0.20	0.40	25.29	-262.1	0.27
12/09/2024	12/10/2024	0.0	0.0	138.46	No	-	356.30	8.00	0.60	0.19	0.20	25.33	-72.0	0.30
12/23/2024	12/26/2024	0.0	0.0	138.49	No	-	367.50	8.00	0.60	0.16	0.57	25.65	-76.9	0.28

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	RHP04C Headspace and Product Gauging						RHP04C Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/15/2024	0.0	0.0	137.9	No	-	934.97	7.50	1.44	0.90	4.76	26.77	171.2	0.73
10/28/2024	10/29/2024	0.0	0.0	138.03	No	-	840.05	7.57	1.29	0.70	0.00	25.80	-1.0	0.65
11/11/2024	11/11/2024	0.0	0.0	137.76	No	-	915.39	7.40	1.40	1.00	0.00	26.42	136.8	0.71
11/25/2024	11/26/2024	0.0	0.0	137.86	No	-	901.06	7.40	1.39	0.80	0.50	25.50	-17.7	0.70
12/09/2024	12/10/2024	0.0	0.0	137.8	No	-	905.70	7.50	1.39	0.80	0.20	25.34	201.7	0.70
12/23/2024	12/26/2024	0.0	0.0	137.75	No	-	905.80	7.40	1.40	0.90	0.60	25.70	102.0	0.70

	RHP05 Headspace and Product Gauging						RHP05 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/10/2024	0.0	0.0	212.32	No	-	590.90	7.10	0.90	6.50	0.20	26.50	210.0	0.50
10/21/2024	10/25/2024	0.0	0.0	212.24	No	-	607.10	7.20	0.90	6.40	4.20	26.30	167.3	0.50
11/04/2024	11/08/2024	0.0	0.0	212.15	No	-	591.60	7.30	0.90	6.30	0.40	25.90	134.0	0.50
11/18/2024	11/19/2024	0.0	0.0	212.2	No	-	612.50	7.30	0.90	6.60	0.00	26.10	142.9	0.50
12/02/2024	12/03/2024	0.0	0.0	212.08	No	-	612.00	7.10	0.90	6.40	0.80	26.10	231.3	0.50
12/16/2024	12/17/2024	0.0	0.0	212.11	No	-	635.70	7.20	1.00	6.40	2.90	25.50	209.5	0.50

	RHP06 Headspace and Product Gauging						RHP06 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/07/2024	10/10/2024	0.0	0.0	252.73	No	-	620.40	7.20	1.00	7.10	0.70	26.10	209.0	0.50
10/21/2024	10/22/2024	0.0	0.0	252.73	No	-	617.50	7.10	1.00	7.20	1.20	26.20	123.9	0.50
11/04/2024	11/04/2024	0.0	0.0	252.68	No	-	668.20	7.10	1.00	7.10	0.00	25.50	152.1	0.50
11/18/2024	11/19/2024	0.0	0.0	252.64	No	-	594.20	7.10	0.90	7.10	1.60	25.60	168.5	0.50
12/02/2024	12/03/2024	0.0	0.0	252.54	No	-	625.20	6.90	1.00	7.00	0.00	25.80	203.3	0.50
12/16/2024	12/17/2024	0.0	0.0	252.53	No	-	641.80	7.00	1.00	7.10	1.00	25.90	245.7	0.50

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	RHP07 Headspace and Product Gauging						RHP07 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/23/2024	0.0	0.0	82.48	No	-	430.60	7.30	0.70	8.20	6.10	23.30	169.9	0.30
11/04/2024	11/06/2024	0.0	0.0	82.43	No	-	393.20	7.50	0.60	8.30	0.80	23.40	87.0	0.30
11/18/2024	11/20/2024	0.0	0.0	82.34	No	-	418.20	7.40	0.60	8.20	0.90	23.30	163.3	0.30
12/02/2024	12/04/2024	0.0	0.0	82.08	No	-	401.10	7.30	0.60	8.40	1.90	23.10	223.0	0.30
12/16/2024	12/18/2024	0.0	0.0	82.1	No	-	406.70	7.30	0.60	8.30	0.20	23.20	239.3	0.30

	RHP08 Headspace and Product Gauging						RHP08 Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/21/2024	10/22/2024	0.0	0.0	284.95	No	-	410.40	7.70	0.60	7.10	3.30	25.00	132.2	0.30
11/04/2024	11/04/2024	0.0	0.0	284.78	No	-	481.50	7.50	0.70	7.50	10.60	25.00	113.6	0.40
11/18/2024	11/19/2024	0.0	0.0	284.84	No	-	403.70	7.70	0.60	7.20	4.90	25.00	140.2	0.30
12/02/2024	12/03/2024	0.0	0.0	284.73	No	-	483.60	7.50	0.70	7.40	17.30	24.80	176.5	0.40
12/16/2024	12/17/2024	0.0	0.0	284.69	No	-	502.80	7.50	0.80	7.50	0.60	25.00	240.3	0.40

	RHP08B Headspace and Product Gauging						RHP08B Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/16/2024	0.0	0.0	-	No	-	403.33	8.02	0.62	15.54	1.13	26.87	201.3	0.30
10/28/2024	10/30/2024	0.0	0.0	291	No	-	349.62	8.09	0.54	13.11	12.98	26.29	69.5	0.30
11/11/2024	11/14/2024	0.0	0.2	290.93	No	-	404.10	8.00	0.60	13.40	0.27	25.90	138.5	0.30
11/25/2024	11/24/2024	0.0	0.0	290.62	No	-	358.30	8.35	0.60	14.10	1.10	25.72	194.8	0.27
12/09/2024	12/12/2024	0.0	0.0	290.82	No	-	375.20	8.40	0.60	13.30	0.80	26.00	147.3	0.28
12/23/2024	12/27/2024	0.0	0.0	290.83	No	-	359.59	8.56	0.60	15.00	0.70	25.47	243.2	0.30

	RHP08C Headspace and Product Gauging						RHP08C Parameter Readings							
WEEK	**DATE**	**AMBIENT**	**HEADSPACE**	**Raw DTW**	**PRODUCT?**	**THICKNESS**	**TDS**	**pH**	**Sp. Cond.**	**D.O.**	**Turbidity**	**TEMP**	**ORP**	**SAL**
		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	(ppm)		(mS/cm)	(mg/L)	(NTU)	(°C)	(Mv)	(psu)
10/14/2024	10/16/2024	0.0	0.0	290.97	No	-	327.70	8.34	0.50	8.03	0.91	26.05	226.0	0.25
10/28/2024	10/30/2024	0.0	0.0	290.94	No	-	364.50	8.22	0.56	8.17	1.90	26.10	81.0	0.27
11/11/2024	11/14/2024	0.0	0.0	290.87	No	-	365.90	8.26	0.56	7.86	1.31	25.61	128.1	0.30
11/25/2024	11/24/2024	0.0	0.0	290.66	No	-	341.90	8.50	0.53	7.30	3.20	25.35	177.9	0.26
12/09/2024	12/12/2024	0.0	0.0	290.8	No	-	343.80	8.30	0.53	7.72	0.77	25.60	135.8	0.26
12/23/2024	12/27/2024	0.0	0.0	290.87	No	-	330.70	8.40	0.50	7.50	1.70	25.60	175.5	0.30

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Tape Correction

Serial Number	Calibration Date	Beginning Depth (ft)	End Depth (ft)	Correction (ft)
N-1	2017	0.00	6.41	0.00
N-1	2017	6.42	14.02	0.00
N-1	2017	14.03	52.17	-0.01
N-1	2017	52.18	90.33	-0.02
N-1	2017	90.34	128.49	-0.03
N-1	2017	128.50	166.64	-0.04
N-1	2017	166.65	204.80	-0.05
N-1	2017	204.81	242.96	-0.06
N-1	2017	242.97	392.45	-0.07
N-1	2017	392.46	500.00	-0.07
N-2	2017	0.00	6.40	0.01
N-2	2017	6.41	8.23	0.01
N-2	2017	8.24	80.71	0.00
N-2	2017	80.72	161.31	-0.01
N-2	2017	161.32	253.61	-0.02
N-2	2017	253.62	364.91	-0.03
N-2	2017	364.92	516.53	-0.04
N-2	2017	516.54	593.17	-0.05
N-2	2017	593.18	764.02	-0.05
N-2	2017	764.03	1000.00	-0.06
N-1	2019	0.00	6.30	0.00
N-1	2019	6.31	29.17	0.00
N-1	2019	29.18	108.72	-0.01
N-1	2019	108.73	188.27	-0.02
N-1	2019	188.28	267.83	-0.03
N-1	2019	267.84	347.38	-0.04
N-1	2019	347.39	392.07	-0.05
N-1	2019	392.08	426.93	-0.05
N-1	2019	426.94	500.00	-0.06
N-2	2019	0.00	6.29	0.00

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N-2	2019	6.30	48.47	0.00
N-2	2019	48.48	113.38	-0.01
N-2	2019	113.39	181.28	-0.02
N-2	2019	181.29	252.63	-0.03
N-2	2019	252.64	328.02	-0.04
N-2	2019	328.03	408.23	-0.05
N-2	2019	408.24	494.31	-0.06
N-2	2019	494.32	587.79	-0.07
N-2	2019	587.80	592.86	-0.08
N-2	2019	592.87	690.98	-0.08
N-2	2019	690.99	807.72	-0.09
N-2	2019	807.73	945.40	-0.10
N-2	2019	945.41	1000.00	-0.11
N-1	2022	0.00	18.17	0.01
N-1	2022	18.18	24.44	0.01
N-1	2022	24.45	49.50	0.00
N-1	2022	49.51	74.57	-0.01
N-1	2022	74.58	99.64	-0.02
N-1	2022	99.65	124.71	-0.03
N-1	2022	124.72	149.78	-0.04
N-1	2022	149.79	174.84	-0.05
N-1	2022	174.85	199.91	-0.06
N-1	2022	199.92	224.98	-0.07
N-1	2022	224.99	250.05	-0.08
N-1	2022	250.06	275.11	-0.09
N-1	2022	275.12	393.17	-0.10
N-1	2022	393.18	500.00	-0.10
N-2	2022	0.00	7.39	-0.01
N-2	2022	7.40	18.18	-0.02

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N-2	2022	18.19	28.82	-0.02
N-2	2022	28.83	51.17	-0.03
N-2	2022	51.18	74.58	-0.04
N-2	2022	74.59	99.21	-0.05
N-2	2022	99.22	125.27	-0.06
N-2	2022	125.28	153.06	-0.07
N-2	2022	153.07	182.96	-0.08
N-2	2022	182.97	215.55	-0.09
N-2	2022	215.56	251.71	-0.10
N-2	2022	251.72	292.97	-0.11
N-2	2022	292.98	342.39	-0.12
N-2	2022	342.40	408.44	-0.13
N-2	2022	408.45	685.51	-0.14
N-2	2022	685.52	751.56	-0.13
N-2	2022	751.57	800.98	-0.12
N-2	2022	800.99	831.56	-0.11
N-2	2022	831.57	842.44	-0.11
N-2	2022	842.45	882.26	-0.10
N-2	2022	882.27	922.08	-0.09
N-2	2022	922.09	961.90	-0.08
N-2	2022	961.91	1000.00	-0.07
N-3	2022	0.00	7.03	0.00
N-3	2022	7.04	18.18	-0.01
N-3	2022	18.19	20.83	-0.01
N-3	2022	20.84	35.47	-0.02
N-3	2022	35.48	51.15	-0.03
N-3	2022	51.16	68.11	-0.04
N-3	2022	68.12	86.74	-0.05
N-3	2022	86.75	107.64	-0.06
N-3	2022	107.65	131.96	-0.07
N-3	2022	131.97	162.22	-0.08
N-3	2022	162.23	208.21	-0.09
N-3	2022	208.22	308.99	-0.10

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N-3	2022	309.00	354.98	-0.09
N-3	2022	354.99	385.24	-0.08
N-3	2022	385.25	393.15	-0.07
N-3	2022	393.16	410.56	-0.07
N-3	2022	410.57	435.64	-0.06
N-3	2022	435.65	460.72	-0.05
N-3	2022	460.73	485.80	-0.04
N-3	2022	485.81	500.00	-0.03
N-4	2022	0.00	0.48	-0.01
N-4	2022	0.49	11.83	-0.02
N-4	2022	11.84	18.19	-0.03
N-4	2022	18.20	23.66	-0.03
N-4	2022	23.67	36.04	-0.04
N-4	2022	36.05	49.06	-0.05
N-4	2022	49.07	62.83	-0.06
N-4	2022	62.84	77.49	-0.07
N-4	2022	77.50	93.25	-0.08
N-4	2022	93.26	110.39	-0.09
N-4	2022	110.40	129.36	-0.10
N-4	2022	129.37	150.90	-0.11
N-4	2022	150.91	176.49	-0.12
N-4	2022	176.50	209.96	-0.13
N-4	2022	209.97	368.42	-0.14
N-4	2022	368.43	393.21	-0.13
N-4	2022	393.22	402.24	-0.13
N-4	2022	402.25	433.12	-0.12
N-4	2022	433.13	463.99	-0.11
N-4	2022	464.00	494.86	-0.10
N-4	2022	494.87	500.00	-0.09
N-5	2022	0.00	3.66	0.03
N-5	2022	3.67	18.14	0.02
N-5	2022	18.15	32.69	0.02
N-5	2022	32.70	64.83	0.01

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N-5	2022	64.84	101.37	0.00
N-5	2022	101.38	144.83	-0.01
N-5	2022	144.84	201.87	-0.02
N-5	2022	201.88	393.11	-0.03
N-5	2022	393.12	500.00	-0.03
N-6	2022	0.00	6.02	-0.03
N-6	2022	6.03	18.20	-0.04
N-6	2022	18.21	37.84	-0.04
N-6	2022	37.85	72.83	-0.05
N-6	2022	72.84	112.18	-0.06
N-6	2022	112.19	158.10	-0.07
N-6	2022	158.11	215.65	-0.08
N-6	2022	215.66	305.93	-0.09
N-6	2022	305.94	393.17	-0.10
N-6	2022	393.18	750.00	-0.10

Tape calibration conducted by USGS on: September 13 - 15, 2017; September 11 - 13, 2019; and September 20 - 22, 2022

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Tape Correction for Week of September 19, 2022

Well	Rental Oil/Water Interface Probe SN	Rental Oil/Water Interface Probe DTW (ft)	Reference Oil/Water Interface Probe SN	Reference Oil/Water Interface Probe DTW (ft)	Oil/Water Interface Probe Offset (ft)
RHMW01R	01-8854	83.80	N-3	83.78	-0.02
RHMW02	01-8854	86.70	N-3	86.69	-0.01
RHMW03	01-8854	102.93	N-3	102.90	-0.03
RHMW04	01-8854	294.30	N-5	294.10	-0.20
RHMW05	01-8854	83.40	N-3	83.40	0.00
RHMW06	01-8854	241.25	N-5	241.09	-0.16
RHMW08	01-8854	292.81	N-5	292.61	-0.20
RHMW09	01-8607	378.09	N-3	377.77	-0.32
RHMW12A	01-8854	220.85	N-4	220.81	-0.04
RHMW16	01-8854	202.07	N-4	202.01	-0.06
RHMW17	01-8854	234.51	N-3	234.41	-0.10
RHMW19	01-8607	427.27	N-3	426.90	-0.37
RHMW2254-01	01-8859	(b) (3) (A)	N-3	(b) (3) (A)	(b) (3) (A)
OWDFMW01	287303	120.49	N-3	120.38	-0.11
OWDFMW04A	25142	149.17	N-4	149.16	-0.01
OWDFMW05A	25142	100.98	N-4	100.98	0.00
OWDFMW07A	25142	101.77	N-4	101.77	0.00
OWDFMW08A	25142	115.93	N-4	115.93	0.00

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Monitoring Well Horizontal Displacement

Well	Horizontal Displacement Correction (ft)
RHMW01	None
RHMW01R	-0.06
RHMW02	-0.06
RHMW03	-0.04
RHMW04	-0.02
RHMW05	-0.01
RHMW06	-0.01
RHMW07	-0.01
RHMW08	-0.03
RHMW09	-0.24
RHMW10	-0.09
RHMW12A	-0.06
RHMW16	-0.90
RHMW17	-0.01
RHMW18	pending
RHMW19	-0.21
RHMW20	pending
RHMW21	pending
RHMW2254-01	NA
OWDFMW01	-0.03
OWDFMW03A	-0.07
OWDFMW04A	-0.03
OWDFMW05A	-0.03
OWDFMW07A	-0.08
OWDFMW08A	-0.08
HDMW2253-03	-0.01
NMW24	-0.06
NMW25	-0.11
NMW26	pending
NMW27	pending
NMW30	-0.15

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NMW32	-0.02
NMW33	-0.08
NMW34	pending
RHP01	-0.04
RHP02	-0.02
RHP03	-0.02
RHP04A	-0.04
RHP04B	-0.06
RHP04C	-0.02
RHP05	-0.15
RHP06	-0.04
RHP07	0.00
RHP08	-0.17
RHP08B	pending
RHP08C	pending

Not all wells currently have horizontal displacement correction factors. Horizontal displacement corrections will be updated once available.

Horizontal displacement cannot be calculated for RHMW01. RHMW01 is a 1-inch well, which is too narrow for the gyroscopic survey tool.

Appendix B.2.2 – Monitoring Well Water Level Measurements

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
HDMW2253-03	09/05/2023	[redacted]						
	10/03/2023							
	11/07/2023							
	12/08/2023							
	12/15/2023							
	01/05/2024							
	02/09/2024							
	03/15/2024							
	04/12/2024							
	05/17/2024							
	05/28/2024							
	06/14/2024							
	06/28/2024							
	07/12/2024							
	07/26/2024							
	08/15/2024							
	08/30/2024							
	09/13/2024							
	09/27/2024							
	10/18/2024							
	10/31/2024							
	11/15/2024							
	11/25/2024							
	12/13/2024							
	12/27/2024							
NMW24	09/08/2023	107.18	91.07	16.11	-0.08 [N-4]	-0.06	90.93	16.25
	10/02/2023	107.18	91.06	16.12	0.00 [N-5]	-0.06	91.00	16.18
	10/13/2023	107.18	91.13	16.05	0.00 [N-5]	-0.06	91.07	16.11
	11/09/2023	107.18	91.17	16.01	-0.06 [N-3]	-0.06	91.05	16.13
	12/08/2023	107.18	90.97	16.21	-0.06 [N-6]	-0.06	90.85	16.33
	01/04/2024	107.18	90.93	16.25	-0.06 [N-3]	-0.06	90.81	16.37
	02/14/2024	107.18	90.78	16.40	-0.08 [N-4]	-0.06	90.64	16.54
	03/20/2024	107.18	90.85	16.33	-0.08 [N-4]	-0.06	90.71	16.47
	04/10/2024	107.18	90.84	16.34	0.00 [N-5]	-0.06	90.78	16.40
	05/15/2024	107.18	90.69	16.49	0.00 [N-5]	-0.06	90.63	16.55
	05/29/2024	107.18	90.48	16.7	0.00 [N-5]	-0.06	90.42	16.76
	06/12/2024	107.18	90.54	16.64	0.00 [N-5]	-0.06	90.48	16.70
	06/26/2024	107.18	90.56	16.62	0.00 [N-5]	-0.06	90.50	16.68
	07/10/2024	107.18	90.55	16.63	-0.06 [N-3]	-0.06	90.43	16.75
	07/26/2024	107.18	90.52	16.66	-0.06 [N-3]	-0.06	90.40	16.78
	08/14/2024	107.18	90.54	16.64	0.00 [N-5]	-0.06	90.48	16.70
	08/28/2024	107.18	90.51	16.67	0.00 [N-5]	-0.06	90.45	16.73
	09/12/2024	107.18	90.46	16.72	288404 [b]	-0.06	90.40	16.78
	09/24/2024	107.18	90.45	16.73	-0.08 [N-4]	-0.06	90.31	16.87
	10/15/2024	107.18	90.46	16.72	-0.08 [N-4]	-0.06	90.32	16.86
	10/31/2024	107.18	90.40	16.78	-0.08 [N-4]	-0.06	90.26	16.92
	11/22/2024	107.18	90.28	16.9	-0.06 [N-3]	-0.06	90.16	17.02
	11/11/2024	107.18	90.31	16.87	0.00 [N-5]	-0.06	90.25	16.93
	12/10/2024	107.18	90.31	16.87	-0.06 [N-3]	-0.06	90.19	16.99
	12/24/2024	107.18	90.31	16.87	0.00 [N-5]	-0.06	90.25	16.93
NMW25	09/07/2023	208.43	190.84	17.59	-0.08 [N-6]	-0.11	190.65	17.78
	10/02/2023	208.43	190.89	17.54	-0.02 [N-5]	-0.11	190.76	17.67
	10/13/2023	208.43	190.94	17.49	-0.02 [N-5]	-0.11	190.81	17.62
	11/09/2023	208.43	190.99	17.44	-0.08 [N-6]	-0.11	190.80	17.63
	12/07/2023	208.43	190.85	17.58	-0.09 [N-3]	-0.11	190.65	17.78
	01/04/2024	208.43	190.73	17.70	-0.09 [N-3]	-0.11	190.53	17.90
	02/14/2024	208.43	190.66	17.77	-0.13 [N-4]	-0.11	190.42	18.01
	03/20/2024	208.43	190.72	17.71	-0.13 [N-4]	-0.11	190.48	17.95
	04/10/2024	208.43	190.71	17.72	-0.02 [N-5]	-0.11	190.58	17.85
	05/15/2024	208.43	190.41	18.02	-0.02 [N-5]	-0.11	190.28	18.15
	05/29/2024	208.43	190.24	18.19	-0.02 [N-5]	-0.11	190.11	18.32
	06/12/2024	208.43	190.33	18.1	-0.02 [N-5]	-0.11	190.2	18.23
	06/26/2024	208.43	190.34	18.09	-0.02 [N-5]	-0.11	190.21	18.22
	07/10/2024	208.43	190.33	18.1	-0.09 [N-3]	-0.11	190.13	18.30
	08/14/2024	208.43	190.23	18.2	-0.02 [N-5]	-0.11	190.1	18.33
	08/28/2024	208.43	190.31	18.12	-0.02 [N-5]	-0.11	190.18	18.25
	09/12/2024	208.43	190.12	18.31	288404 [b]	-0.11	190.01	18.42
	09/24/2024	208.43	190.15	18.28	-0.02 [N-5]	-0.11	190.02	18.41
	10/15/2024	208.43	190.11	18.32	-0.13 [N-4]	-0.11	189.87	18.56
	10/30/2024	208.43	190.20	18.23	-0.13 [N-4]	-0.11	189.96	18.47
	11/11/2024	208.43	189.95	18.48	-0.02 [N-5]	-0.11	189.82	18.61
	11/26/2024	208.43	190.00	18.43	-0.13 [N-4]	-0.11	189.76	18.67
	12/06/2024	208.43	189.51	18.92	-0.13 [N-4]	-0.11	189.27	19.16
	12/24/2024	208.43	189.99	18.44	-0.09 [N-3]	-0.11	189.79	18.64
NMW26	05/13/2024	766.18	750.00	16.18	-0.13 [N-2]	-0.11	749.76	16.42
	05/28/2024	766.18	749.75	16.43	-0.13 [N-2]	—	749.62	16.56
	06/10/2024	766.18	749.90	16.28	[N-7] [a]	—	749.9	16.28
	06/24/2024	766.18	749.95	16.23	[N-7] [a]	—	749.95	16.23
	07/08/2024	766.18	749.94	16.24	[N-7] [a]	—	749.94	16.24
	07/24/2024	766.18	749.92	16.26	[N-7] [a]	—	749.92	16.26
	08/12/2024	766.18	749.93	16.25	[N-7] [a]	—	749.93	16.25
	08/26/2024	766.18	749.93	16.25	[N-7] [a]	—	749.93	16.25
	09/11/2024	766.18	749.60	16.58	288404 [b]	—	749.6	16.58
	09/23/2024	766.18	750.64	15.54	[N-7] [a]	—	750.64	15.54
	10/14/2024	766.18	749.82	16.36	[N-7] [a]	—	749.82	16.36
	10/28/2024	766.18	749.73	16.45	[N-7] [a]	—	749.73	16.45
	11/12/2024	766.18	749.70	16.48	[N-7] [a]	—	749.7	16.48
	11/25/2024	766.18	749.59	16.59	[N-7] [a]	—	749.59	16.59
	12/09/2024	766.18	749.70	16.48	[N-7] [a]	—	749.7	16.48
	12/30/2024	766.18	749.69	16.49	[N-7] [a]	—	749.69	16.49

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
NMW30	10/19/2023	308.85	291.65	17.20	-0.03 [N-5]	-0.15	291.47	17.38
	11/09/2023	308.85	291.71	17.14	-0.03 [N-5]	-0.15	291.53	17.32
	12/07/2023	308.85	291.54	17.31	-0.10 [N-3]	-0.15	291.29	17.56
	01/04/2024	308.85	291.45	17.40	-0.03 [N-5]	-0.15	291.27	17.58
	02/15/2024	308.85	291.35	17.50	-0.09 [N-6]	-0.15	291.11	17.74
	03/20/2024	308.85	291.43	17.42	-0.11 [N-2]	-0.15	291.17	17.68
	04/11/2024	308.85	291.45	17.40	-0.09 [N-6]	-0.15	291.21	17.64
	05/16/2024	308.85	291.00	17.85	-0.03 [N-5]	-0.15	290.82	18.03
	05/30/2024	308.85	291.45	17.4	-0.11 [N-2]	-0.15	291.19	17.66
	06/13/2024	308.85	290.97	17.88	[N-7] [a]	-0.15	290.82	18.03
	06/27/2024	308.85	290.91	17.94	-0.10 [N-3]	-0.15	290.66	18.19
	07/11/2024	308.85	290.92	17.93	[N-7] [a]	-0.15	290.77	18.08
	07/25/2024	308.85	291.01	17.84	[N-7] [a]	-0.15	290.86	17.99
	08/15/2024	308.85	290.97	17.88	[N-7] [a]	-0.15	290.82	18.03
	08/29/2024	308.85	290.93	17.92	[N-7] [a]	-0.15	290.78	18.07
	09/12/2024	308.85	290.72	18.13	288404 [b]	-0.15	290.57	18.28
	09/26/2024	308.85	290.82	18.03	-0.14 [N-4]	-0.15	290.53	18.32
	10/17/2024	308.85	290.91	17.94	[N-7] [a]	-0.15	290.66	18.19
	10/30/2024	308.85	290.94	17.91	[N-7] [a]	-0.15	290.77	18.08
	11/14/2024	308.85	290.82	18.03	[N-7] [a]	-0.15	290.82	18.03
	11/26/2024	308.85	290.78	18.07	[N-7] [a]	-0.15	290.86	17.99
	12/12/2024	308.85	290.79	18.06	[N-7] [a]	-0.15	290.57	18.28
	12/26/2024	308.85	290.61	18.24	-0.14 [N-4]	-0.15	290.78	18.07
NMW32	09/13/2023	188.27	170.68	17.59	-0.02 [N-5]	-0.02	170.64	17.63
	10/10/2023	188.27	170.88	17.39	-0.09 [N-3]	-0.02	170.77	17.50
	10/03/2023	188.27	170.79	17.48	-0.02 [N-5]	-0.02	170.75	17.52
	11/10/2023	188.27	170.90	17.37	-0.02 [N-5]	-0.02	170.86	17.41
	12/08/2023	188.27	170.77	17.50	-0.08 [N-6]	-0.02	170.67	17.60
	01/04/2024	188.27	170.66	17.61	-0.02 [N-5]	-0.02	170.62	17.65
	02/15/2024	188.27	170.53	17.74	-0.02 [N-5]	-0.02	170.49	17.78
	03/21/2024	188.27	170.67	17.60	-0.12 [N-4]	-0.02	170.53	17.74
	04/11/2024	188.27	170.64	17.63	-0.02 [N-5]	-0.02	170.60	17.67
	05/16/2024	188.27	170.24	18.03	-0.02 [N-5]	-0.02	170.20	18.07
	05/30/2024	188.27	170.21	18.06	-0.02 [N-5]	-0.02	170.17	18.10
	06/13/2024	188.27	170.20	18.07	-0.12 [N-4]	-0.02	170.06	18.21
	06/27/2024	188.27	170.17	18.1	-0.09 [N-3]	-0.02	170.06	18.21
	07/11/2024	188.27	170.13	18.14	-0.02 [N-5]	-0.02	170.09	18.18
	07/25/2024	188.27	170.19	18.08	-0.02 [N-5]	-0.02	170.15	18.12
	08/16/2024	188.27	170.32	17.95	-0.09 [N-3]	-0.02	170.21	18.06
	08/29/2024	188.27	170.09	18.18	-0.09 [N-3]	-0.02	169.98	18.29
	09/11/2024	188.27	170.17	18.1	288404 [b]	-0.02	170.15	18.12
	09/26/2024	188.27	170.06	18.21	-0.12 [N-4]	-0.02	169.92	18.35
	10/29/2024	188.27	170.11	18.16	-0.09 [N-3]	-0.02	170.00	18.27
	10/17/2024	188.27	170.17	18.1	-0.12 [N-4]	-0.02	170.03	18.24
	11/25/2024	188.27	169.78	18.49	-0.09 [N-3]	-0.02	169.67	18.60
	11/13/2024	188.27	170.03	18.24	-0.12 [N-4]	-0.02	169.89	18.38
	12/11/2024	188.27	169.88	18.39	-0.02 [N-5]	-0.02	169.84	18.43
	12/24/2024	188.27	170.02	18.25	-0.12 [N-4]	-0.02	169.88	18.39
NMW33	10/03/2023	130.76	118.92	11.84	-0.01 [N-5]	-0.08	118.99	11.77
	10/09/2023	130.76	119.00	11.76	-0.07 [N-3]	-0.08	119.01	11.75
	11/10/2023	130.76	117.32	13.44	-0.01 [N-5]	-0.08	117.39	13.37
	12/08/2023	130.76	117.41	13.35	-0.01 [N-5]	-0.08	117.48	13.28
	01/05/2024	130.76	117.57	13.19	-0.01 [N-5]	-0.08	117.64	13.12
	02/15/2024	130.76	117.69	13.07	-0.01 [N-5]	-0.08	117.76	13.00
	03/21/2024	130.76	117.84	12.92	-0.10 [N-4]	-0.08	117.82	12.94
	04/11/2024	130.76	117.80	12.96	-0.01 [N-5]	-0.08	117.87	12.89
	05/16/2024	130.76	117.88	12.88	-0.07 [N-6]	-0.08	117.89	12.87
	05/30/2024	130.76	117.79	12.97	-0.01 [N-5]	-0.08	117.86	12.90
	06/13/2024	130.76	117.74	13.02	-0.10 [N-4]	-0.08	117.72	13.04
	06/25/2024	130.76	117.59	13.17	-0.07 [N-3]	-0.08	117.60	13.16
	07/11/2024	130.76	117.57	13.19	-0.01 [N-5]	-0.08	117.64	13.12
	07/25/2024	130.76	117.58	13.18	-0.01 [N-5]	-0.08	117.65	13.11
	08/16/2024	130.76	117.57	13.19	-0.07 [N-3]	-0.08	117.58	13.18
	08/29/2024	130.76	117.62	13.14	-0.07 [N-3]	-0.08	117.63	13.13
	09/12/2024	130.76	117.67	13.09	252094 [b]	-0.08	117.75	13.01
	09/25/2024	130.76	117.70	13.06	[N-7] [a]	-0.08	117.78	12.98
	10/17/2024	130.76	117.77	12.99	-0.10 [N-4]	-0.08	117.75	13.01
	10/29/2024	130.76	117.67	13.09	-0.07 [N-3]	-0.08	117.68	13.08
	11/13/2024	130.76	117.87	12.89	-0.10 [N-4]	-0.08	117.85	12.91
	11/25/2024	130.76	117.85	12.91	-0.07 [N-3]	-0.08	117.86	12.90
	12/11/2024	130.76	117.85	12.91	-0.01 [N-5]	-0.08	117.92	12.84
	12/30/2024	130.76	117.79	12.97	[N-7] [a]	-0.08	117.87	12.89
NMW34	03/19/2024	81.63	65.10	16.53	0.0 [N-5]	—	65.10	16.53
	04/10/2024	81.63	66.22	15.41	-0.07 [N-4]	—	66.15	15.48
	05/14/2024	81.63	65.08	16.55	-0.05 [N-6]	—	65.03	16.60
	05/28/2024	81.63	64.80	16.83	-0.04 [N-2]	—	64.76	16.87
	06/11/2024	81.63	64.85	16.78	0.0 [N-5]	—	64.85	16.78
	06/25/2024	81.63	64.88	16.75	-0.04 [N-3]	—	64.84	16.79
	07/09/2024	81.63	64.87	16.76	-0.04 [N-3]	—	64.83	16.80
	07/23/2024	81.63	64.88	16.75	0.0 [N-5]	—	64.88	16.75
	08/13/2024	81.63	64.87	16.76	-0.04 [N-3]	—	64.83	16.80
	08/27/2024	81.63	64.88	16.75	-0.07 [N-4]	—	64.81	16.82
	09/12/2024	81.63	64.76	16.87	252094 [b]	—	64.76	16.87
	09/23/2024	81.63	64.73	16.90	[N-7] [a]	—	64.73	16.90
	10/29/2024	81.63	64.73	16.90	-0.04 [N-3]	—	64.69	16.94
	10/17/2024	81.63	64.76	16.87	-0.07 [N-4]	—	64.69	16.94
	11/25/2024	81.63	64.61	17.02	0.0 [N-5]	—	64.61	17.02
	11/15/2024	81.63	64.63	17.00	0.0 [N-5]	—	64.63	17.00
	12/13/2024	81.63	64.63	17.00	-0.04 [N-3]	—	64.59	17.04
	12/24/2024	81.63	64.63	17.00	0.0 [N-5]	—	64.63	17.00

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
OWDFMW03A	05/15/2024	118.64	100.69	17.95	-0.06 [N-6]	-0.07	100.56	18.08
	05/31/2024	118.64	100.56	18.08	0.00 [N-5]	-0.07	100.49	18.15
	06/14/2024	118.64	100.50	18.14	-0.06 [N-3]	-0.07	100.37	18.27
	06/26/2024	118.64	100.70	17.94	-0.06 [N-3]	-0.07	100.57	18.07
	07/10/2024	118.64	100.63	18.01	-0.09 [N-4]	-0.07	100.47	18.17
	07/24/2024	118.64	100.72	17.92	0.00 [N-5]	-0.07	100.65	17.99
	08/28/2024	118.64	100.66	17.98	-0.06 [N-3]	-0.07	100.53	18.11
	09/09/2024	118.64	100.35	18.29	-0.06 [N-3]	-0.07	100.22	18.42
	09/24/2024	118.64	100.50	18.14	-0.09 [N-4]	-0.07	100.34	18.30
	10/16/2024	118.64	100.52	18.12	-0.09 [N-4]	-0.07	100.36	18.28
	10/31/2024	118.64	100.32	18.32	-0.06 [N-3]	-0.07	100.19	18.45
	11/13/2024	118.64	100.37	18.27	-0.06 [N-3]	-0.07	100.24	18.40
	11/25/2024	118.64	100.18	18.46	0.00 [N-5]	-0.07	100.11	18.53
	12/11/2024	118.64	100.18	18.46	-0.06 [N-3]	-0.07	100.05	18.59
	12/30/2024	118.64	100.18	18.46	-0.06 [N-3]	-0.07	100.05	18.59
OWDFMW08A	05/15/2024	133.73	115.80	17.93	-0.07 [N-6]	-0.08	115.65	18.08
	05/31/2024	133.73	115.71	18.02	-0.01 [N-5]	-0.08	115.62	18.11
	06/12/2024	133.73	115.78	17.95	-0.11 [N-4]	-0.08	115.59	18.14
	06/26/2024	133.73	115.79	17.94	-0.07 [N-3]	-0.08	115.64	18.09
	07/10/2024	133.73	115.72	18.01	-0.11 [N-4]	-0.08	115.53	18.20
	07/24/2024	133.73	115.79	17.94	-0.01 [N-5]	-0.08	115.70	18.03
	08/28/2024	133.73	115.75	17.98	-0.07 [N-3]	-0.08	115.60	18.13
	09/11/2024	133.73	115.64	18.09	252094 [b]	-0.08	115.56	18.17
	09/24/2024	133.73	115.58	18.15	[N-7] [a]	-0.08	115.50	18.23
	10/31/2024	133.73	115.42	18.31	-0.07 [N-3]	-0.08	115.27	18.46
	10/16/2024	133.73	115.65	18.08	-0.11 [N-4]	-0.08	115.46	18.27
	11/25/2024	133.73	115.30	18.43	-0.01 [N-5]	-0.08	115.21	18.52
	11/13/2024	133.73	115.50	18.23	-0.07 [N-3]	-0.08	115.35	18.38
	12/11/2024	133.73	115.28	18.45	-0.07 [N-3]	-0.08	115.13	18.60
	12/30/2024	133.73	115.30	18.43	-0.07 [N-3]	-0.08	115.15	18.58
RHMW01R	06/15/2023	[redacted]						
	09/05/2023							
	10/04/2023							
	10/12/2023							
	10/17/2023							
	10/24/2023							
	11/07/2023							
	10/31/2023							
	11/06/2023							
	11/07/2023							
	11/13/2023							
	11/24/2023							
	12/01/2023							
	12/08/2023							
	12/15/2023							
	12/19/2023							
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	01/05/2024							
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	01/19/2024							
	02/16/2024							
	03/13/2024							
	04/04/2024							
	05/09/2024							
	05/23/2024							
	06/03/2024							
	06/17/2024							
	07/01/2024							
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	09/03/2024							
	09/16/2024							
	10/21/2024							
	11/04/2024							
	11/18/2024							
	12/02/2024							
	12/16/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW02	06/15/2023	(b) (3) (A)						
	09/07/2023							
	10/06/2023							
	10/09/2023							
	10/20/2023							
	10/27/2023							
	11/03/2023							
	11/07/2023							
	11/17/2023							
	11/21/2023							
	12/01/2023							
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	12/26/2023							
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	01/19/2024							
	02/13/2024							
	03/15/2024							
	04/04/2024							
	05/09/2024							
	05/23/2024							
	06/03/2024							
	06/17/2024							
	07/01/2024							
	07/15/2024							
	08/05/2024							
	08/22/2024							
	09/03/2024							
	09/26/2024							
	10/07/2024							
	10/21/2024							
	11/04/2024							
	11/18/2024							
	12/02/2024							
	12/16/2024							
RHMW03	06/14/2023							
	09/07/2023							
	10/06/2023							
	10/09/2023							
	10/20/2023							
	10/27/2023							
	11/03/2023							
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	11/28/2023							
	12/08/2023							
	12/12/2023							
	12/26/2023							
	01/02/2024							
	01/09/2024							
	01/16/2024							
	02/06/2024							
	03/13/2024							
	04/04/2024							
	05/07/2024							
	05/23/2024							
	06/04/2024							
	06/19/2024							
	07/02/2024							
	07/16/2024							
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	09/26/2024							
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	10/22/2024							
	11/05/2024							
	11/19/2024							
	12/06/2024							
	12/17/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW04	06/14/2023	(b) (3) (A)						
	09/08/2023							
	10/06/2023							
	10/13/2023							
	11/07/2023							
	11/13/2023							
	11/20/2023							
	12/05/2023							
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	12/18/2023							
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	10/29/2024							
	11/11/2024							
	11/26/2024							
	12/10/2024							
	12/24/2024							
RHMW05	06/15/2023							
	09/05/2023							
	10/04/2023							
	10/10/2023							
	10/17/2023							
	10/24/2023							
	10/31/2023							
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	11/14/2023							
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	11/28/2023							
	12/05/2023							
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	12/29/2023							
	01/02/2024							
	01/09/2024							
	01/16/2024							
	02/16/2024							
	03/12/2024							
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	06/18/2024							
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	07/17/2024							
	08/07/2024							
	08/21/2024							
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	09/18/2024							
	10/23/2024							
	11/06/2024							
	11/20/2024							
	12/04/2024							
	12/18/2024							
RHMW06	06/14/2023							
	09/08/2023							
	10/06/2023							
	10/13/2023							
	10/23/2023							
	10/30/2023							
	11/07/2023							
	11/13/2023							
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	11/27/2023							
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	03/11/2024							
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	06/06/2024							
	06/20/2024							
	07/01/2024							
	07/18/2024							
	08/08/2024							
	08/22/2024							
	09/19/2024							
	10/10/2024							
	10/24/2024							
	11/07/2024							
	11/21/2024							
	12/05/2024							
	12/19/2024							
RHMW08	09/06/2023							
	10/04/2023							
	10/11/2023							
	10/18/2023							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	10/25/2023	(b) (3) (A)						
	11/01/2023							
	11/10/2023							
	11/14/2023							
	11/20/2023							
	11/28/2023							
	12/04/2023							
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	12/26/2023							
	01/03/2024							
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	03/11/2024							
	04/01/2024							
	05/06/2024							
	05/20/2024							
	06/03/2024							
	06/17/2024							
	07/01/2024							
	07/15/2024							
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	09/03/2024							
	09/16/2024							
	10/01/2024							
	10/21/2024							
	11/04/2024							
	11/18/2024							
	12/02/2024							
	12/16/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW09	06/13/2023	(b) (3) (A)						
	09/05/2023							
	10/05/2023							
	10/12/2023							
	10/24/2023							
	10/30/2023							
	11/06/2023							
	11/14/2023							
	11/20/2023							
	11/27/2023							
	12/04/2023							
	12/12/2023							
	12/19/2023							
	12/27/2023							
	01/04/2024							
	01/09/2024							
	01/16/2024							
	02/07/2024							
	03/12/2024							
	04/02/2024							
	05/07/2024							
	05/21/2024							
	06/04/2024							
	06/18/2024							
	07/02/2024							
	07/16/2024							
	08/09/2024							
	08/23/2024							
	09/09/2024							
	09/20/2024							
	10/01/2024							
	10/25/2024							
	11/08/2024							
	11/22/2024							
	12/06/2024							
	12/20/2024							
RHMW10	06/14/2023							
	09/05/2023							
	10/05/2023							
	10/10/2023							
	10/26/2023							
	10/31/2023							
	11/10/2023							
	11/13/2023							
	11/21/2023							
	11/29/2023							
	12/05/2023							
	12/13/2023							
	12/20/2023							
	01/02/2024							
	01/10/2024							
	01/17/2024							
	02/07/2024							
	03/15/2024							
	04/05/2024							
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	05/24/2024							
	06/07/2024							
	06/21/2024							
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	07/19/2024							
	08/09/2024							
	08/23/2024							
	09/06/2024							
	10/11/2024							
	10/25/2024							
	11/08/2024							
	11/21/2024							
	12/03/2024							
	12/19/2024							
RHMW11-05	10/02/2023							
	10/09/2023							
	10/24/2023							
	10/30/2023							
	11/06/2023							
	11/15/2023							
	11/22/2023							
	11/27/2023							
	12/04/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/04/2024							
	01/10/2024							
	01/17/2024							
	02/07/2024							
	03/13/2024							
	04/03/2024							
	05/08/2024							
	05/22/2024							
	06/05/2024							
	06/19/2024							
	07/03/2024							
	07/17/2024							
	08/07/2024							
	08/29/2024							
	09/04/2024							
	09/18/2024							
	10/08/2024							
	10/23/2024							
	11/06/2024							
	11/20/2024							
	12/04/2024							
	12/18/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW12A	09/07/2023	(b) (3) (A)						
	10/03/2024							
	10/12/2023							
	11/09/2023							
	12/07/2023							
	01/05/2024							
	02/12/2024							
	03/18/2024							
	04/08/2024							
	05/14/2024							
	05/29/2024							
	06/11/2024							
	06/25/2024							
	07/12/2024							
	07/26/2024							
	08/15/2024							
	08/30/2024							
	09/13/2024							
	09/27/2024							
	10/18/2024							
	10/31/2024							
	11/15/2024							
	11/26/2024							
	12/13/2024							
	12/27/2024							
RHMW13-04	09/05/2023							
	10/05/2023							
	10/10/2023							
	10/13/2023							
	10/25/2023							
	10/31/2023							
	11/09/2023							
	11/14/2023							
	11/20/2023							
	11/28/2023							
	12/07/2023							
	12/12/2023							
	12/19/2023							
	12/27/2023							
	01/03/2024							
	01/09/2024							
	01/16/2024							
	02/16/2024							
	03/18/2024							
	04/08/2024							
	05/13/2024							
	05/29/2024							
	06/10/2024							
	06/24/2024							
	07/08/2024							
	07/22/2024							
	08/12/2024							
	08/26/2024							
	09/10/2024							
	09/23/2024							
	10/14/2024							
	10/28/2024							
	11/12/2024							
	11/22/2024							
	12/09/2024							
	12/20/2024							
RHMW13-05	09/05/2023							
	10/05/2023							
	10/10/2023							
	10/13/2023							
	10/25/2023							
	10/31/2023							
	11/09/2023							
RHWM14-03	10/02/2023							
	10/09/2023							
	10/24/2023							
	10/30/2023							
	11/06/2023							
	11/15/2023							
	11/22/2023							
	11/27/2023							
	12/04/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/04/2024							
	01/10/2024							
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	04/03/2024							
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	06/05/2024							
	06/19/2024							
	07/03/2024							
	07/17/2024							
	08/07/2024							
	08/19/2024							
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	09/18/2024							
	10/08/2024							
	10/23/2024							
	11/06/2024							
	11/20/2024							
	12/04/2024							
	12/18/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW15-05	09/07/2023	(b) (3) (A)						
	10/04/2023							
	10/11/2023							
	10/23/2023							
	11/01/2023							
	11/08/2023							
	11/13/2023							
	11/21/2023							
	11/29/2023							
	12/06/2023							
	12/11/2023							
	12/18/2023							
	12/29/2023							
	01/05/2024							
	01/08/2024							
	01/15/2024							
	02/05/2024							
	03/11/2024							
	04/01/2024							
	05/06/2024							
	05/20/2024							
	06/03/2024							
	06/17/2024							
	07/01/2024							
	07/15/2024							
	08/05/2024							
	08/21/2024							
	09/05/2024							
	09/16/2024							
	10/07/2024							
	10/21/2024							
	11/05/2024							
	11/18/2024							
	12/02/2024							
	12/16/2024							
RHMW16	09/07/2023							
	10/05/2023							
	10/12/2023							
	10/26/2023							
	10/31/2023							
	11/06/2023							
	11/13/2023							
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	11/28/2023							
	12/04/2023							
	12/11/2023							
	12/18/2023							
	12/26/2023							
	01/03/2024							
	01/08/2024							
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	02/05/2024							
	03/11/2024							
	04/01/2024							
	05/06/2024							
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	07/02/2024							
	07/18/2024							
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	08/20/2024							
	09/03/2024							
	09/19/2024							
	10/10/2024							
	10/24/2024							
	11/07/2024							
	11/20/2024							
	12/05/2024							
	12/17/2024							
RHMW17	06/15/2023							
	09/08/2023							
	10/04/2023							
	10/11/2023							
	10/25/2023							
	11/02/2023							
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	11/22/2023							
	11/28/2023							
	12/06/2023							
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	12/27/2023							
	01/03/2024							
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	01/16/2024							
	02/09/2024							
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	08/26/2024							
	09/23/2024							
	10/14/2024							
	10/28/2024							
	11/12/2024							
	11/22/2024							
	12/09/2024							
	12/20/2024							
RHMW18	04/11/2024							
	05/17/2024							
	05/30/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
	06/13/2024	[redacted]						
	06/27/2024							
	07/11/2024							
	07/25/2024							
	08/15/2024							
	08/29/2024							
	09/13/2024							
	09/25/2024							
	10/30/2024							
	10/17/2024							
	11/26/2024							
	11/14/2024							
	12/26/2024							
	12/12/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW19	06/13/2023	(b) (3) (A)						
	09/05/2023							
	10/12/2023							
	10/05/2023							
	10/24/2023							
	10/30/2023							
	11/06/2023							
	11/14/2023							
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	11/27/2023							
	12/04/2023							
	12/12/2023							
	12/19/2023							
	12/27/2023							
	01/04/2024							
	01/09/2024							
	01/16/2024							
	02/07/2024							
	03/12/2024							
	04/02/2024							
	05/07/2024							
	05/21/2024							
	06/04/2024							
	06/18/2024							
	07/02/2024							
	07/16/2024							
	08/09/2024							
	08/23/2024							
	09/06/2024							
	10/11/2024							
	10/25/2024							
	11/08/2024							
	11/22/2024							
	12/06/2024							
	12/20/2024							
RHMW20	06/14/2023							
	09/06/2023							
	10/05/2023							
	10/10/2023							
	10/23/2023							
	11/02/2023							
	11/09/2023							
	11/14/2023							
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	05/16/2024							
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	08/28/2024							
	09/24/2024							
	10/16/2024							
	10/31/2024							
	11/13/2024							
	11/26/2024							
	12/11/2024							
	12/27/2024							
RHMW21	7/22/2024							
	8/5/2024							
	8/22/2024							
	9/4/2024							
	9/16/2024							
	10/7/2024							
	10/21/2024							
	11/04/2024							
	11/18/2024							
	12/02/2024							
	12/16/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHMW2254-01	09/06/2023	(b) (3) (A)						
	10/05/2023							
	10/12/2023							
	10/17/2023							
	10/24/2023							
	10/31/2023							
	11/07/2023							
	11/14/2023							
	11/21/2023							
	11/28/2023							
	12/05/2023							
	12/12/2023							
	12/19/2023							
	12/26/2023							
	01/02/2024							
	01/09/2024							
	01/16/2024							
	02/13/2024							
	03/15/2024							
	04/02/2024							
	05/07/2024							
	05/24/2024							
	06/04/2024							
	06/19/2024							
	07/02/2024							
	07/16/2024							
	08/06/2024							
	08/20/2024							
	09/04/2024							
	09/17/2024							
	10/08/2024							
	10/22/2024							
	11/19/2024							
	11/05/2024							
	12/26/2024							
	12/06/2024							
RHP01	09/06/2023							
	10/04/2023							
	10/09/2023							
	10/25/2023							
	11/01/2023							
	11/06/2023							
	11/13/2023							
	11/20/2023							
	12/04/2023							
	12/11/2023							
	12/18/2023							
	12/26/2023							
	01/02/2024							
	01/08/2024							
	01/15/2024							
	02/08/2024							
	03/11/2024							
	04/01/2024							
	05/06/2024							
	05/20/2024							
	06/06/2024							
	06/20/2024							
	07/01/2024							
	07/18/2024							
	08/08/2024							
	08/20/2024							
	09/05/2024							
	09/19/2024							
	10/03/2024							
	10/24/2024							
	11/07/2024							
	11/21/2024							
	12/05/2024							
	12/19/2024							
RHP02	09/06/2023							
	10/06/2023							
	10/13/2023							
	11/08/2023							
	11/14/2023							
	11/22/2023							
	11/27/2023							
	12/06/2023							
	12/11/2023							
	12/18/2023							
	12/26/2023							
	01/02/2024							
	01/08/2024							
	01/15/2024							
	02/08/2024							
	03/14/2024							
	04/04/2024							
	05/09/2024							
	05/23/2024							
	06/06/2024							
	06/20/2024							
	07/02/2024							
	07/18/2024							
	08/08/2024							
	08/20/2024							
	09/06/2024							
	09/19/2024							
	10/03/2024							
	10/24/2024							
	11/07/2024							
	11/21/2024							
	12/05/2024							
	12/19/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHP03	09/08/2023	[redacted]						
	10/06/2023							
	10/13/2023							
	10/26/2023							
	11/02/2023							
	11/08/2023							
	11/14/2023							
	11/22/2023							
	11/27/2023							
	12/06/2023							
	12/11/2023							
	01/02/2024							
	01/08/2024							
	01/15/2024							
	02/08/2024							
	03/14/2024							
	04/04/2024							
	05/09/2024							
	05/23/2024							
	06/06/2024							
	06/20/2024							
	07/03/2024							
	07/18/2024							
	08/22/2024							
	09/09/2024							
	09/19/2024							
	10/09/2024							
	10/24/2024							
	11/07/2024							
	11/21/2024							
	12/05/2024							
	12/19/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHP04A	06/14/2023	(b) (3) (A)						
	09/11/2023							
	10/06/2023							
	10/12/2023							
	11/07/2023							
	11/15/2023							
	11/22/2023							
	11/28/2023							
	12/05/2023							
	12/12/2023							
	12/19/2023							
	12/27/2023							
	01/03/2024							
	01/09/2024							
	01/16/2024							
	02/09/2024							
	03/14/2024							
	04/04/2024							
	05/09/2024							
	05/23/2024							
	06/06/2024							
	06/20/2024							
	07/03/2024							
	07/18/2024							
	08/22/2024							
	09/09/2024							
	09/17/2024							
	10/09/2024							
	10/24/2024							
	11/07/2024							
	11/21/2024							
	12/05/2024							
	12/19/2024							
RHP04B	06/14/2023							
	09/11/2023							
	10/06/2023							
	10/12/2023							
	10/23/2023							
	11/03/2023							
	11/07/2023							
	11/15/2023							
	11/22/2023							
	11/28/2023							
	12/05/2023							
	12/12/2023							
	12/19/2023							
	12/27/2023							
	01/03/2024							
	01/09/2024							
	01/16/2024							
	02/14/2024							
	03/19/2024							
	04/09/2024							
	05/14/2024							
	05/28/2024							
	06/11/2024							
	06/25/2024							
	07/09/2024							
	07/23/2024							
	08/13/2024							
	08/27/2024							
	09/11/2024							
	09/24/2024							
	10/15/2024							
	10/29/2024							
	11/11/2024							
	11/26/2024							
	12/10/2024							
	12/26/2024							
RHP04C	09/08/2023							
	10/06/2023							
	10/13/2023							
	10/25/2023							
	11/01/2023							
	11/06/2023							
	11/15/2023							
	11/20/2023							
	11/29/2023							
	12/04/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/05/2024							
	01/10/2024							
	01/17/2024							
	02/14/2024							
	03/19/2024							
	04/09/2024							
	05/14/2024							
	05/28/2024							
	06/11/2024							
	06/25/2024							
	07/09/2024							
	07/23/2024							
	08/13/2024							
	08/27/2024							
	09/11/2024							
	09/24/2024							
	10/15/2024							
	10/29/2024							
	11/11/2024							
	11/26/2024							
	12/10/2024							
	12/26/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHP05	09/08/2023	(b) (3) (A)						
	10/02/2023							
	10/13/2023							
	10/26/2023							
	11/02/2023							
	11/08/2023							
	11/15/2023							
	11/22/2023							
	11/29/2023							
	12/06/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/03/2024							
	01/10/2024							
	01/17/2024							
	02/08/2024							
	03/14/2024							
	04/05/2024							
	05/10/2024							
	05/24/2024							
	06/07/2024							
	06/21/2024							
	07/03/2024							
	07/19/2024							
	08/09/2024							
	08/23/2024							
	09/09/2024							
	09/17/2024							
	10/10/2024							
	10/25/2024							
	11/08/2024							
	11/19/2024							
	12/03/2024							
	12/17/2024							
RHP06	09/07/2023							
	10/02/2023							
	10/11/2023							
	10/27/2023							
	11/02/2023							
	11/08/2023							
	11/15/2023							
	11/22/2023							
	11/29/2023							
	12/06/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/02/2024							
	01/08/2024							
	01/17/2024							
	02/08/2024							
	03/14/2024							
	04/05/2024							
	05/10/2024							
	05/21/2024							
	06/07/2024							
	06/21/2024							
	07/05/2024							
	07/19/2024							
	08/06/2024							
	08/19/2024							
	09/06/2024							
	09/20/2024							
	10/10/2024							
	10/22/2024							
	11/04/2024							
	11/19/2024							
	12/03/2024							
	12/17/2024							
RHP07	06/15/2023							
	09/06/2023							
	10/05/2023							
	10/10/2023							
	10/17/2023							
	10/24/2023							
	10/31/2023							
	11/10/2023							
	11/14/2023							
	11/21/2023							
	11/28/2023							
	12/05/2023							
	12/12/2023							
	12/22/2023							
	12/29/2023							
	01/02/2024							
	01/09/2024							
	01/16/2024							
	02/06/2024							
	03/12/2024							
	04/02/2024							
	05/08/2024							
	05/22/2024							
	06/18/2024							
	06/05/2024							
	07/03/2024							
	07/17/2024							
	08/07/2024							
	08/21/2024							
	09/05/2024							
	09/18/2024							
	10/23/2024							
	11/20/2024							
	11/06/2024							
	12/04/2024							
	12/18/2024							

Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

Location	Measurement Date	Measuring Point Elevation*	Depth to Water from TOC (Feet BMP)	Groundwater Elevation*	Measuring Tape Correction Factor [Tape ID] (ft)	Well Displacement Correction Factor (ft)	Corrected Depth to Water (ft btoc)	Groundwater Elevation (ft msl)
RHP08	09/11/2023	(b) (3) (A)						
	10/03/2023							
	10/11/2023							
	10/27/2023							
	11/02/2023							
	11/06/2023							
	11/13/2023							
	11/21/2023							
	11/29/2023							
	12/05/2023							
	12/13/2023							
	12/20/2023							
	12/28/2023							
	01/02/2024							
	01/10/2024							
	01/15/2024							
	02/07/2024							
	03/18/2024							
	04/05/2024							
	05/10/2024							
	05/21/2024							
	06/07/2024							
	06/21/2024							
	07/05/2024							
	07/19/2024							
	08/06/2024							
	08/19/2024							
	09/09/2024							
	9/17/2024							
	10/03/2024							
	10/22/2024							
	11/04/2024							
	11/19/2024							
	12/03/2024							
	12/17/2024							
RHP08B	9/27/2024							
RHP08C	8/14/2024							
	8/27/2024							
	9/13/2024							
	9/27/2024							
	10/16/2024							
	10/30/2024							
	11/14/2024							
	11/24/2024							
	12/12/2024							
	12/27/2024							

* All Elevations are reported in feet relative to NAVD88 vertical datum.

[a] Water Level meter is not yet calibrated, therfore, no correction factor is available at this time. Correction factor will be included and updated after calibration.

[b] Oil Water Interface Probe is a rental and does not have a acorrection factor at this time.
If NAPL is present, the Groundwater Elevation needs to be corrected for NAPL d

MPE = Measuring Point Elevation

BMP = below measuring point

BGS = below ground surface

NC = not collected

Appendix B.3 – Summary of Groundwater Analytical Results

Appendix B.3.1 – Groundwater Analytical Results

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program

Groundwater Sampling: Data Legend

Non-bold text indicates non-detected value
Bold text indicates detected value, but below the Environmental Action Level (EAL).
Bold and orange shaded text indicates exceeds the 2024 Department of Health Tier 1 EAL.
Green text indicates results have completed third-party validation.
Specific EPA method revision used for analyses vary by lab and compound. The lab report associated with a sample specifies the exact method revision used.
— = not analyzed or not applicable
µg/L = microgram per liter (same as parts per billion)
B = Analyte detected in associated method blank
CAS = Chemical Abstracts Service
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
J = estimated value
J- = estimated value, low bias
J+ = estimated value, high bias
no. = number
U = nondetect value
ORO = Oil Range Organics
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria.
TPH = Total Petroleum Hydrocarbons reported as a non-overlapping sum of GRO/DRO/ORO with BTEX,1MN, 2MN, N subtracted.
R = Exclusion of data recommended. The sample result was affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria.
H = Sample was prepped or analyzed beyond the specified holding time

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW24

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	(b) (4)	FC18439	NMW24-WGN01LF-2408B	8/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW24		FC18439	NMW24-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW24		24I0217	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144160-1	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1245554	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19169	NMW24-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW24		FC19169	NMW24-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW24		24J0158	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246066	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19577	NMW24-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW24		FC19577	NMW24-WGN01LF-2410A	10/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW24		24K0003	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		B24110059	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246341	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24K0071	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246509	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC20354	NMW24-WGN01LF-2411A	11/11/2024	Primary	<50	U	<110	U	<180	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW24		FC20354	NMW24-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW24		24K0184	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246682	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC20776	NMW24-WGN01LF-2411B	11/22/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
NMW24		FC20776	NMW24-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW24		24L0078	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246868	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: NMW24

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	(b) (4)	FC18439	NMW24-WGN01LF-2408B	8/28/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW24		FC18439	NMW24-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24I0217	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144160-1	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1245554	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19169	NMW24-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19169	NMW24-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
NMW24		24J0158	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246066	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19577	NMW24-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19577	NMW24-WGN01LF-2410A	10/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
NMW24		24K0003	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		B24110059	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246341	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24K0071	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246509	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC20354	NMW24-WGN01LF-2411A	11/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW24		FC20354	NMW24-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24K0184	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246682	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC20776	NMW24-WGN01LF-2411B	11/22/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
NMW24		FC20776	NMW24-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24L0078	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1246868	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW24

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		140000		ND		140000		99000		ND		1300		1200		29000	
					Maximum	ND		ND		ND		ND		ND		ND		1580		150000		ND		150000		110000		ND		1500		1700		31000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW24	(b) (4)	FC18439	NMW24-WGN01LF-2408B	8/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW24		FC18439	NMW24-WGN01B-2408B	8/28/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW24		24I0217	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		580-144160-1	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		110000		–		1400		1700	J	30000	
NMW24		1245554	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW24		FC19169	NMW24-WGN01B-2409B	9/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19169	NMW24-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW24		24J0158	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1400		–	
NMW24		580-144860-1	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		99000		–		1400		–		29000	
NMW24		1246066	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW24		FC19577	NMW24-WGN01B-2410A	10/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC19577	NMW24-WGN01LF-2410A	10/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW24		24K0003	NMW24-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		B24110059	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1500	J-	–	
NMW24		580-145397-1	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		110000		–		1500		–		31000	
NMW24		1246341	NMW24-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW24		24K0071	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1200		–	
NMW24		580-145726-1	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		110000		–		1400		–		31000	
NMW24		1246509	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		<750	U	1580	J+	–		–		–		–		–		–		–		–	
NMW24		FC20354	NMW24-WGN01LF-2411A	11/11/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW24		FC20354	NMW24-WGN01B-2411A	11/11/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW24		24K0184	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1500		–	
NMW24		580-146101-1	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		110000		–		1300	J-	–		31000	
NMW24		1246682	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		<750	U	1330	J+	–		–		–		–		–		–		–		–	
NMW24		FC20776	NMW24-WGN01LF-2411B	11/22/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW24		FC20776	NMW24-WGN01B-2411B	11/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW24		24L0078	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1400		–	
NMW24		580-146471-1	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		110000		–		1500		–		31000	
NMW24		1246868	NMW24-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: NMW25

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		89.2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		182		125		160		100		307		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW25	(b) (4)	FC18439	NMW25-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		FC18439	NMW25-WGN01LF-2408B	8/28/2024	Primary	<50	U	121	J	<170	U	89.2	J	<170	U	121		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW25		24I0217	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144160-1	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1245554	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19169	NMW25-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		FC19169	NMW25-WGN01LF-2409B	9/24/2024	Primary	<50	U	182	J	125	J	160	J	100	J	307		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW25		24J0158	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144860-1	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144860-1	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246066	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19577	NMW25-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		FC19577	NMW25-WGN01LF-2410A	10/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW25		24K0003	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		B24102634	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW25		580-145334-1	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145334-1	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246315	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		24K0071	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145726-1	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145726-1	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246509	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20354	NMW25-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		FC20354	NMW25-WGN01LF-2411A	11/11/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW25		24K0219	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146154-1	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146154-1	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246712	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20885	NMW25-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW25		FC20885	NMW25-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		24L0044	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146396-1	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146396-1	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC21060	NMW25-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW25		FC21060	NMW25-WGN01LF-2412A	12/6/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW25

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW25	(b) (4)	FC18439	NMW25-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC18439	NMW25-WGN01LF-2408B	8/28/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW25		24I0217	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144160-1	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1245554	NMW25-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19169	NMW25-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19169	NMW25-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
NMW25		24J0158	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144860-1	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-144860-1	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246066	NMW25-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19577	NMW25-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19577	NMW25-WGN01LF-2410A	10/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
NMW25		24K0003	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		B24102634	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145334-1	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145334-1	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246315	NMW25-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		24K0071	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145726-1	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145726-1	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246509	NMW25-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20354	NMW25-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20354	NMW25-WGN01LF-2411A	11/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW25		24K0219	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146154-1	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146154-1	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		1246712	NMW25-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20885	NMW25-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW25		FC20885	NMW25-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		24L0044	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146396-1	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-146396-1	NMW25-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC21060	NMW25-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC21060	NMW25-WGN01LF-2412A	12/6/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW25

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		860		180000		ND		180000		220000		ND		4900		2600		94000	
					Maximum	ND		ND		ND		ND		0.2		2940		3660		280000		ND		280000		230000		ND		6000		6700		150000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW25	(b) (4)	FC18439	NMW25-WGN01B-2408B	8/28/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC18439	NMW25-WGN01F-2408B	8/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW25		24I0217	NMW25-WGN01F-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		580-144160-1	NMW25-WGN01F-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		270000		<7000	U	270000		230000		–		5300		4500	J	95000	
NMW25		1245554	NMW25-WGN01F-2409B	9/24/2024	Primary	–		–		–		–		–		2940		3660		–		–		–		–		–		–		–		–	
NMW25		FC19169	NMW25-WGN01B-2409B	9/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19169	NMW25-WGN01F-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.2	J	–		–		–		–		–		–		–		–		–		–	
NMW25		24J0158	NMW25-WGN01F-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		580-144860-1	NMW25-WGN01F-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		6100		–	
NMW25		580-144860-1	NMW25-WGN01F-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		220000		–		6000		–		94000	
NMW25		1246066	NMW25-WGN01F-2410A	10/15/2024	Primary	–		–		–		–		–		816	J+	987	J+	–		–		–		–		–		–		–		–	
NMW25		FC19577	NMW25-WGN01B-2410A	10/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC19577	NMW25-WGN01F-2410A	10/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW25		24K0003	NMW25-WGN01F-2410B	10/30/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		B24102634	NMW25-WGN01F-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW25		580-145334-1	NMW25-WGN01F-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		5700		–	
NMW25		580-145334-1	NMW25-WGN01F-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		220000		–		5600		–		94000	
NMW25		1246315	NMW25-WGN01F-2410B	10/30/2024	Primary	–		–		–		–		–		801	J+	1190	J+	–		–		–		–		–		–		–		–	
NMW25		24K0071	NMW25-WGN01F-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		580-145726-1	NMW25-WGN01F-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2600		–	
NMW25		580-145726-1	NMW25-WGN01F-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		230000		–		4900		–		97000	
NMW25		1246509	NMW25-WGN01F-2411A	11/11/2024	Primary	–		–		–		–		–		819	J+	1480	J+	–		–		–		–		–		–		–		–	
NMW25		FC20354	NMW25-WGN01B-2411A	11/11/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC20354	NMW25-WGN01F-2411A	11/11/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW25		24K0219	NMW25-WGN01F-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		580-146154-1	NMW25-WGN01F-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		6500		–	
NMW25		580-146154-1	NMW25-WGN01F-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		280000		<7000	U	280000		230000		–		4900		–		96000	
NMW25		1246712	NMW25-WGN01F-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	860	J+	–		–		–		–		–		–		–		–	
NMW25		FC20885	NMW25-WGN01F-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW25		FC20885	NMW25-WGN01B-2411B	11/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		24L0044	NMW25-WGN01F-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW25		580-146396-1	NMW25-WGN01F-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		6700		–	
NMW25		580-146396-1	NMW25-WGN01F-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		180000		<7000	U	180000		230000		–		5700		–		150000	
NMW25		FC21060	NMW25-WGN01B-2412A	12/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW25		FC21060	NMW25-WGN01F-2412A	12/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		88.3		ND		ND		88		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW26	(b) (4)	FC18346	NMW26-WGN01B-2408B	8/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		FC18346	NMW26-WGN01LF-2408B	8/26/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
NMW26		1245258_Rev1	NMW26-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		2410217	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-144156-1	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		1245512	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC19039	NMW26-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		FC19039	NMW26-WGN01LF-2409B	9/23/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW26		24J0136	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-144834-1	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-144834-1	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		1246046	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC19552	NMW26-WGN01B-2410A	10/14/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		FC19552	NMW26-WGN01LF-2410A	10/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW26		24J0307	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		B24102429	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		<143	U	<190	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
NMW26		580-145231-1	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-145231-1	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		1246277	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC19960	NMW26-WGN01LF-2410B	10/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
NMW26		FC19960	NMW26-WGN01B-2410B	10/28/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		24K0086	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-145767-1	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-145767-1	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		1246530	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC20403	NMW26-WGN01B-2411A	11/12/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		FC20403	NMW26-WGN01LF-2411A	11/12/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW26		24K0202	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-146131-1	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-146131-1	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		1246691	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC20861	NMW26-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW26		FC20861	NMW26-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW26		24L0055	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-146438-1	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-146438-1	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC21099	NMW26-WGN01LF-2412A	12/9/2024	Primary	<50	U	<100	U	88.3	J	<100	U	<170	U	88		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW26		FC21099	NMW26-WGN01B-2412A	12/9/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
NMW26	(b) (4)	FC18346	NMW26-WGN01B-2408B	8/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC18346	NMW26-WGN01F-2408B	8/26/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.04	U	<0.4	U	<0.4	U	<0.042	UJ	<0.4	U	<0.4	U
NMW26		1245258_Rev1	NMW26-WGN01F-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		2402217	NMW26-WGN01F-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-144156-1	NMW26-WGN01F-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		1245512	NMW26-WGN01F-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC19039	NMW26-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC19039	NMW26-WGN01F-2409B	9/23/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
NMW26		24J0136	NMW26-WGN01F-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-144834-1	NMW26-WGN01F-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-144834-1	NMW26-WGN01F-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		1246046	NMW26-WGN01F-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC19552	NMW26-WGN01B-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC19552	NMW26-WGN01F-2410A	10/14/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
NMW26		24J0307	NMW26-WGN01F-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		B24102429	NMW26-WGN01F-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-145231-1	NMW26-WGN01F-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-145231-1	NMW26-WGN01F-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		1246277	NMW26-WGN01F-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC19960	NMW26-WGN01F-2410B	10/28/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
NMW26		FC19960	NMW26-WGN01B-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		24K0086	NMW26-WGN01F-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-145767-1	NMW26-WGN01F-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-145767-1	NMW26-WGN01F-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		1246530	NMW26-WGN01F-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC20403	NMW26-WGN01B-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC20403	NMW26-WGN01F-2411A	11/12/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW26		24K0202	NMW26-WGN01F-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-146131-1	NMW26-WGN01F-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-146131-1	NMW26-WGN01F-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		1246691	NMW26-WGN01F-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC20861	NMW26-WGN01F-2411B	11/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW26		FC20861	NMW26-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		24L0055	NMW26-WGN01F-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-146438-1	NMW26-WGN01F-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		580-146438-1	NMW26-WGN01F-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW26		FC21099	NMW26-WGN01F-2412A	12/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
NMW26		FC21099	NMW26-WGN01B-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

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						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		64000		ND		64000		29000		ND		130		110		13000	
					Maximum	ND		ND		ND		ND		0.33		1130		2570		120000		ND		120000		31000		ND		260		270		18000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW26	(b) (4)	FC18346	NMW26-WGN01B-2408B	8/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC18346	NMW26-WGN01F-2408B	8/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.33	J	–		–		–		–		–		–		–		–		–		–	
NMW26		1245258_Rev1	NMW26-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		656	J	739	J	–		–		–		–		–		–		–		–	
NMW26		2402217	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		580-144156-1	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		30000		–		130	J	210		15000	
NMW26		1245512	NMW26-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		1130	J+	874	J+	–		–		–		–		–		–		–		–	
NMW26		FC19039	NMW26-WGN01B-2409B	9/23/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC19039	NMW26-WGN01F-2409B	9/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	UJ	–		–		–		–		–		–		–		–		–		–	
NMW26		24J0136	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		580-144834-1	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		110		–	
NMW26		580-144834-1	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		30000		–		160	J	–		15000	
NMW26		1246046	NMW26-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		<750	U	2570		–		–		–		–		–		–		–		–	
NMW26		FC19552	NMW26-WGN01B-2410A	10/14/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC19552	NMW26-WGN01F-2410A	10/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.27	J	–		–		–		–		–		–		–		–		–		–	
NMW26		24J0307	NMW26-WGN01LF-2410B	10/28/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		B24102429	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW26		580-145231-1	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		130	J	–	
NMW26		580-145231-1	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		29000		–		170	J	–		14000	
NMW26		1246277	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW26		FC19960	NMW26-WGN01LF-2410B	10/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.19	J	–		–		–		–		–		–		–		–		–		–	
NMW26		FC19960	NMW26-WGN01B-2410B	10/28/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		24K0086	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		580-145767-1	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		200		–	
NMW26		580-145767-1	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		31000		–		190	J	–		15000	
NMW26		1246530	NMW26-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		<750	U	1340	J+	–		–		–		–		–		–		–		–	
NMW26		FC20403	NMW26-WGN01B-2411A	11/12/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		FC20403	NMW26-WGN01F-2411A	11/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.23	J	–		–		–		–		–		–		–		–		–		–	
NMW26		24K0202	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		580-146131-1	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		210		–	
NMW26		580-146131-1	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		30000		–		220		–		18000	
NMW26		1246691	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	1050	J+	–		–		–		–		–		–		–		–	
NMW26		FC20861	NMW26-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.18	J	–		–		–		–		–		–		–		–		–		–	
NMW26		FC20861	NMW26-WGN01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW26		24L0055	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW26		580-146438-1	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		270		–	
NMW26		580-146438-1	NMW26-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		30000		–		260		–		13000	
NMW26		FC21099	NMW26-WGN01F-2412A	12/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.22	J	–		–		–		–		–		–		–		–		–		–	
NMW26		FC21099	NMW26-WGN01B-2412A	12/9/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO			DRO			ORO			DRO with Silica Gel Cleanup			ORO with Silica Gel Cleanup			Total Petroleum Hydrocarbons (TPH) Calculation			Benzene			Ethylbenzene			Toluene			Xylenes			1,2,4-Trimethylbenzene			1,3,5-Trimethylbenzene			1-Methylnaphthalene			2-Methylnaphthalene			Naphthalene		
					CAS No.	PHCC6C10			PHCC10C24			PHCC24C40			PHCC10C24SGC			PHCC24C40SGC			—			71-43-2			100-41-4			108-88-3			1330-20-7			95-63-6			108-67-8			90-12-0			91-57-6			91-20-3		
					Method	8260			8015			8015			8015			8015			Calculated			8260			8260			8260			8260			8260			8260			8270 SIM			8270 SIM			8270 SIM		
					DOH Tier 1 EAL	—			—			—			—			—			193			5			30			40			20			—			—			10			10			17		
					Units	µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L			µg/L		
					Minimum	ND			ND			ND			–			–			ND			ND			ND			ND			ND			ND			ND			ND			ND		
					Maximum	ND			ND			ND			–			–			ND			ND			ND			ND			ND			ND			ND			ND			ND		
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result			Result		
NMW27	(b) (4)	24J0121	NMW27-WGN01LF-2410A	10/9/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		B24101152	NMW27-WGN01LF-2410A	10/9/2024	Primary	–			<143	U		<190	U		–			–			ND			–			–			–			–			–			–			–			–			–		
NMW27		580-144708-1	NMW27-WGN01LF-2410A	10/9/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-144708-1	NMW27-WGN01LF-2410A	10/9/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		1245952	NMW27-WGN01LF-2410A	10/9/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		FC19455	NMW27-WGN01LF-2410A	10/9/2024	Primary	<50	U		<100	U		<170	U		–			–			ND			<0.5	U		<0.5	U		<0.5	U		<1.5	U		<0.5	U		<0.5	U		<0.42	U		<0.42	U		<0.42	U	
NMW27		24J0270	NMW27-WGN01LF-2410B	10/28/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-145231-1	NMW27-WGN01LF-2410B	10/28/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-145231-1	NMW27-WGN01LF-2410B	10/28/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		1246277	NMW27-WGN01LF-2410B	10/28/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		FC19960	NMW27-WGN01LF-2410B	10/28/2024	Primary	<50	U		<100	U		<170	U		–			–			ND			<0.5	U		<0.5	U		<0.5	U		<1.5	U		<0.5	U		<0.5	U		<0.42	U		<0.42	U		<0.42	UJ	
NMW27		24K0124	NMW27-WGN01LF-2411A	11/15/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-145872-1	NMW27-WGN01LF-2411A	11/15/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-145872-1	NMW27-WGN01LF-2411A	11/15/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		1246607	NMW27-WGN01LF-2411A	11/15/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		FC20518	NMW27-WGN01LF-2411A	11/15/2024	Primary	<50	U		<100	U		<170	U		–			–			ND			<0.5	U		<0.5	U		<0.5	U		<1.5	U		<0.5	U		<0.5	U		<0.42	UJ		<0.42	UJ		<0.42	U	
NMW27		24K0219	NMW27-WGN01LF-2411B	11/25/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-146131-1	NMW27-WGN01LF-2411B	11/25/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-146131-1	NMW27-WGN01LF-2411B	11/25/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		1246691	NMW27-WGN01LF-2411B	11/25/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		FC20861	NMW27-WGN01LF-2411B	11/25/2024	Primary	<50	U		<100	U		<170	U		–			–			ND			<0.5	U		<0.5	U		<0.5	U		<1.5	U		<0.5	U		<0.5	U		<0.4	UJ		<0.4	UJ		<0.4	U	
NMW27		24L0115	NMW27-WGN01LF-2412A	12/13/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-146618-1	NMW27-WGN01LF-2412A	12/13/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		580-146618-1	NMW27-WGN01LF-2412A	12/13/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		
NMW27		1246946	NMW27-WGN01LF-2412A	12/13/2024	Primary	–			–			–			–			–			–			–			–			–			–			–			–			–			–			–		

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

| | | | | | | Polynuclear Aromatic Hydrocarbons (PAHs) – Additional | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		46000		450000		ND		660		680		61000	
					Maximum	ND		ND		ND		ND		ND		ND		1040		62000		50000		66000		1300000		ND		830		780		75000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW27	(b) (4)	24J0121	NMW27-WGN01LF-2410A	10/9/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW27		B24101152	NMW27-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW27		580-144708-1	NMW27-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		780		–	
NMW27		580-144708-1	NMW27-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		62000		<7000	U	62000		1300000		–		830		–		69000	
NMW27		1245952	NMW27-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW27		FC19455	NMW27-WGN01LF-2410A	10/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW27		24J0270	NMW27-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW27		580-145231-1	NMW27-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		680		–	
NMW27		580-145231-1	NMW27-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		57000		<7000	U	57000		450000		–		660		–		67000	
NMW27		1246277	NMW27-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW27		FC19960	NMW27-WGN01LF-2410B	10/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW27		24K0124	NMW27-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW27		580-145872-1	NMW27-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		750	J-	–	
NMW27		580-145872-1	NMW27-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		<7000	U	50000		66000		580000		–		700		–		75000	
NMW27		1246607	NMW27-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		<750	U	751	J+	–		–		–		–		–		–		–		–	
NMW27		FC20518	NMW27-WGN01LF-2411A	11/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW27		24K0219	NMW27-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW27		580-146131-1	NMW27-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		720		–	
NMW27		580-146131-1	NMW27-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		56000		<7000	U	56000		550000		–		690		–		70000	
NMW27		1246691	NMW27-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	1040	J+	–		–		–		–		–		–		–		–	
NMW27		FC20861	NMW27-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW27		24L0115	NMW27-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW27		580-146618-1	NMW27-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		740		–	
NMW27		580-146618-1	NMW27-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		46000		<7000	U	46000		530000		–		690		–		61000	J+
NMW27		1246946	NMW27-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW26

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App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW30

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW30	(b) (4)	24I0245	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-144265-1	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1245634	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC19169	NMW30-WGN01B-2409B	9/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW30		FC19169	NMW30-WGN01LF-2409B	9/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW30		24J0196	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1246127	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC19703	NMW30-WGN01LF-2410A	10/17/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW30		FC19703	NMW30-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW30		24K0003	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		B24102634	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1246315	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		24K0115	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1246572	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC20484	NMW30-WGN01B-2411A	11/14/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW30		FC20484	NMW30-WGN01LF-2411A	11/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW30		24K0219	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1246712	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC20885	NMW30-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW30		FC20885	NMW30-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
NMW30		24L0108	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		1246921	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC21264	NMW30-WGN01B-2412A	12/12/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW30		FC21264	NMW30-WGN01LF-2412A	12/12/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.43	U	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW30

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
NMW30	(b) (4)	24I0245	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-144265-1	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1245634	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC19169	NMW30-WGN01B-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC19169	NMW30-WGN01LF-2409B	9/26/2024	Primary	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
NMW30		24J0196	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1246127	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC19703	NMW30-WGN01LF-2410A	10/17/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	UJ		
NMW30		FC19703	NMW30-WGN01B-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		24K0003	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		B24102634	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1246315	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		24K0115	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1246572	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC20484	NMW30-WGN01B-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC20484	NMW30-WGN01LF-2411A	11/14/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
NMW30		24K0219	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1246712	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC20885	NMW30-WGN01B-2411B	11/26/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC20885	NMW30-WGN01LF-2411B	11/26/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
NMW30		24L0108	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		1246921	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC21264	NMW30-WGN01B-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
NMW30		FC21264	NMW30-WGN01LF-2412A	12/12/2024	Primary	<0.43	U			<0.43	U			<0.43	U			<0.043	U			<0.043	U			<0.043	U			<0.043	U			<0.043	UJ		

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																																			
					Analyte	Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene									
					CAS No.	218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0									
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM									
					DOH Tier 1 EAL	0.24				0.0048				13				250				0.018				250				68									
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L									
					Minimum	ND				ND				ND				ND				ND				ND				ND									
					Maximum	ND				ND				ND				ND				ND				ND				ND									
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result									
NMW30	(b) (4)	24I0245	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-144265-1	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		1245634	NMW30-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC19169	NMW30-WGN01B-2409B	9/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC19169	NMW30-WGN01LF-2409B	9/26/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U								
NMW30		24J0196	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–									
NMW30		1246127	NMW30-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC19703	NMW30-WGN01LF-2410A	10/17/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ								
NMW30		FC19703	NMW30-WGN01B-2410A	10/17/2024	Primary	–				–				–				–				–				–				–									
NMW30		24K0003	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–									
NMW30		B24102634	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–									
NMW30		1246315	NMW30-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–									
NMW30		24K0115	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–									
NMW30		1246572	NMW30-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC20484	NMW30-WGN01B-2411A	11/14/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC20484	NMW30-WGN01LF-2411A	11/14/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U								
NMW30		24K0219	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		1246712	NMW30-WGN01LF-2411B	11/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC20885	NMW30-WGN01B-2411B	11/26/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC20885	NMW30-WGN01LF-2411B	11/26/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U								
NMW30		24L0108	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–									
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–									
NMW30		1246921	NMW30-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC21264	NMW30-WGN01B-2412A	12/12/2024	Primary	–				–				–				–				–				–				–									
NMW30		FC21264	NMW30-WGN01LF-2412A	12/12/2024	Primary	<0.043	U			<0.087	U			<0.043	U			<0.43	U			<0.43	U			<0.043	UJ			<0.43	U								

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW30

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		.5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		0.99		ND		ND		89000		ND		89000		97000		ND		1000		990		30000	
					Maximum	ND		ND		ND		ND		12.3		ND		1370		130000		ND		130000		100000		ND		1200		1200		32000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW30	(b) (4)	24I0245	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW30		580-144265-1	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		91000		<7000	U	91000		100000		–		1100		1000		32000	
NMW30		1245634	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW30		FC19169	NMW30-WGN01B-2409B	9/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC19169	NMW30-WGN01LF-2409B	9/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	12.3		–		–		–		–		–		–		–		–		–		–	
NMW30		24J0196	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
NMW30		580-144954-1	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		97000		–		1000		–		31000	
NMW30		1246127	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		<750	U	1370	J+	–		–		–		–		–		–		–		–	
NMW30		FC19703	NMW30-WGN01LF-2410A	10/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	10.9		–		–		–		–		–		–		–		–		–		–	
NMW30		FC19703	NMW30-WGN01B-2410A	10/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW30		24K0003	NMW30-WGN01LF-2410B	10/30/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW30		B24102634	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		990		–	
NMW30		580-145334-1	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		93000		<7000	U	93000		100000		–		1000		–		30000	
NMW30		1246315	NMW30-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW30		24K0115	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		990		–	
NMW30		580-145831-1	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		90000		<7000	U	90000		100000		–		1100		–		31000	
NMW30		1246572	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		<750	U	1270	J+	–		–		–		–		–		–		–		–	
NMW30		FC20484	NMW30-WGN01B-2411A	11/14/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC20484	NMW30-WGN01LF-2411A	11/14/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	5.5		–		–		–		–		–		–		–		–		–		–	
NMW30		24K0219	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	UJ	–		–		–	
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1200		–	
NMW30		580-146154-1	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		89000		<7000	U	89000		100000		–		1200		–		30000	
NMW30		1246712	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	1250	J+	–		–		–		–		–		–		–		–	
NMW30		FC20885	NMW30-WGN01B-2411B	11/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC20885	NMW30-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	2.6		–		–		–		–		–		–		–		–		–		–	
NMW30		24L0108	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1100		–	
NMW30		580-146568-1	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		91000		<7000	U	91000		100000		–		1200		–		31000	
NMW30		1246921	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		<750	U	960	J+	–		–		–		–		–		–		–		–	
NMW30		FC21264	NMW30-WGN01B-2412A	12/12/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW30		FC21264	NMW30-WGN01LF-2412A	12/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.99		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: NMW32

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW32	(b) (4)	1245258_Rev1	NMW32-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		24I0245	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-144265-1	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1245634	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC19169	NMW32-WGN01B-2409B	9/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW32		FC19169	NMW32-WGN01LF-2409B	9/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW32		24J0196	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-144954-1	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-144954-1	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1246127	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC19703	NMW32-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW32		FC19703	NMW32-WGN01LF-2410A	10/17/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW32		24J0307	NMW32-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		24J0307	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		B24102575	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW32		B24102575	NMW32-WGFD01LF-2410B	10/29/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW32		580-145281-1	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-145281-1	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1246307	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		24K0099	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-145801-1	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-145801-1	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1246543	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		24K0202	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-146131-1	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-146131-1	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1246691	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC20861	NMW32-WGFD01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW32		FC20861	NMW32-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW32		FC20861	NMW32-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW32		FC20861	NMW32-WGFD01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW32		24L0085	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-146533-1	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-146533-1	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		1246896	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW32

| | | | | | | Polynuclear Aromatic Hydrocarbons (PAHs) – Additional | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW32

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		898		190000		ND		190000		160000		ND		1800		2000		48000	
					Maximum	ND		ND		ND		ND		0.77		955		1540		220000		ND		220000		170000		ND		2900		3000		77000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW32	(b) (4)	1245258_Rev1	NMW32-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		861	J	1150		–		–		–		–		–		–		–		–	
NMW32		24I0245	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		580-144265-1	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		210000		<7000	U	210000		170000		–		2400		2600		57000	
NMW32		1245634	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		846	J+	1370	J+	–		–		–		–		–		–		–		–	
NMW32		FC19169	NMW32-WGN01B-2409B	9/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC19169	NMW32-WGN01LF-2409B	9/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW32		24J0196	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		580-144954-1	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2600		–	
NMW32		580-144954-1	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		160000		–		2800		–		77000	
NMW32		1246127	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		791	J+	899	J+	–		–		–		–		–		–		–		–	
NMW32		FC19703	NMW32-WGN01B-2410A	10/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC19703	NMW32-WGN01LF-2410A	10/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.77		–		–		–		–		–		–		–		–		–		–	
NMW32		24J0307	NMW32-WGFD01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		24J0307	NMW32-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		B24102575	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		B24102575	NMW32-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW32		580-145281-1	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2000		–	
NMW32		580-145281-1	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		160000		–		2100		–		50000	
NMW32		1246307	NMW32-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		850	J+	1540	J+	–		–		–		–		–		–		–		–	
NMW32		24K0099	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		580-145801-1	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2300		–	
NMW32		580-145801-1	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		160000		–		1800		–		52000	
NMW32		1246543	NMW32-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		929	J+	1190	J+	–		–		–		–		–		–		–		–	
NMW32		24K0202	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		580-146131-1	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		3000		–	
NMW32		580-146131-1	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		170000		–		2800		–		55000	
NMW32		1246691	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		955	J+	1260	J+	–		–		–		–		–		–		–		–	
NMW32		FC20861	NMW32-WGFD01LF-2411B	11/25/2024	Primary	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC20861	NMW32-WGN01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW32		FC20861	NMW32-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.45	J	–		–		–		–		–		–		–		–		–		–	
NMW32		FC20861	NMW32-WGN01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW32		24L0085	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW32		580-146533-1	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		3000		–	
NMW32		580-146533-1	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		170000		–		2900		–		48000	
NMW32		1246896	NMW32-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		<750	U	898	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW33

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW33	(b) (4)	24I0233	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-144202-1	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1245584	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		FC19169	NMW33-WGN01LF-2409B	9/25/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW33		FC19169	NMW33-WGN01B-2409B	9/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW33		24J0196	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1246127	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		FC19703	NMW33-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW33		FC19703	NMW33-WGN01LF-2410A	10/17/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW33		24J0321	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		B24102634	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		<150	U	<200	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1246307	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		24K0099	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1246543	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		24K0202	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1246691	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		FC20861	NMW33-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW33		FC20861	NMW33-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW33		24L0085	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		1246896	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW33

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
NMW33	(b) (4)	24I0233	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-144202-1	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1245584	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		FC19169	NMW33-WGN01LF-2409B	9/25/2024	Primary	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
NMW33		FC19169	NMW33-WGN01B-2409B	9/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		24J0196	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1246127	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		FC19703	NMW33-WGN01B-2410A	10/17/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		FC19703	NMW33-WGN01LF-2410A	10/17/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
NMW33		24J0321	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		B24102634	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1246307	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		24K0099	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1246543	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		24K0202	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1246691	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		FC20861	NMW33-WGN01LF-2411B	11/25/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
NMW33		FC20861	NMW33-WGN01B-2411B	11/25/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		24L0085	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–				–			
NMW33		1246896	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–				–			

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene							
					CAS No.	218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0							
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM							
					DOH Tier 1 EAL	0.24				0.0048				13				250				0.018				250				68							
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L							
					Minimum	ND				ND				ND				ND				ND				ND				ND							
					Maximum	ND				ND				ND				ND				ND				ND				ND							
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result							
NMW33	(b) (4)	24I0233	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-144202-1	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		1245584	NMW33-WGN01LF-2409B	9/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		FC19169	NMW33-WGN01LF-2409B	9/25/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	UJ						
NMW33		FC19169	NMW33-WGN01B-2409B	9/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		24J0196	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–							
NMW33		1246127	NMW33-WGN01LF-2410A	10/17/2024	Primary	–				–				–				–				–				–				–							
NMW33		FC19703	NMW33-WGN01B-2410A	10/17/2024	Primary	–				–				–				–				–				–				–							
NMW33		FC19703	NMW33-WGN01LF-2410A	10/17/2024	Primary	<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U						
NMW33		24J0321	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–							
NMW33		B24102634	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–							
NMW33		1246307	NMW33-WGN01LF-2410B	10/29/2024	Primary	–				–				–				–				–				–				–							
NMW33		24K0099	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–							
NMW33		1246543	NMW33-WGN01LF-2411A	11/13/2024	Primary	–				–				–				–				–				–				–							
NMW33		24K0202	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		1246691	NMW33-WGN01LF-2411B	11/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		FC20861	NMW33-WGN01LF-2411B	11/25/2024	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U						
NMW33		FC20861	NMW33-WGN01B-2411B	11/25/2024	Primary	–				–				–				–				–				–				–							
NMW33		24L0085	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–							
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–							
NMW33		1246896	NMW33-WGN01LF-2412A	12/11/2024	Primary	–				–				–				–				–				–				–							

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW33

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters															
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		220000		ND		220000		260000		ND		4800		4800		52000	
					Maximum	ND		ND		ND		ND		ND		ND		1200		240000		ND		240000		270000		ND		4900		5300		56000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW33	(b) (4)	24I0233	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		580-144202-1	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		230000		<7000	U	230000		270000		–		4900		5100		56000	
NMW33		1245584	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW33		FC19169	NMW33-WGN01LF-2409B	9/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW33		FC19169	NMW33-WGN01B-2409B	9/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW33		24J0196	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		4800		–	
NMW33		580-144954-1	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		240000		<7000	U	240000		260000		–		4900		–		55000	
NMW33		1246127	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		<750	U	1200	J+	–		–		–		–		–		–		–		–	
NMW33		FC19703	NMW33-WGN01B-2410A	10/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW33		FC19703	NMW33-WGN01LF-2410A	10/17/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW33		24J0321	NMW33-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		B24102634	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		5000		–	
NMW33		580-145281-1	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		220000		<7000	U	220000		270000		–		4900		–		56000	
NMW33		1246307	NMW33-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		<750	U	762	J+	–		–		–		–		–		–		–		–	
NMW33		24K0099	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		5200		–	
NMW33		580-145801-1	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		230000		<7000	U	230000		270000		–		4800		–		52000	
NMW33		1246543	NMW33-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		<750	U	864	J+	–		–		–		–		–		–		–		–	
NMW33		24K0202	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		5300		–	
NMW33		580-146131-1	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		240000		<7000	U	240000		260000		–		4900		–		55000	
NMW33		1246691	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
NMW33		FC20861	NMW33-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
NMW33		FC20861	NMW33-WGN01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW33		24L0085	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		5100		–	
NMW33		580-146533-1	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		230000		<7000	U	230000		270000		–		4900		–		56000	
NMW33		1246896	NMW33-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW34

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW34	(b) (4)	FC18395	NMW34-WGN01B-2408B	8/27/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC18395	NMW34-WGN01LF-2408B	8/27/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
NMW34		24I0201	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-144156-1	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1245512	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC19039	NMW34-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC19039	NMW34-WGN01LF-2409B	9/23/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW34		24J0196	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1246127	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC19703	NMW34-WGN01LF-2410A	10/17/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
NMW34		FC19703	NMW34-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		24J0307	NMW34-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		24J0307	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		B24102575	NMW34-WGFD01LF-2410B	10/29/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW34		B24102575	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1246307	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		24K0124	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1246607	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20518	NMW34-WGFD01B-2411A	11/15/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC20518	NMW34-WGN01B-2411A	11/15/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC20518	NMW34-WGN01LF-2411A	11/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW34		FC20518	NMW34-WGFD01LF-2411A	11/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.43	UJ	<0.43	UJ	<0.43	U
NMW34		24K0219	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1246691	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20861	NMW34-WGFD01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC20861	NMW34-WGFD01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW34		FC20861	NMW34-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
NMW34		FC20861	NMW34-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
NMW34		24L0115	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		1246946	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
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						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene			
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
NMW34	(b) (4)	FC18395	NMW34-WGN01B-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC18395	NMW34-WGN01LF-2408B	8/27/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.042	UJ	<0.083	UJ	<0.042	UJ	<0.4	U	<0.4	U	<0.042	UJ	<0.4	U	<0.4	U		
NMW34		24I0201	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-144156-1	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1245512	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC19039	NMW34-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC19039	NMW34-WGN01LF-2409B	9/23/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
NMW34		24J0196	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1246127	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC19703	NMW34-WGN01LF-2410A	10/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
NMW34		FC19703	NMW34-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		24J0307	NMW34-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		24J0307	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		B24102575	NMW34-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		B24102575	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1246307	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		24K0124	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1246607	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20518	NMW34-WGFD01B-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20518	NMW34-WGN01B-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20518	NMW34-WGN01LF-2411A	11/15/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
NMW34		FC20518	NMW34-WGFD01LF-2411A	11/15/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U		
NMW34		24K0219	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1246691	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20861	NMW34-WGFD01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20861	NMW34-WGFD01LF-2411B	11/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
NMW34		FC20861	NMW34-WGN01B-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		FC20861	NMW34-WGN01LF-2411B	11/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
NMW34		24L0115	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW34		1246946	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: NMW34

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		120000		ND		120000		78000		ND		2900		2700		35000	
					Maximum	ND		ND		ND		ND		ND		ND		2330		140000		ND		140000		85000		ND		3100		3200		38000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
NMW34	(b) (4)	FC18395	NMW34-WGN01B-2408B	8/27/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC18395	NMW34-WGN01LF-2408B	8/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		24I0201	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
NMW34		580-144156-1	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		83000		–		2900	J-	2900		37000	
NMW34		1245512	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
NMW34		FC19039	NMW34-WGN01B-2409B	9/23/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC19039	NMW34-WGN01LF-2409B	9/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		24J0196	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2700		–		–	
NMW34		580-144954-1	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		81000		–		3000		–		36000	
NMW34		1246127	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		<750	U	1740		–		–		–		–		–		–		–		–		–	
NMW34		FC19703	NMW34-WGN01LF-2410A	10/17/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC19703	NMW34-WGN01B-2410A	10/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		24J0307	NMW34-WGFD01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		24J0307	NMW34-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
NMW34		B24102575	NMW34-WGFD01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		B24102575	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2800		–	
NMW34		580-145281-1	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		78000		–		2900		–		35000	
NMW34		1246307	NMW34-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
NMW34		24K0124	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2900		–	
NMW34		580-145872-1	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		85000		–		2900		–		38000	
NMW34		1246607	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
NMW34		FC20518	NMW34-WGFD01B-2411A	11/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20518	NMW34-WGN01B-2411A	11/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20518	NMW34-WGN01LF-2411A	11/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20518	NMW34-WGFD01LF-2411A	11/15/2024	Primary	–		<1.9	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		24K0219	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		3100		–	
NMW34		580-146131-1	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		81000		–		2900		–		35000	
NMW34		1246691	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	2330	J+	–		–		–		–		–		–		–		–		–	
NMW34		FC20861	NMW34-WGFD01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20861	NMW34-WGFD01LF-2411B	11/25/2024	Primary	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20861	NMW34-WGN01B-2411B	11/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
NMW34		FC20861	NMW34-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
NMW34		24L0115	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		3200		–	
NMW34		580-146618-1	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		79000		–		3100		–		36000	
NMW34		1246946	NMW34-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW03A

						Total Petroleum Hydrocarbons																Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW03A	(b) (4)	FC18439	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW03A		24I0217	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144160-1	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1245554	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC19169	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW03A		24J0172	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246090	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC19654	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW03A		24K0003	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		B24110059	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246341	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24K0099	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246543	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24K0219	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246691	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC20861	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
OWDFMW03A		24L0085	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246896	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW03A

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW03A	(b) (4)	FC18439	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
OWDFMW03A		24I0217	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144160-1	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1245554	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC19169	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
OWDFMW03A		24J0172	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246090	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC19654	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
OWDFMW03A		24K0003	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		B24110059	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246341	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24K0099	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246543	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24K0219	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246691	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		FC20861	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
OWDFMW03A		24L0085	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		1246896	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW03A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		95000		ND		95000		48000		ND		440		410		13000	
					Maximum	ND		ND		ND		ND		ND		ND		841		100000		ND		100000		51000		ND		460		460		14000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW03A	(b) (4)	FC18439	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24I0217	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		580-144160-1	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		50000		–		440		460		14000	
OWDFMW03A		1245554	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW03A		FC19169	OWDFMW03A-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24J0172	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		430		–	
OWDFMW03A		580-144901-1	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		51000		–		460		–		14000	
OWDFMW03A		1246090	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW03A		FC19654	OWDFMW03A-WGN01LF-2410A	10/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24K0003	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		B24110059	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		440		–	
OWDFMW03A		580-145397-1	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		95000		<7000	U	95000		50000		–		450		–		13000	
OWDFMW03A		1246341	OWDFMW03A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW03A		24K0099	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		460	J-	–	
OWDFMW03A		580-145801-1	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		50000		–		440		–		13000	
OWDFMW03A		1246543	OWDFMW03A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW03A		24K0219	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		410		–	
OWDFMW03A		580-146131-1	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		49000		–		440		–		13000	
OWDFMW03A		1246691	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW03A		FC20861	OWDFMW03A-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW03A		24L0085	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		430		–	
OWDFMW03A		580-146533-1	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		48000		–		440		–		13000	
OWDFMW03A		1246896	OWDFMW03A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		<750	U	841	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW08A

						Total Petroleum Hydrocarbons																Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	(b) (4)	FC18439	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW08A		1245258_Rev1	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24I0217	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144160-1	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1245554	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC19169	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW08A		24J0172	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246090	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC19654	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
OWDFMW08A		24K0003	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		B24110059	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246341	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24K0099	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246543	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24K0219	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246691	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC20861	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
OWDFMW08A		24L0085	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246896	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW08A

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	(b) (4)	FC18439	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
OWDFMW08A		1245258_Rev1	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24I0217	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144160-1	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1245554	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC19169	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
OWDFMW08A		24J0172	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246090	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC19654	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
OWDFMW08A		24K0003	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		B24110059	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246341	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24K0099	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246543	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24K0219	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246691	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC20861	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
OWDFMW08A		24L0085	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1246896	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: OWDFMW08A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		88000		ND		88000		240000		ND		650		620		39000	
					Maximum	ND		ND		ND		ND		ND		323		817		99000		ND		99000		250000		ND		680		690		40000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
OWDFMW08A	(b) (4)	FC18439	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1245258_Rev1	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		323	J	411	J	–		–		–		–		–		–		–		–	
OWDFMW08A		24I0217	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		580-144160-1	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		94000		<7000	U	94000		240000		–		670		670	J-	40000	
OWDFMW08A		1245554	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW08A		FC19169	OWDFMW08A-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24J0172	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		650		–	
OWDFMW08A		580-144901-1	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		91000		<7000	U	91000		240000		–		660		–		39000	
OWDFMW08A		1246090	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW08A		FC19654	OWDFMW08A-WGN01LF-2410A	10/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24K0003	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		B24110059	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		680		–	
OWDFMW08A		580-145397-1	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		88000		<7000	U	88000		250000		–		680		–		39000	
OWDFMW08A		1246341	OWDFMW08A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW08A		24K0099	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		690		–	
OWDFMW08A		580-145801-1	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		90000		<7000	U	90000		250000		–		660		–		39000	
OWDFMW08A		1246543	OWDFMW08A-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
OWDFMW08A		24K0219	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		670		–	
OWDFMW08A		580-146131-1	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		99000		<7000	U	99000		250000		–		660		–		39000	
OWDFMW08A		1246691	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		<750	U	817	J+	–		–		–		–		–		–		–		–	
OWDFMW08A		FC20861	OWDFMW08A-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		24L0085	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		620		–	
OWDFMW08A		580-146533-1	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		90000		<7000	U	90000		250000		–		650		–		40000	
OWDFMW08A		1246896	OWDFMW08A-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
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						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	(b) (4)	24I0256	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144292-1	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1245703	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC19168	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
HDMW2253-03		24J0201	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246155	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC19723	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
HDMW2253-03		24K0003	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		B24110059	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246341	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24K0124	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246607	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC20518	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
HDMW2253-03		24K0202	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246691	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC20861	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	UJ	<0.38	UJ	<0.38	U
HDMW2253-03		24L0115	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246946	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: HDMW2253-01

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	(b) (4)	24I0256	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144292-1	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1245703	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC19168	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
HDMW2253-03		24J0201	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246155	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC19723	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
HDMW2253-03		24K0003	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		B24110059	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246341	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24K0124	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246607	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC20518	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
HDMW2253-03		24K0202	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246691	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		FC20861	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
HDMW2253-03		24L0115	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		1246946	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: HDMW2253-01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		.5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		1		ND		ND		49000		ND		49000		83000		470		180		140		28000	
					Maximum	ND		ND		ND		ND		1.6		1150		942		59000		ND		59000		91000		2000		220		200		30000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
HDMW2253-03	(b) (4)	24I0256	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		480	J	–		–		–	
HDMW2253-03		580-144292-1	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		50000		<7000	U	50000		86000		–		220		200		29000	
HDMW2253-03		1245703	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		<750	U	942	J+	–		–		–		–		–		–		–		–	
HDMW2253-03		FC19168	HDMW2253-03-WGN01LF-2409B	9/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24J0201	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		2000		–		–		–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		140	J	–	
HDMW2253-03		580-144992-1	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		59000		<7000	U	59000		85000		–		180	J	–		28000	
HDMW2253-03		1246155	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		<750	U	837	J+	–		–		–		–		–		–		–		–	
HDMW2253-03		FC19723	HDMW2253-03-WGN01LF-2410A	10/18/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.6		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24K0003	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		1300		–		–		–	
HDMW2253-03		B24110059	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		200		–	
HDMW2253-03		580-145397-1	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		49000		<7000	U	49000		85000		–		220		–		28000	
HDMW2253-03		1246341	HDMW2253-03-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
HDMW2253-03		24K0124	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		930	J	–		–		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		180		–	
HDMW2253-03		580-145872-1	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		50000		<7000	U	50000		91000		–		200		–		30000	
HDMW2253-03		1246607	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		<750	U	927	J+	–		–		–		–		–		–		–		–	
HDMW2253-03		FC20518	HDMW2253-03-WGN01LF-2411A	11/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.2		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24K0202	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		1100		–		–		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		170		–	
HDMW2253-03		580-146131-1	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		–		–		54000		<7000	U	54000		86000		–		200		–		29000	
HDMW2253-03		1246691	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		–		–		–		–		1150	J+	<750	U	–		–		–		–		–		–		–		–	
HDMW2253-03		FC20861	HDMW2253-03-WGN01LF-2411B	11/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.3		–		–		–		–		–		–		–		–		–		–	
HDMW2253-03		24L0115	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		470	J	–		–		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		160		–	
HDMW2253-03		580-146618-1	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		49000		<7000	U	49000		83000		–		200		–		29000	
HDMW2253-03		1246946	HDMW2253-03-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		<750	U	770	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW01R

						Total Petroleum Hydrocarbons																				Volatile Organic Compounds																				Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
	Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
	CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
	Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
	DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Minimum	ND		91.9		ND		ND		ND		92		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Maximum	ND		170		ND		105		ND		170		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	(b) (4)	24J0215	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		B24101842	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		149.7	J	<189	U	<141	U	<189	U	150		–		–		–		–		–		–		–		–	
RHMW01R		580-145049-1	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145049-1	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		1246154	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGN01B-2410B	10/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW01R		FC19769	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	<50	U	92.6	J	<150	U	105	J	<150	U	93		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHMW01R		24J0215	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		B24101842	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	–		170	J	<189	U	<141	U	<189	U	170		–		–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGFD01B-2410B	10/21/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW01R		FC19769	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	<50	U	91.9	J	<170	U	85.2	J	<170	U	92		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW01R		24K0017	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145507-1	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145507-1	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		1246372	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24K0135	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145928-1	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145928-1	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		1246607	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24L0018	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-146249-1	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-146249-1	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		1246742	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24L0126	RHMW01R-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		1246946	RHMW01R-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW01R

| | | | | | | Polynuclear Aromatic Hydrocarbons (PAHs) – Additional | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW01R

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		398		ND		753		81000		ND		81000		42000		350		ND		ND		4300	
					Maximum	ND		ND		ND		ND		398		862		1250		90000		ND		90000		42000		430		ND		ND		4500	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW01R	(b) (4)	24J0215	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		420	J	–		–		–	
RHMW01R		B24101842	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-145049-1	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW01R		580-145049-1	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		85000		<7000	U	85000		42000		–		<120	U	–		4400	
RHMW01R		1246154	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		862	J+	1250	J+	–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGN01B-2410B	10/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGN01LF-2410B	10/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	398		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24J0215	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		B24101842	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGFD01B-2410B	10/21/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC19769	RHMW01R-WGFD01LF-2410B	10/21/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24K0017	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		430	J	–		–		–	
RHMW01R		580-145507-1	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW01R		580-145507-1	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		90000		<7000	U	90000		42000		–		<120	U	–		4300	
RHMW01R		1246372	RHMW01R-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		771	J+	753	J+	–		–		–		–		–		–		–		–	
RHMW01R		24K0135	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		390	J	–		–		–	
RHMW01R		580-145928-1	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	UJ	–	
RHMW01R		580-145928-1	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		81000		<7000	U	81000		42000		–		<120	U	–		4500	
RHMW01R		1246607	RHMW01R-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		839	J+	918	J+	–		–		–		–		–		–		–		–	
RHMW01R		24L0018	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		360	J	–		–		–	
RHMW01R		580-146249-1	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW01R		580-146249-1	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		87000		<7000	U	87000		42000		–		<120	U	–		4300	
RHMW01R		1246742	RHMW01R-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		<750	U	982	J+	–		–		–		–		–		–		–		–	
RHMW01R		24L0126	RHMW01R-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		350	J	–		–		–	
RHMW01R		1246946	RHMW01R-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		<750	U	779	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW02

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		1200		132		126.7		ND		1330		ND		ND		ND		ND		ND		ND		ND		ND		1.1	
Maximum						64.9		2020		353.1		1560		143		2365		ND		ND		ND		ND		ND		ND		0.54		ND		1.4	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW02	(b) (4)	24I0245	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-144265-1	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1245634	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		FC19169	RHMW02-WGN01B-2409B	9/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW02		FC19169	RHMW02-WGN01B-2409B	9/26/2024	Primary	47	J	2020		299		1480		134	J	2365		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	1.1	
RHMW02		FC19169	RHMW02-WGFD01B-2409B	9/26/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW02		FC19169	RHMW02-WGFD01LF-2409B	9/26/2024	Field Duplicate	64.9	J	2010		200	J	1560		143	J	2273		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	0.33	J	<0.42	U	1.1	
RHMW02		24J0092	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1245891	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		FC19455	RHMW02-WGN01B-2410A	10/7/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW02		FC19455	RHMW02-WGN01LF-2410A	10/7/2024	Primary	<50	U	1200		150	J	1100	J+	123	J	1348		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	0.42	J	<0.42	U	1.4	
RHMW02		FC19455	RHMW02-WGFD01B-2410A	10/7/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW02		FC19455	RHMW02-WGFD01LF-2410A	10/7/2024	Field Duplicate	<50	U	1220		154	J	1060	J+	119	J	1372		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	0.42	J	<0.42	U	1.4	
RHMW02		24J0215	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		B24102001	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		2006		353.1		126.7	J	<189	U	2359		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1246154	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		FC19813	RHMW02-WGN01B-2410B	10/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW02		FC19813	RHMW02-WGN01LF-2410B	10/21/2024	Primary	<50	U	1200		132	J	1070		99.2	J	1330		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	0.54	J	<0.38	U	1.2	J
RHMW02		24K0017	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1246372	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		24K0135	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1246607	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		24L0018	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1246742	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		24L0126	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW02		1246946	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW02

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW02	(b) (4)	24I0245	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-144265-1	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1245634	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19169	RHMW02-WGN01B-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19169	RHMW02-WGN01LF-2409B	9/26/2024	Primary	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	UJ		
RHMW02		FC19169	RHMW02-WGFD01B-2409B	9/26/2024	Field Duplicate	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19169	RHMW02-WGFD01LF-2409B	9/26/2024	Field Duplicate	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	UJ		
RHMW02		24J0092	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1245891	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19455	RHMW02-WGN01B-2410A	10/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19455	RHMW02-WGN01LF-2410A	10/7/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHMW02		FC19455	RHMW02-WGFD01B-2410A	10/7/2024	Field Duplicate	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19455	RHMW02-WGFD01LF-2410A	10/7/2024	Field Duplicate	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHMW02		24J0215	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		B24102001	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1246154	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19813	RHMW02-WGN01B-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		FC19813	RHMW02-WGN01LF-2410B	10/21/2024	Primary	<0.38	UJ			<0.38	U			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	UJ			<0.38	UJ			<0.038	U			<0.38	UJ			<0.38	U		
RHMW02		24K0017	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1246372	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		24K0135	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1246607	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		24L0018	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1246742	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		24L0126	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW02		1246946	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW02

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane	Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)	Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)			
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8	TOC		—		ALKB		ALKC		ALK		16887-00-6	15438-31-0		NO3N		NO3NO2N		14808-79-8			
					Method	8270D		SW8270		8011		8260		RSK 175	9060		9060		A2320B		A2320B		A2320B		E300	A3500B		E300		E353.2		E300			
					DOH Tier 1 EAL	—		300		0.04		5		—	—		—		—		—		—		—	—		—		—		—			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		2160	4800		4820		160000		ND		160000		41000	1200		ND		ND		2000			
					Maximum	ND		ND		ND		ND		2680	7590		6410		220000		ND		220000		42000	1900		ND		ND		4300			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result	Result		Result		Result		Result		Result		Result	Result		Result		Result		Result			
RHMW02	(b) (4)	24I0245	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1900		–		–		–			
RHMW02		580-144265-1	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–	–		–		220000		<7000	U	220000		42000	–		<120	U	<120	U	2600			
RHMW02		1245634	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–	7590		6410		–		–		–		–	–		–		–		–			
RHMW02		FC19169	RHMW02-WGN01B-2409B	9/26/2024	Primary	–		–		–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19169	RHMW02-WGN01LF-2409B	9/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	2680	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19169	RHMW02-WGFD01B-2409B	9/26/2024	Field Duplicate	–		–		–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19169	RHMW02-WGFD01LF-2409B	9/26/2024	Field Duplicate	–		<2	U	–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		24J0092	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1200		–		–		–			
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		<90	U	–			
RHMW02		580-144598-1	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–	–		–		170000		<7000	U	170000		41000	–		<120	U	–		3900			
RHMW02		1245891	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–	5190		6100		–		–		–		–	–		–		–		–			
RHMW02		FC19455	RHMW02-WGN01B-2410A	10/7/2024	Primary	–		–		–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19455	RHMW02-WGN01LF-2410A	10/7/2024	Primary	–		<2	U	<0.014	U	<0.5	U	2160	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19455	RHMW02-WGFD01B-2410A	10/7/2024	Field Duplicate	–		–		–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19455	RHMW02-WGFD01LF-2410A	10/7/2024	Field Duplicate	–		<2	U	–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		24J0215	RHMW02-WGN01LF-2410B	10/21/2024	Primary	<80	UJ	–		–		–		–	–		–		–		–		–		–	1700		–		–		–			
RHMW02		B24102001	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		–		–			
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		<120	U	–			
RHMW02		580-145049-1	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–	–		–		200000		<7000	U	200000		41000	–		<120	U	–		4300			
RHMW02		1246154	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–	4800		4820		–		–		–		–	–		–		–		–			
RHMW02		FC19813	RHMW02-WGN01B-2410B	10/21/2024	Primary	–		–		–		<0.5	U	–	–		–		–		–		–		–	–		–		–		–			
RHMW02		FC19813	RHMW02-WGN01LF-2410B	10/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	2390	–		–		–		–		–		–	–		–		–		–			
RHMW02		24K0017	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1300		–		–		–			
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		<120	U	–			
RHMW02		580-145507-1	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–	–		–		160000		<7000	U	160000		41000	–		<120	U	–		4200			
RHMW02		1246372	RHMW02-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–	5240		5030		–		–		–		–	–		–		–		–			
RHMW02		24K0135	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1400		–		–		–			
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		<120	U	–			
RHMW02		580-145928-1	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–	–		–		170000		<7000	U	170000		42000	–		<120	U	–		3700			
RHMW02		1246607	RHMW02-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–	6020	J+	6400	J+	–		–		–		–	–		–		–		–			
RHMW02		24L0018	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1400		–		–		–			
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	–		–		<120	U	–			
RHMW02		580-146249-1	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–	–		–		220000		<7000	U	220000		42000	–		<120	U	–		2000			
RHMW02		1246742	RHMW02-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–	6230		5490		–		–		–		–	–		–		–		–			
RHMW02		24L0126	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–	–		–		–		–		–		–	1400		–		–		–			
RHMW02		1246946	RHMW02-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–	6010		6220		–		–		–		–	–		–		–		–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW03

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		105		170.5		86.6		105		233		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	(b) (4)	24I0245	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-144265-1	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1245634	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19169	RHMW03-WGN01B-2409B	9/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		FC19169	RHMW03-WGN01LF-2409B	9/26/2024	Primary	<50	U	86.4	J	87.2	J	<100	U	<170	U	174		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW03		24J0092	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1245918	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19455	RHMW03-WGN01B-2410A	10/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		FC19455	RHMW03-WGN01LF-2410A	10/8/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW03		24J0226	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		B24102001	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		62.29	J	170.5	J	<140	U	<187	U	233		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1246171	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19813	RHMW03-WGN01LF-2410B	10/22/2024	Primary	<50	U	105	J	106	J	86.6	J	<150	U	211		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHMW03		FC19813	RHMW03-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		24K0031	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1246415	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC20217	RHMW03-WGN01LF-2411A	11/5/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW03		FC20217	RHMW03-WGN01B-2411A	11/5/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		24K0146	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1246631	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC20620	RHMW03-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		FC20620	RHMW03-WGN01LF-2411B	11/19/2024	Primary	<50	U	91.8	J	103	J	<100	U	105	J	195		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW03		24L0044	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC21060	RHMW03-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW03		FC21060	RHMW03-WGN01LF-2412A	12/6/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW03

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
	Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
	CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
	Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
	DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
	Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
	Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
	Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW03	(b) (4)	24I0245	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-144265-1	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		1245634	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC19169	RHMW03-WGN01B-2409B	9/26/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC19169	RHMW03-WGN01LF-2409B	9/26/2024	Primary	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	UJ		
RHMW03		24J0092	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		1245918	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC19455	RHMW03-WGN01B-2410A	10/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC19455	RHMW03-WGN01LF-2410A	10/8/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHMW03		24J0226	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		B24102001	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		1246171	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC19813	RHMW03-WGN01LF-2410B	10/22/2024	Primary	<0.38	UJ			<0.38	U			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	UJ			<0.38	UJ			<0.038	U			<0.38	UJ			<0.38	U		
RHMW03		FC19813	RHMW03-WGN01B-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		24K0031	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		1246415	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC20217	RHMW03-WGN01LF-2411A	11/5/2024	Primary	<0.42	UJ			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U		
RHMW03		FC20217	RHMW03-WGN01B-2411A	11/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		24K0146	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		1246631	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC20620	RHMW03-WGN01B-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC20620	RHMW03-WGN01LF-2411B	11/19/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW03		24L0044	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC21060	RHMW03-WGN01B-2412A	12/6/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW03		FC21060	RHMW03-WGN01LF-2412A	12/6/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		1320		1330		190000		ND		190000		47000		ND		1300		1500		50000	
					Maximum	ND		ND		ND		ND		0.3		1820		1740		280000		ND		280000		48000		ND		1800		2000		130000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW03	(b) (4)	24I0245	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		580-144265-1	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		–		–		260000		<7000	U	260000		48000		–		1300		1500		51000	
RHMW03		1245634	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		–		–		–		–		1480		1630		–		–		–		–		–		–		–		–	
RHMW03		FC19169	RHMW03-WGN01B-2409B	9/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19169	RHMW03-WGN01LF-2409B	9/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.3	J	–		–		–		–		–		–		–		–		–		–	
RHMW03		24J0092	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1800		–	
RHMW03		580-144652-1	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		280000		<7000	U	280000		48000		–		1500		–		50000	
RHMW03		1245918	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		1480	J+	1330	J+	–		–		–		–		–		–		–		–	
RHMW03		FC19455	RHMW03-WGN01B-2410A	10/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19455	RHMW03-WGN01LF-2410A	10/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW03		24J0226	RHMW03-WGN01LF-2410B	10/22/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		B24102001	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1700		–	
RHMW03		580-145080-1	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		47000		–		1400		–		130000	
RHMW03		1246171	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		1820		1340	J+	–		–		–		–		–		–		–		–	
RHMW03		FC19813	RHMW03-WGN01LF-2410B	10/22/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW03		FC19813	RHMW03-WGN01B-2410B	10/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		24K0031	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1900		–	
RHMW03		580-145550-1	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		260000		<7000	U	260000		47000	J-	–		1500		–		50000	
RHMW03		1246415	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		1320	J+	1740	J+	–		–		–		–		–		–		–		–	
RHMW03		FC20217	RHMW03-WGN01LF-2411A	11/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW03		FC20217	RHMW03-WGN01B-2411A	11/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		24K0146	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2000		–	
RHMW03		580-145984-1	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		250000		<7000	U	250000		48000		–		1800		–		50000	
RHMW03		1246631	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		1410	J+	1510	J+	–		–		–		–		–		–		–		–	
RHMW03		FC20620	RHMW03-WGN01B-2411B	11/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC20620	RHMW03-WGN01LF-2411B	11/19/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW03		24L0044	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1900		–	
RHMW03		580-146396-1	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		260000		<7000	U	260000		47000		–		1500		–		50000	
RHMW03		FC21060	RHMW03-WGN01B-2412A	12/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC21060	RHMW03-WGN01LF-2412A	12/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW04

						Total Petroleum Hydrocarbons																Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	(b) (4)	FC18395	RHMW04-WGN01B-2408B	8/27/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW04		FC18395	RHMW04-WGN01LF-2408B	8/27/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW04		24I0192	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144075-1	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1245512	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24J0158	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246066	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC19577	RHMW04-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW04		FC19577	RHMW04-WGN01LF-2410A	10/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW04		24J0307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		B24102575	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24K0071	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246509	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20354	RHMW04-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW04		FC20354	RHMW04-WGN01LF-2411A	11/11/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW04		24K0219	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246712	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20885	RHMW04-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW04		FC20885	RHMW04-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW04		24L0078	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246868	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW04

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	(b) (4)	FC18395	RHMW04-WGN01B-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC18395	RHMW04-WGN01LF-2408B	8/27/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW04		24I0192	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144075-1	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1245512	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24J0158	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246066	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC19577	RHMW04-WGN01B-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC19577	RHMW04-WGN01LF-2410A	10/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW04		24J0307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		B24102575	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24K0071	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246509	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20354	RHMW04-WGN01B-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20354	RHMW04-WGN01LF-2411A	11/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04		24K0219	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246712	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20885	RHMW04-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW04		FC20885	RHMW04-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24L0078	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		1246868	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW04

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		76000		ND		76000		70000		ND		510		140		11000	
					Maximum	ND		ND		ND		ND		ND		ND		1910		94000		ND		94000		76000		ND		550		560		11000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW04	(b) (4)	FC18395	RHMW04-WGN01B-2408B	8/27/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC18395	RHMW04-WGN01LF-2408B	8/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24I0192	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		580-144075-1	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		80000		<7000	U	80000		73000		–		530		460	J+	11000	
RHMW04		1245512	RHMW04-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
RHMW04		24J0158	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		510		–		–	
RHMW04		580-144860-1	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		80000		<7000	U	80000		73000		–		540		–		11000	
RHMW04		1246066	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
RHMW04		FC19577	RHMW04-WGN01B-2410A	10/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC19577	RHMW04-WGN01LF-2410A	10/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24J0307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		B24102575	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		560		–		–	
RHMW04		580-145281-1	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		80000		<7000	U	80000		76000		–		550		–		11000	
RHMW04		1246307	RHMW04-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		<750	U	1910		–		–		–		–		–		–		–		–		–	
RHMW04		24K0071	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		140	J	–		–	
RHMW04		580-145726-1	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		71000		–		510		–		11000	
RHMW04		1246509	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
RHMW04		FC20354	RHMW04-WGN01B-2411A	11/11/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20354	RHMW04-WGN01LF-2411A	11/11/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24K0219	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		530		–		–	
RHMW04		580-146154-1	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		76000		<7000	U	76000		76000		–		530		–		11000	
RHMW04		1246712	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	
RHMW04		FC20885	RHMW04-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW04		FC20885	RHMW04-WGN01B-2411B	11/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW04		24L0078	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		520		–		–	
RHMW04		580-146471-1	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		94000		<7000	U	94000		70000		–		520		–		11000	
RHMW04		1246868	RHMW04-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW05

| | | | | | | Total Petroleum Hydrocarbons | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW05

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	(b) (4)	580-144019-1	RHMW05-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		24J0245	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		B24102171	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-145138-1	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-145138-1	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		1246200	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		FC19854	RHMW05-WGN01B-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		FC19854	RHMW05-WGN01LF-2410B	10/23/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW05		24K0036	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-145577-1	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-145577-1	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		1246429	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		FC20258	RHMW05-WGN01LF-2411A	11/6/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW05		FC20258	RHMW05-WGN01B-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		24K0158	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-146023-1	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-146023-1	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		1246643	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		FC20681	RHMW05-WGN01LF-2411B	11/20/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW05		FC20681	RHMW05-WGN01B-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		24L0026	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-146357-1	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-146357-1	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		1246802	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		64000		ND		64000		54000		ND		390		360		11000	
					Maximum	ND		ND		ND		ND		0.17		ND		877		73000		ND		73000		59000		ND		450		430		17000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW05	(b) (4)	580-144019-1	RHMW05-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		70000		<7000	U	70000		59000		–		450		430		14000	
RHMW05		24J0245	RHMW05-WGN01LF-2410B	10/23/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW05		B24102171	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW05		580-145138-1	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		430		–	
RHMW05		580-145138-1	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		55000		–		430		–		17000	
RHMW05		1246200	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW05		FC19854	RHMW05-WGN01B-2410B	10/23/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW05		FC19854	RHMW05-WGN01LF-2410B	10/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW05		24K0036	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW05		580-145577-1	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		360		–	
RHMW05		580-145577-1	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		55000		–		420		–		11000	
RHMW05		1246429	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW05		FC20258	RHMW05-WGN01LF-2411A	11/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW05		FC20258	RHMW05-WGN01B-2411A	11/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW05		24K0158	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW05		580-146023-1	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		420		–	
RHMW05		580-146023-1	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		69000		<7000	U	69000		54000		–		390		–		11000	
RHMW05		1246643	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		<750	U	877	J+	–		–		–		–		–		–		–		–	
RHMW05		FC20681	RHMW05-WGN01LF-2411B	11/20/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.17	J	–		–		–		–		–		–		–		–		–		–	
RHMW05		FC20681	RHMW05-WGN01B-2411B	11/20/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW05		24L0026	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW05		580-146357-1	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		410		–	
RHMW05		580-146357-1	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		73000		<7000	U	73000		58000		–		430		–		13000	
RHMW05		1246802	RHMW05-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		<750	U	869	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW06

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						44.6		ND		ND		–		–		45		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	(b) (4)	580-144063-1	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19003	RHMW06-WGN01LF-2409B	9/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06		FC19003	RHMW06-WGN01B-2409B	9/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		24J0126	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1245988	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19525	RHMW06-WGN01LF-2410A	10/10/2024	Primary	44.6	J	<100	U	<170	U	–		–		45		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW06		FC19525	RHMW06-WGN01B-2410A	10/10/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		24J0245	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		B24102311	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1246226	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19902	RHMW06-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		FC19902	RHMW06-WGN01LF-2410B	10/24/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW06		24K0044	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1246465_Rev1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC20288	RHMW06-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		FC20288	RHMW06-WGN01LF-2411A	11/7/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW06		24K0178	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1246658	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC20750	RHMW06-WGN01LF-2411B	11/21/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW06		FC20750	RHMW06-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		24L0032	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1246830	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC21053	RHMW06-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW06		FC21053	RHMW06-WGN01LF-2412A	12/5/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW06

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHMW06	(b) (4)	580-144063-1	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC19003	RHMW06-WGN01LF-2409B	9/19/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHMW06		FC19003	RHMW06-WGN01B-2409B	9/19/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		24J0126	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		1245988	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC19525	RHMW06-WGN01LF-2410A	10/10/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	UJ		
RHMW06		FC19525	RHMW06-WGN01B-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		24J0245	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		B24102311	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		1246226	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC19902	RHMW06-WGN01B-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC19902	RHMW06-WGN01LF-2410B	10/24/2024	Primary	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	UJ		
RHMW06		24K0044	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		1246465_Rev1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC20288	RHMW06-WGN01B-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC20288	RHMW06-WGN01LF-2411A	11/7/2024	Primary	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	UJ		
RHMW06		24K0178	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		1246658	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC20750	RHMW06-WGN01LF-2411B	11/21/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHMW06		FC20750	RHMW06-WGN01B-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		24L0032	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		1246830	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC21053	RHMW06-WGN01B-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–			
RHMW06		FC21053	RHMW06-WGN01LF-2412A	12/5/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																																			
					Analyte	Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene									
					CAS No.	218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0									
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM									
					DOH Tier 1 EAL	0.24				0.0048				13				250				0.018				250				68									
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L									
					Minimum	ND				ND				ND				ND				ND				ND				ND									
					Maximum	ND				ND				ND				ND				ND				ND				ND									
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result									
RHMW06	(b) (4)	580-144063-1	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC19003	RHMW06-WGN01LF-2409B	9/19/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U								
RHMW06		FC19003	RHMW06-WGN01B-2409B	9/19/2024	Primary	–				–				–				–				–				–				–									
RHMW06		24J0126	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–									
RHMW06		1245988	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC19525	RHMW06-WGN01LF-2410A	10/10/2024	Primary	<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U								
RHMW06		FC19525	RHMW06-WGN01B-2410A	10/10/2024	Primary	–				–				–				–				–				–				–									
RHMW06		24J0245	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		B24102311	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		1246226	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC19902	RHMW06-WGN01B-2410B	10/24/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC19902	RHMW06-WGN01LF-2410B	10/24/2024	Primary	<0.08	U			<0.04	U			<0.4	UJ			<0.4	UJ			<0.04	U			<0.4	UJ			<0.4	U								
RHMW06		24K0044	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–									
RHMW06		1246465_Rev1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC20288	RHMW06-WGN01B-2411A	11/7/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC20288	RHMW06-WGN01LF-2411A	11/7/2024	Primary	<0.08	U			<0.04	U			<0.4	UJ			<0.4	UJ			<0.04	U			<0.4	UJ			<0.4	U								
RHMW06		24K0178	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–									
RHMW06		1246658	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC20750	RHMW06-WGN01LF-2411B	11/21/2024	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U								
RHMW06		FC20750	RHMW06-WGN01B-2411B	11/21/2024	Primary	–				–				–				–				–				–				–									
RHMW06		24L0032	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–									
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–									
RHMW06		1246830	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC21053	RHMW06-WGN01B-2412A	12/5/2024	Primary	–				–				–				–				–				–				–									
RHMW06		FC21053	RHMW06-WGN01LF-2412A	12/5/2024	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U								

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW06

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		100000		ND		100000		380000		ND		520		510		83000	
					Maximum	ND		ND		ND		ND		0.29		318		791		110000		ND		110000		420000		ND		540		590		87000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW06	(b) (4)	580-144063-1	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		420000		–		540		570		83000	
RHMW06		FC19003	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–		–	R	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19003	RHMW06-WGN01B-2409B	9/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24J0126	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		550		–	
RHMW06		580-144753-1	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		400000		–		540		–		85000	
RHMW06		1245988	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW06		FC19525	RHMW06-WGN01LF-2410A	10/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.29	J	–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19525	RHMW06-WGN01B-2410A	10/10/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24J0245	RHMW06-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW06		B24102311	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		590		–	
RHMW06		580-145179-1	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		410000		–		540	J-	–		86000	
RHMW06		1246226	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW06		FC19902	RHMW06-WGN01B-2410B	10/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC19902	RHMW06-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW06		24K0044	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		510		–	
RHMW06		580-145634-1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		400000		–		530		–		87000	
RHMW06		1246465_Rev1	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		318	J	417	J	–		–		–		–		–		–		–		–	
RHMW06		FC20288	RHMW06-WGN01B-2411A	11/7/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC20288	RHMW06-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW06		24K0178	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		590		–	
RHMW06		580-146071-1	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		400000		–		530		–		83000	
RHMW06		1246658	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		<750	U	761	J+	–		–		–		–		–		–		–		–	
RHMW06		FC20750	RHMW06-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW06		FC20750	RHMW06-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24L0032	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		510		–	
RHMW06		580-146381-1	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		380000		–		520		–		83000	
RHMW06		1246830	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		<750	U	791	J+	–		–		–		–		–		–		–		–	
RHMW06		FC21053	RHMW06-WGN01B-2412A	12/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC21053	RHMW06-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW08

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	(b) (4)	24J0024	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-144383-1	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1245728	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		FC19288	RHMW08-WGN01B-2410A	10/1/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW08		FC19288	RHMW08-WGN01LF-2410A	10/1/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW08		24J0215	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		B24101842	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1246154	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		FC19769	RHMW08-WGN01B-2410B	10/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW08		FC19769	RHMW08-WGN01LF-2410B	10/21/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW08		24K0031	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1246372	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		24K0135	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1246607	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		24L0018	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1246742	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		24L0126	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		1246946	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW08

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW08	(b) (4)	24J0024	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-144383-1	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1245728	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		FC19288	RHMW08-WGN01B-2410A	10/1/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		FC19288	RHMW08-WGN01LF-2410A	10/1/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW08		24J0215	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		B24101842	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1246154	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		FC19769	RHMW08-WGN01B-2410B	10/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		FC19769	RHMW08-WGN01LF-2410B	10/21/2024	Primary	<0.42	UJ			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U		
RHMW08		24K0031	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1246372	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		24K0135	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1246607	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		24L0018	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1246742	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		24L0126	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW08		1246946	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW08

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		78000		ND		78000		120000		ND		160		150		22000	
					Maximum	ND		ND		ND		ND		0.52		2940		2290		120000		ND		120000		140000		ND		1100		1000		33000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW08	(b) (4)	24J0024	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		580-144383-1	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		120000		–		960		950		25000	
RHMW08		1245728	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW08		FC19288	RHMW08-WGN01B-2410A	10/1/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW08		FC19288	RHMW08-WGN01LF-2410A	10/1/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW08		24J0215	RHMW08-WGN01LF-2410B	10/21/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		B24101842	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		870		–	
RHMW08		580-145049-1	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		120000		–		930		–		24000	
RHMW08		1246154	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		751	J+	1210	J+	–		–		–		–		–		–		–		–	
RHMW08		FC19769	RHMW08-WGN01B-2410B	10/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW08		FC19769	RHMW08-WGN01LF-2410B	10/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.52		–		–		–		–		–		–		–		–		–		–	
RHMW08		24K0031	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHMW08		580-145507-1	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		78000		<7000	U	78000		140000		–		1100		–		33000	
RHMW08		1246372	RHMW08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		2940		2290		–		–		–		–		–		–		–		–	
RHMW08		24K0135	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		230		–	
RHMW08		580-145928-1	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		120000		–		230		–		23000	
RHMW08		1246607	RHMW08-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		829	J+	938	J+	–		–		–		–		–		–		–		–	
RHMW08		24L0018	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		150	J-	–	
RHMW08		580-146249-1	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		120000		–		160	J	–		22000	
RHMW08		1246742	RHMW08-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		<750	U	993	J+	–		–		–		–		–		–		–		–	
RHMW08		24L0126	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW08		1246946	RHMW08-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW09

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	(b) (4)	24I0192	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-144075-1	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1245512	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24J0024	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-144383-1	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1245728	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19288	RHMW09-WGN01LF-2410A	10/1/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09		FC19288	RHMW09-WGN01B-2410A	10/1/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW09		24J0254	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		B24102311	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW09		580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246277	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19918	RHMW09-WGN01LF-2410B	10/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW09		FC19918	RHMW09-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW09		24K0062	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246509	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC20309	RHMW09-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW09		FC20309	RHMW09-WGN01LF-2411A	11/8/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW09		24K0202	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246682	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC20776	RHMW09-WGN01LF-2411B	11/22/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW09		FC20776	RHMW09-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW09		24L0044	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC21060	RHMW09-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW09		FC21060	RHMW09-WGN01LF-2412A	12/6/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW09

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09	(b) (4)	24I0192	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-144075-1	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1245512	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24J0024	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-144383-1	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1245728	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19288	RHMW09-WGN01LF-2410A	10/1/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09		FC19288	RHMW09-WGN01B-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24J0254	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		B24102311	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246277	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19918	RHMW09-WGN01LF-2410B	10/25/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW09		FC19918	RHMW09-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24K0062	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246509	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC20309	RHMW09-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC20309	RHMW09-WGN01LF-2411A	11/8/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW09		24K0202	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1246682	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC20776	RHMW09-WGN01LF-2411B	11/22/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09		FC20776	RHMW09-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24L0044	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC21060	RHMW09-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC21060	RHMW09-WGN01LF-2412A	12/6/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW09

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		53000		ND		53000		51000		ND		430		420		9200	
					Maximum	ND		ND		ND		ND		ND		ND		760		72000		ND		72000		56000		ND		460		470		22000	
Location		Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW09		(b) (4)	24I0192	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			580-144075-1	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		66000		<7000	U	66000		51000		–		450		450		9300	
RHMW09			1245512	RHMW09-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW09			24J0024	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			580-144383-1	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		56000		–		460		440		9800	
RHMW09			1245728	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW09			FC19288	RHMW09-WGN01LF-2410A	10/1/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW09			FC19288	RHMW09-WGN01B-2410A	10/1/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW09			24J0254	RHMW09-WGN01LF-2410B	10/25/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			B24102311	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09			580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		460		–	
RHMW09			580-145178-1	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		72000		<7000	U	72000		55000		–		450		–		9200	
RHMW09			1246277	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW09			FC19918	RHMW09-WGN01LF-2410B	10/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW09			FC19918	RHMW09-WGN01B-2410B	10/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW09			24K0062	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		420		–	
RHMW09			580-145681-1	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		56000		–		450		–		9600	
RHMW09			1246509	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		<750	U	760	J+	–		–		–		–		–		–		–		–	
RHMW09			FC20309	RHMW09-WGN01B-2411A	11/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW09			FC20309	RHMW09-WGN01LF-2411A	11/8/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW09			24K0202	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		420		–	
RHMW09			580-146101-1	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		71000		<7000	U	71000		56000		–		440	J-	–		9200	
RHMW09			1246682	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW09			FC20776	RHMW09-WGN01LF-2411B	11/22/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW09			FC20776	RHMW09-WGN01B-2411B	11/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW09			24L0044	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW09			580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		470		–	
RHMW09			580-146396-1	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		53000		<7000	U	53000		56000		–		430		–		22000	
RHMW09			FC21060	RHMW09-WGN01B-2412A	12/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW09			FC21060	RHMW09-WGN01LF-2412A	12/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW10

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW10	(b) (4)	FC18647	RHMW10-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW10		FC18647	RHMW10-WGN01LF-2409A	9/6/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10		24J0126	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		1246046	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC19525	RHMW10-WGN01LF-2410A	10/11/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW10		FC19525	RHMW10-WGN01B-2410A	10/11/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW10		24J0254	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		B24102311	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		1246277	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC19918	RHMW10-WGN01LF-2410B	10/25/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHMW10		FC19918	RHMW10-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW10		24K0062	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		1246509	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20309	RHMW10-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW10		FC20309	RHMW10-WGN01LF-2411A	11/8/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHMW10		24K0184	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		1246658	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20750	RHMW10-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW10		FC20750	RHMW10-WGN01LF-2411B	11/21/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
RHMW10		24L0018	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		1246759	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20980	RHMW10-WGN01LF-2412A	12/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW10		FC20980	RHMW10-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW10

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location		Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW10		(b) (4)	FC18647	RHMW10-WGN01B-2409A	9/6/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC18647	RHMW10-WGN01LF-2409A	9/6/2024	Primary	<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.042	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW10			24J0126	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			1246046	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC19525	RHMW10-WGN01LF-2410A	10/11/2024	Primary	<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.042	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHMW10			FC19525	RHMW10-WGN01B-2410A	10/11/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			24J0254	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			B24102311	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			1246277	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC19918	RHMW10-WGN01LF-2410B	10/25/2024	Primary	<0.38	UJ			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	UJ			<0.38	UJ			<0.038	U			<0.38	UJ			<0.38	U		
RHMW10			FC19918	RHMW10-WGN01B-2410B	10/25/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			24K0062	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			1246509	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC20309	RHMW10-WGN01B-2411A	11/8/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC20309	RHMW10-WGN01LF-2411A	11/8/2024	Primary	<0.38	UJ			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	UJ			<0.38	UJ			<0.038	U			<0.38	UJ			<0.38	U		
RHMW10			24K0184	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			1246658	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC20750	RHMW10-WGN01B-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC20750	RHMW10-WGN01LF-2411B	11/21/2024	Primary	<0.38	U			<0.38	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.038	U			<0.077	U			<0.038	U			<0.38	U			<0.38	U			<0.038	U			<0.38	U			<0.38	U		
RHMW10			24L0018	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			1246759	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW10			FC20980	RHMW10-WGN01LF-2412A	12/3/2024	Primary	<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW10			FC20980	RHMW10-WGN01B-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW10

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																	
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		68000		ND		68000		42000		ND		410		370		7000	
					Maximum	ND		ND		ND		ND		ND		ND		821		71000		ND		71000		43000		ND		430		420		7400	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW10	(b) (4)	FC18647	RHMW10-WGN01B-2409A	9/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC18647	RHMW10-WGN01LF-2409A	9/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		24J0126	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW10		580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		400		–	
RHMW10		580-144787-1	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		42000		–		430		–		7000	
RHMW10		1246046	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW10		FC19525	RHMW10-WGN01LF-2410A	10/11/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW10		FC19525	RHMW10-WGN01B-2410A	10/11/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		24J0254	RHMW10-WGN01LF-2410B	10/25/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW10		B24102311	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW10		580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		400		–	
RHMW10		580-145178-1	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		71000		<7000	U	71000		42000		–		430		–		7000	
RHMW10		1246277	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW10		FC19918	RHMW10-WGN01LF-2410B	10/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW10		FC19918	RHMW10-WGN01B-2410B	10/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		24K0062	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW10		580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		400		–	
RHMW10		580-145681-1	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		71000		<7000	U	71000		43000		–		410		–		7000	
RHMW10		1246509	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW10		FC20309	RHMW10-WGN01B-2411A	11/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20309	RHMW10-WGN01LF-2411A	11/8/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW10		24K0184	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW10		580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		420		–	
RHMW10		580-146071-1	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		43000		–		430		–		7100	
RHMW10		1246658	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW10		FC20750	RHMW10-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20750	RHMW10-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW10		24L0018	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW10		580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		370		–	
RHMW10		580-146274-1	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		69000		<7000	U	69000		43000		–		420		–		7400	
RHMW10		1246759	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		<750	U	821	J+	–		–		–		–		–		–		–		–	
RHMW10		FC20980	RHMW10-WGN01LF-2412A	12/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW10		FC20980	RHMW10-WGN01B-2412A	12/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW11-05

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	(b) (4)	24I0192	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144019-1	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24J0107	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1245918	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC19455	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW11-05		24J0245	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		B24102311	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246200	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC19902	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW11-05		24K0044	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246429	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC20258	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW11-05		24K0178	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246643	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC20681	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW11-05		24L0032	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246802	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW11-05

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	(b) (4)	24I0192	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144019-1	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24J0107	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1245918	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC19455	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW11-05		24J0245	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		B24102311	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246200	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC19902	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW11-05		24K0044	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246429	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC20258	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW11-05		24K0178	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246643	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC20681	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW11-05		24L0032	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1246802	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW11-05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		0.2		ND		ND		110000		ND		110000		52000		ND		ND		ND		11000	
					Maximum	ND		ND		ND		ND		0.85		1170		1660		130000		ND		130000		55000		ND		ND		ND		18000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	(b) (4)	24I0192	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		580-144019-1	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		55000		–		<120	U	<120	U	18000	
RHMW11-05		24J0107	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<90	UJ	–	
RHMW11-05		580-144652-1	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		55000		–		<120	U	–		11000	
RHMW11-05		1245918	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		<750	U	1140	J+	–		–		–		–		–		–		–		–	
RHMW11-05		FC19455	RHMW11-05-WGN01G-2410A	10/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.85		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24J0245	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		B24102311	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW11-05		580-145138-1	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		54000		–		<120	U	–		11000	
RHMW11-05		1246200	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		<750	U	1660	J+	–		–		–		–		–		–		–		–	
RHMW11-05		FC19902	RHMW11-05-WGN01G-2410B	10/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.58		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24K0044	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW11-05		580-145577-1	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		54000	J-	–		<120	U	–		11000	
RHMW11-05		1246429	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		<750	U	1110	J+	–		–		–		–		–		–		–		–	
RHMW11-05		FC20258	RHMW11-05-WGN01G-2411A	11/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.2	J	–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24K0178	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW11-05		580-146023-1	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		54000		–		<120	U	–		11000	
RHMW11-05		1246643	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		1170	J+	777	J+	–		–		–		–		–		–		–		–	
RHMW11-05		FC20681	RHMW11-05-WGN01G-2411B	11/20/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.23	J	–		–		–		–		–		–		–		–		–		–	
RHMW11-05		24L0032	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHMW11-05		580-146357-1	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		52000		–		<120	U	–		11000	
RHMW11-05		1246802	RHMW11-05-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW12A

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
	Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
	CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
	Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
	DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	(b) (4)	24I0256	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144292-1	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1245703	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC19168	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW12A		24J0201	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246155	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC19723	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW12A		24K0003	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		B24110059	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246341	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		24K0124	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246607	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC20518	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW12A		24K0219	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246712	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC20885	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW12A		24L0115	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246946	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW12A

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	(b) (4)	24I0256	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144292-1	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1245703	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC19168	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHMW12A		24J0201	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246155	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC19723	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW12A		24K0003	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		B24110059	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246341	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		24K0124	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246607	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC20518	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW12A		24K0219	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246712	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		FC20885	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW12A		24L0115	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		1246946	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW12A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		61000		ND		61000		49000		ND		350		290		7700	
					Maximum	ND		ND		ND		ND		ND		ND		1580		70000		ND		70000		54000		ND		370		410		8500	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW12A	(b) (4)	24I0256	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		580-144292-1	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		67000		<7000	U	67000		51000		–		350		410	J+	8200	
RHMW12A		1245703	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW12A		FC19168	RHMW12A-WGN01LF-2409B	9/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW12A		24J0201	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		330		–	
RHMW12A		580-144992-1	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		–		–		70000		<7000	U	70000		51000		–		370		–		8000	
RHMW12A		1246155	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW12A		FC19723	RHMW12A-WGN01LF-2410A	10/18/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW12A		24K0003	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		B24110059	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		360		–	
RHMW12A		580-145397-1	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		62000		<7000	U	62000		50000		–		360		–		7900	
RHMW12A		1246341	RHMW12A-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW12A		24K0124	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		340		–	
RHMW12A		580-145872-1	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		54000		–		360		–		8500	J+
RHMW12A		1246607	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		–		–		–		–		<750	U	1580	J+	–		–		–		–		–		–		–		–	
RHMW12A		FC20518	RHMW12A-WGN01LF-2411A	11/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW12A		24K0219	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		360		–	
RHMW12A		580-146154-1	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		51000		–		360		–		7900	
RHMW12A		1246712	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	806	J+	–		–		–		–		–		–		–		–	
RHMW12A		FC20885	RHMW12A-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW12A		24L0115	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		290		–	
RHMW12A		580-146618-1	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		49000		–		350		–		7700	
RHMW12A		1246946	RHMW12A-WGN01LF-2412A	12/13/2024	Primary	–		–		–		–		–		<750	U	900	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW13

						Total Petroleum Hydrocarbons																Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-04	(b) (4)	FC18346	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW13-04		24I0201	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144156-1	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1245512	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19039	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW13-04		24J0136	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246046	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19552	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW13-04		24J0307	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		B24102429	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246277	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19960	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW13-04		24K0086	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246530	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC20403	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW13-04		24K0202	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246682	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC20788	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW13-04		24L0078	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC21099	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW13

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-04	(b) (4)	FC18346	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04		24I0201	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144156-1	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1245512	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19039	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHMW13-04		24J0136	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246046	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19552	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW13-04		24J0307	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		B24102429	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246277	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC19960	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW13-04		24K0086	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246530	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC20403	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04		24K0202	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1246682	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC20788	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW13-04		24L0078	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC21099	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW13

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		71000		ND		71000		50000		ND		380		290		6600	
					Maximum	ND		ND		ND		ND		ND		930		1300		79000		ND		79000		52000		ND		400		390		7700	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW13-04	(b) (4)	FC18346	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24I0201	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		580-144156-1	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		77000		<7000	U	77000		51000		–		380	J-	360		7200	
RHMW13-04		1245512	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		–		–		–		–		<750	U	1300	J+	–		–		–		–		–		–		–		–	
RHMW13-04		FC19039	RHMW13-04-WGN01G-2409B	9/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24J0136	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		290		–	
RHMW13-04		580-144834-1	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		51000		–		400		–		7300	
RHMW13-04		1246046	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		–		–		–		–		<750	U	811	J+	–		–		–		–		–		–		–		–	
RHMW13-04		FC19552	RHMW13-04-WGN01G-2410A	10/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24J0307	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		B24102429	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		360		–	
RHMW13-04		580-145231-1	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		78000		<7000	U	78000		50000		–		400		–		7000	
RHMW13-04		1246277	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		–		–		–		–		<750	U	839	J+	–		–		–		–		–		–		–		–	
RHMW13-04		FC19960	RHMW13-04-WGN01G-2410B	10/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24K0086	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		390		–	
RHMW13-04		580-145767-1	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		71000		<7000	U	71000		52000		–		380		–		7700	
RHMW13-04		1246530	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW13-04		FC20403	RHMW13-04-WGN01G-2411A	11/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24K0202	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		380		–	
RHMW13-04		580-146101-1	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		77000		<7000	U	77000		51000		–		380	J-	–		7300	
RHMW13-04		1246682	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		–		–		–		–		930	J+	<750	U	–		–		–		–		–		–		–		–	
RHMW13-04		FC20788	RHMW13-04-WGN01G-2411B	11/22/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW13-04		24L0078	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		380		–	
RHMW13-04		580-146438-1	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		51000		–		400		–		6600	J+
RHMW13-04		FC21099	RHMW13-04-WGN01G-2412A	12/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW14-03

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03	(b) (4)	580-144019-1	RHMW14-03-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		24J0092	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		1245918	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		FC19455	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW14-03		24J0245	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		B24102171	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		<143	U	<190	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		1246200	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		FC19854	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW14-03		24K0036	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		1246429	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		FC20258	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW14-03		24K0158	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		1246643	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		FC20681	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW14-03		24L0026	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03		1246802	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW14-03

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location		Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW14-03		(b) (4)	580-144019-1	RHMW14-03-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			24J0092	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			1245918	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			FC19455	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW14-03			24J0245	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			B24102171	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			1246200	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			FC19854	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW14-03			24K0036	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			1246429	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			FC20258	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW14-03			24K0158	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			1246643	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			FC20681	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW14-03			24L0026	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			1246802	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW14-03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		60000		ND		60000		46000		ND		430		380		7700	
					Maximum	ND		ND		ND		ND		ND		2480		2560		64000		ND		64000		46000		ND		440		460		7800	
Location		Lab	SDG	Sample ID	Sampling Date	Type																														
RHMW14-03		(b) (4)	580-144019-1	RHMW14-03-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		46000		–		440		430		7800	
RHMW14-03			24J0092	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW14-03			580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		420		–	
RHMW14-03			580-144652-1	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		46000		–		440		–		7700	
RHMW14-03			1245918	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		<750	U	821	J+	–		–		–		–		–		–		–		–	
RHMW14-03			FC19455	RHMW14-03-WGN01G-2410A	10/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW14-03			24J0245	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW14-03			B24102171	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW14-03			580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		460		–	
RHMW14-03			580-145138-1	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		62000		<7000	U	62000		46000		–		440		–		7800	
RHMW14-03			1246200	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		–		–		–		–		<750	U	1960		–		–		–		–		–		–		–		–	
RHMW14-03			FC19854	RHMW14-03-WGN01G-2410B	10/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW14-03			24K0036	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW14-03			580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		380		–	
RHMW14-03			580-145577-1	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		60000		<7000	U	60000		46000		–		430		–		7800	
RHMW14-03			1246429	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		–		–		–		–		<750	U	2560		–		–		–		–		–		–		–		–	
RHMW14-03			FC20258	RHMW14-03-WGN01G-2411A	11/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW14-03			24K0158	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW14-03			580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		410		–	
RHMW14-03			580-146023-1	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		60000		<7000	U	60000		46000		–		440		–		7800	
RHMW14-03			1246643	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		–		–		–		–		2480	J+	<750	U	–		–		–		–		–		–		–		–	
RHMW14-03			FC20681	RHMW14-03-WGN01G-2411B	11/20/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW14-03			24L0026	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	UJ	–		–		–	
RHMW14-03			580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		410		–	
RHMW14-03			580-146357-1	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		46000		–		440		–		7800	
RHMW14-03			1246802	RHMW14-03-WGN01G-2412A	12/4/2024	Primary	–		–		–		–		–		825	J+	987	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW15-05

						Total Petroleum Hydrocarbons												Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	(b) (4)	24J0092	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1245891	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC19455	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05		24J0215	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		B24101842	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		<146	U	<194	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246154	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC19769	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW15-05		24K0031	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246415	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC20217	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW15-05		24K0135	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246607	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		24L0018	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246742	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246946	RHMW15-05-WGN01G-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW15-05

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05	(b) (4)	24J0092	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1245891	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC19455	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05		24J0215	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		B24101842	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246154	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC19769	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05		24K0031	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246415	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC20217	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05		24K0135	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246607	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		24L0018	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246742	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1246946	RHMW15-05-WGN01G-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW15-05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		62000		ND		62000		55000		ND		380		330		9100	
					Maximum	ND		ND		ND		ND		ND		1220		3920		65000		ND		65000		56000		ND		410		380		9300	
Location		Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW15-05		(b) (4)	24J0092	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW15-05			580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		55000		–		400		–		9200	
RHMW15-05			580-144598-1	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05			1245891	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		–		–		–		–		<750	U	1370		–		–		–		–		–		–		–		–	
RHMW15-05			FC19455	RHMW15-05-WGN01G-2410A	10/7/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05			24J0215	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW15-05			B24101842	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05			580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		350		–	
RHMW15-05			580-145049-1	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		55000		–		410		–		9300	
RHMW15-05			1246154	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW15-05			FC19769	RHMW15-05-WGN01G-2410B	10/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05			24K0031	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW15-05			580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		380		–	
RHMW15-05			580-145550-1	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		62000		<7000	U	62000		55000		–		400		–		9200	
RHMW15-05			1246415	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		1220	J+	<750	U	–		–		–		–		–		–		–		–	
RHMW15-05			FC20217	RHMW15-05-WGN01G-2411A	11/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05			24K0135	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW15-05			580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		350		–	
RHMW15-05			580-145928-1	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		56000		–		390		–		9300	
RHMW15-05			1246607	RHMW15-05-WGN01G-2411B	11/18/2024	Primary	–		–		–		–		–		<750	U	2380	J+	–		–		–		–		–		–		–		–	
RHMW15-05			24L0018	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW15-05			580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		330		–	
RHMW15-05			580-146249-1	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		55000		–		380		–		9100	
RHMW15-05			1246742	RHMW15-05-WGN01G-2412A	12/2/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW15-05			1246946	RHMW15-05-WGN01G-2412B	12/16/2024	Primary	–		–		–		–		–		<750	U	3920		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW16

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
	Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
	CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
	Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
	DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	[redacted]	580-144063-1	RHMW16-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC19003	RHMW16-WGN01LF-2409B	9/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW16	[redacted]	24J0126	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	1245988	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC19525	RHMW16-WGN01LF-2410A	10/10/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW16	[redacted]	24J0254	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	B24102311	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	1246226	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC19902	RHMW16-WGN01LF-2410B	10/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW16	[redacted]	24K0044	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	1246465_Rev1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC20288	RHMW16-WGN01LF-2411A	11/7/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW16	[redacted]	24K0178	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	1246643	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC20681	RHMW16-WGN01LF-2411B	11/20/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW16	[redacted]	24L0032	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	1246830	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16	[redacted]	FC21053	RHMW16-WGN01LF-2412A	12/5/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW16

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
	Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
	CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
	Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
	DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
	Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
	Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
	Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHMW16	(b) (4)	580-144063-1	RHMW16-WGN01LF-2409B	9/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC19003	RHMW16-WGN01LF-2409B	9/19/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHMW16		24J0126	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		1245988	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC19525	RHMW16-WGN01LF-2410A	10/10/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHMW16		24J0254	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		B24102311	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		1246226	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC19902	RHMW16-WGN01LF-2410B	10/24/2024	Primary	<0.42	UJ			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U		
RHMW16		24K0044	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		1246465_Rev1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC20288	RHMW16-WGN01LF-2411A	11/7/2024	Primary	<0.4	UJ			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	UJ			<0.4	UJ			<0.04	U			<0.4	UJ			<0.4	U		
RHMW16		24K0178	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		1246643	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC20681	RHMW16-WGN01LF-2411B	11/20/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		
RHMW16		24L0032	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		1246830	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHMW16		FC21053	RHMW16-WGN01LF-2412A	12/5/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW16

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		57000		ND		57000		68000		ND		330		250		9700	
					Maximum	ND		ND		ND		ND		0.38		ND		695		68000		ND		68000		72000		ND		340		370		10000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW16	(b) (4)	580-144063-1	RHMW16-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		71000		–		340		370		10000	
RHMW16		FC19003	RHMW16-WGN01LF-2409B	9/19/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW16		24J0126	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW16		580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		260	J-	–	
RHMW16		580-144753-1	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		57000		<7000	U	57000		68000		–		330		–		9700	
RHMW16		1245988	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW16		FC19525	RHMW16-WGN01LF-2410A	10/10/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	0.38	J	–		–		–		–		–		–		–		–		–		–	
RHMW16		24J0254	RHMW16-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW16		B24102311	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		350		–	
RHMW16		580-145179-1	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		59000		<7000	U	59000		72000		–		340	J-	10000			
RHMW16		1246226	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW16		FC19902	RHMW16-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW16		24K0044	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW16		580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		290		–	
RHMW16		580-145634-1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		59000		<7000	U	59000		71000		–		330		–		10000	
RHMW16		1246465_Rev1	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		<750	U	695	J	–		–		–		–		–		–		–		–	
RHMW16		FC20288	RHMW16-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW16		24K0178	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW16		580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		330		–	
RHMW16		580-146023-1	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		60000		<7000	U	60000		72000		–		330		–		9800	
RHMW16		1246643	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW16		FC20681	RHMW16-WGN01LF-2411B	11/20/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW16		24L0032	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW16		580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		250		–	
RHMW16		580-146381-1	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		72000		–		330		–		10000	
RHMW16		1246830	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW16		FC21053	RHMW16-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW17

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		119		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		257		115		147		ND		372		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	(b) (4)	FC18346	RHMW17-WGN01B-2408B	8/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC18346	RHMW17-WGN01LF-2408B	8/26/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17		FC18346	RHMW17-WGFD01B-2408B	8/26/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC18346	RHMW17-WGFD01LF-2408B	8/26/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW17		2401201	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-144156-1	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		1245512	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19039	RHMW17-WGN01LF-2409B	9/23/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17		FC19039	RHMW17-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC19039	RHMW17-WGFD01B-2409B	9/23/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC19039	RHMW17-WGFD01LF-2409B	9/23/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17		24J0136	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		1246046	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19552	RHMW17-WGN01LF-2410A	10/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17		FC19552	RHMW17-WGN01B-2410A	10/14/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC19552	RHMW17-WGFD01B-2410A	10/14/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC19552	RHMW17-WGFD01LF-2410A	10/14/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW17		24J0270	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		B24102429	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		1246277	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGN01LF-2410B	10/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW17		FC19960	RHMW17-WGN01B-2410B	10/28/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		24J0270	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		B24102429	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGFD01B-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC19960	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW17		24K0086	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		1246530	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20403	RHMW17-WGN01LF-2411A	11/12/2024	Primary	<50	U	178	J	94.9	J	119	J	<170	UJ	273		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17		FC20403	RHMW17-WGN01B-2411A	11/12/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC20403	RHMW17-WGFD01LF-2411A	11/12/2024	Field Duplicate	<50	U	257	J-	115	J	147	J	<170	UJ	372		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17		FC20403	RHMW17-WGFD01B-2411A	11/12/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		24K0184	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		1246682	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20776	RHMW17-WGN01LF-2411B	11/22/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
RHMW17		FC20776	RHMW17-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC20776	RHMW17-WGFD01B-2411B	11/22/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC20776	RHMW17-WGFD01LF-2411B	11/22/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
RHMW17		24L0055	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC21099	RHMW17-WGN01LF-2412A	12/9/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17		FC21099	RHMW17-WGN01B-2412A	12/9/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW17		FC21099	RHMW17-WGFD01LF-2412A	12/9/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW17		FC21099	RHMW17-WGFD01B-2412A	12/9/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW17

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene			
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68			
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW17	(b) (4)	FC18346	RHMW17-WGN01B-2408B	8/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC18346	RHMW17-WGN01LF-2408B	8/26/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHMW17		FC18346	RHMW17-WGFD01B-2408B	8/26/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC18346	RHMW17-WGFD01LF-2408B	8/26/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHMW17		2410201	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-144156-1	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		1245512	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19039	RHMW17-WGN01LF-2409B	9/23/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
RHMW17		FC19039	RHMW17-WGN01B-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19039	RHMW17-WGFD01B-2409B	9/23/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19039	RHMW17-WGFD01LF-2409B	9/23/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
RHMW17		24J0136	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		1246046	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19552	RHMW17-WGN01LF-2410A	10/14/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHMW17		FC19552	RHMW17-WGN01B-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19552	RHMW17-WGFD01B-2410A	10/14/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19552	RHMW17-WGFD01LF-2410A	10/14/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHMW17		24J0270	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		B24102429	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		1246277	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19960	RHMW17-WGN01LF-2410B	10/28/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW17		FC19960	RHMW17-WGN01B-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		24J0270	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		B24102429	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19960	RHMW17-WGFD01B-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC19960	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW17		24K0086	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		1246530	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC20403	RHMW17-WGN01LF-2411A	11/12/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW17		FC20403	RHMW17-WGN01B-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC20403	RHMW17-WGFD01LF-2411A	11/12/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW17		FC20403	RHMW17-WGFD01B-2411A	11/12/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		24K0184	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		1246682	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC20776	RHMW17-WGN01LF-2411B	11/22/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U		
RHMW17		FC20776	RHMW17-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC20776	RHMW17-WGFD01B-2411B	11/22/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC20776	RHMW17-WGFD01LF-2411B	11/22/2024	Field Duplicate	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U		
RHMW17		24L0055	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC21099	RHMW17-WGN01LF-2412A	12/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW17		FC21099	RHMW17-WGN01B-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW17		FC21099	RHMW17-WGFD01LF-2412A	12/9/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW17		FC21099	RHMW17-WGFD01B-2412A	12/9/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW17

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		100000		ND		100000		45000		ND		100		120		12000	
					Maximum	ND		ND		ND		ND		0.26		1900		2450		110000		ND		110000		49000		ND		200		220		15000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW17	(b) (4)	FC18346	RHMW17-WGN01B-2408B	8/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC18346	RHMW17-WGN01LF-2408B	8/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.26	J	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC18346	RHMW17-WGFD01B-2408B	8/26/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC18346	RHMW17-WGFD01LF-2408B	8/26/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		2410201	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		580-144156-1	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		46000		–		100	J-	220		14000	
RHMW17		1245512	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW17		FC19039	RHMW17-WGN01LF-2409B	9/23/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19039	RHMW17-WGN01B-2409B	9/23/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19039	RHMW17-WGFD01B-2409B	9/23/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19039	RHMW17-WGFD01LF-2409B	9/23/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24J0136	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		120	J-	–	
RHMW17		580-144834-1	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		47000		–		180	J	–		14000	
RHMW17		1246046	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW17		FC19552	RHMW17-WGN01LF-2410A	10/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19552	RHMW17-WGN01B-2410A	10/14/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19552	RHMW17-WGFD01B-2410A	10/14/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19552	RHMW17-WGFD01LF-2410A	10/14/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24J0270	RHMW17-WGN01LF-2410B	10/28/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		B24102429	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		150		–	
RHMW17		580-145231-1	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		46000		–		200		–		14000	
RHMW17		1246277	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGN01LF-2410B	10/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGN01B-2410B	10/28/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24J0270	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		B24102429	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGFD01B-2410B	10/28/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC19960	RHMW17-WGFD01LF-2410B	10/28/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24K0086	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		200		–	
RHMW17		580-145767-1	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		49000		–		190	J	–		15000	
RHMW17		1246530	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		–		–		–		–		1900	J+	2450	J+	–		–		–		–		–		–		–		–	
RHMW17		FC20403	RHMW17-WGN01LF-2411A	11/12/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20403	RHMW17-WGN01B-2411A	11/12/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20403	RHMW17-WGFD01LF-2411A	11/12/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20403	RHMW17-WGFD01B-2411A	11/12/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24K0184	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		130	J	–	
RHMW17		580-146101-1	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		46000		–		140	J-	–		14000	
RHMW17		1246682	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW17		FC20776	RHMW17-WGN01LF-2411B	11/22/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20776	RHMW17-WGN01B-2411B	11/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20776	RHMW17-WGFD01B-2411B	11/22/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC20776	RHMW17-WGFD01LF-2411B	11/22/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		24L0055	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		120	J	–	
RHMW17		580-146438-1	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		45000		–		150	J	–		12000	
RHMW17		FC21099	RHMW17-WGN01LF-2412A	12/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW17		FC21099	RHMW17-WGN01B-2412A	12/9/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC21099	RHMW17-WGFD01LF-2412A	12/9/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW17		FC21099	RHMW17-WGFD01B-2412A	12/9/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW18

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW18	(b) (4)	24I0233	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-144202-1	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1245584	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC19169	RHMW18-WGN01B-2409B	9/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW18		FC19169	RHMW18-WGN01LF-2409B	9/25/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW18		24J0196	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1246127	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC19703	RHMW18-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW18		FC19703	RHMW18-WGN01LF-2410A	10/17/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW18		24K0003	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		B24102634	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1246315	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		24K0115	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1246572	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC20484	RHMW18-WGN01LF-2411A	11/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW18		FC20484	RHMW18-WGN01B-2411A	11/14/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW18		24K0219	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-146154-1	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-146154-1	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1246712	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC20885	RHMW18-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW18		FC20885	RHMW18-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW18		24L0108	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		1246921	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC21264	RHMW18-WGN01LF-2412A	12/12/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW18		FC21264	RHMW18-WGN01B-2412A	12/12/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW18

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene			
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68			
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW18	(b) (4)	24I0233	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-144202-1	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1245584	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC19169	RHMW18-WGN01B-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC19169	RHMW18-WGN01LF-2409B	9/25/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
RHMW18		24J0196	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1246127	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC19703	RHMW18-WGN01B-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC19703	RHMW18-WGN01LF-2410A	10/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHMW18		24K0003	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		B24102634	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1246315	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		24K0115	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1246572	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC20484	RHMW18-WGN01LF-2411A	11/14/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW18		FC20484	RHMW18-WGN01B-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		24K0219	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-146154-1	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-146154-1	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1246712	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC20885	RHMW18-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW18		FC20885	RHMW18-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		24L0108	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1246921	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC21264	RHMW18-WGN01LF-2412A	12/12/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	UJ	<0.4	U	<0.4	U		
RHMW18		FC21264	RHMW18-WGN01B-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW18

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																	
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		29000		ND		97000		36000		ND		270		160		8500	
					Maximum	ND		ND		ND		ND		0.27		ND		1310		97000		91000		120000		37000		ND		320		340		34000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW18	[redacted]	24I0233	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		580-144202-1	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		–		–		97000		<7000	U	97000		37000		–		270		340		34000	
RHMW18		1245584	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW18		FC19169	RHMW18-WGN01B-2409B	9/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC19169	RHMW18-WGN01LF-2409B	9/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW18		24J0196	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		220		–	
RHMW18		580-144954-1	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		–		–		29000		91000		120000		36000		–		270		–		9900	
RHMW18		1246127	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		–		–		–		–		<750	U	1310	J+	–		–		–		–		–		–		–		–	
RHMW18		FC19703	RHMW18-WGN01B-2410A	10/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW18		FC19703	RHMW18-WGN01LF-2410A	10/17/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.27	J	–		–		–		–		–		–		–		–		–		–	
RHMW18		24K0003	RHMW18-WGN01LF-2410B	10/30/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		B24102634	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		240		–	
RHMW18		580-145334-1	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		46000		65000		110000		37000		–		310		–		9000	
RHMW18		1246315	RHMW18-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW18		24K0115	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		160		–	
RHMW18		580-145831-1	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		39000		70000		110000		37000		–		290		–		8800	
RHMW18		1246572	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		<750	U	1010	J+	–		–		–		–		–		–		–		–	
RHMW18		FC20484	RHMW18-WGN01LF-2411A	11/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW18		FC20484	RHMW18-WGN01B-2411A	11/14/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW18		24K0219	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		580-146154-1	RHMW18-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		300		–	
RHMW18		580-146154-1	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		33000		83000		120000		37000		–		320		–		8500	
RHMW18		1246712	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW18		FC20885	RHMW18-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW18		FC20885	RHMW18-WGN01B-2411B	11/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW18		24L0108	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		240		–	
RHMW18		580-146568-1	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		29000		85000		110000		36000		–		310		–		8700	
RHMW18		1246921	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW18		FC21264	RHMW18-WGN01LF-2412A	12/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW18		FC21264	RHMW18-WGN01B-2412A	12/12/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW19

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	(b) (4)	FC18647	RHMW19-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		FC18647	RHMW 19-WGN01LF-2409A	9/6/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19		24J0126	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246046	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19525	RHMW19-WGN01B-2410A	10/11/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		FC19525	RHMW 19-WGN01LF-2410A	10/11/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW19		24J0254	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		B24102311	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246277	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19918	RHMW19-WGN01LF-2410B	10/25/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHMW19		FC19918	RHMW 19-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		24K0062	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246509	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20309	RHMW 19-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		FC20309	RHMW 19-WGN01LF-2411A	11/8/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHMW19		24K0184	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246682	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20776	RHMW19-WGN01LF-2411B	11/22/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHMW19		FC20776	RHMW 19-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		24L0044	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC21060	RHMW 19-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW19		FC21060	RHMW 19-WGN01LF-2412A	12/6/2024	Primary	<50	U	<110	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW19

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	(b) (4)	FC18647	RHMW19-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC18647	RHMW19-WGN01LF-2409A	9/6/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW19		24J0126	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246046	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19525	RHMW19-WGN01B-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19525	RHMW19-WGN01LF-2410A	10/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW19		24J0254	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		B24102311	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246277	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19918	RHMW19-WGN01LF-2410B	10/25/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHMW19		FC19918	RHMW19-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		24K0062	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246509	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20309	RHMW19-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20309	RHMW19-WGN01LF-2411A	11/8/2024	Primary	<0.38	UJ	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U
RHMW19		24K0184	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1246682	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20776	RHMW19-WGN01LF-2411B	11/22/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW19		FC20776	RHMW19-WGN01B-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		24L0044	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC21060	RHMW19-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC21060	RHMW19-WGN01LF-2412A	12/6/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW19

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		65000		ND		65000		43000		ND		370		350		6800	
					Maximum	ND		ND		ND		ND		ND		ND		1550		73000		ND		73000		43000		ND		400		380		7000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW19	(b) (4)	FC18647	RHMW19-WGN01B-2409A	9/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		FC18647	RHMW19-WGN01LF-2409A	9/6/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		24J0126	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		370		–	
RHMW19		580-144787-1	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		–		–		73000		<7000	U	73000		43000		–		400		–		6800	
RHMW19		1246046	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW19		FC19525	RHMW19-WGN01B-2410A	10/11/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19525	RHMW19-WGN01LF-2410A	10/11/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		24J0254	RHMW19-WGN01LF-2410B	10/25/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW19		B24102311	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		360		–	
RHMW19		580-145178-1	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		73000		<7000	U	73000		43000		–		400		–		6800	
RHMW19		1246277	RHMW19-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		<750	U	1080	J+	–		–		–		–		–		–		–		–	
RHMW19		FC19918	RHMW19-WGN01B-2410B	10/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		FC19918	RHMW19-WGN01B-2410B	10/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW19		24K0062	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		370		–	
RHMW19		580-145681-1	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		43000		–		380		–		7000	
RHMW19		1246509	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		<750	U	1550	J+	–		–		–		–		–		–		–		–	
RHMW19		FC20309	RHMW19-WGN01B-2411A	11/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20309	RHMW19-WGN01LF-2411A	11/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		24K0184	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		350		–	
RHMW19		580-146101-1	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		–		–		70000		<7000	U	70000		43000		–		370	J-	–		6900	
RHMW19		1246682	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW19		FC20776	RHMW19-WGN01LF-2411B	11/22/2024	Primary	–		<2	UJ	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW19		FC20776	RHMW19-WGN01B-2411B	11/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW19		24L0044	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		380		–	
RHMW19		580-146396-1	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		43000		–		390		–		6800	
RHMW19		FC21060	RHMW19-WGN01B-2412A	12/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC21060	RHMW19-WGN01LF-2412A	12/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW20

						Total Petroleum Hydrocarbons																Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	(b) (4)	FC18439	RHMW20-WGN01LF-2408B	8/28/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW20		FC18439	RHMW20-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW20		24I0217	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144160-1	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1245554	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19169	RHMW20-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW20		FC19169	RHMW20-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW20		24J0172	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246090	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19654	RHMW20-WGN01LF-2410A	10/16/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW20		FC19654	RHMW20-WGN01B-2410A	10/16/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW20		24K0008	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		B24110059	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246341	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0099	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246543	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0219	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246712	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC20885	RHMW20-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHMW20		FC20885	RHMW20-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW20		24L0085	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246896	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW20

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	(b) (4)	FC18439	RHMW20-WGN01LF-2408B	8/28/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW20		FC18439	RHMW20-WGN01B-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24I0217	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144160-1	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1245554	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19169	RHMW20-WGN01B-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19169	RHMW20-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHMW20		24J0172	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246090	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19654	RHMW20-WGN01LF-2410A	10/16/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW20		FC19654	RHMW20-WGN01B-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0008	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		B24110059	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246341	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0099	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246543	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0219	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246712	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC20885	RHMW20-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW20		FC20885	RHMW20-WGN01B-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24L0085	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1246896	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW20

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		88000		ND		88000		480000		ND		330		390		56000	
					Maximum	ND		ND		ND		ND		0.17		ND		1170		100000		ND		100000		500000		ND		410		720		62000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	(b) (4)	FC18439	RHMW20-WGN01LF-2408B	8/28/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW20		FC18439	RHMW20-WGN01B-2408B	8/28/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24I0217	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		580-144160-1	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		88000		<7000	U	88000		480000		–		410		720	J	61000	
RHMW20		1245554	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		<750	U	1170	J+	–		–		–		–		–		–		–		–	
RHMW20		FC19169	RHMW20-WGN01B-2409B	9/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19169	RHMW20-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW20		24J0172	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		390		–	
RHMW20		580-144901-1	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		99000		<7000	U	99000		490000		–		410		–		62000	
RHMW20		1246090	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW20		FC19654	RHMW20-WGN01LF-2410A	10/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.17	J	–		–		–		–		–		–		–		–		–		–	
RHMW20		FC19654	RHMW20-WGN01B-2410A	10/16/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24K0008	RHMW20-WGN01LF-2410B	10/31/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		B24110059	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		400		–	
RHMW20		580-145397-1	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		–		–		90000		<7000	U	90000		500000		–		400		–		56000	
RHMW20		1246341	RHMW20-WGN01LF-2410B	10/31/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW20		24K0099	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		480		–	
RHMW20		580-145801-1	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		480000		–		400		–		60000	
RHMW20		1246543	RHMW20-WGN01LF-2411A	11/13/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW20		24K0219	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		430		–	
RHMW20		580-146154-1	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		98000		<7000	U	98000		490000		–		330		–		60000	
RHMW20		1246712	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW20		FC20885	RHMW20-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW20		FC20885	RHMW20-WGN01B-2411B	11/26/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24L0085	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		410		–	
RHMW20		580-146533-1	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		–		–		92000		<7000	U	92000		480000		–		380		–		61000	
RHMW20		1246896	RHMW20-WGN01LF-2412A	12/11/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
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Groundwater Sampling: RHMW21

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		79.29		ND		ND		ND		79		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW21	(b) (4)	24J0092	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1245891	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGN01B-2410A	10/7/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW21		FC19455	RHMW21-WGN01LF-2410A	10/7/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW21		FC19455	RHMW21-WGFD01LF-2410A	10/7/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW21		FC19455	RHMW21-WGFD01B-2410A	10/7/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW21		24J0215	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		B24102001	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		79.29	J	<190	U	<143	U	<190	U	79		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246154	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19813	RHMW21-WGN01B-2410B	10/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW21		FC19813	RHMW21-WGN01LF-2410B	10/21/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW21		24K0031	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246372	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		24K0135	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246607	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		24L0018	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246742	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246946	RHMW21-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW21

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW21	(b) (4)	24J0092	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1245891	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGN01B-2410A	10/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGN01LF-2410A	10/7/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW21		FC19455	RHMW21-WGFD01LF-2410A	10/7/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW21		FC19455	RHMW21-WGFD01B-2410A	10/7/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		24J0215	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		B24102001	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246154	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19813	RHMW21-WGN01B-2410B	10/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		FC19813	RHMW21-WGN01LF-2410B	10/21/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW21		24K0031	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246372	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		24K0135	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246607	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		24L0018	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246742	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW21		1246946	RHMW21-WGN01LF-2412B	12/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW21

| | | | | | | Fuel Additive | | | | Lead Scavengers | | | | Natural Attenuation Parameters | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW21

Analyte		Total Calcium		Total Magnesium		Total Manganese		Total Potassium		Total Sodium	
CAS No.		7440-70-2		7439-95-4		7439-96-5		7440-09-7		7440-23-5	
Method		SW6010D		SW6010D		SW6010D		SW6010D		SW6010D	
DOH Tier 1 EAL		—		—		—		—		—	
Units		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum		–		–		–		–		–	
Maximum		–		–		–		–		–	
Location	Lab	SDG	Sample ID	Sampling Date	Type		Result		Result		Result		Result		Result	
RHMW21	(b) (4)	24J0092	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		580-144598-1	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		1245891	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGN01B-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGN01LF-2410A	10/7/2024	Primary	–	–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGFD01LF-2410A	10/7/2024	Field Duplicate	–	–		–		–		–		–	
RHMW21		FC19455	RHMW21-WGFD01B-2410A	10/7/2024	Field Duplicate	–	–		–		–		–		–	
RHMW21		24J0215	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		B24102001	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145049-1	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		1246154	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		FC19813	RHMW21-WGN01B-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		FC19813	RHMW21-WGN01LF-2410B	10/21/2024	Primary	–	–		–		–		–		–	
RHMW21		24K0031	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145507-1	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–	–		–		–		–		–	
RHMW21		1246372	RHMW21-WGN01LF-2411A	11/4/2024	Primary	–	–		–		–		–		–	
RHMW21		24K0135	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–	–		–		–		–		–	
RHMW21		580-145928-1	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–	–		–		–		–		–	
RHMW21		1246607	RHMW21-WGN01LF-2411B	11/18/2024	Primary	–	–		–		–		–		–	
RHMW21		24L0018	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–	–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–	–		–		–		–		–	
RHMW21		580-146249-1	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–	–		–		–		–		–	
RHMW21		1246742	RHMW21-WGN01LF-2412A	12/2/2024	Primary	–	–		–		–		–		–	
RHMW21		1246946	RHMW21-WGN01LF-2412B	12/16/2024	Primary	–	–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW2254-01

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	(b) (4)	24J0092	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1245918	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19455	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW2254-01		FC19455	RHMW2254-01-WGN01B-2410A	10/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW2254-01		24J0226	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		B24102001	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		<143	U	<190	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246171	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19813	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW2254-01		FC19813	RHMW2254-01-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW2254-01		24K0031	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246415	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01B-2411A	11/5/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHMW2254-01		24K0146	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246631	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20620	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHMW2254-01		FC20620	RHMW2254-01-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW2254-01		24L0044	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC21060	RHMW2254-01-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHMW2254-01		FC21060	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW2254-01

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	(b) (4)	24J0092	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1245918	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19455	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW2254-01		FC19455	RHMW2254-01-WGN01B-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24J0226	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		B24102001	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246171	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19813	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW2254-01		FC19813	RHMW2254-01-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24K0031	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246415	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW2254-01		24K0146	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		1246631	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20620	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW2254-01		FC20620	RHMW2254-01-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24L0044	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC21060	RHMW2254-01-WGN01B-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC21060	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHMW2254-01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		61000		ND		61000		93000		ND		560		550		16000	
					Maximum	ND		ND		ND		ND		ND		ND		845		69000		ND		69000		100000		ND		600		630		17000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW2254-01	(b) (4)	24J0092	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		580		–	
RHMW2254-01		580-144652-1	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		66000		<7000	U	66000		100000		–		600		–		17000	
RHMW2254-01		1245918	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW2254-01		FC19455	RHMW2254-01-WGN01LF-2410A	10/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19455	RHMW2254-01-WGN01B-2410A	10/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24J0226	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW2254-01		B24102001	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		550		–	
RHMW2254-01		580-145080-1	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		99000		–		600		–		17000	
RHMW2254-01		1246171	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW2254-01		FC19813	RHMW2254-01-WGN01LF-2410B	10/22/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC19813	RHMW2254-01-WGN01B-2410B	10/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24K0031	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		630		–	
RHMW2254-01		580-145550-1	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		69000		<7000	U	69000		98000		–		600		–		17000	
RHMW2254-01		1246415	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01B-2411A	11/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20217	RHMW2254-01-WGN01LF-2411A	11/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24K0146	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		630		–	
RHMW2254-01		580-145984-1	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		100000		–		590		–		17000	
RHMW2254-01		1246631	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		<750	U	845	J+	–		–		–		–		–		–		–		–	
RHMW2254-01		FC20620	RHMW2254-01-WGN01LF-2411B	11/19/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC20620	RHMW2254-01-WGN01B-2411B	11/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		24L0044	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	UJ	–		–		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		610		–	
RHMW2254-01		580-146396-1	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		67000		<7000	U	67000		93000		–		560		–		16000	
RHMW2254-01		FC21060	RHMW2254-01-WGN01B-2412A	12/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHMW2254-01		FC21060	RHMW2254-01-WGN01LF-2412A	12/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHSF-PUMP

						Total Petroleum Hydrocarbons																Volatile Organic Compounds																Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF-PUMP	(b) (4)	24J0092	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1245918	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19455	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHSF-PUMP		FC19455	RHSF-PUMP-WGFD01G-2410A	10/8/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHSF-PUMP		24J0226	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		B24102001	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		<145	U	<193	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246171	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19813	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHSF-PUMP		24K0031	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246415	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20217	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHSF-PUMP		24K0146	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246631	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20620	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHSF-PUMP		24L0044	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC21060	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHSF-PUMP

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF-PUMP	(b) (4)	24J0092	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1245918	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19455	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHSF-PUMP		FC19455	RHSF-PUMP-WGFD01G-2410A	10/8/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHSF-PUMP		24J0226	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		B24102001	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246171	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19813	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHSF-PUMP		24K0031	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246415	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20217	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	<0.42	UJ	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHSF-PUMP		24K0146	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		1246631	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20620	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHSF-PUMP		24L0044	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC21060	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHSF-PUMP

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																	
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		63000		ND		63000		95000		ND		580		570		16000	
					Maximum	ND		ND		ND		ND		0.19		ND		757		75000		ND		75000		110000		ND		610		630		17000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHSF-PUMP	(b) (4)	24J0092	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		590		–	
RHSF-PUMP		580-144652-1	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		110000		–		600		–		17000	
RHSF-PUMP		1245918	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19455	RHSF-PUMP-WGN01G-2410A	10/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.19	J	–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19455	RHSF-PUMP-WGFD01G-2410A	10/8/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		24J0226	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHSF-PUMP		B24102001	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		570		–	
RHSF-PUMP		580-145080-1	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		98000		–		600		–		17000	
RHSF-PUMP		1246171	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		–		–		–		–		<750	U	757	J+	–		–		–		–		–		–		–		–	
RHSF-PUMP		FC19813	RHSF-PUMP-WGN01G-2410B	10/22/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		24K0031	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		600		–	
RHSF-PUMP		580-145550-1	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		–		–		75000		<7000	U	75000		99000		–		610		–		17000	
RHSF-PUMP		1246415	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20217	RHSF-PUMP-WGN01G-2411A	11/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		24K0146	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		610		–	
RHSF-PUMP		580-145984-1	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		100000		–		590		–		17000	
RHSF-PUMP		1246631	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHSF-PUMP		FC20620	RHSF-PUMP-WGN01G-2411B	11/19/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHSF-PUMP		24L0044	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		630		–	
RHSF-PUMP		580-146396-1	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		–		–		–		–		–		–		65000		<7000	U	65000		95000		–		580		–		16000	
RHSF-PUMP		FC21060	RHSF-PUMP-WGN01G-2412A	12/6/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP01

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		194.7		301.4		ND		ND		496		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP01	(b) (4)	580-144063-1	RHP01-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC19003	RHP01-WGN01B-2409B	9/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP01		FC19003	RHP01-WGN01LF-2409B	9/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01		24J0064	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		1245801	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC19366	RHP01-WGN01LF-2410A	10/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP01		FC19366	RHP01-WGN01B-2410A	10/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP01		24J0254	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		B24102311	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		194.7	J	301.4		<140	U	<187	U	496		–		–		–		–		–		–		–		–		–		–	
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		1246226	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC19902	RHP01-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP01		FC19902	RHP01-WGN01LF-2410B	10/24/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP01		24K0062	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		1246465_Rev1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC20288	RHP01-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP01		FC20288	RHP01-WGN01LF-2411A	11/7/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHP01		24K0184	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		1246658	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC20750	RHP01-WGN01LF-2411B	11/21/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP01		FC20750	RHP01-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP01		24L0032	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		1246830	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC21053	RHP01-WGN01LF-2412A	12/5/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP01		FC21053	RHP01-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP01

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
	Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
	CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
	Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
	DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36				0.24				0.0048				13				250				0.018				250				68			
	Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
	Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
	Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHP01	(b) (4)	580-144063-1	RHP01-WGN01LF-2409B	9/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC19003	RHP01-WGN01B-2409B	9/19/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC19003	RHP01-WGN01LF-2409B	9/19/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHP01		24J0064	RHP01-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		1245801	RHP01-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC19366	RHP01-WGN01LF-2410A	10/3/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHP01		FC19366	RHP01-WGN01B-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		24J0254	RHP01-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		B24102311	RHP01-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		1246226	RHP01-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC19902	RHP01-WGN01B-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC19902	RHP01-WGN01LF-2410B	10/24/2024	Primary	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	UJ			<0.4	UJ			<0.04	U			<0.4	UJ			<0.4	U		
RHP01		24K0062	RHP01-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		1246465_Rev1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC20288	RHP01-WGN01B-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC20288	RHP01-WGN01LF-2411A	11/7/2024	Primary	<0.42	UJ			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	UJ			<0.042	U			<0.42	UJ			<0.42	U		
RHP01		24K0184	RHP01-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		1246658	RHP01-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC20750	RHP01-WGN01LF-2411B	11/21/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		
RHP01		FC20750	RHP01-WGN01B-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		24L0032	RHP01-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		1246830	RHP01-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP01		FC21053	RHP01-WGN01LF-2412A	12/5/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		
RHP01		FC21053	RHP01-WGN01B-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP01

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		773		150000		ND		150000		69000		ND		900		770		60000	
					Maximum	ND		ND		ND		ND		ND		1690		1080		160000		ND		160000		73000		ND		940		980		62000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP01	(b) (4)	580-144063-1	RHP01-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		73000		–		920		870		62000	
RHP01		FC19003	RHP01-WGN01B-2409B	9/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC19003	RHP01-WGN01LF-2409B	9/19/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		24J0064	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		950		–	
RHP01		580-144479-1	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		69000		–		900		–		60000	
RHP01		1245801	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		<750	U	949	J+	–		–		–		–		–		–		–		–	
RHP01		FC19366	RHP01-WGN01LF-2410A	10/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		FC19366	RHP01-WGN01B-2410A	10/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP01		24J0254	RHP01-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP01		B24102311	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		950		–	
RHP01		580-145175-1	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		70000		–		940	J-	–		60000	
RHP01		1246226	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		<750	U	1080	J+	–		–		–		–		–		–		–		–	
RHP01		FC19902	RHP01-WGN01B-2410B	10/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC19902	RHP01-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		24K0062	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		860		–	
RHP01		580-145634-1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		72000	J-	–		910		–		62000	J-
RHP01		1246465_Rev1	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		818	J	992	J	–		–		–		–		–		–		–		–	
RHP01		FC20288	RHP01-WGN01B-2411A	11/7/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP01		FC20288	RHP01-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		24K0184	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		980		–	
RHP01		580-146071-1	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		150000		<7000	U	150000		73000		–		930		–		62000	
RHP01		1246658	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		1690	J+	1060	J+	–		–		–		–		–		–		–		–	
RHP01		FC20750	RHP01-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		FC20750	RHP01-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP01		24L0032	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		770	J-	–	
RHP01		580-146381-1	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		160000		<7000	U	160000		72000		–		900		–		62000	
RHP01		1246830	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		<750	U	773	J+	–		–		–		–		–		–		–		–	
RHP01		FC21053	RHP01-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP01		FC21053	RHP01-WGN01B-2412A	12/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP02

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP02	(b) (4)	FC18647	RHP02-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		FC18647	RHP02-WGN01LF-2409A	9/6/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02		580-144063-1	RHP02-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC19003	RHP02-WGN01LF-2409B	9/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02		FC19003	RHP02-WGN01B-2409B	9/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		24J0064	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-144479-1	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-144479-1	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		1245801	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC19366	RHP02-WGN01LF-2410A	10/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP02		FC19366	RHP02-WGN01B-2410A	10/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		24J0254	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		B24102311	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		<148	U	<198	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHP02		580-145175-1	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-145175-1	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		1246226	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC19902	RHP02-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		FC19902	RHP02-WGN01LF-2410B	10/24/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP02		24K0044	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-145634-1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-145634-1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		1246465_Rev1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC20288	RHP02-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		FC20288	RHP02-WGN01LF-2411A	11/7/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP02		24K0178	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-146071-1	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-146071-1	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		1246658	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC20750	RHP02-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		FC20750	RHP02-WGN01LF-2411B	11/21/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
RHP02		24L0032	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-146381-1	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-146381-1	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		1246830	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC21053	RHP02-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP02		FC21053	RHP02-WGN01LF-2412A	12/5/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP02

| | | | | | | Polynuclear Aromatic Hydrocarbons (PAHs) – Additional | | | | | |

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP02

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																	
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		811		963		170000		ND		170000		77000		ND		670		640		69000	
					Maximum	ND		ND		ND		ND		ND		865		1210		190000		ND		190000		80000		ND		720		810		70000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP02	(b) (4)	FC18647	RHP02-WGN01B-2409A	9/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC18647	RHP02-WGN01LF-2409A	9/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP02		580-144063-1	RHP02-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		79000		–		700		810		70000	
RHP02		FC19003	RHP02-WGN01LF-2409B	9/19/2024	Primary	–		<1.9	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC19003	RHP02-WGN01B-2409B	9/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		24J0064	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP02		580-144479-1	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		720		–	
RHP02		580-144479-1	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		170000		<7000	U	170000		80000		–		690		–		69000	
RHP02		1245801	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		852	J+	1090	J+	–		–		–		–		–		–		–		–	
RHP02		FC19366	RHP02-WGN01LF-2410A	10/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP02		FC19366	RHP02-WGN01B-2410A	10/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		24J0254	RHP02-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP02		B24102311	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP02		580-145175-1	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		740		–	
RHP02		580-145175-1	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		79000		–		720	J-	–		69000	
RHP02		1246226	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		845	J+	990	J+	–		–		–		–		–		–		–		–	
RHP02		FC19902	RHP02-WGN01B-2410B	10/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC19902	RHP02-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP02		24K0044	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP02		580-145634-1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		670		–	
RHP02		580-145634-1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		79000		–		690		–		70000	
RHP02		1246465_Rev1	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		865	J	1040		–		–		–		–		–		–		–		–	
RHP02		FC20288	RHP02-WGN01B-2411A	11/7/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC20288	RHP02-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP02		24K0178	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP02		580-146071-1	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		720		–	
RHP02		580-146071-1	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		190000		<7000	U	190000		77000		–		700		–		70000	
RHP02		1246658	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		820	J+	1210	J+	–		–		–		–		–		–		–		–	
RHP02		FC20750	RHP02-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC20750	RHP02-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP02		24L0032	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP02		580-146381-1	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		640		–	
RHP02		580-146381-1	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		180000		<7000	U	180000		78000		–		670		–		70000	
RHP02		1246830	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		811	J+	963	J+	–		–		–		–		–		–		–		–	
RHP02		FC21053	RHP02-WGN01B-2412A	12/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP02		FC21053	RHP02-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP03

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
	Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
	CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
	Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
	DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	(b) (4)	580-144063-1	RHP03-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19003	RHP03-WGN01B-2409B	9/19/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP03		FC19003	RHP03-WGN01LF-2409B	9/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP03		24J0107	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1245952	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19455	RHP03-WGN01B-2410A	10/9/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP03		FC19455	RHP03-WGN01LF-2410A	10/9/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP03		24J0245	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		B24102311	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246226	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19902	RHP03-WGN01LF-2410B	10/24/2024	Primary	<50	U	<110	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHP03		FC19902	RHP03-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP03		24K0044	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246465_Rev1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC20288	RHP03-WGN01LF-2411A	11/7/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP03		FC20288	RHP03-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP03		24K0184	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246658	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC20750	RHP03-WGN01LF-2411B	11/21/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	U
RHP03		FC20750	RHP03-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP03		24L0032	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246830	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC21053	RHP03-WGN01LF-2412A	12/5/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP03		FC21053	RHP03-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP03

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	(b) (4)	580-144063-1	RHP03-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19003	RHP03-WGN01B-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19003	RHP03-WGN01LF-2409B	9/19/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U	<0.42	U
RHP03		24J0107	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1245952	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19455	RHP03-WGN01B-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19455	RHP03-WGN01LF-2410A	10/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP03		24J0245	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		B24102311	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246226	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19902	RHP03-WGN01LF-2410B	10/24/2024	Primary	<0.38	UJ	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U
RHP03		FC19902	RHP03-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		24K0044	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246465_Rev1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC20288	RHP03-WGN01LF-2411A	11/7/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP03		FC20288	RHP03-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		24K0184	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246658	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC20750	RHP03-WGN01LF-2411B	11/21/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
RHP03		FC20750	RHP03-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		24L0032	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		1246830	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC21053	RHP03-WGN01LF-2412A	12/5/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP03		FC21053	RHP03-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP03

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		140000		ND		140000		220000		ND		890		880		39000	
					Maximum	ND		ND		ND		ND		ND		519		1060		170000		ND		170000		270000		ND		1000		1200		40000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	(b) (4)	580-144063-1	RHP03-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		270000		–		1000		1200		40000	
RHP03		FC19003	RHP03-WGN01B-2409B	9/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19003	RHP03-WGN01LF-2409B	9/19/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP03		24J0107	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHP03		580-144708-1	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		160000		<7000	U	160000		220000		–		1000		–		39000	
RHP03		1245952	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP03		FC19455	RHP03-WGN01B-2410A	10/9/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP03		FC19455	RHP03-WGN01LF-2410A	10/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP03		24J0245	RHP03-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP03		B24102311	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1100		–	
RHP03		580-145179-1	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		170000		<7000	U	170000		230000		–		1000	J-	–		39000	
RHP03		1246226	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP03		FC19902	RHP03-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP03		FC19902	RHP03-WGN01B-2410B	10/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP03		24K0044	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		960		–	
RHP03		580-145634-1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		160000		<7000	U	160000		230000		–		890		–		40000	
RHP03		1246465_Rev1	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		519	J	1060		–		–		–		–		–		–		–		–	
RHP03		FC20288	RHP03-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP03		FC20288	RHP03-WGN01B-2411A	11/7/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP03		24K0184	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHP03		580-146071-1	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		170000		<7000	U	170000		230000		–		1000		–		39000	
RHP03		1246658	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP03		FC20750	RHP03-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP03		FC20750	RHP03-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP03		24L0032	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		880		–	
RHP03		580-146381-1	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		170000		<7000	U	170000		230000		–		970		–		39000	
RHP03		1246830	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		<750	U	780	J+	–		–		–		–		–		–		–		–	
RHP03		FC21053	RHP03-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	UJ	–		–		–		–		–		–		–		–		–		–	
RHP03		FC21053	RHP03-WGN01B-2412A	12/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04A

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
	Analyte	GRO				DRO				ORO				DRO with Silica Gel Cleanup				ORO with Silica Gel Cleanup				Total Petroleum Hydrocarbons (TPH) Calculation				Benzene				Ethylbenzene				Toluene				Xylenes				1,2,4-Trimethylbenzene				1,3,5-Trimethylbenzene				1-Methylnaphthalene				2-Methylnaphthalene				Naphthalene			
	CAS No.	PHCC6C10				PHCC10C24				PHCC24C40				PHCC10C24SGC				PHCC24C40SGC				—				71-43-2				100-41-4				108-88-3				1330-20-7				95-63-6				108-67-8				90-12-0				91-57-6				91-20-3			
	Method	8260				8015				8015				8015				8015				Calculated				8260				8260				8260				8260				8260				8260				8270 SIM				8270 SIM				8270 SIM			
	DOH Tier 1 EAL	—				—				—				—				—				193				5				30				40				20				—				—				10				10				17			
	Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
	Minimum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
	Maximum	ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result				Result			
RHP04A	(b) (4)	24J0107	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		1245952	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		FC19455	RHP04A-WGN01B-2410A	10/9/2024	Primary	–				–				–				–				–				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			–				–				–			
RHP04A		FC19455	RHP04A-WGN01LF-2410A	10/9/2024	Primary	<50	U			<100	U			<170	U			–				–				ND				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			<0.42	U			<0.42	U			<0.42	U	
RHP04A		24J0245	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		B24102311	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–				<141	U			<189	U			<141	U			<189	U			ND				–				–				–				–				–				–				–				–			
RHP04A		580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		1246226	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		FC19902	RHP04A-WGN01B-2410B	10/24/2024	Primary	–				–				–				–				–				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			–				–				–			
RHP04A		FC19902	RHP04A-WGN01LF-2410B	10/24/2024	Primary	<50	U			<100	U			<160	U			–				–				ND				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			<0.4	U			<0.4	U			<0.4	UJ	
RHP04A		24K0044	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		1246465_Rev1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		FC20288	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–				–				–				–				–				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			–				–				–			
RHP04A		FC20288	RHP04A-WGN01LF-2411A	11/7/2024	Primary	<50	U			<96	U			<150	U			–				–				ND				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			<0.38	U			<0.38	U			<0.38	UJ	
RHP04A		24K0178	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		1246658	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		FC20750	RHP04A-WGN01B-2411B	11/21/2024	Primary	–				–				–				–				–				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			–				–				–			
RHP04A		FC20750	RHP04A-WGN01LF-2411B	11/21/2024	Primary	<50	U			<100	U			<170	U			–				–				ND				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			<0.4	U			<0.4	U			<0.4	U	
RHP04A		24L0032	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		1246830	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–				–				–				–				–				–				–				–				–				–				–				–				–				–			
RHP04A		FC21053	RHP04A-WGN01B-2412A	12/5/2024	Primary	–				–				–				–				–				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			–				–				–			
RHP04A		FC21053	RHP04A-WGN01LF-2412A	12/5/2024	Primary	<50	U			<100	U			<160	U			–				–				ND				<0.5	U			<0.5	U			<0.5	U			<1.5	U			<0.5	U			<0.5	U			<0.4	UJ			<0.4	UJ			<0.4	U	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04A

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04A	(b) (4)	24J0107	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		1245952	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC19455	RHP04A-WGN01B-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC19455	RHP04A-WGN01LF-2410A	10/9/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP04A		24J0245	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		B24102311	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		1246226	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC19902	RHP04A-WGN01B-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC19902	RHP04A-WGN01LF-2410B	10/24/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP04A		24K0044	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		1246465_Rev1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC20288	RHP04A-WGN01B-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC20288	RHP04A-WGN01LF-2411A	11/7/2024	Primary	<0.38	UJ	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U
RHP04A		24K0178	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		1246658	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC20750	RHP04A-WGN01B-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC20750	RHP04A-WGN01LF-2411B	11/21/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04A		24L0032	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		1246830	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC21053	RHP04A-WGN01B-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A		FC21053	RHP04A-WGN01LF-2412A	12/5/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04A

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		130000		ND		130000		180000		ND		960		840		43000	
					Maximum	ND		ND		ND		ND		0.17		549		1170		130000		ND		130000		190000		ND		1000		1000		45000	
Location		Lab	SDG	Sample ID	Sampling Date	Type																													
RHP04A		(b) (4)	24J0107	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04A			580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHP04A			580-144708-1	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		180000	J-	–		1000		–		44000	
RHP04A			1245952	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		–		–		–		–		<750	U	1080	J+	–		–		–		–		–		–		–		–	
RHP04A			FC19455	RHP04A-WGN01B-2410A	10/9/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP04A			FC19455	RHP04A-WGN01LF-2410A	10/9/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP04A			24J0245	RHP04A-WGN01LF-2410B	10/24/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04A			B24102311	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04A			580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHP04A			580-145179-1	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		180000		–		1000	J-	–		45000	
RHP04A			1246226	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP04A			FC19902	RHP04A-WGN01B-2410B	10/24/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP04A			FC19902	RHP04A-WGN01LF-2410B	10/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP04A			24K0044	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04A			580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		940		–		–	
RHP04A			580-145634-1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		180000		–		960		–		44000	
RHP04A			1246465_Rev1	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		–		–		–		–		549	J	707	J	–		–		–		–		–		–		–		–	
RHP04A			FC20288	RHP04A-WGN01B-2411A	11/7/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP04A			FC20288	RHP04A-WGN01LF-2411A	11/7/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP04A			24K0178	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04A			580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		1000		–	
RHP04A			580-146071-1	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		190000		–		980		–		44000	
RHP04A			1246658	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		–		–		–		–		<750	U	1170	J+	–		–		–		–		–		–		–		–	
RHP04A			FC20750	RHP04A-WGN01B-2411B	11/21/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP04A			FC20750	RHP04A-WGN01LF-2411B	11/21/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP04A			24L0032	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04A			580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		840		–			
RHP04A			580-146381-1	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		190000		–		960		–		43000	
RHP04A			1246830	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP04A			FC21053	RHP04A-WGN01B-2412A	12/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP04A			FC21053	RHP04A-WGN01LF-2412A	12/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.17	J	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04B

						Total Petroleum Hydrocarbons																Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		67		ND		ND		ND		67		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04B	(b) (4)	FC18395	RHP04B-WGN01LF-2408B	8/27/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B		1245258_Rev1	RHP04B-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		24I0217	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1245554	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC19169	RHP04B-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B		24J0158	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246066	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC19577	RHP04B-WGN01LF-2410A	10/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04B		24J0307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		B24102575	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		67	J	<189	U	<141	U	<189	U	67		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		24K0071	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246509	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC20354	RHP04B-WGN01LF-2411A	11/11/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04B		24K0219	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246712	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC20885	RHP04B-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04B		24L0078	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246868	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04B

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04B	(b) (4)	FC18395	RHP04B-WGN01LF-2408B	8/27/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04B		1245258_Rev1	RHP04B-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		24I0217	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1245554	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC19169	RHP04B-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHP04B		24J0158	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246066	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC19577	RHP04B-WGN01LF-2410A	10/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP04B		24J0307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		B24102575	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		24K0071	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246509	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC20354	RHP04B-WGN01LF-2411A	11/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04B		24K0219	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246712	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC20885	RHP04B-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04B		24L0078	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1246868	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04B

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		1.1		1870		2000		68000		ND		68000		90000		ND		ND		ND		26000	
					Maximum	ND		ND		ND		ND		1.5		2380		3020		110000		ND		110000		92000		ND		ND		1100		62000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04B	(b) (4)	FC18395	RHP04B-WGN01LF-2408B	8/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.5		–		–		–		–		–		–		–		–		–		–	
RHP04B		1245258_Rev1	RHP04B-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		2380		2430		–		–		–		–		–		–		–		–	
RHP04B		24I0217	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<90	UJ	–	
RHP04B		580-144160-1	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		94000		<7000	U	94000		90000	J-	–		–	R	–		27000	J-
RHP04B		1245554	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		2260		3020		–		–		–		–		–		–		–		–	
RHP04B		FC19169	RHP04B-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.3		–		–		–		–		–		–		–		–		–		–	
RHP04B		24J0158	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHP04B		580-144860-1	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		68000		<7000	U	68000		91000		–		<120	U	–		62000	
RHP04B		1246066	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		2170		2270		–		–		–		–		–		–		–		–	
RHP04B		FC19577	RHP04B-WGN01LF-2410A	10/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.3		–		–		–		–		–		–		–		–		–		–	
RHP04B		24J0307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		B24102575	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHP04B		580-145281-1	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		94000		<7000	U	94000		90000		–		<120	U	–		27000	
RHP04B		1246307	RHP04B-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		2320		2500		–		–		–		–		–		–		–		–	
RHP04B		24K0071	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1100	J-	–	
RHP04B		580-145726-1	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		90000		–		<120	U	–		26000	
RHP04B		1246509	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		2350	J+	2700	J+	–		–		–		–		–		–		–		–	
RHP04B		FC20354	RHP04B-WGN01LF-2411A	11/11/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.2		–		–		–		–		–		–		–		–		–		–	
RHP04B		24K0219	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHP04B		580-146154-1	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		93000		<7000	U	93000		92000		–		<120	U	–		26000	
RHP04B		1246712	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		1940		2000		–		–		–		–		–		–		–		–	
RHP04B		FC20885	RHP04B-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.1		–		–		–		–		–		–		–		–		–		–	
RHP04B		24L0078	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		<120	U	–	
RHP04B		580-146471-1	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		97000		<7000	U	97000		90000		–		<120	U	–		26000	
RHP04B		1246868	RHP04B-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		1870		2390		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04C

						Total Petroleum Hydrocarbons																Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04C	(b) (4)	FC18395	RHP04C-WGN01LF-2408B	8/27/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04C		1245258_Rev1	RHP04C-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		24I0217	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1245554	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC19169	RHP04C-WGN01LF-2409B	9/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C		24J0158	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246066	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC19577	RHP04C-WGN01LF-2410A	10/15/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP04C		24J0321	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		B24102575	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		<154	U	<206	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246307	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		24K0071	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246509	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC20354	RHP04C-WGN01LF-2411A	11/11/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04C		24K0219	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246712	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC20885	RHP04C-WGN01LF-2411B	11/26/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP04C		24L0078	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246868	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04C

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04C	(b) (4)	FC18395	RHP04C-WGN01LF-2408B	8/27/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C		1245258_Rev1	RHP04C-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		24I0217	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1245554	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC19169	RHP04C-WGN01LF-2409B	9/24/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHP04C		24J0158	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246066	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC19577	RHP04C-WGN01LF-2410A	10/15/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP04C		24J0321	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		B24102575	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246307	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		24K0071	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246509	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC20354	RHP04C-WGN01LF-2411A	11/11/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C		24K0219	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246712	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC20885	RHP04C-WGN01LF-2411B	11/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP04C		24L0078	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1246868	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP04C

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		783		883		72000		ND		72000		320000		ND		110		85		69000	
					Maximum	ND		ND		ND		ND		0.37		1040		1350		96000		ND		96000		340000		ND		130		740		71000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP04C	(b) (4)	FC18395	RHP04C-WGN01LF-2408B	8/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.3	J	–		–		–		–		–		–		–		–		–		–	
RHP04C		1245258_Rev1	RHP04C-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		981	J	1100	J+	–		–		–		–		–		–		–		–	
RHP04C		24I0217	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		85	J-	–	
RHP04C		580-144160-1	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		–		–		81000		<7000	U	81000		340000	J-	–		110	J-	–		71000	J-
RHP04C		1245554	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		–		–		–		–		1040	J+	1160	J+	–		–		–		–		–		–		–		–	
RHP04C		FC19169	RHP04C-WGN01LF-2409B	9/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.19	J	–		–		–		–		–		–		–		–		–		–	
RHP04C		24J0158	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		110	J	–	
RHP04C		580-144860-1	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		340000		–		130	J	–		70000	
RHP04C		1246066	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		–		–		–		–		913	J+	1040	J+	–		–		–		–		–		–		–		–	
RHP04C		FC19577	RHP04C-WGN01LF-2410A	10/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.2	J	–		–		–		–		–		–		–		–		–		–	
RHP04C		24J0321	RHP04C-WGN01LF-2410B	10/29/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		B24102575	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		140	J	–	
RHP04C		580-145281-1	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		320000		–		120	J	–		69000	
RHP04C		1246307	RHP04C-WGN01LF-2410B	10/29/2024	Primary	–		–		–		–		–		903	J+	1270	J+	–		–		–		–		–		–		–		–	
RHP04C		24K0071	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		740		–	
RHP04C		580-145726-1	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		–		–		72000		<7000	U	72000		340000		–		130	J	–		69000	
RHP04C		1246509	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		–		–		–		–		893	J+	1350	J+	–		–		–		–		–		–		–		–	
RHP04C		FC20354	RHP04C-WGN01LF-2411A	11/11/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP04C		24K0219	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		100	J	–	
RHP04C		580-146154-1	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		–		–		76000		<7000	U	76000		340000		–		120	J	–		69000	
RHP04C		1246712	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		–		–		–		–		783	J+	921	J+	–		–		–		–		–		–		–		–	
RHP04C		FC20885	RHP04C-WGN01LF-2411B	11/26/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.37	J	–		–		–		–		–		–		–		–		–		–	
RHP04C		24L0078	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		140	J	–	
RHP04C		580-146471-1	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		–		–		96000		<7000	U	96000		340000		–		120	J	–		69000	
RHP04C		1246868	RHP04C-WGN01LF-2412A	12/10/2024	Primary	–		–		–		–		–		815	J+	883	J+	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP05

						Total Petroleum Hydrocarbons																		Volatile Organic Compounds																		Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs								
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		305		150		289		131		455		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP05	(b) (4)	24J0126	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		1245988	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC19525	RHP05-WGN01LF-2410A	10/10/2024	Primary	<50	U	<100	UJ	<170	UJ	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP05		FC19525	RHP05-WGN01B-2410A	10/10/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		24J0254	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		B24102311	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		<140	U	<187	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		1246277	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC19918	RHP05-WGN01LF-2410B	10/25/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHP05		FC19918	RHP05-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		24K0062	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		1246509	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20309	RHP05-WGN01LF-2411A	11/8/2024	Primary	<50	U	305	J	150	J	289		131	J	455		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP05		FC20309	RHP05-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		FC20309	RHP05-WGFD01LF-2411A	11/8/2024	Field Duplicate	<50	U	78.1	J	<160	U	<98	U	<160	U	78		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	U	<0.38	U	<0.38	UJ
RHP05		FC20309	RHP05-WGFD01B-2411A	11/8/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		24K0146	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		1246631	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20620	RHP05-WGN01LF-2411B	11/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP05		FC20620	RHP05-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		FC20620	RHP05-WGFD01LF-2411B	11/19/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP05		FC20620	RHP05-WGFD01B-2411B	11/19/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		24L0018	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		1246759	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20980	RHP05-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP05		FC20980	RHP05-WGN01LF-2412A	12/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP05		FC20980	RHP05-WGFD01LF-2412A	12/3/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP05		FC20980	RHP05-WGFD01B-2412A	12/3/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP05

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
Analyte						Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene			
CAS No.						83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0			
Method						8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM			
DOH Tier 1 EAL						20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68			
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L			
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Maximum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHP05	(b) (4)	24J0126	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		1245988	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC19525	RHP05-WGN01LF-2410A	10/10/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHP05		FC19525	RHP05-WGN01B-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		24J0254	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		B24102311	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		1246277	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC19918	RHP05-WGN01LF-2410B	10/25/2024	Primary	<0.38	UJ	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U		
RHP05		FC19918	RHP05-WGN01B-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		24K0062	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		1246509	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20309	RHP05-WGN01LF-2411A	11/8/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U		
RHP05		FC20309	RHP05-WGN01B-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20309	RHP05-WGFD01LF-2411A	11/8/2024	Field Duplicate	<0.38	UJ	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	UJ	<0.38	UJ	<0.038	U	<0.38	UJ	<0.38	U		
RHP05		FC20309	RHP05-WGFD01B-2411A	11/8/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		24K0146	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		1246631	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20620	RHP05-WGN01LF-2411B	11/19/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHP05		FC20620	RHP05-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20620	RHP05-WGFD01LF-2411B	11/19/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
RHP05		FC20620	RHP05-WGFD01B-2411B	11/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		24L0018	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		1246759	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20980	RHP05-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP05		FC20980	RHP05-WGN01LF-2412A	12/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP05		FC20980	RHP05-WGFD01LF-2412A	12/3/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP05		FC20980	RHP05-WGFD01B-2412A	12/3/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP05

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																	
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		110000		ND		110000		170000		ND		1800		1600		39000	
					Maximum	ND		ND		ND		ND		ND		1090		4130		140000		ND		140000		190000		ND		2000		2100		48000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP05	(b) (4)	24J0126	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1900		–	
RHP05		580-144753-1	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		190000		–		1900		–		42000	
RHP05		1245988	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		1090	J+	856	J+	–		–		–		–		–		–		–		–	
RHP05		FC19525	RHP05-WGN01LF-2410A	10/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP05		FC19525	RHP05-WGN01B-2410A	10/10/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		24J0254	RHP05-WGN01LF-2410B	10/25/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP05		B24102311	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2000		–	
RHP05		580-145178-1	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		180000		–		2000		–		48000	
RHP05		1246277	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		–		–		–		–		1070	J+	908	J+	–		–		–		–		–		–		–		–	
RHP05		FC19918	RHP05-WGN01LF-2410B	10/25/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP05		FC19918	RHP05-WGN01B-2410B	10/25/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		24K0062	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1600		–	
RHP05		580-145681-1	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		170000		–		1800		–		39000	
RHP05		1246509	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		–		–		–		–		<750	U	4130	J+	–		–		–		–		–		–		–		–	
RHP05		FC20309	RHP05-WGN01LF-2411A	11/8/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP05		FC20309	RHP05-WGN01B-2411A	11/8/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20309	RHP05-WGFD01LF-2411A	11/8/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20309	RHP05-WGFD01B-2411A	11/8/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		24K0146	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2100		–	
RHP05		580-145984-1	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		190000		–		2000		–		42000	
RHP05		1246631	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		<750	U	1020	J+	–		–		–		–		–		–		–		–	
RHP05		FC20620	RHP05-WGN01LF-2411B	11/19/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP05		FC20620	RHP05-WGN01B-2411B	11/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20620	RHP05-WGFD01LF-2411B	11/19/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20620	RHP05-WGFD01B-2411B	11/19/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		24L0018	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	UJ	–		–		–	
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1700		–	
RHP05		580-146274-1	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		120000		<7000	U	120000		190000	J-	–		2000		–		44000	
RHP05		1246759	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP05		FC20980	RHP05-WGN01B-2412A	12/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20980	RHP05-WGN01LF-2412A	12/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP05		FC20980	RHP05-WGFD01LF-2412A	12/3/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP05		FC20980	RHP05-WGFD01B-2412A	12/3/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP06

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP06	(b) (4)	FC18647	RHP06-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP06		FC18647	RHP06-WGN01LF-2409A	9/6/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP06		24I0192	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144675-1	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1245512	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		24J0126	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1245988	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19525	RHP06-WGN01B-2410A	10/10/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP06		FC19525	RHP06-WGN01LF-2410A	10/10/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP06		24J0226	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		B24102001	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		<144	U	<192	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246171	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19813	RHP06-WGN01LF-2410B	10/22/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP06		FC19813	RHP06-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP06		24K0017	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246372	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		24K0146	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246631	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20620	RHP06-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP06		FC20620	RHP06-WGN01LF-2411B	11/19/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.38	UJ	<0.38	UJ	<0.38	U
RHP06		24L0018	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246759	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20980	RHP06-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP06		FC20980	RHP06-WGN01LF-2412A	12/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP06

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP06	(b) (4)	FC18647	RHP06-WGN01B-2409A	9/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC18647	RHP06-WGN01LF-2409A	9/6/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP06		24I0192	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144075-1	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1245512	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		24J0126	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1245988	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19525	RHP06-WGN01B-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19525	RHP06-WGN01LF-2410A	10/10/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP06		24J0226	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		B24102001	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246171	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19813	RHP06-WGN01LF-2410B	10/22/2024	Primary	<0.4	UJ	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	UJ	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U
RHP06		FC19813	RHP06-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		24K0017	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246372	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		24K0146	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246631	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20620	RHP06-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20620	RHP06-WGN01LF-2411B	11/19/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.038	U	<0.077	U	<0.038	U	<0.38	U	<0.38	U	<0.038	U	<0.38	U	<0.38	U
RHP06		24L0018	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		1246759	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20980	RHP06-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20980	RHP06-WGN01LF-2412A	12/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP06

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		850		80000		ND		80000		160000		ND		1600		1600		84000	
					Maximum	ND		ND		ND		ND		ND		1060		1660		110000		ND		110000		190000		ND		2000		2100		89000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP06	(b) (4)	FC18647	RHP06-WGN01B-2409A	9/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC18647	RHP06-WGN01LF-2409A	9/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP06		24I0192	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		580-144075-1	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		89000		<7000	U	89000		180000		–		1900		2100		84000	
RHP06		1245512	RHP06-WGN01LF-2409B	9/20/2024	Primary	–		–		–		–		–		<750	U	916	J+	–		–		–		–		–		–		–		–	
RHP06		24J0126	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1900		–	
RHP06		580-144753-1	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		–		–		89000		<7000	U	89000		190000		–		2000		–		87000	
RHP06		1245988	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		–		–		–		–		926	J+	850	J+	–		–		–		–		–		–		–		–	
RHP06		FC19525	RHP06-WGN01B-2410A	10/10/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC19525	RHP06-WGN01LF-2410A	10/10/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP06		24J0226	RHP06-WGN01LF-2410B	10/22/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		B24102001	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		2000		–	
RHP06		580-145080-1	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		80000		<7000	U	80000		190000		–		2000		–		89000	
RHP06		1246171	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		<750	U	1200	J+	–		–		–		–		–		–		–		–	
RHP06		FC19813	RHP06-WGN01LF-2410B	10/22/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP06		FC19813	RHP06-WGN01B-2410B	10/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP06		24K0017	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1900		–	
RHP06		580-145507-1	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		180000		–		1900		–		86000	
RHP06		1246372	RHP06-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		811	J+	866	J+	–		–		–		–		–		–		–		–	
RHP06		24K0146	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1700		–	
RHP06		580-145984-1	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		100000		<7000	U	100000		160000		–		1600		–		88000	
RHP06		1246631	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		1060	J+	1660	J+	–		–		–		–		–		–		–		–	
RHP06		FC20620	RHP06-WGN01B-2411B	11/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20620	RHP06-WGN01LF-2411B	11/19/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP06		24L0018	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1600		–	
RHP06		580-146274-1	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		170000		–		1700		–		86000	
RHP06		1246759	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		<750	U	930	J+	–		–		–		–		–		–		–		–	
RHP06		FC20980	RHP06-WGN01B-2412A	12/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP06		FC20980	RHP06-WGN01LF-2412A	12/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP07

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
	Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
	CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
	Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
	DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
	Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
	Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
	Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP07	(b) (4)	580-144019-1	RHP07-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		24J0245	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		B24102171	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		<153	U	<204	U	–		–		ND		–		–		–		–		–		–		–		–	
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		1246200	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		FC19854	RHP07-WGN01LF-2410B	10/23/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP07		FC19854	RHP07-WGN01B-2410B	10/23/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP07		24K0036	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		1246429	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		FC20258	RHP07-WGN01LF-2411A	11/6/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	UJ
RHP07		FC20258	RHP07-WGN01B-2411A	11/6/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP07		24K0158	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		1246643	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		FC20681	RHP07-WGN01B-2411B	11/20/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP07		FC20681	RHP07-WGN01LF-2411B	11/20/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP07		24L0026	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		1246802	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP07

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHP07	(b) (4)	580-144019-1	RHP07-WGN01LF-2409B	9/18/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		24J0245	RHP07-WGN01LF-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		B24102171	RHP07-WGN01LF-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		1246200	RHP07-WGN01LF-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		FC19854	RHP07-WGN01LF-2410B	10/23/2024	Primary	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP07		FC19854	RHP07-WGN01B-2410B	10/23/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		24K0036	RHP07-WGN01LF-2411A	11/6/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		1246429	RHP07-WGN01LF-2411A	11/6/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		FC20258	RHP07-WGN01LF-2411A	11/6/2024	Primary	<0.42	UJ			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP07		FC20258	RHP07-WGN01B-2411A	11/6/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		24K0158	RHP07-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		1246643	RHP07-WGN01LF-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		FC20681	RHP07-WGN01B-2411B	11/20/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		FC20681	RHP07-WGN01LF-2411B	11/20/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP07		24L0026	RHP07-WGN01LF-2412A	12/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP07		1246802	RHP07-WGN01LF-2412A	12/4/2024	Primary	–				–				–				–				–				–				–				–			

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP07

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		130000		ND		130000		77000		ND		920		870		50000	
					Maximum	ND		ND		ND		ND		ND		1080		1390		140000		ND		140000		80000		ND		960		990		51000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP07	(b) (4)	580-144019-1	RHP07-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		79000		–		960		910		50000	
RHP07		24J0245	RHP07-WGN01LF-2410B	10/23/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP07		B24102171	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		990		–	
RHP07		580-145138-1	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		80000		–		920		–		50000	
RHP07		1246200	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		–		–		–		–		1080	J+	811	J+	–		–		–		–		–		–		–		–	
RHP07		FC19854	RHP07-WGN01LF-2410B	10/23/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP07		FC19854	RHP07-WGN01B-2410B	10/23/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP07		24K0036	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		870		–	
RHP07		580-145577-1	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		–		–		130000		<7000	U	130000		78000		–		920		–		51000	
RHP07		1246429	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		–		–		–		–		<750	U	1390	J+	–		–		–		–		–		–		–		–	
RHP07		FC20258	RHP07-WGN01LF-2411A	11/6/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP07		FC20258	RHP07-WGN01B-2411A	11/6/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP07		24K0158	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		960		–	
RHP07		580-146023-1	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		78000		–		920		–		50000	
RHP07		1246643	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP07		FC20681	RHP07-WGN01B-2411B	11/20/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP07		FC20681	RHP07-WGN01LF-2411B	11/20/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP07		24L0026	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		930		–	
RHP07		580-146357-1	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		–		–		140000		<7000	U	140000		77000		–		920		–		50000	
RHP07		1246802	RHP07-WGN01LF-2412A	12/4/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
Analyte						GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
CAS No.						PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
Method						8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
DOH Tier 1 EAL						—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
Units						µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
Minimum						ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Maximum						ND		312.3		436.4		195		131		749		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08	(b) (4)	24J0064	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		1245801	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19366	RHP08-WGN01B-2410A	10/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC19366	RHP08-WGN01LF-2410A	10/3/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08		FC19366	RHP08-WGFD01B-2410A	10/3/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC19366	RHP08-WGFD01LF-2410A	10/3/2024	Field Duplicate	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08		24J0226	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		B24102001	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		312.3		436.4		<141	U	<189	U	749		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		1246171	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGN01LF-2410B	10/22/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP08		FC19813	RHP08-WGN01B-2410B	10/22/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		24J0226	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		B24102001	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–		<143	U	<190	U	–		–		ND		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGFD01B-2410B	10/22/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC19813	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	UJ
RHP08		24K0017	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		1246372	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		24K0146	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		1246631	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20620	RHP08-WGN01LF-2411B	11/19/2024	Primary	<50	U	126	J	91	J	148	J	123	J	217		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP08		FC20620	RHP08-WGN01B-2411B	11/19/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC20620	RHP08-WGFD01LF-2411B	11/19/2024	Field Duplicate	<50	U	177	J	123	J	195	J	131	J	300		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	UJ	<0.4	UJ	<0.4	U
RHP08		FC20620	RHP08-WGFD01B-2411B	11/19/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		24L0018	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		1246759	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20980	RHP08-WGN01LF-2412A	12/3/2024	Primary	<50	U	95.1	J	83.7	J	<100	U	<160	U	179		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP08		FC20980	RHP08-WGN01B-2412A	12/3/2024	Primary	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC20980	RHP08-WGFD01B-2412A	12/3/2024	Field Duplicate	–		–		–		–		–		–		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	–		–		–	
RHP08		FC20980	RHP08-WGFD01LF-2412A	12/3/2024	Field Duplicate	<50	U	105	J	<160	U	<100	U	<160	U	105		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																													
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHP08	(b) (4)	24J0064	RHP08-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		1245801	RHP08-WGN01LF-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC19366	RHP08-WGN01B-2410A	10/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC19366	RHP08-WGN01LF-2410A	10/3/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08		FC19366	RHP08-WGFD01B-2410A	10/3/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		FC19366	RHP08-WGFD01LF-2410A	10/3/2024	Field Duplicate	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08		24J0226	RHP08-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		B24102001	RHP08-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		1246171	RHP08-WGN01LF-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC19813	RHP08-WGN01LF-2410B	10/22/2024	Primary	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP08		FC19813	RHP08-WGN01B-2410B	10/22/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		24J0226	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		B24102001	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		FC19813	RHP08-WGFD01B-2410B	10/22/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		FC19813	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	<0.4	UJ			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP08		24K0017	RHP08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		1246372	RHP08-WGN01LF-2411A	11/4/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		24K0146	RHP08-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		1246631	RHP08-WGN01LF-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC20620	RHP08-WGN01LF-2411B	11/19/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP08		FC20620	RHP08-WGN01B-2411B	11/19/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC20620	RHP08-WGFD01LF-2411B	11/19/2024	Field Duplicate	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP08		FC20620	RHP08-WGFD01B-2411B	11/19/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		24L0018	RHP08-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		1246759	RHP08-WGN01LF-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC20980	RHP08-WGN01LF-2412A	12/3/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08		FC20980	RHP08-WGN01B-2412A	12/3/2024	Primary	–				–				–				–				–				–				–				–			
RHP08		FC20980	RHP08-WGFD01B-2412A	12/3/2024	Field Duplicate	–				–				–				–				–				–				–				–			
RHP08		FC20980	RHP08-WGFD01LF-2412A	12/3/2024	Field Duplicate	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		69000		ND		69000		120000		ND		950		1100		25000	
					Maximum	ND		ND		ND		ND		1.2		2550		2270		110000		ND		110000		150000		ND		1300		1200		34000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08	(b) (4)	24J0064	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1200		–	
RHP08		580-144479-1	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		–		–		80000		<7000	U	80000		140000		–		1100		–		33000	
RHP08		1245801	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08		FC19366	RHP08-WGN01B-2410A	10/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19366	RHP08-WGN01LF-2410A	10/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08		FC19366	RHP08-WGFD01B-2410A	10/3/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19366	RHP08-WGFD01LF-2410A	10/3/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		24J0226	RHP08-WGN01LF-2410B	10/22/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08		B24102001	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1100		–	
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		580-145080-1	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		–		–		79000		<7000	U	79000		120000		–		1100		–		33000	
RHP08		1246171	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		–		–		–		–		<750	U	789	J+	–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGN01LF-2410B	10/22/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGN01B-2410B	10/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		24J0226	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	<80	UJ	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		B24102001	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGFD01B-2410B	10/22/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC19813	RHP08-WGFD01LF-2410B	10/22/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		24K0017	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1200		–	
RHP08		580-145507-1	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		–		–		110000		<7000	U	110000		120000		–		950		–		25000	
RHP08		1246372	RHP08-WGN01LF-2411A	11/4/2024	Primary	–		–		–		–		–		2550		922	J+	–		–		–		–		–		–		–		–	
RHP08		24K0146	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1100		–	
RHP08		580-145984-1	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		–		–		69000		<7000	U	69000		120000		–		1100		–		32000	
RHP08		1246631	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		–		–		–		–		1180	J+	1510	J+	–		–		–		–		–		–		–		–	
RHP08		FC20620	RHP08-WGN01LF-2411B	11/19/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08		FC20620	RHP08-WGN01B-2411B	11/19/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20620	RHP08-WGFD01LF-2411B	11/19/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20620	RHP08-WGFD01B-2411B	11/19/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		24L0018	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		1200		–	
RHP08		580-146274-1	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		–		–		83000		<7000	U	83000		150000		–		1300		–		34000	
RHP08		1246759	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		–		–		–		–		792	J+	2270		–		–		–		–		–		–		–		–	
RHP08		FC20980	RHP08-WGN01LF-2412A	12/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	1.2		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20980	RHP08-WGN01B-2412A	12/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20980	RHP08-WGFD01B-2412A	12/3/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	
RHP08		FC20980	RHP08-WGFD01LF-2412A	12/3/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08B

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		125		ND		ND		125		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08B	(b) (4)	24I0256	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		<141	U	125	J	<141	U	<189	U	125		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-144292-1	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1245703	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		FC19168	RHP08B-WGN01LF-2409B	9/27/2024	Primary	<50	UJ	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08B		24J0172	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1246090	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		FC19654	RHP08B-WGN01LF-2410A	10/16/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08B		24K0003	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		B24102634	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		<150	U	<200	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1246315	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		24K0115	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1246572	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		FC20484	RHP08B-WGN01LF-2411A	11/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP08B		24K0202	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1246682	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		FC20788	RHP08B-WGN01LF-2411B	11/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP08B		24L0108	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		1246921	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		FC21264	RHP08B-WGN01LF-2412A	12/12/2024	Primary	<50	U	<96	U	<150	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.43	U	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08B

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene				Acenaphthylene				Anthracene				Benzo(a)anthracene				Benzo(a)pyrene				Benzo(b)fluoranthene				Benzo(g,h,i)perylene				Benzo(k)fluoranthene			
					CAS No.	83-32-9				208-96-8				120-12-7				56-55-3				50-32-8				205-99-2				191-24-2				207-08-9			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	20				300				0.18				0.052				0.2				0.058				0.13				0.36			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHP08B	(b) (4)	24I0256	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144292-1	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1245703	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC19168	RHP08B-WGN01LF-2409B	9/27/2024	Primary	<0.42	U			<0.42	U			<0.42	UJ			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08B		24J0172	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246090	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC19654	RHP08B-WGN01LF-2410A	10/16/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08B		24K0003	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		B24102634	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246315	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		24K0115	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246572	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC20484	RHP08B-WGN01LF-2411A	11/14/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U			<0.042	U		
RHP08B		24K0202	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246682	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC20788	RHP08B-WGN01LF-2411B	11/24/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
RHP08B		24L0108	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246921	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC21264	RHP08B-WGN01LF-2412A	12/12/2024	Primary	<0.43	U			<0.43	U			<0.43	U			<0.043	U			<0.043	U			<0.043	U			<0.043	U			<0.043	UJ		

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																																			
					Analyte	Benzo(k)fluoranthene				Chrysene				Dibenzo(a,h)anthracene				Fluoranthene				Fluorene				Indeno(1,2,3-cd)pyrene				Phenanthrene				Pyrene			
					CAS No.	207-08-9				218-01-9				53-70-3				206-44-0				86-73-7				193-39-5				85-01-8				129-00-0			
					Method	8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM				8270SIM			
					DOH Tier 1 EAL	0.36				0.24				0.0048				13				250				0.018				250				68			
					Units	µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L				µg/L			
					Minimum	ND				ND				ND				ND				ND				ND				ND				ND			
					Maximum	ND				ND				ND				ND				ND				ND				ND				ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result				Result				Result				Result				Result				Result				Result				Result			
RHP08B	(b) (4)	24I0256	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144292-1	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1245703	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC19168	RHP08B-WGN01LF-2409B	9/27/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	UJ		
RHP08B		24J0172	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246090	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC19654	RHP08B-WGN01LF-2410A	10/16/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	UJ			<0.42	U			<0.042	U			<0.42	UJ			<0.42	U		
RHP08B		24K0003	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		B24102634	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246315	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		24K0115	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246572	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC20484	RHP08B-WGN01LF-2411A	11/14/2024	Primary	<0.042	U			<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
RHP08B		24K0202	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246682	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC20788	RHP08B-WGN01LF-2411B	11/24/2024	Primary	<0.04	U			<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U		
RHP08B		24L0108	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		1246921	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–				–				–				–				–				–				–				–			
RHP08B		FC21264	RHP08B-WGN01LF-2412A	12/12/2024	Primary	<0.043	U			<0.087	U			<0.043	U			<0.43	U			<0.43	U			<0.043	UJ			<0.43	U			<0.43	U		

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08B

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																					
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		61000		ND		61000		120000		ND		260		230		19000	
					Maximum	ND		ND		ND		ND		ND		ND		1530		74000		ND		74000		130000		ND		380		390		20000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08B	(b) (4)	24I0256	RHP08B-WGN01LF-2409B	9/27/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-144292-1	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		67000		<7000	U	67000		130000		–		260		280		20000	
RHP08B		1245703	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		<750	U	976	J+	–		–		–		–		–		–		–		–	
RHP08B		FC19168	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	UJ	–		–		–		–		–		–		–		–		–		–	
RHP08B		24J0172	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		250		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		74000		<7000	U	74000		120000		–		270		–		20000	
RHP08B		1246090	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		<750	U	963	J+	–		–		–		–		–		–		–		–	
RHP08B		FC19654	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08B		24K0003	RHP08B-WGN01LF-2410B	10/30/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		B24102634	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		330		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		61000		<7000	U	61000		120000		–		320		–		19000	
RHP08B		1246315	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08B		24K0115	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		230		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		64000		<7000	U	64000		120000		–		380		–		19000	
RHP08B		1246572	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		<750	U	887	J+	–		–		–		–		–		–		–		–	
RHP08B		FC20484	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08B		24K0202	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		390		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		67000		<7000	U	67000		120000		–		370		–		19000	
RHP08B		1246682	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08B		FC20788	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08B		24L0108	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		350		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		120000		–		370		–		19000	
RHP08B		1246921	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		<750	U	1530		–		–		–		–		–		–		–		–	
RHP08B		FC21264	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08B

Analyte						Bromide		Fluoride		Total Calcium	Total Magnesium	Total Manganese		Total Potassium		Total Sodium	
CAS No.						24959-67-9		16984-48-8		7440-70-2	7439-95-4	7439-96-5		7440-09-7		7440-23-5	
Method						E300		E300		SW6010D	SW6010D	SW6010D		SW6010D		SW6010D	
DOH Tier 1 EAL						—		—		—	—	—		—		—	
Units						µg/L		µg/L		µg/L	µg/L	µg/L		µg/L		µg/L	
Minimum						420		ND		21000	23000	9		4800		57000	
Maximum						420		ND		21000	23000	9		4800		57000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result	Result	Result		Result		Result	
RHP08B	(b) (4)	24I0256	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		B24092589	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-144292-1	RHP08B-WGN01LF-2409B	9/27/2024	Primary	420	J	<400	–	21000	23000	9	J+	4800		57000	
RHP08B		1245703	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		FC19168	RHP08B-WGN01LF-2409B	9/27/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		24J0172	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-144901-1	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		1246090	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		FC19654	RHP08B-WGN01LF-2410A	10/16/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		24K0003	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		B24102634	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-145334-1	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		1246315	RHP08B-WGN01LF-2410B	10/30/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		24K0115	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-145831-1	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		1246572	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		FC20484	RHP08B-WGN01LF-2411A	11/14/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		24K0202	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-146104-1	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		1246682	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		FC20788	RHP08B-WGN01LF-2411B	11/24/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		24L0108	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		580-146568-1	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		1246921	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–	–	–	–	–		–		–	
RHP08B		FC21264	RHP08B-WGN01LF-2412A	12/12/2024	Primary	–		–	–	–	–	–		–		–	

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08C

						Total Petroleum Hydrocarbons										Volatile Organic Compounds												Polynuclear Aromatic Hydrocarbons (PAHs) – COPCs					
					Analyte	GRO		DRO		ORO		DRO with Silica Gel Cleanup		ORO with Silica Gel Cleanup		Total Petroleum Hydrocarbons (TPH) Calculation		Benzene		Ethylbenzene		Toluene		Xylenes		1,2,4-Trimethylbenzene		1,3,5-Trimethylbenzene		1-Methylnaphthalene		2-Methylnaphthalene		Naphthalene	
					CAS No.	PHCC6C10		PHCC10C24		PHCC24C40		PHCC10C24SGC		PHCC24C40SGC		—		71-43-2		100-41-4		108-88-3		1330-20-7		95-63-6		108-67-8		90-12-0		91-57-6		91-20-3	
					Method	8260		8015		8015		8015		8015		Calculated		8260		8260		8260		8260		8260		8260		8270 SIM		8270 SIM		8270 SIM	
					DOH Tier 1 EAL	—		—		—		—		—		193		5		30		40		20		—		—		10		10		17	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		–		–		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08C	(b) (4)	FC18395	RHP08C-WGN01LF-2408B	8/27/2024	Primary	<50	U	<100	U	<160	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP08C		24I0256	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144292-1	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1245703	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC19168	RHP08C-WGN01LF-2409B	9/27/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08C		24J0172	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246090	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC19654	RHP08C-WGN01LF-2410A	10/16/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08C		24K0003	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		B24102634	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		<141	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246315	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		24K0115	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246572	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC20484	RHP08C-WGN01LF-2411A	11/14/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	UJ	<0.42	UJ	<0.42	U
RHP08C		24K0202	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246682	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC20788	RHP08C-WGN01LF-2411B	11/24/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHP08C		24L0108	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246921	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC21264	RHP08C-WGN01LF-2412A	12/12/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.43	U	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08C

						Polynuclear Aromatic Hydrocarbons (PAHs) – Additional																															
					Analyte	Acenaphthene		Acenaphthylene		Anthracene		Benzo(a)anthracene		Benzo(a)pyrene		Benzo(b)fluoranthene		Benzo(g,h,i)perylene		Benzo(k)fluoranthene		Chrysene		Dibenzo(a,h)anthracene		Fluoranthene		Fluorene		Indeno(1,2,3-cd)pyrene		Phenanthrene		Pyrene	
					CAS No.	83-32-9		208-96-8		120-12-7		56-55-3		50-32-8		205-99-2		191-24-2		207-08-9		218-01-9		53-70-3		206-44-0		86-73-7		193-39-5		85-01-8		129-00-0	
					Method	8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM		8270SIM	
					DOH Tier 1 EAL	20		300		0.18		0.052		0.2		0.058		0.13		0.36		0.24		0.0048		13		250		0.018		250		68	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
					Maximum	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08C	(b) (4)	FC18395	RHP08C-WGN01LF-2408B	8/27/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP08C		24I0256	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144292-1	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1245703	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC19168	RHP08C-WGN01LF-2409B	9/27/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ
RHP08C		24J0172	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246090	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC19654	RHP08C-WGN01LF-2410A	10/16/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHP08C		24K0003	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		B24102634	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246315	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		24K0115	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246572	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC20484	RHP08C-WGN01LF-2411A	11/14/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP08C		24K0202	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246682	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC20788	RHP08C-WGN01LF-2411B	11/24/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHP08C		24L0108	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1246921	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC21264	RHP08C-WGN01LF-2412A	12/12/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	U	<0.043	UJ	<0.43	U	<0.43	U

Notes:
See Data Legend

App. B.3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP08C

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																			
					Analyte	2-(2- Methoxyethoxy)-ethanol		Phenol		1,2-Dibromoethane		1,2-Dichloroethane		Methane		Total Organic Carbon		NV Dissolved Organic Carbon		Alkalinity, Bicarbonate		Alkalinity, Carbonate (as CO3)		Alkalinity, Total (as CaCO3)		Chloride (as Cl)		Iron, Ferrous		Nitrate (as N)		Nitrate-Nitrite (as N)		Sulfate (as SO4)	
					CAS No.	111-77-3		108-95-2		106-93-4		107-06-2		74-82-8		TOC		—		ALKB		ALKC		ALK		16887-00-6		15438-31-0		NO3N		NO3NO2N		14808-79-8	
					Method	8270D		SW8270		8011		8260		RSK 175		9060		9060		A2320B		A2320B		A2320B		E300		A3500B		E300		E353.2		E300	
					DOH Tier 1 EAL	—		300		0.04		5		—		—		—		—		—		—		—		—		—		—		—	
					Units	µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		51000		ND		51000		110000		ND		330		210		16000	
					Maximum	ND		ND		ND		ND		0.2		ND		2510		63000		ND		63000		110000		ND		340		340		16000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08C	(b) (4)	FC18395	RHP08C-WGN01LF-2408B	8/27/2024	Primary	–		<2	U	<0.014	U	<0.5	U	0.2	J	–		–		–		–		–		–		–		–		–		–	
RHP08C		24I0256	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		580-144292-1	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		–		–		63000		<7000	U	63000		110000		–		340		320		16000	
RHP08C		1245703	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		–		–		–		–		<750	U	2510		–		–		–		–		–		–		–		–	
RHP08C		FC19168	RHP08C-WGN01LF-2409B	9/27/2024	Primary	–		<2	U	<0.015	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08C		24J0172	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		290		–	
RHP08C		580-144901-1	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		–		–		59000		<7000	U	59000		110000		–		340		–		16000	
RHP08C		1246090	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08C		FC19654	RHP08C-WGN01LF-2410A	10/16/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08C		24K0003	RHP08C-WGN01LF-2410B	10/30/2024	Primary	<80	UJ	–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		B24102634	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		300		–	
RHP08C		580-145334-1	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		–		–		57000		<7000	U	57000		110000		–		330		–		16000	
RHP08C		1246315	RHP08C-WGN01LF-2410B	10/30/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08C		24K0115	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		210		–	
RHP08C		580-145831-1	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		–		–		51000		<7000	U	51000		110000		–		340		–		16000	
RHP08C		1246572	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		–		–		–		–		<750	U	2020	J+	–		–		–		–		–		–		–		–	
RHP08C		FC20484	RHP08C-WGN01LF-2411A	11/14/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08C		24K0202	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		340		–	
RHP08C		580-146104-1	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		–		–		62000		<7000	U	62000		110000		–		330		–		16000	
RHP08C		1246682	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		–		–		–		–		<750	U	1540	J+	–		–		–		–		–		–		–		–	
RHP08C		FC20788	RHP08C-WGN01LF-2411B	11/24/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	
RHP08C		24L0108	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		<320	U	–		–		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		270		–	
RHP08C		580-146568-1	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		–		–		59000		<7000	U	59000		110000		–		330		–		16000	
RHP08C		1246921	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		–		–		–		–		<750	U	<750	U	–		–		–		–		–		–		–		–	
RHP08C		FC21264	RHP08C-WGN01LF-2412A	12/12/2024	Primary	–		<2	U	<0.014	U	<0.5	U	<0.25	U	–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

Appendix B.3.2 – Groundwater TPH and PAH Analytical Charts

App. B.3.2 Groundwater Historical PAH and TPH Charts: Red Hill Bulk Fuel Storage Facility
Data Legend

Notes

All results are reported in ug/L

Detects are generally displayed as closed markers with color infill. Non-Detects are displayed as open markers without color infill.

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

ORO = Oil Range Organics

Non-detect TPH values are represented as zero values and non-detect TPH component results are represented as the lab reported Limit of Detection.

Plotted values include Normal and Field Duplicate sample types.

Results are combined form the LTM, NOI, P&S Well Sampling and current Consolidated Sampling programs.

RHMW11, RHMW13, RHMW14 and RHMW15 data includes samples collected at all Westbay sampling ports within each well.

TPH = Total Petroleum Hydrocarbons reported as a non-overlapping sum of GRO/DRO/ORO with BTEX,1MN, 2MN, N subtracted.

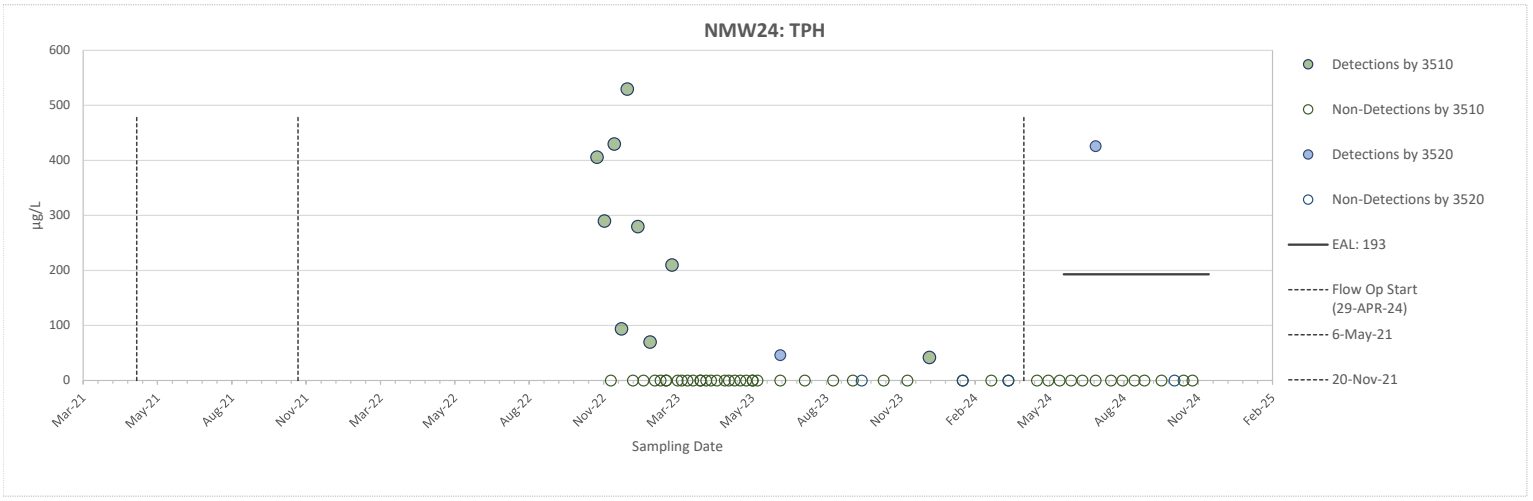
TPH EAL is based on HDOH June, 20224 Tier 1 EAL and TPH component EALs are based on HDOH 2017 Tier 1 EALs.

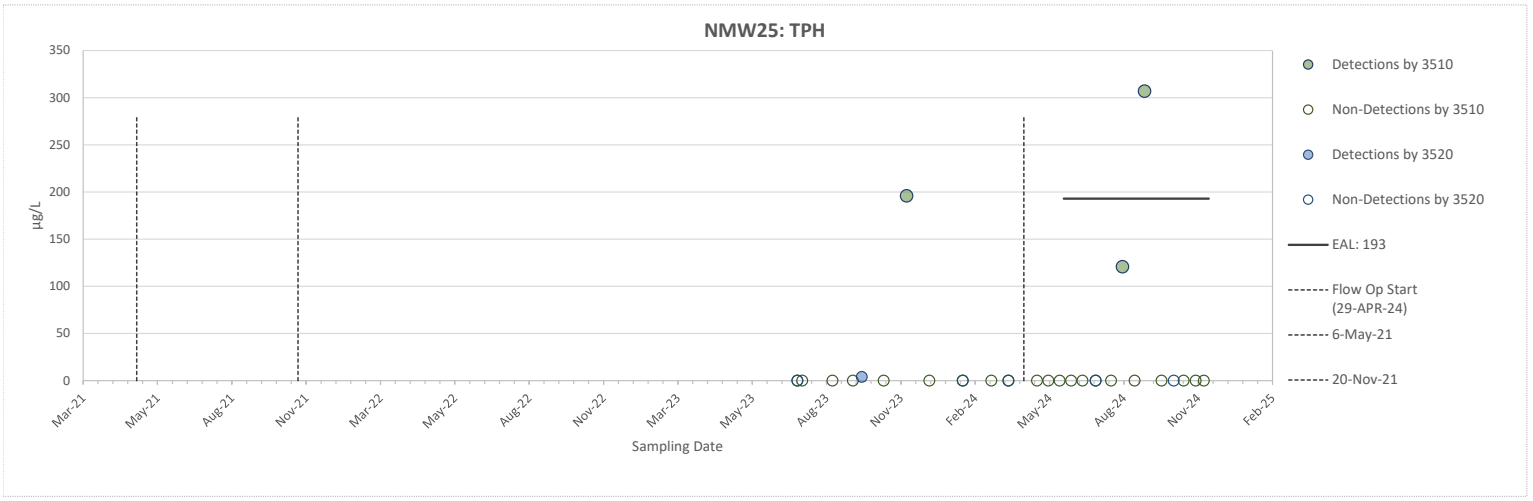
TPH is not a lab reported result and values are calculated with all available TPH components. However, some samples were not analyzed for GRO, BTEX, 1MN, 2MN or Naphthalene and the corresponding incomplete TPH values are reported.

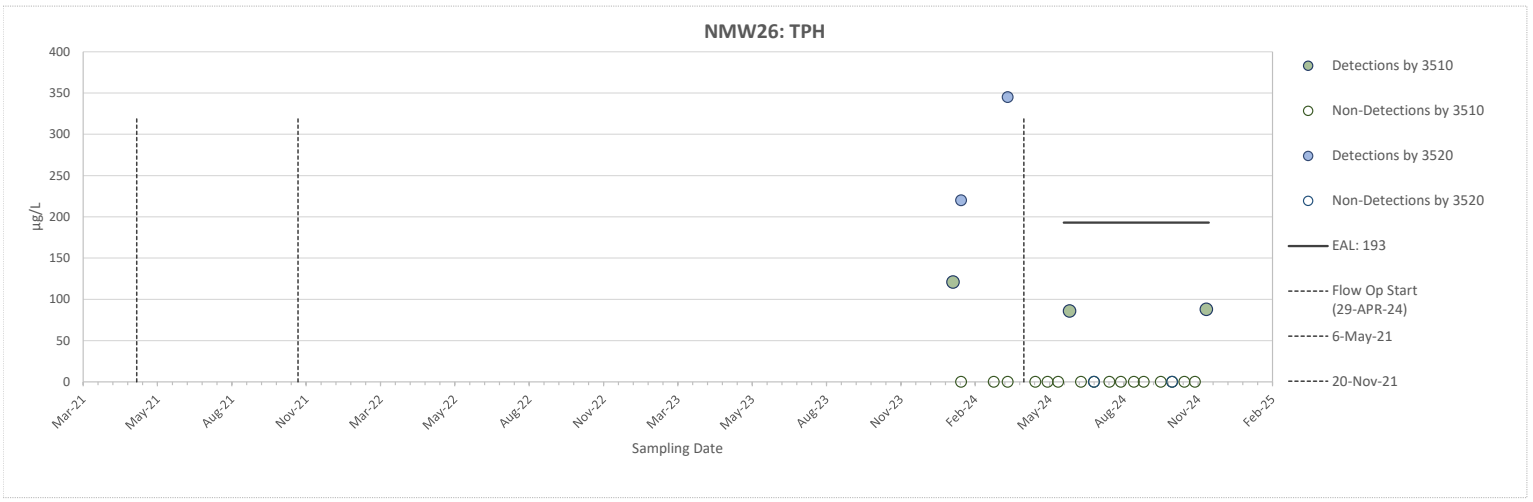
TPH values are calculated separately for each extraction method used in the Consolidated Sampling Program, 3510 and 3520.

Units

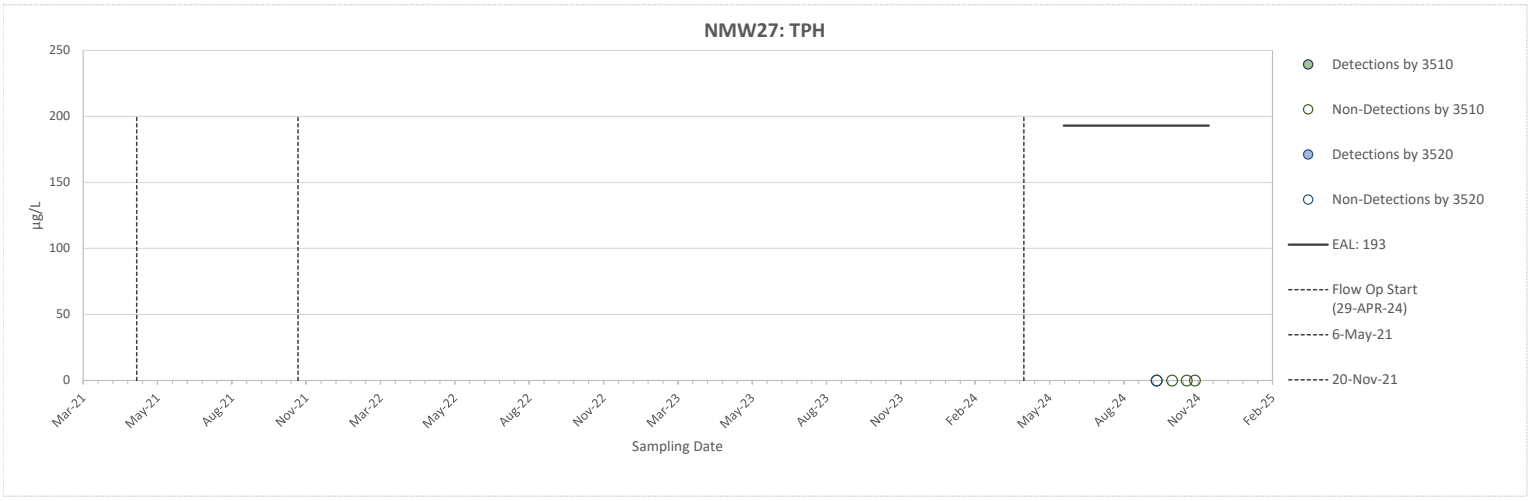
µg/L – Micrograms per Liter

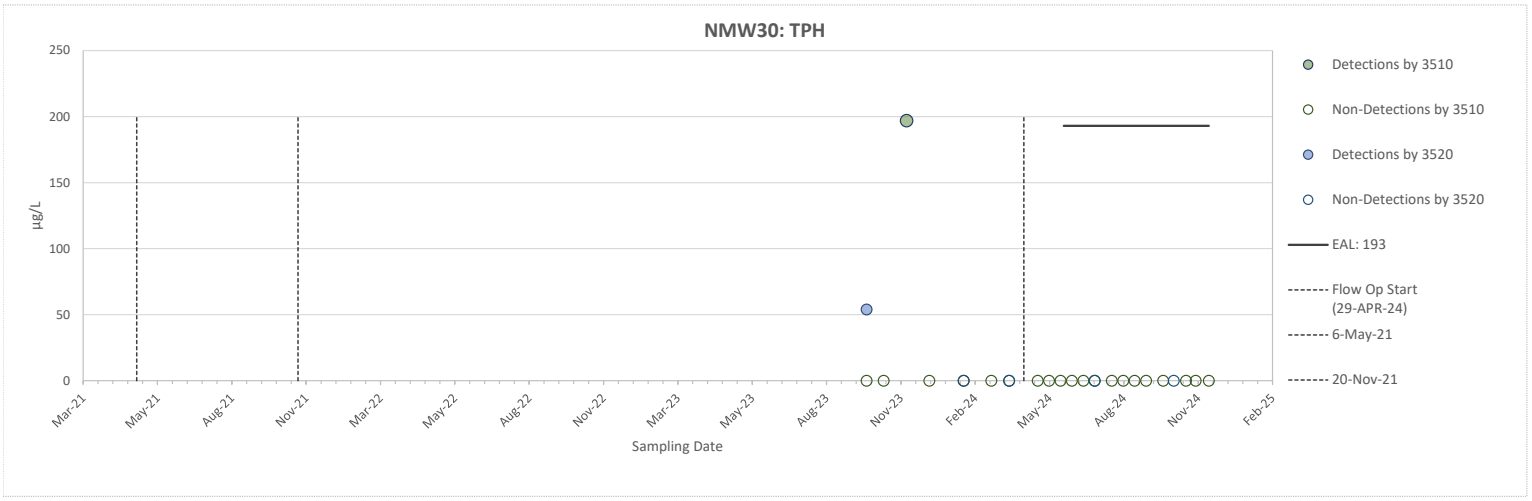


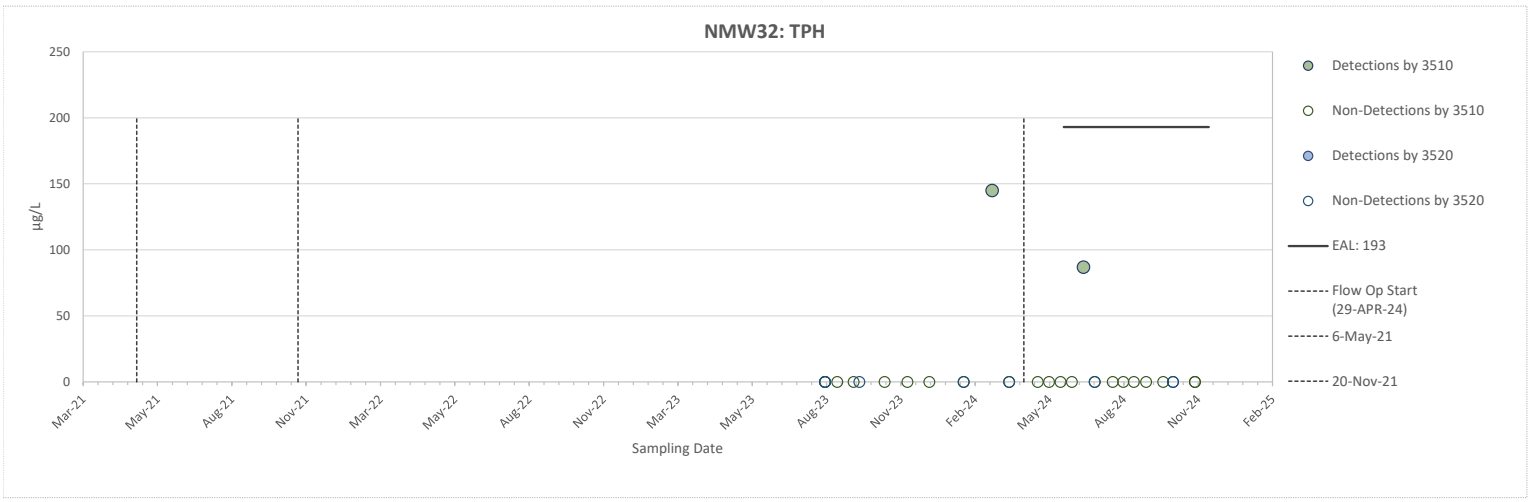




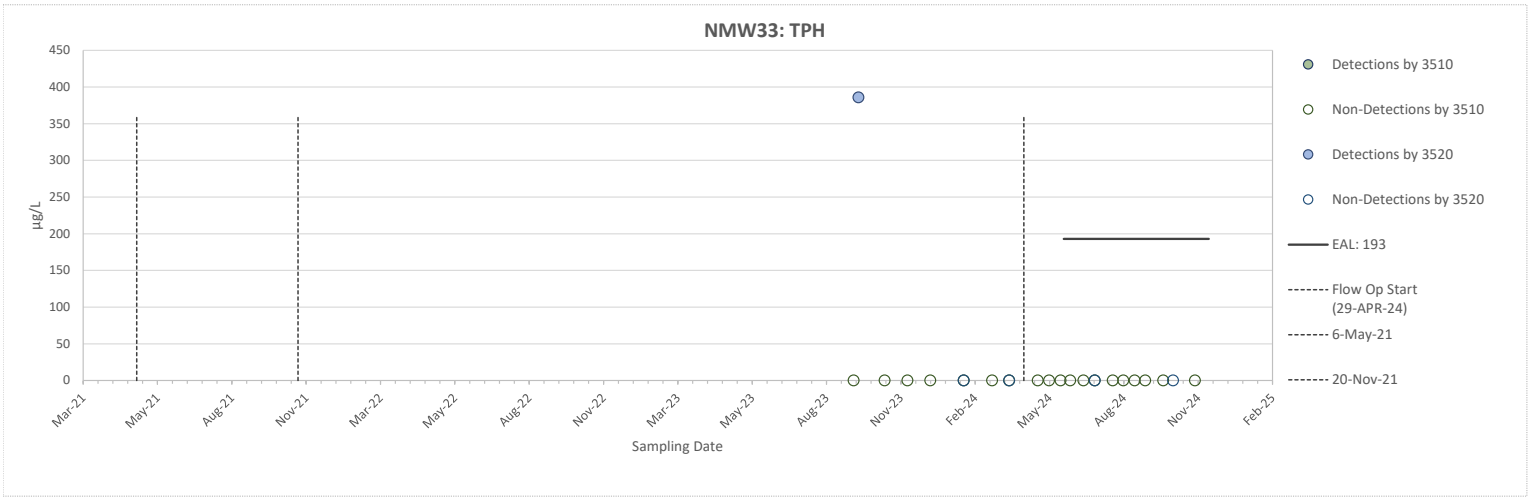
Note: See Data Legend

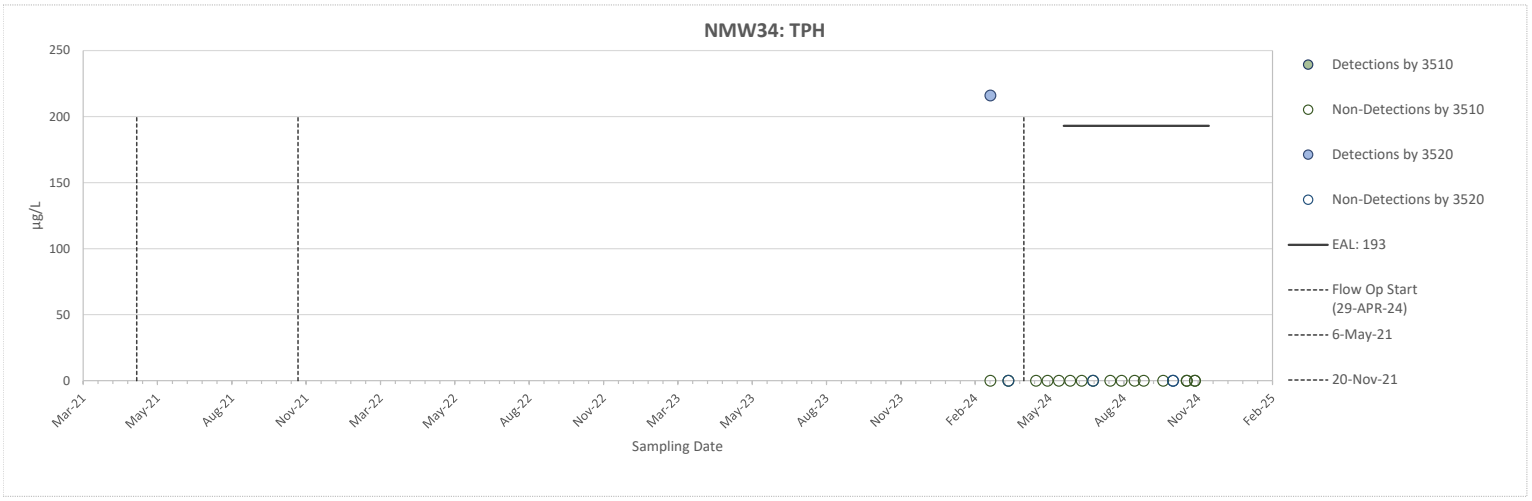




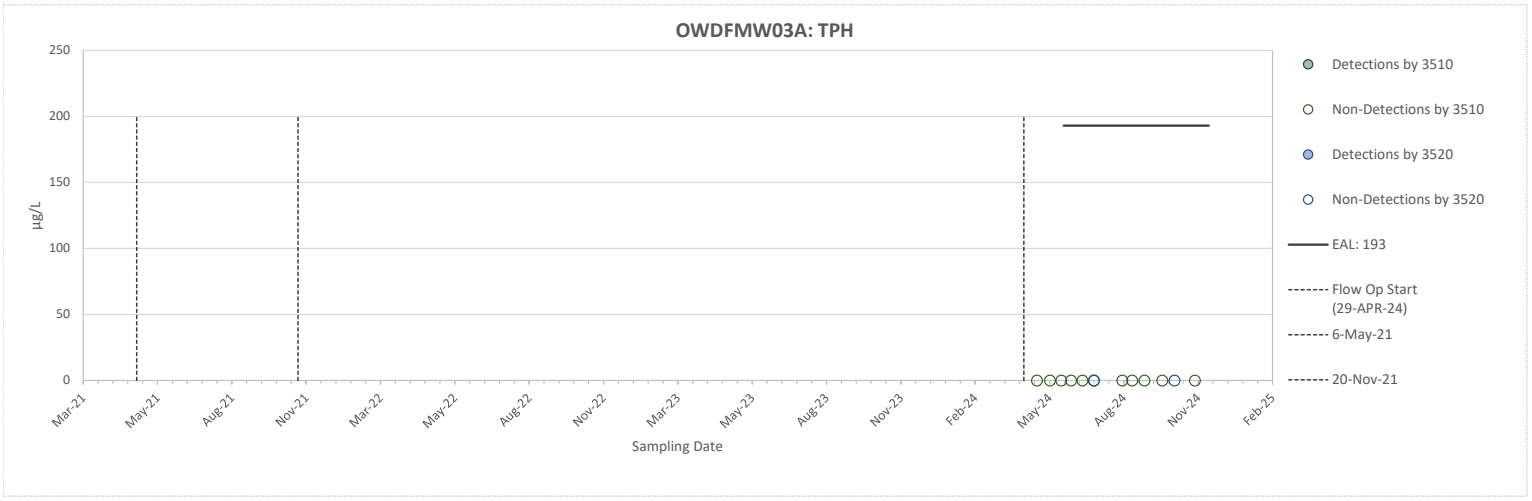


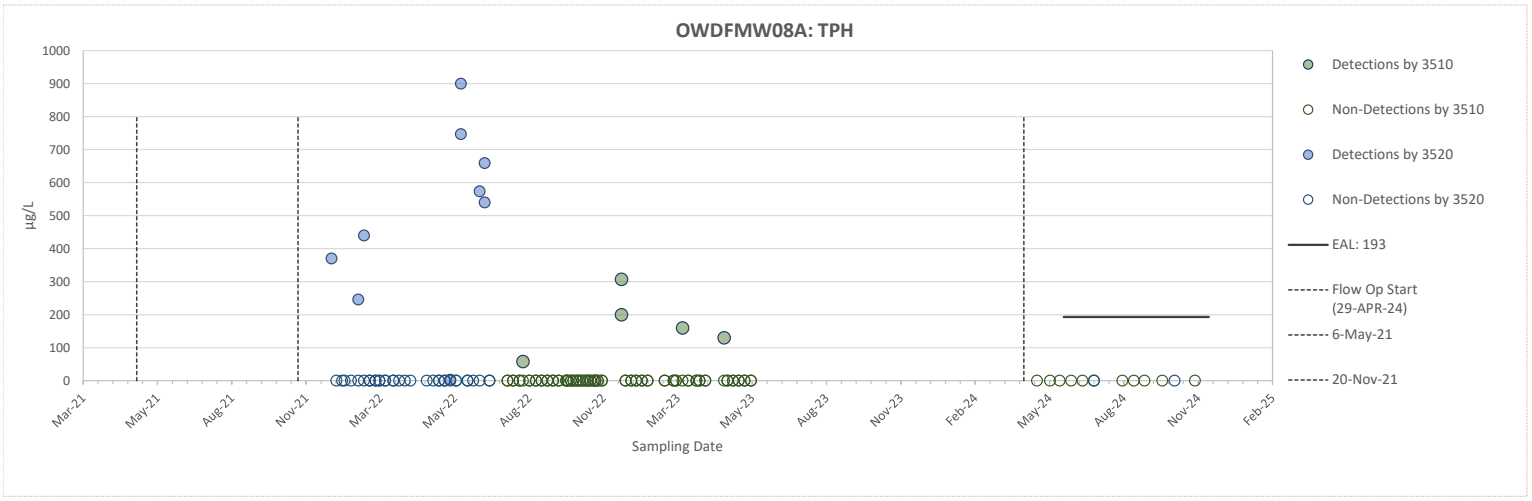
Note: See Data Legend



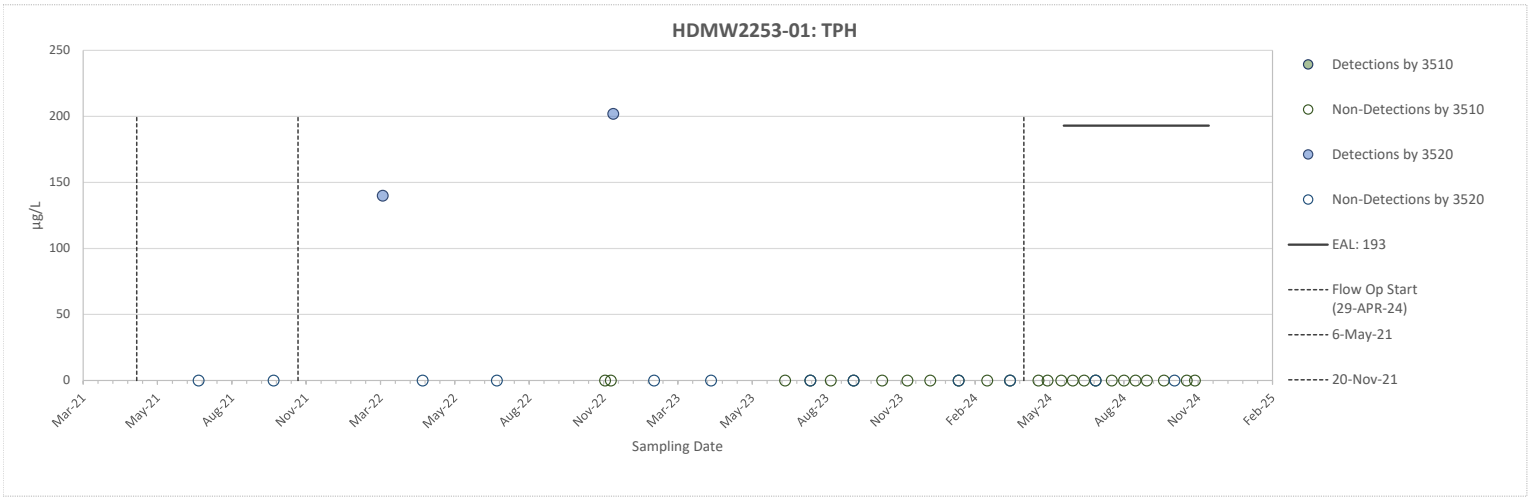


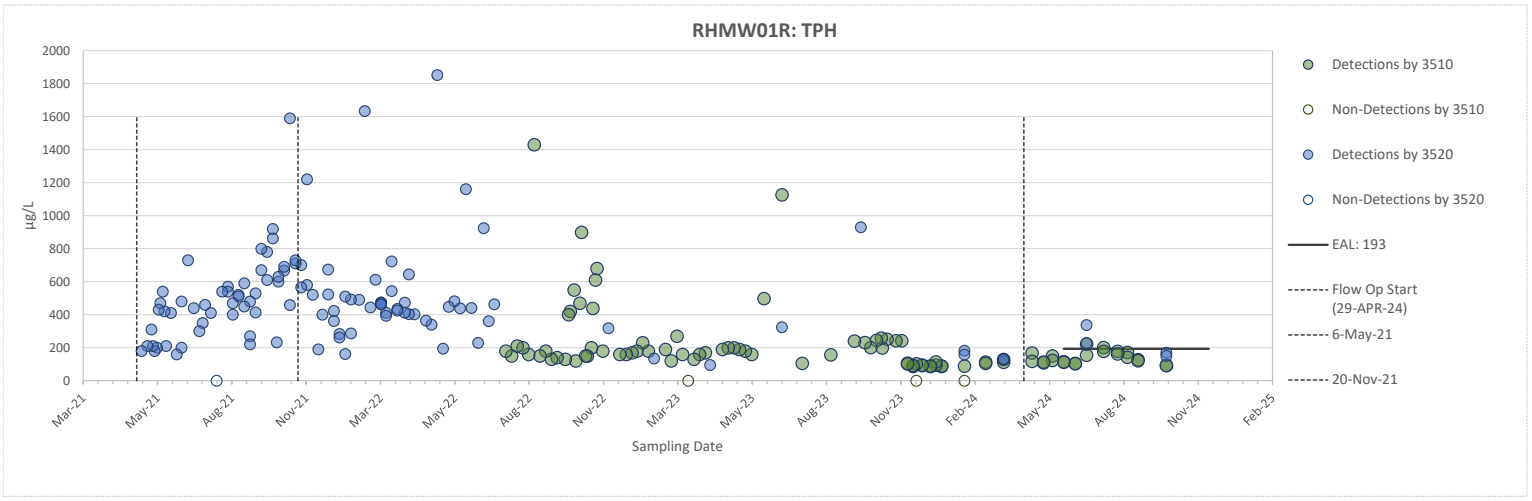
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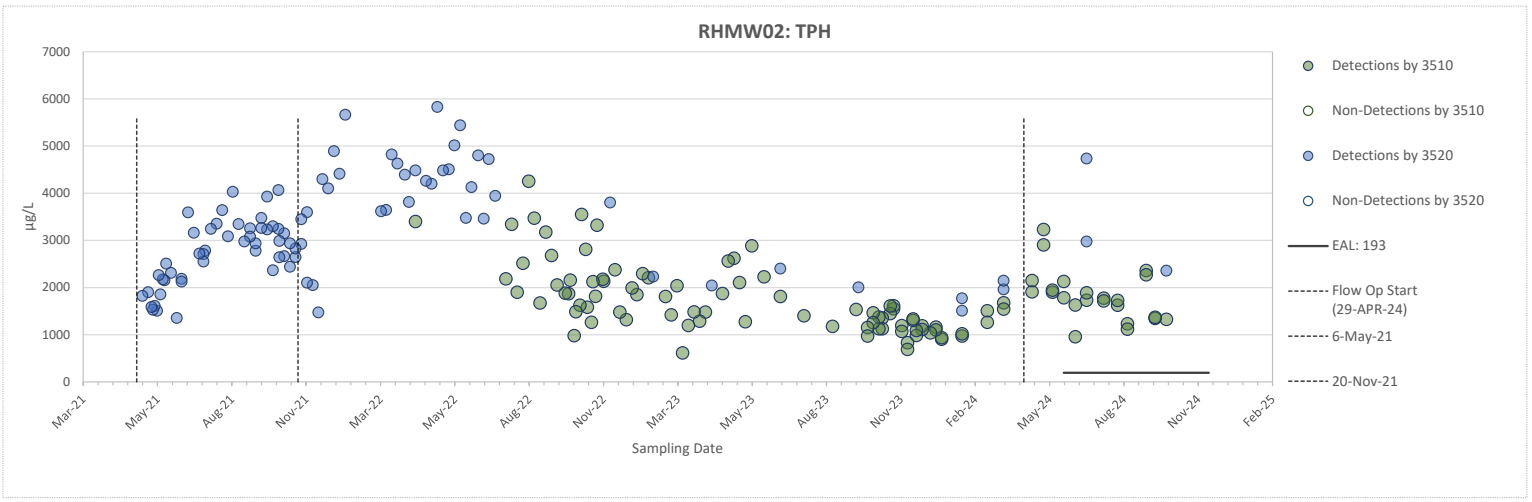




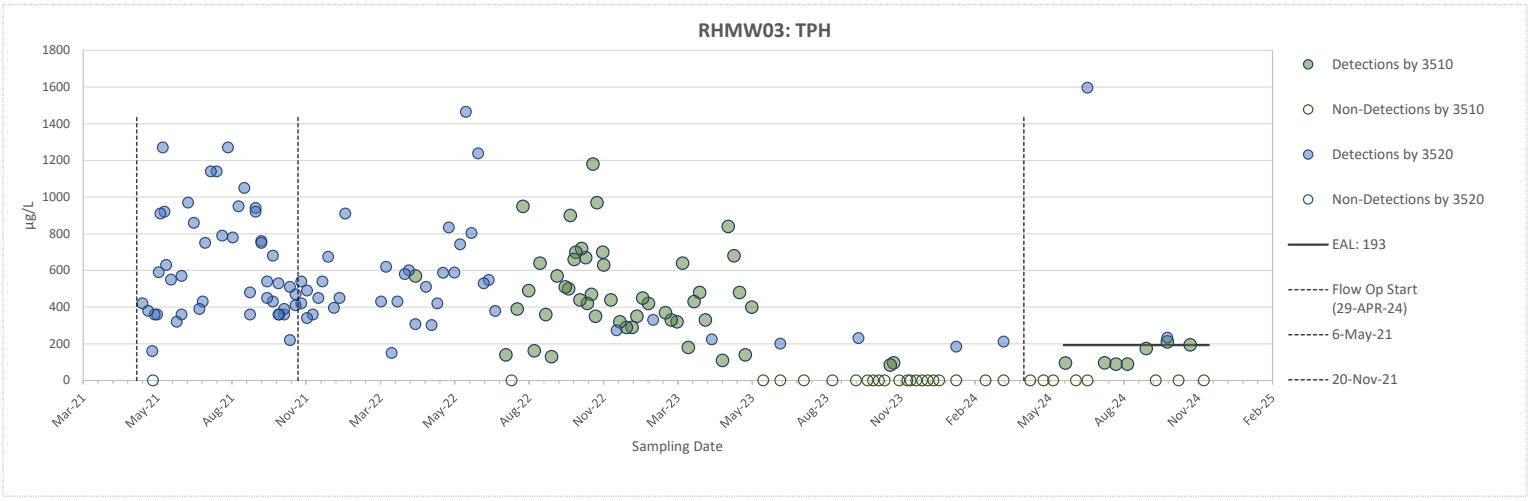
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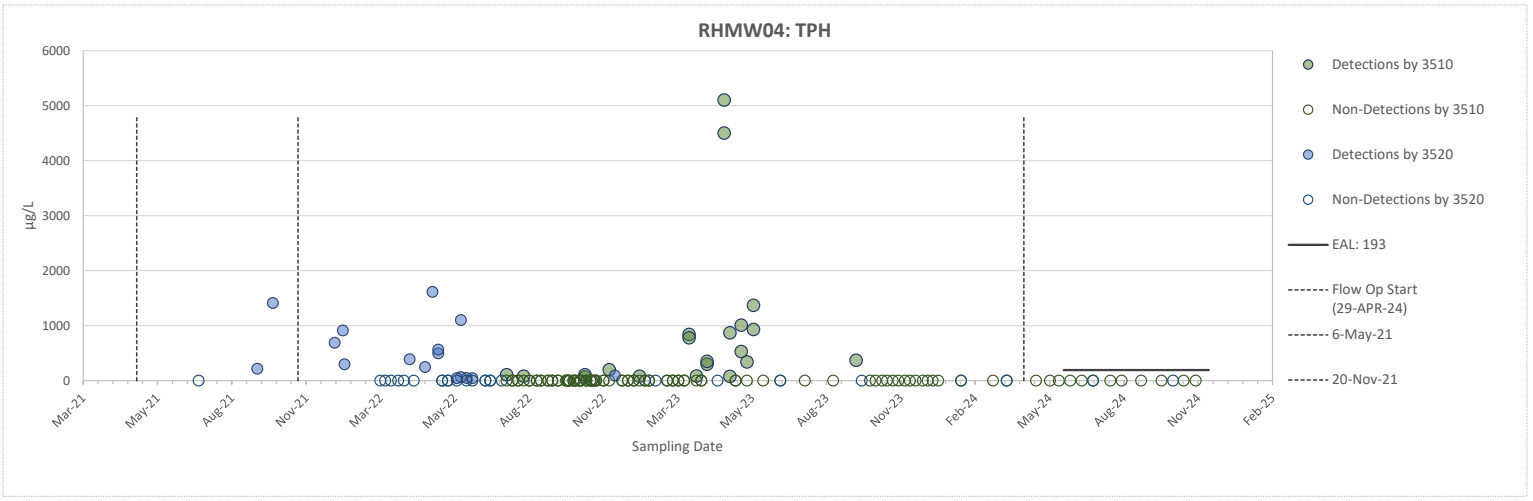


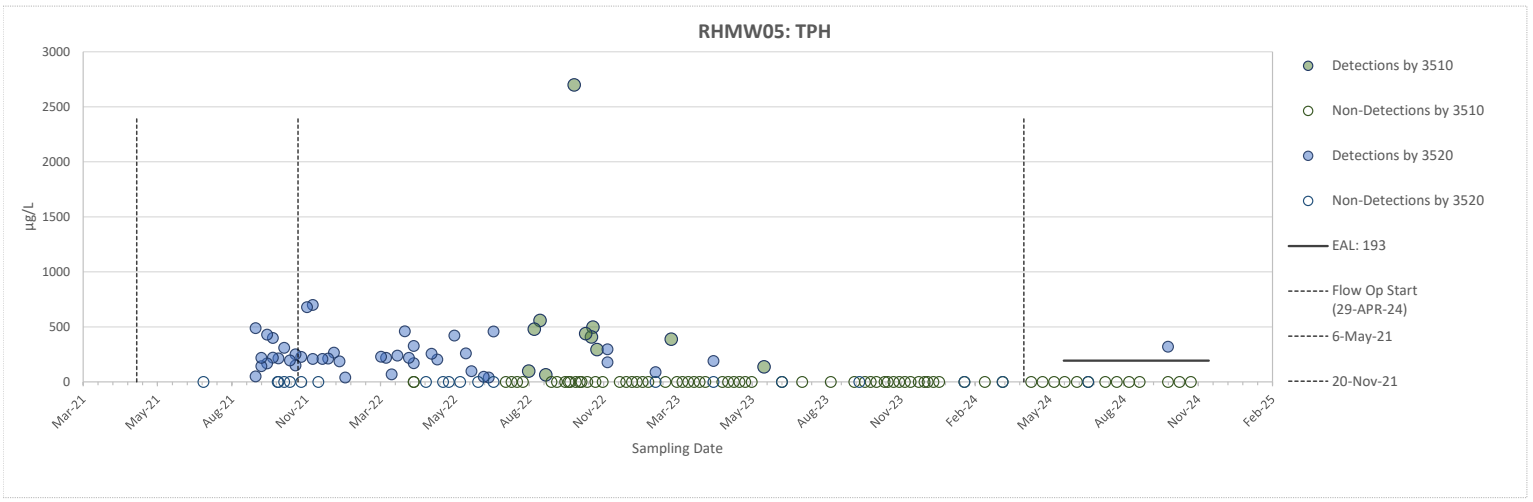




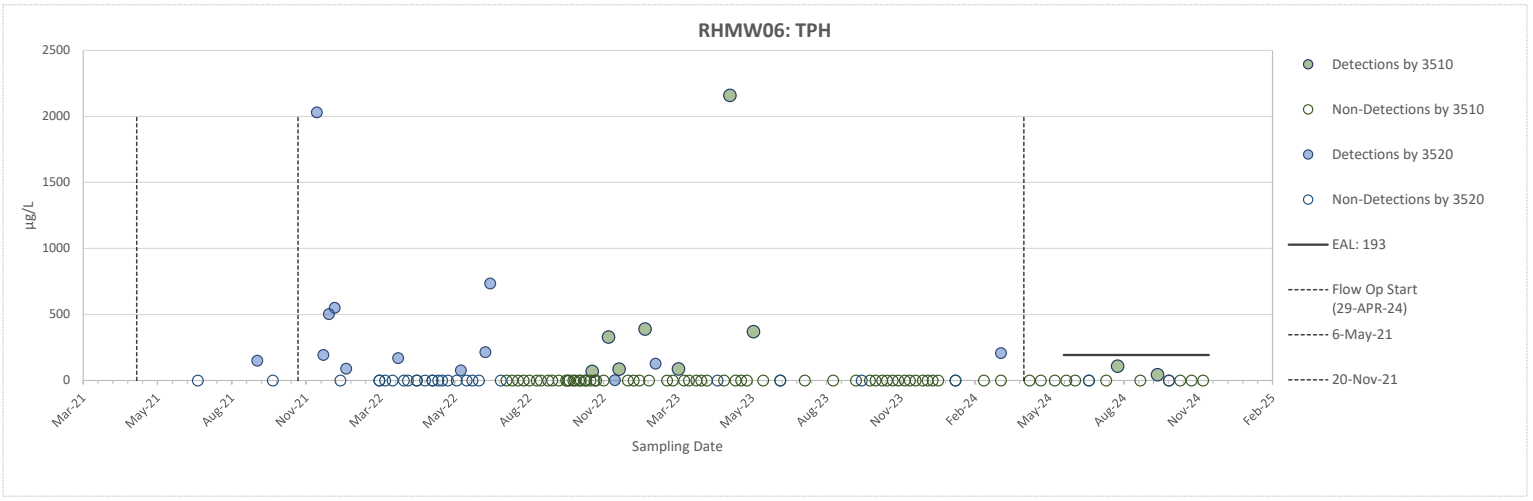
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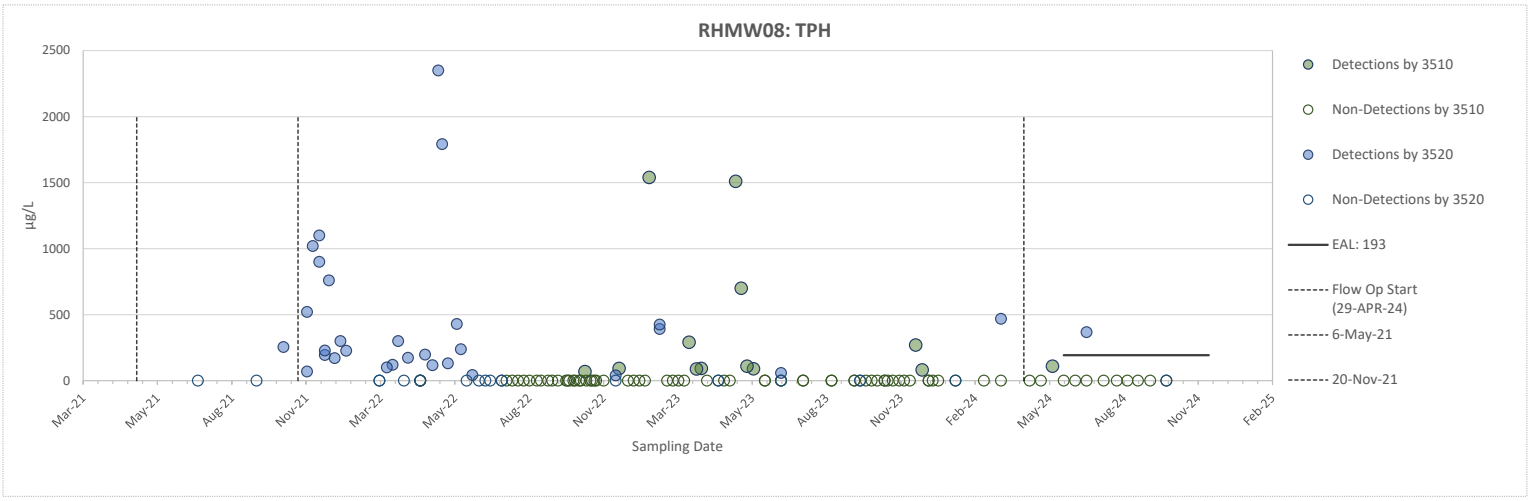


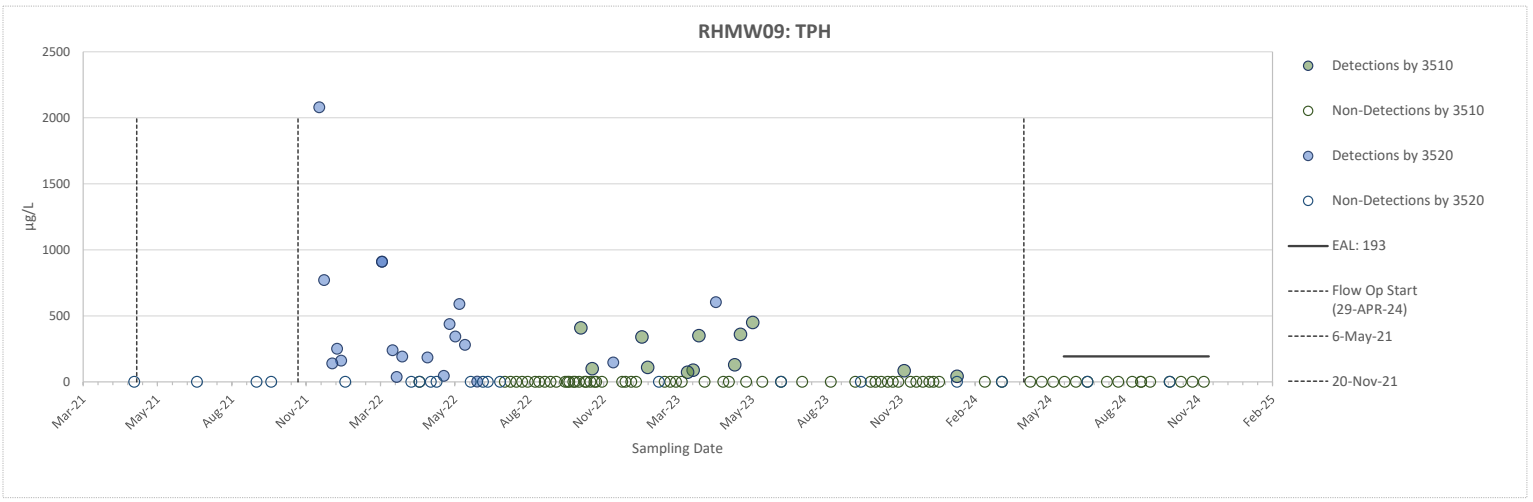




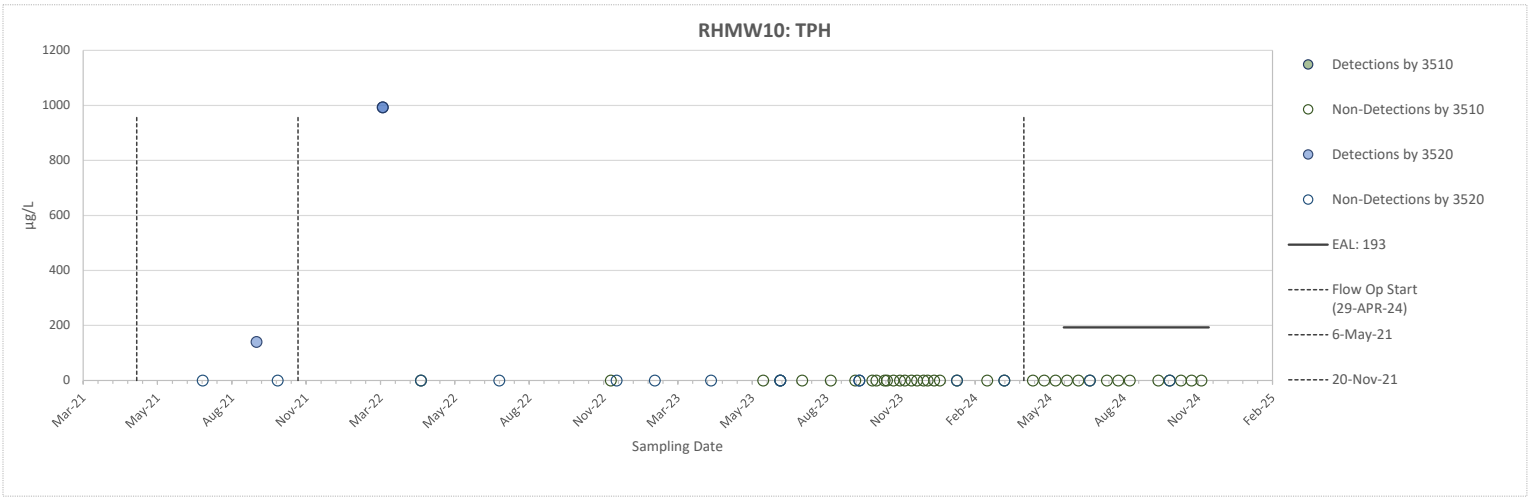
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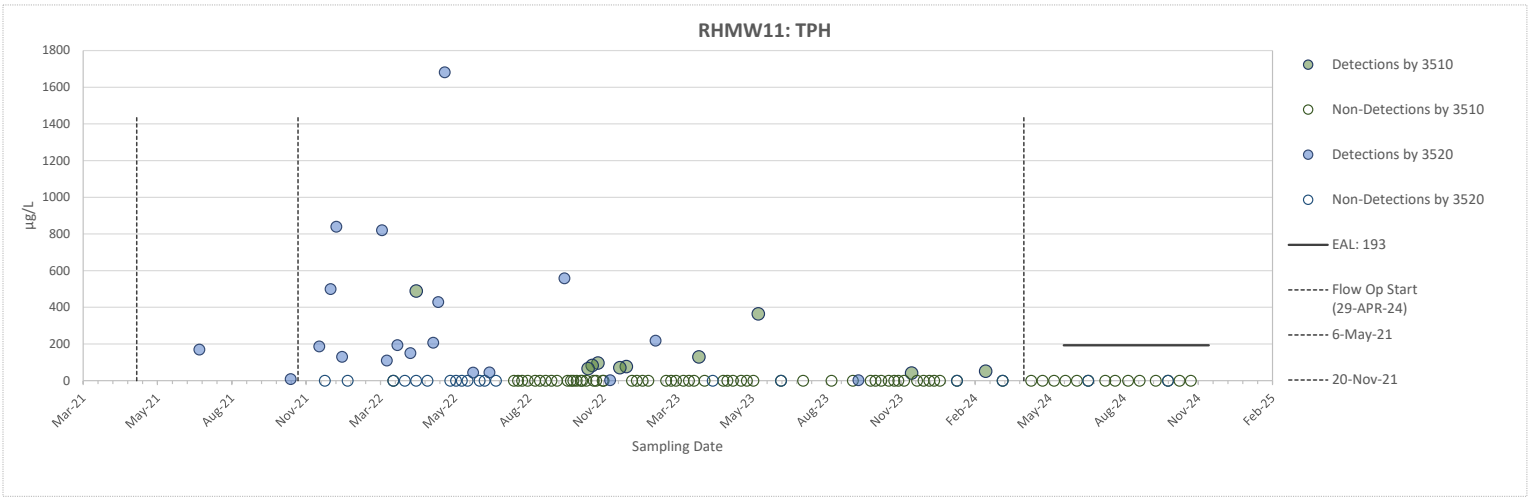


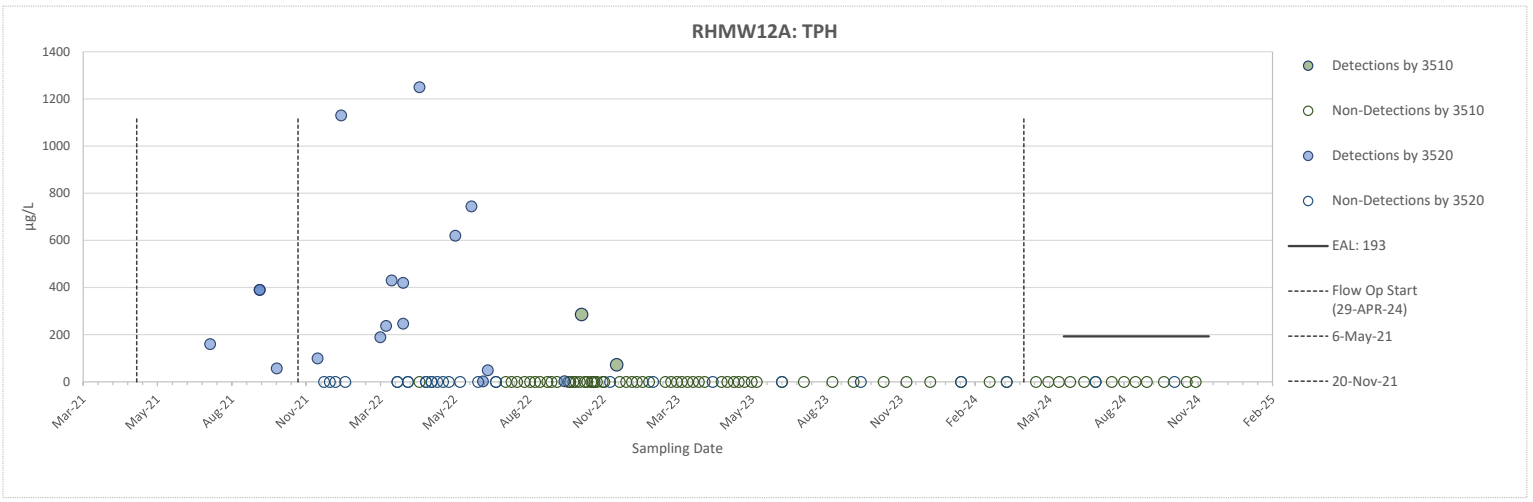




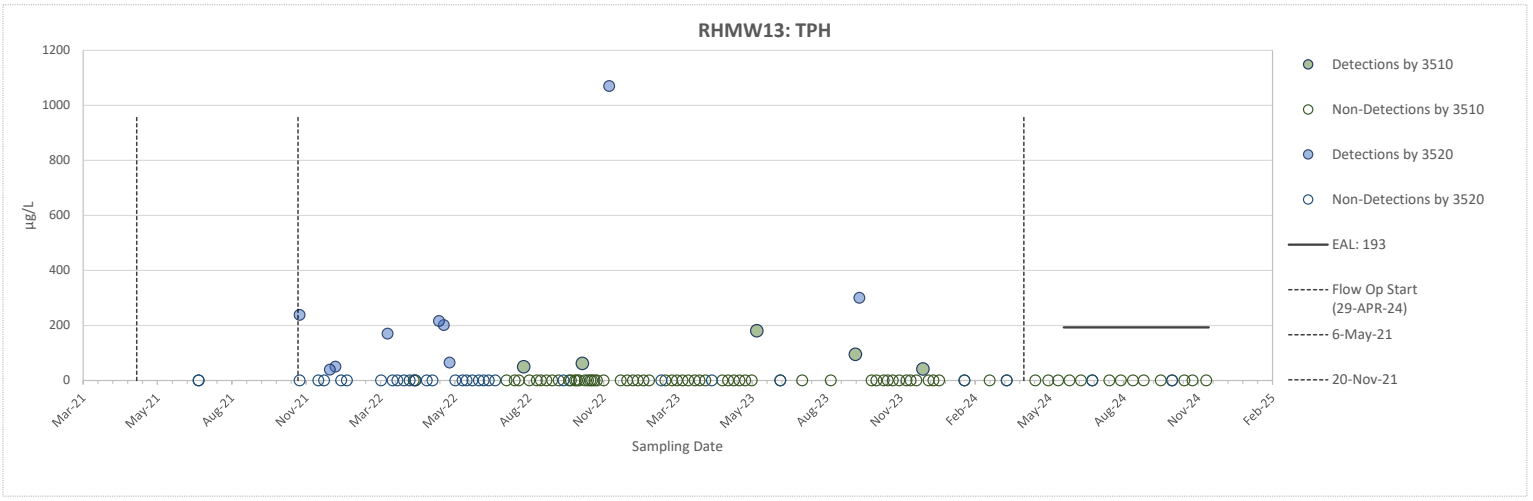
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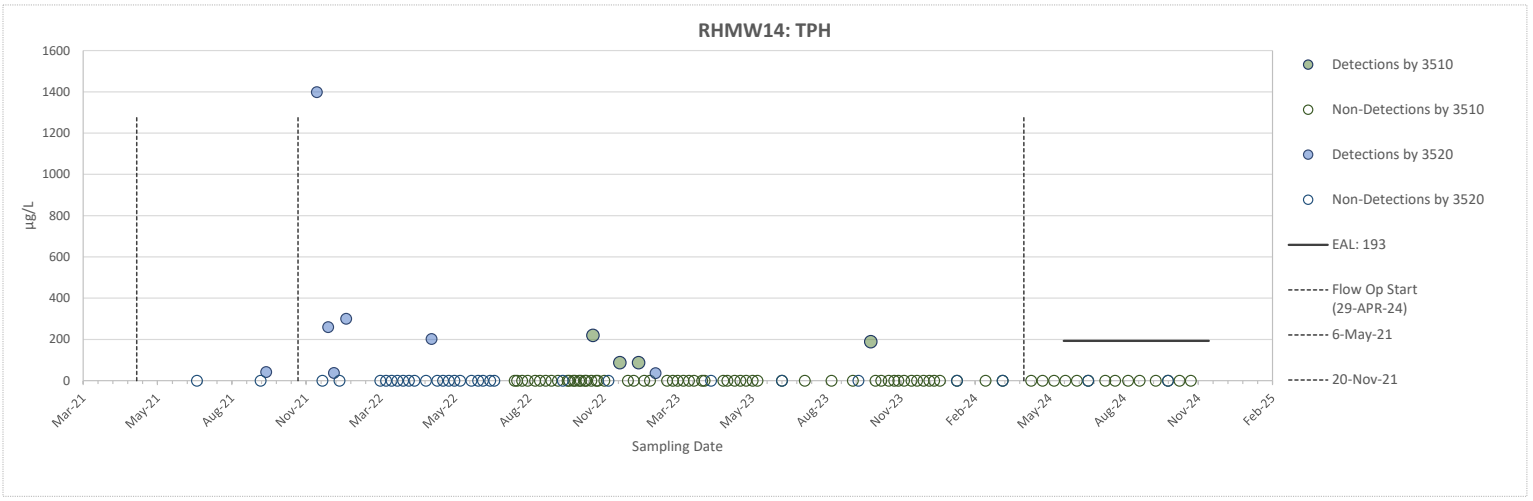


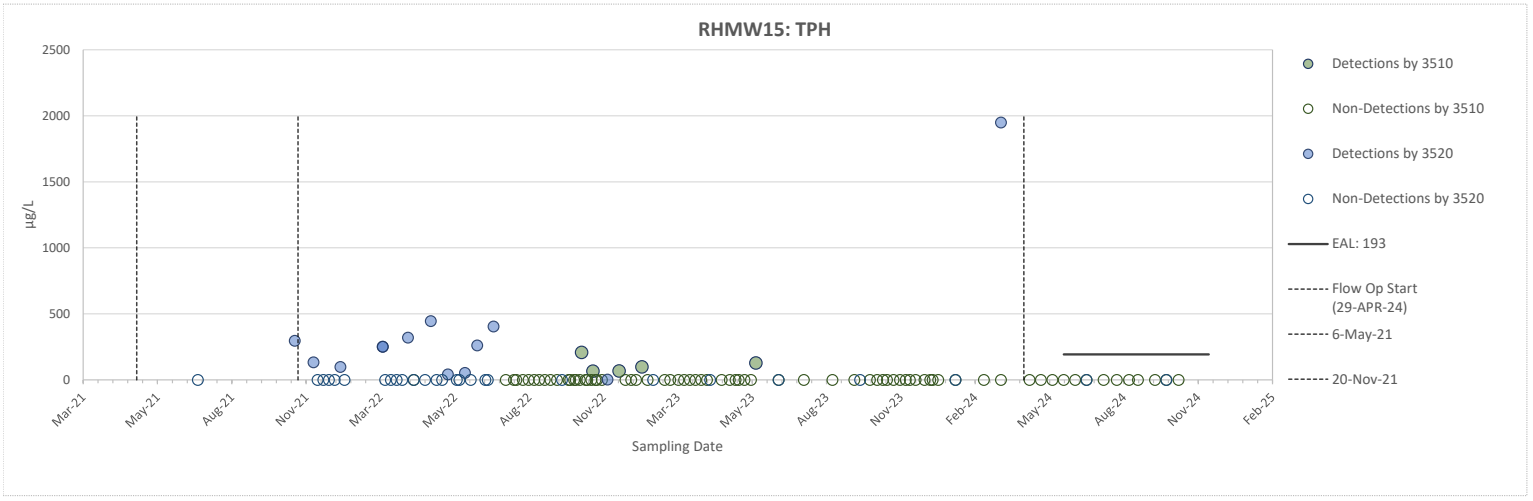




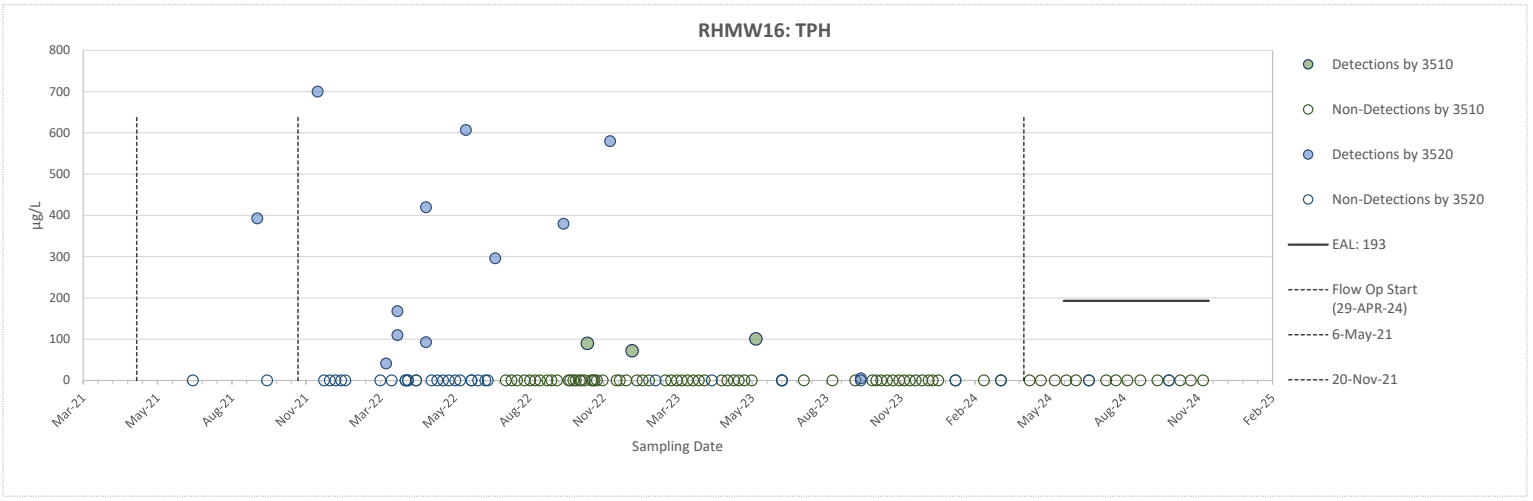
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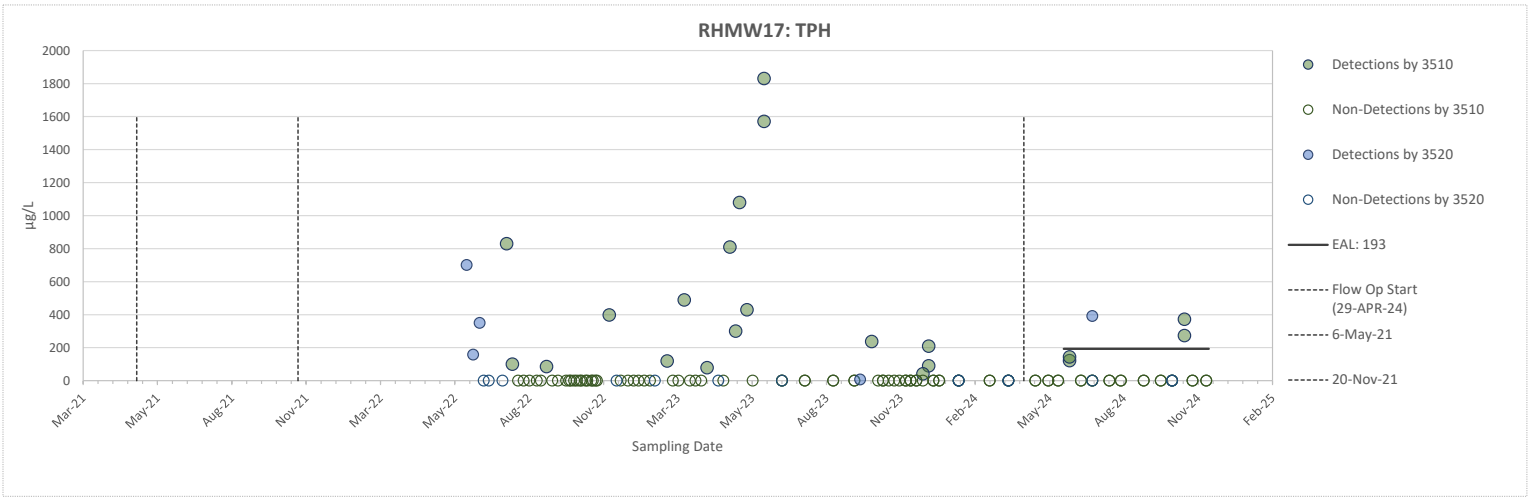


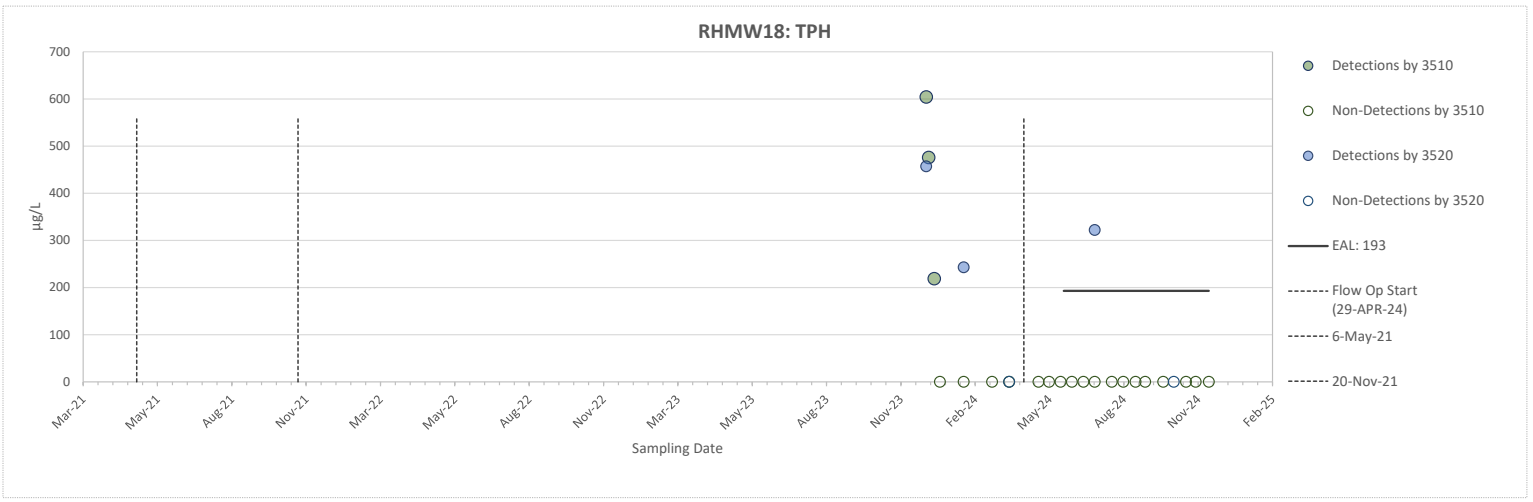




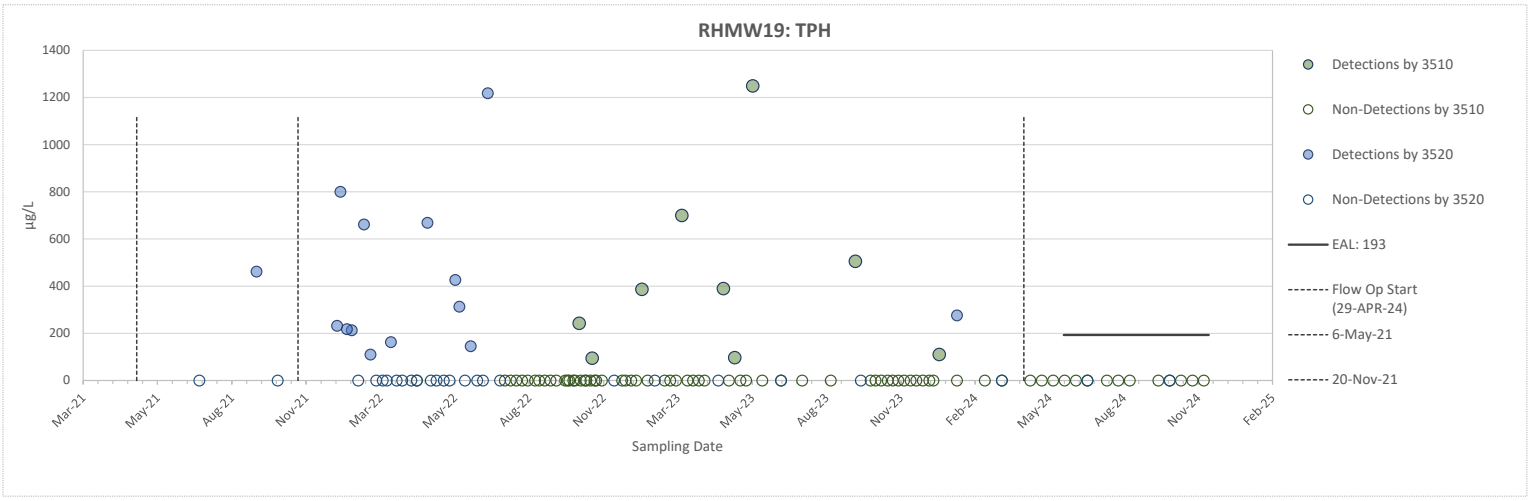
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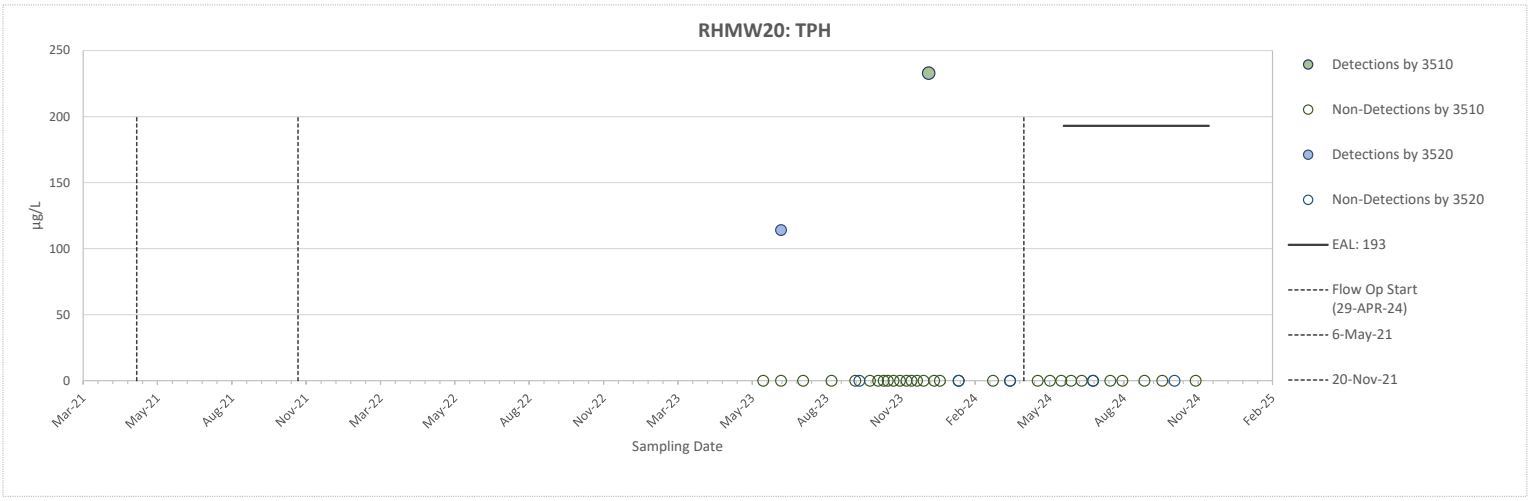


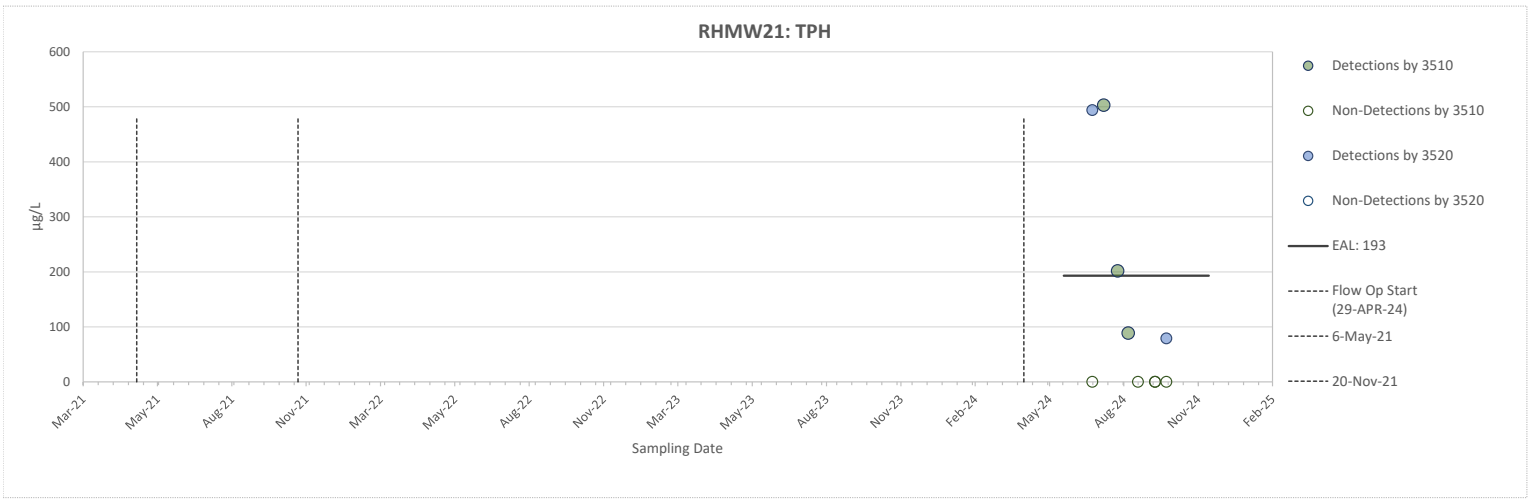




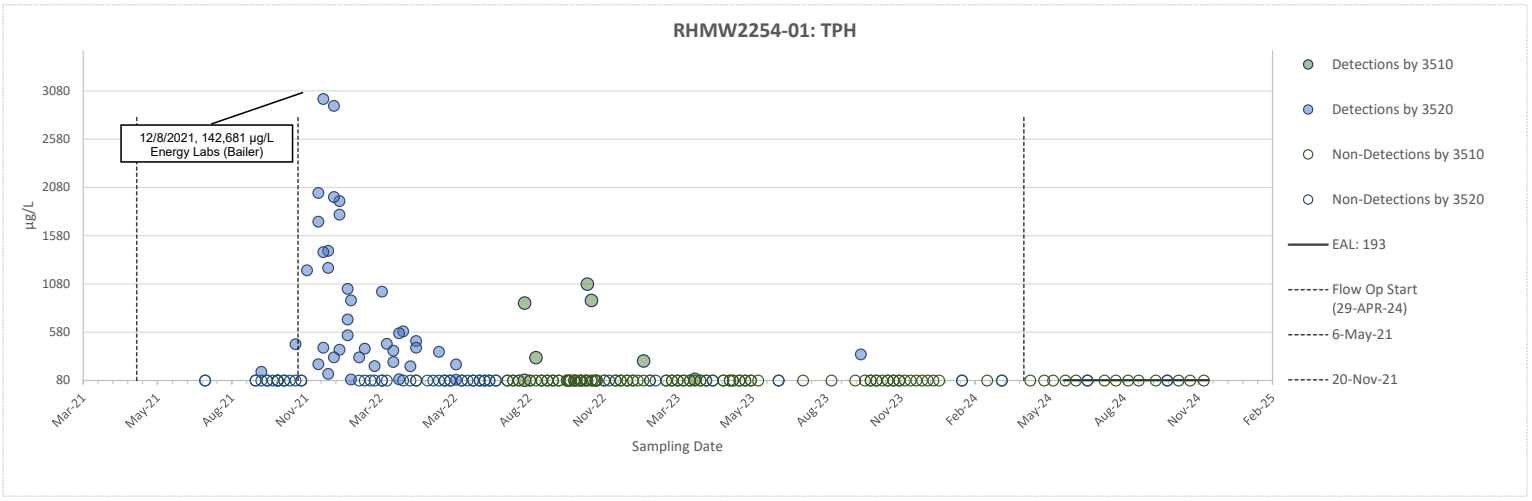
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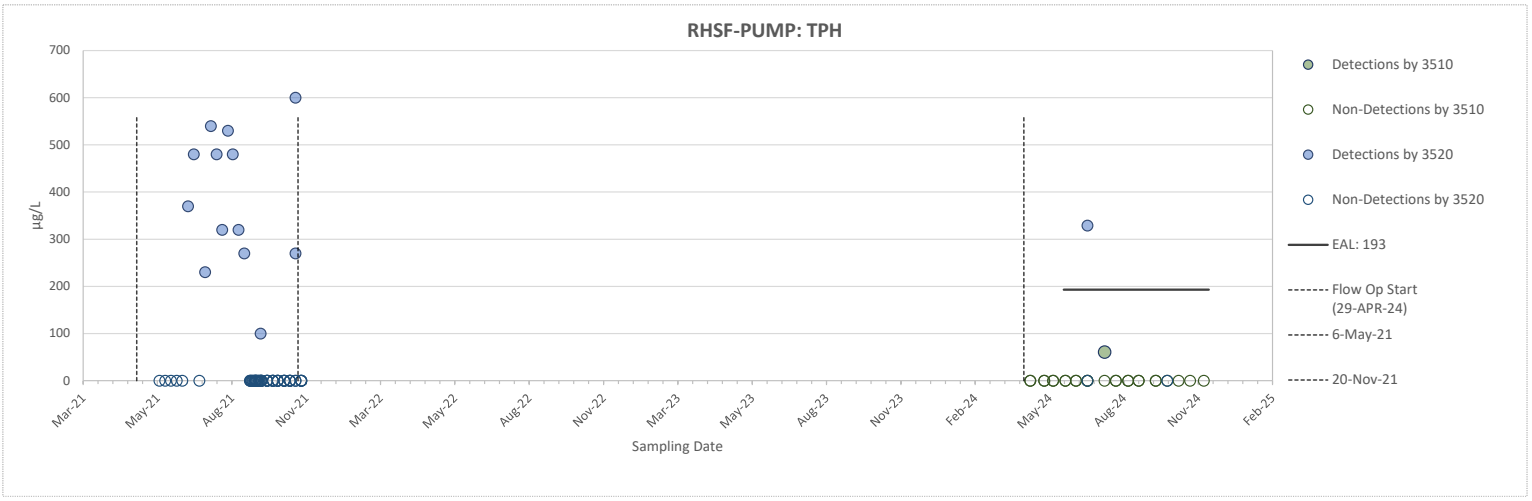


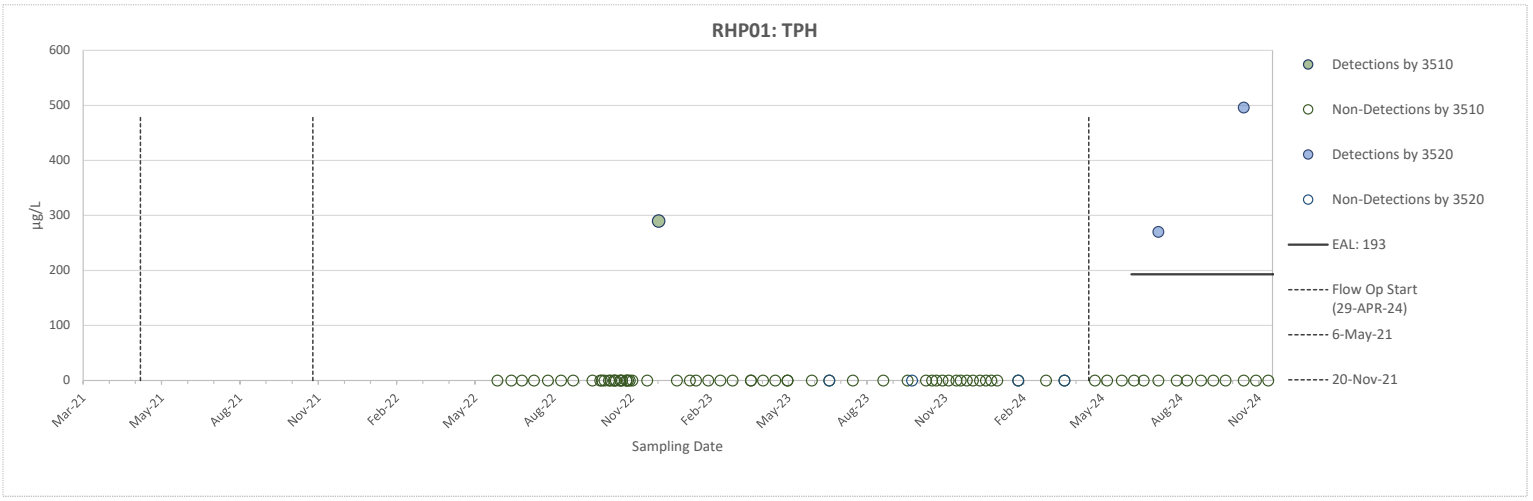


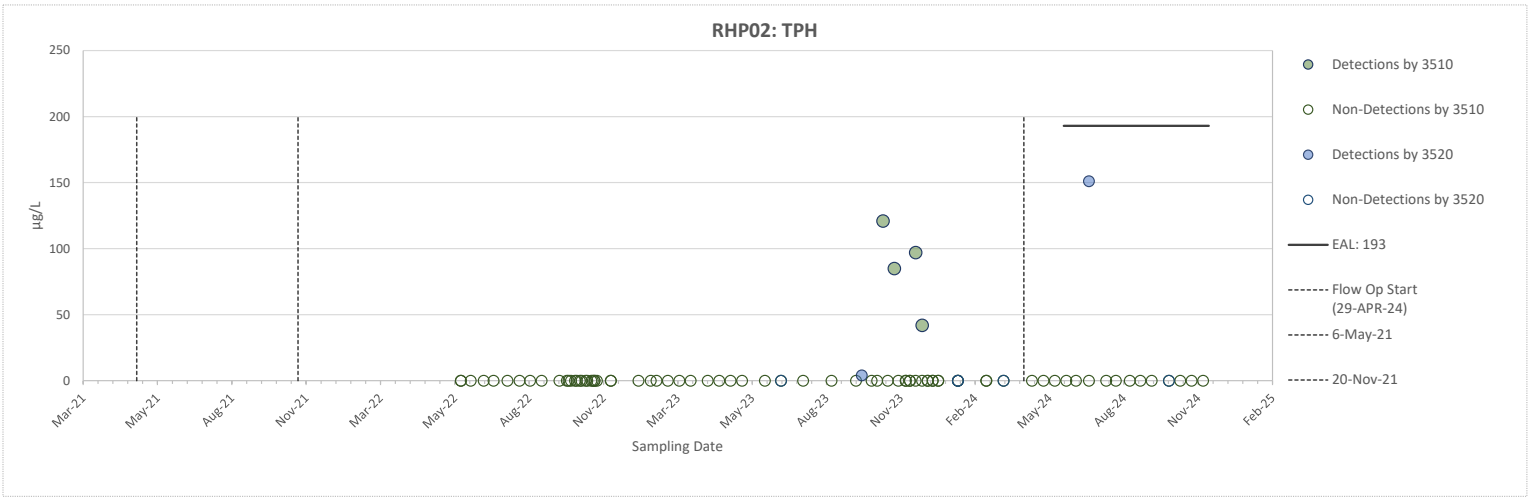


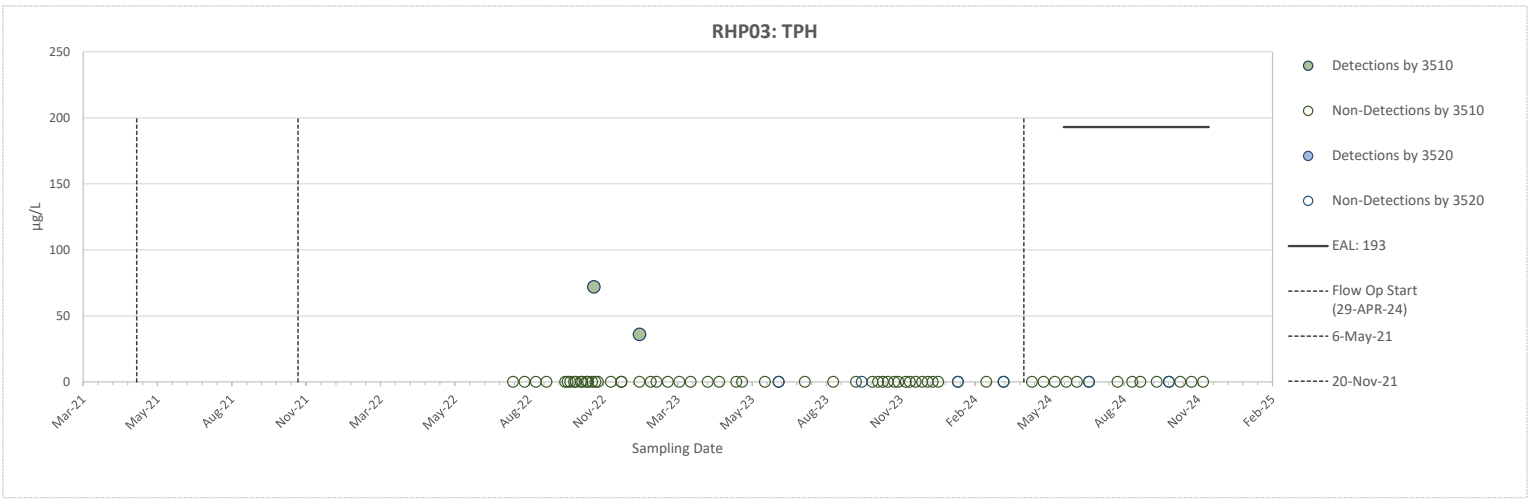
Note: See Data Legend


RHMW2254-01: TPH
12/8/2021, 142,681 µg/L
Energy Labs (Bailer)
µg/L
3080
2580
2080
1580
1080
580
80
Mar-21
May-21
Aug-21
Nov-21
Mar-22
May-22
Aug-22
Nov-22
Mar-23
May-23
Aug-23
Nov-23
Feb-24
May-24
Aug-24
Nov-24
Feb-25
Sampling Date
Detections by 3510
Detections by 3520
Non-Detections by 3510
Non-Detections by 3520
EAL: 193
Flow Op Start (29-APR-24)
6-May-21
20-Nov-21

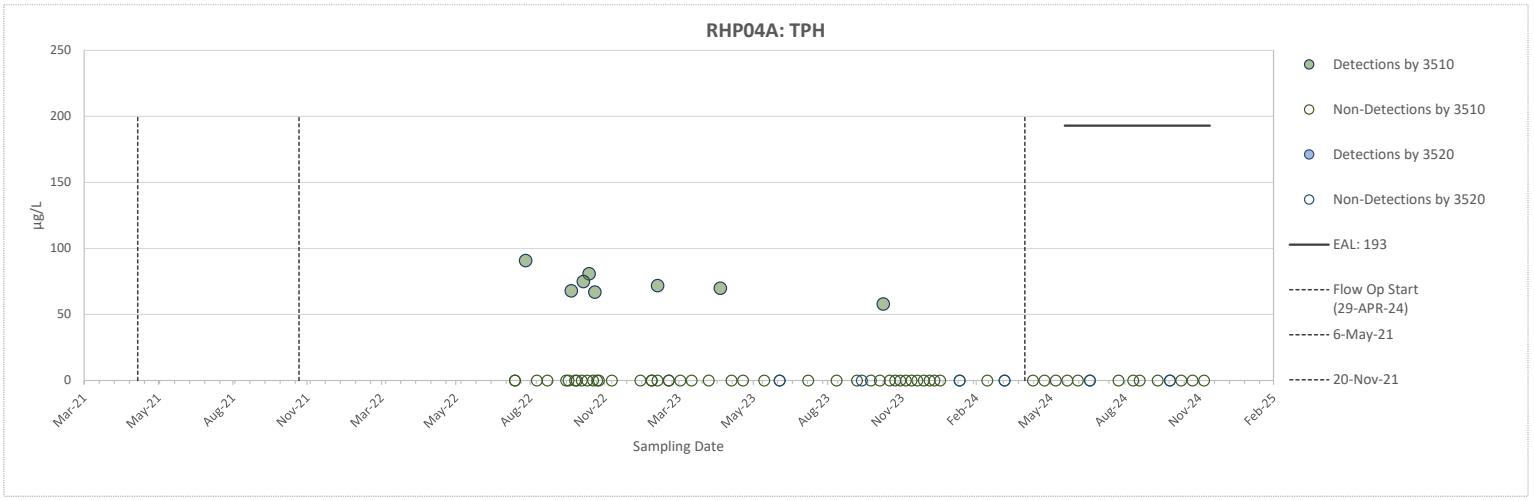

RHSF-PUMP: TPH
µg/L
700
600
500
400
300
200
100
0
Mar-21
May-21
Aug-21
Nov-21
Mar-22
May-22
Aug-22
Nov-22
Mar-23
May-23
Aug-23
Nov-23
Feb-24
May-24
Aug-24
Nov-24
Feb-25
Sampling Date
Detections by 3510
Non-Detections by 3510
Detections by 3520
Non-Detections by 3520
EAL: 193
Flow Op Start (29-APR-24)
6-May-21
20-Nov-21

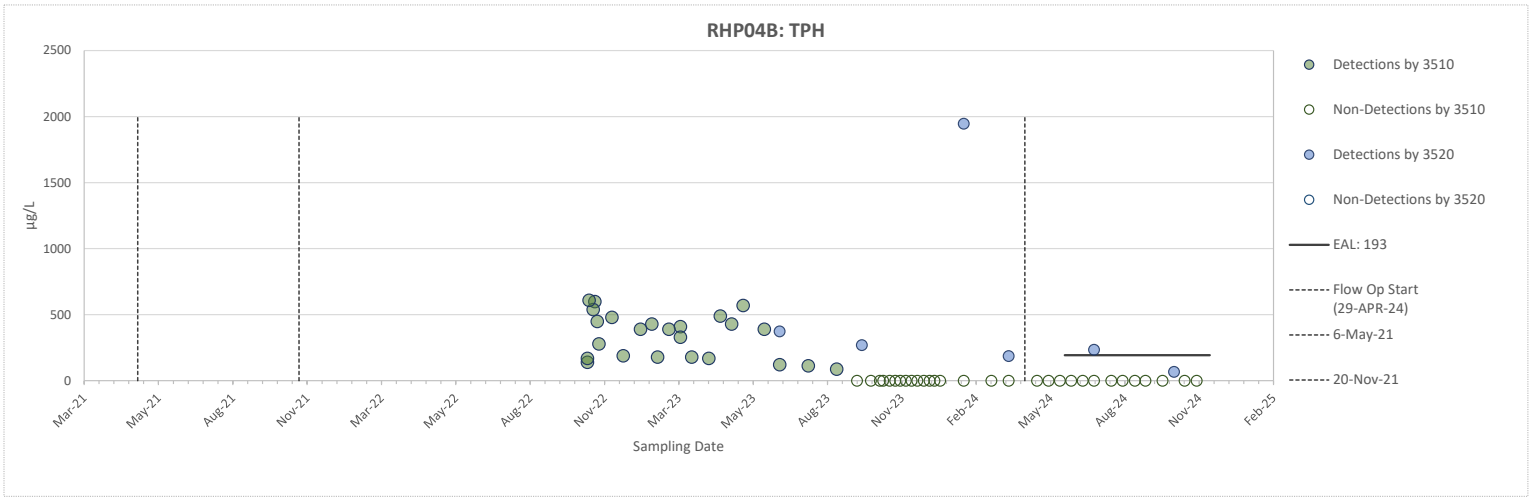


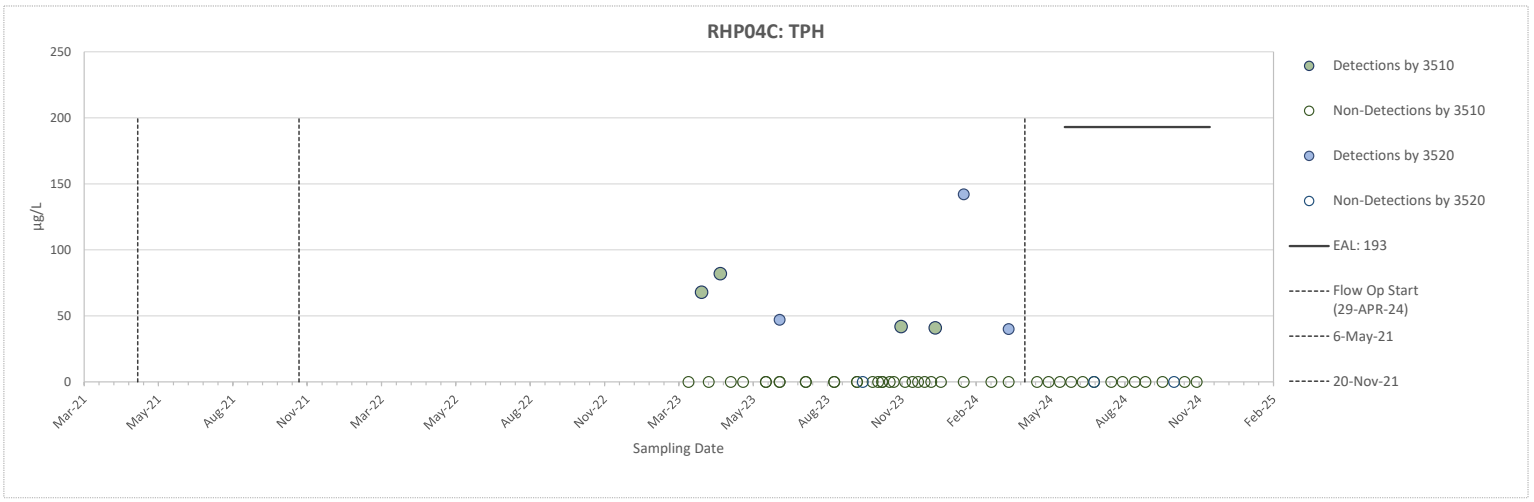




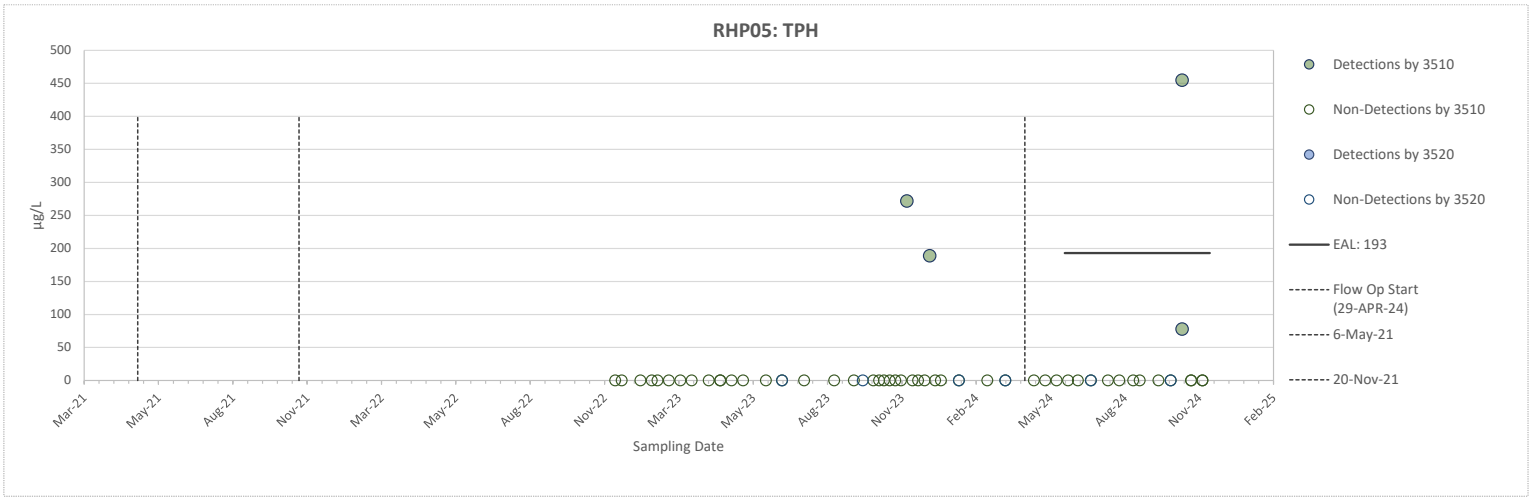
Note: See Data Legend

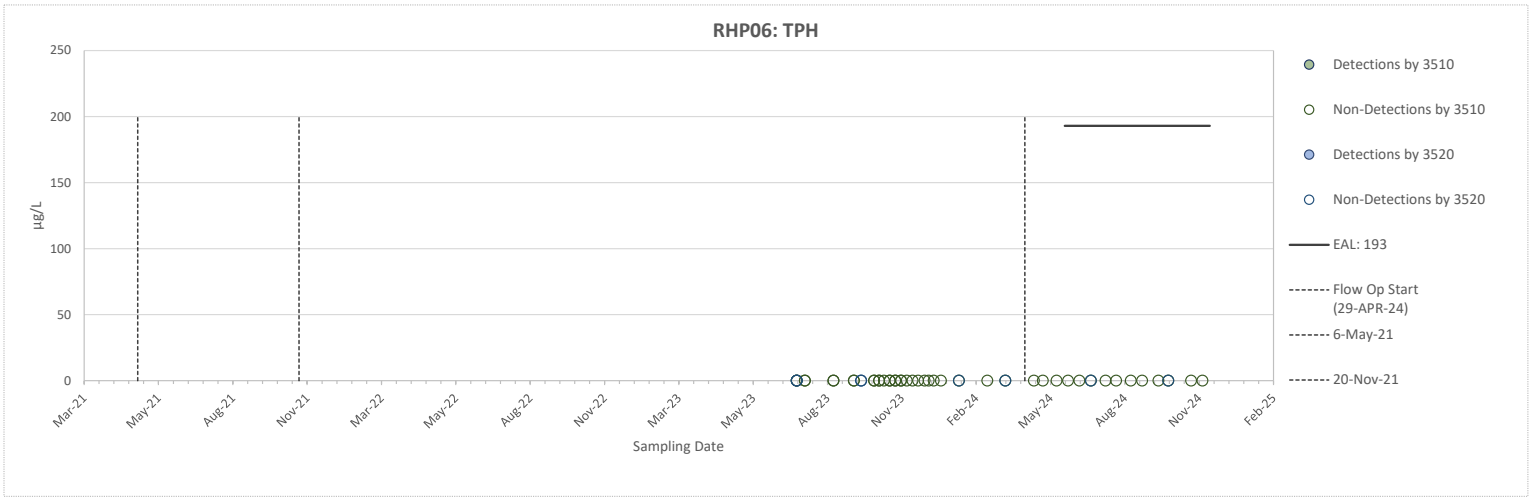


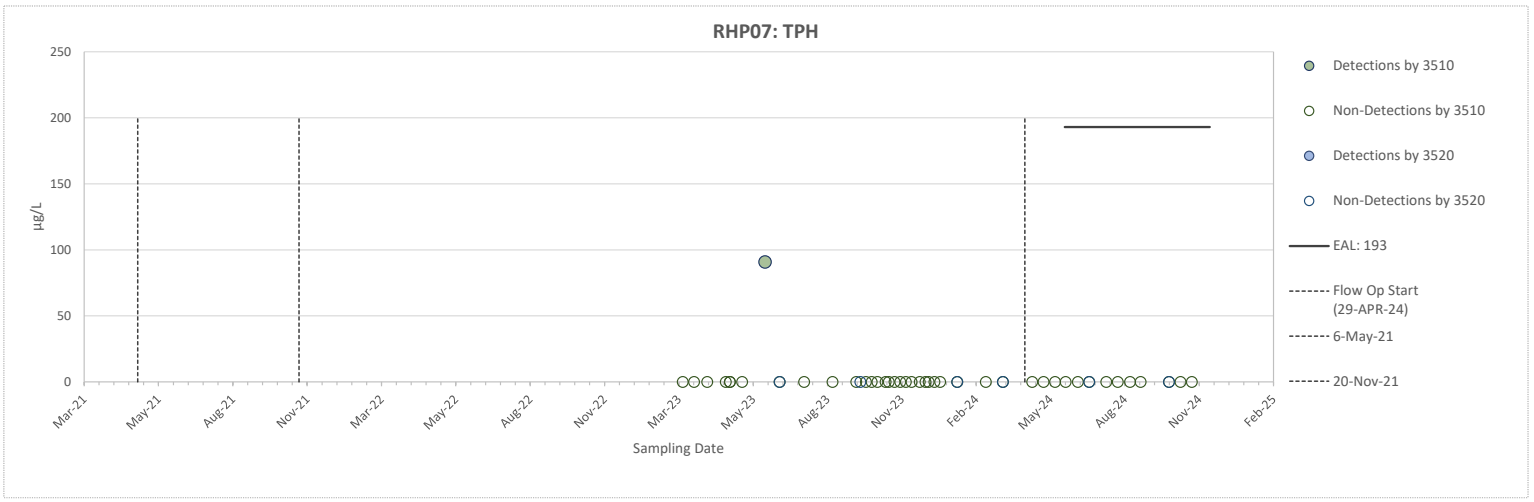




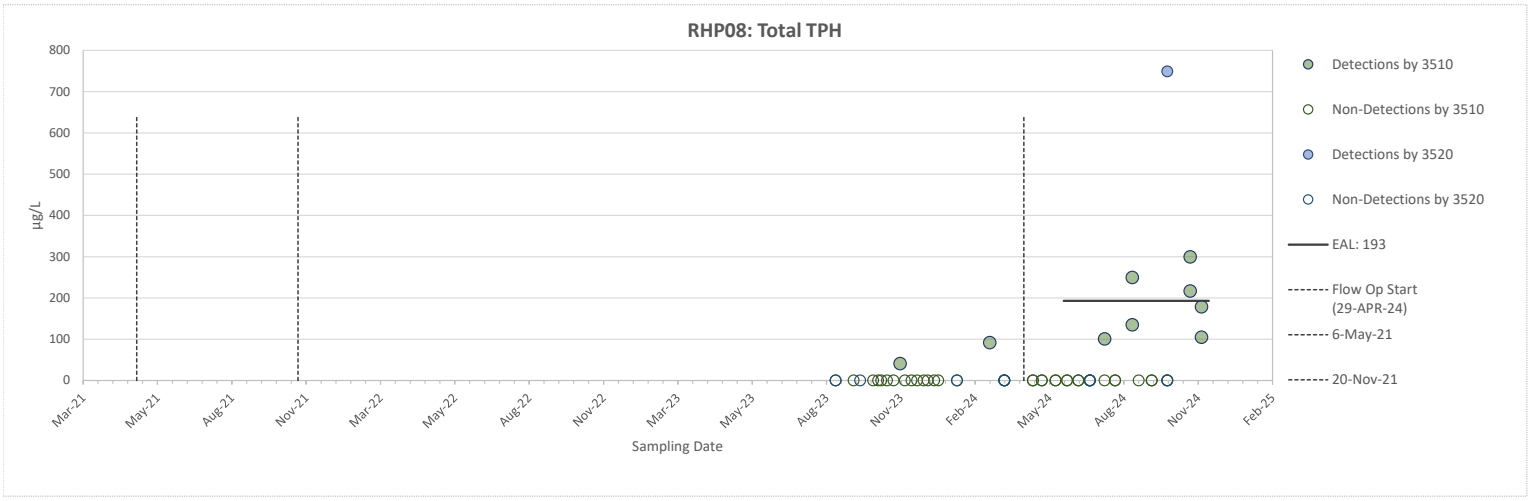
Note: See Data Legend

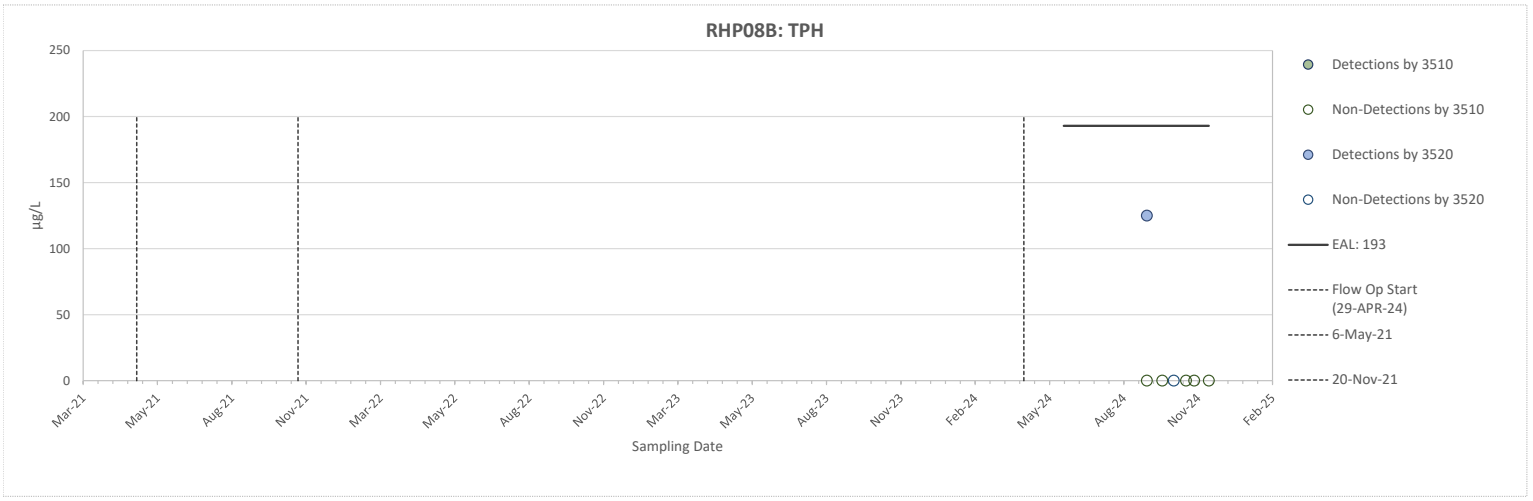


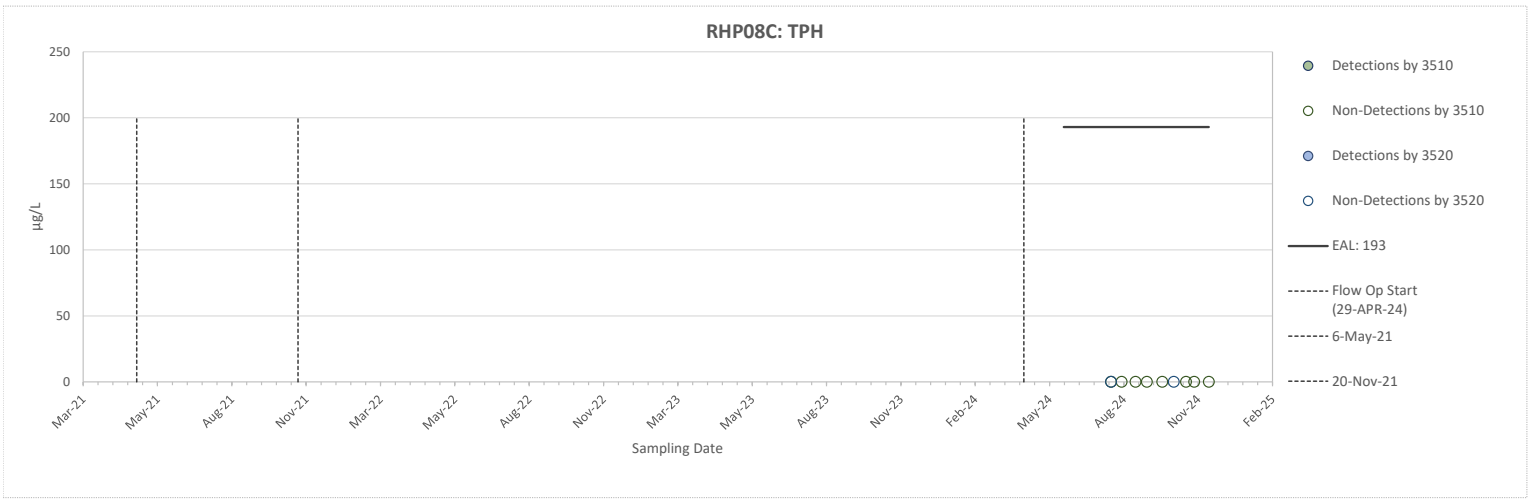




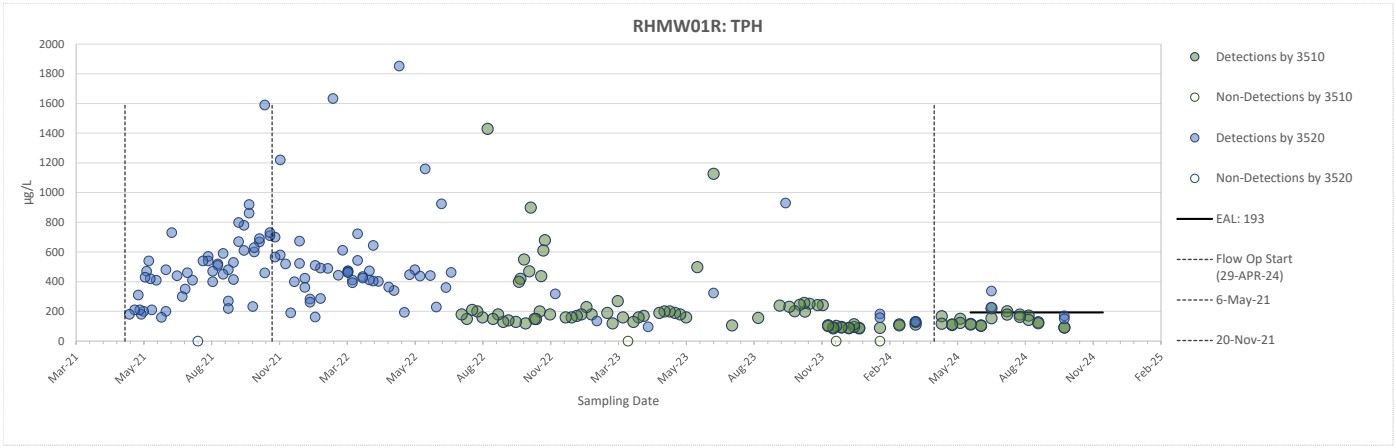
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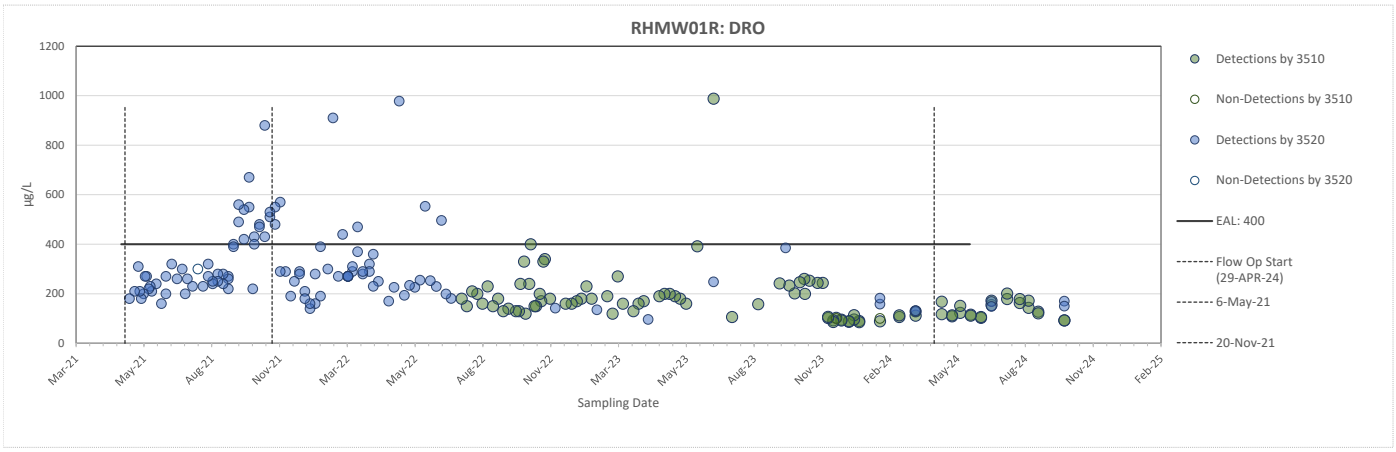


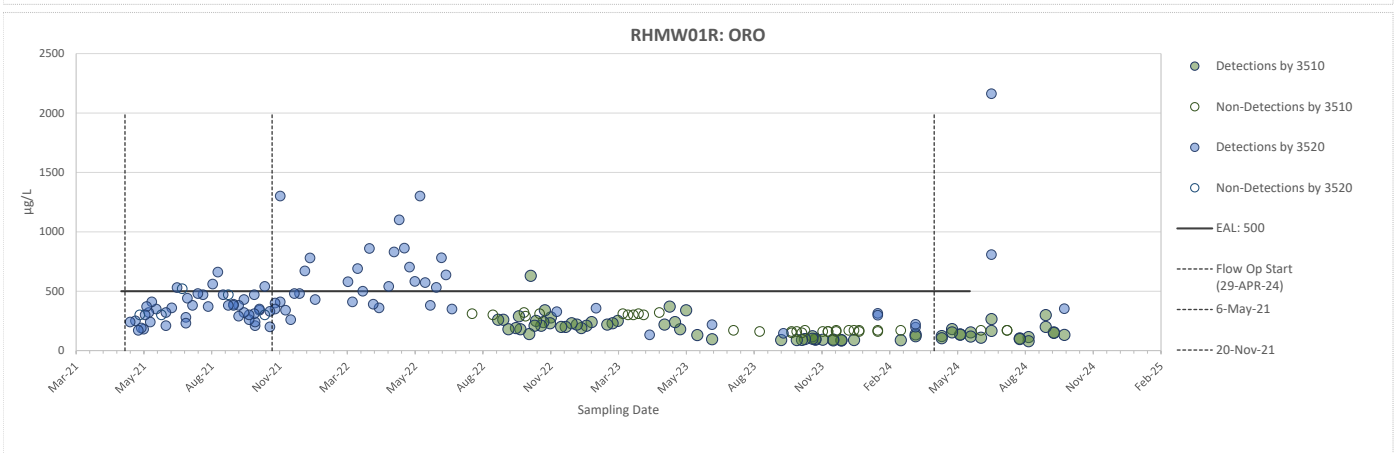


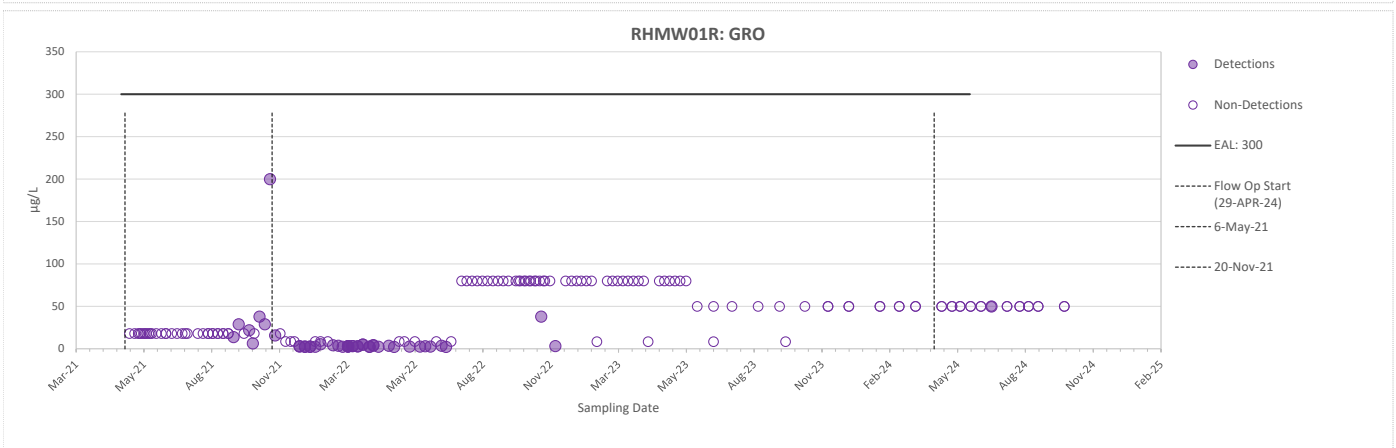


Note: See Data Legend

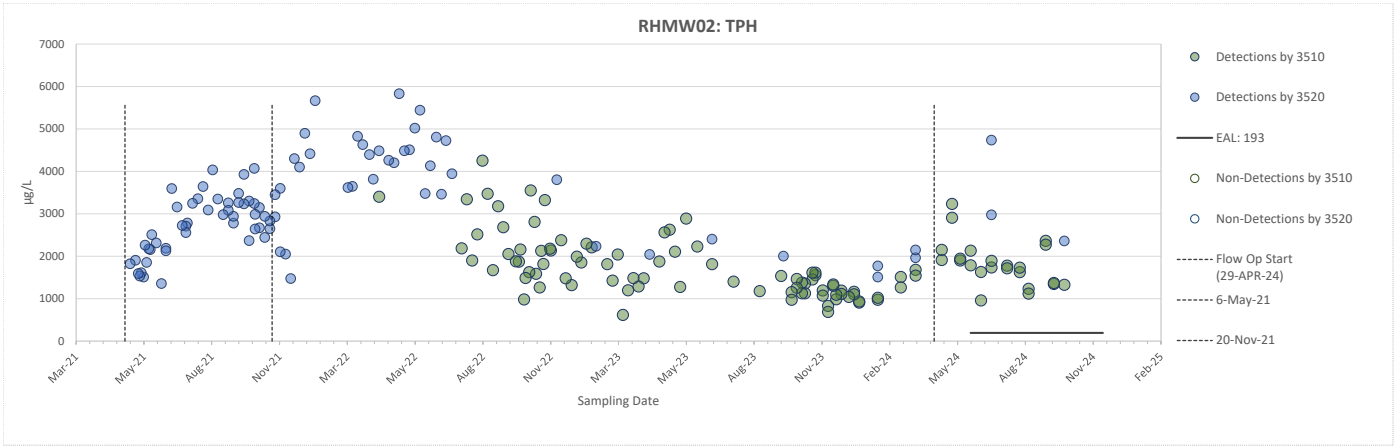


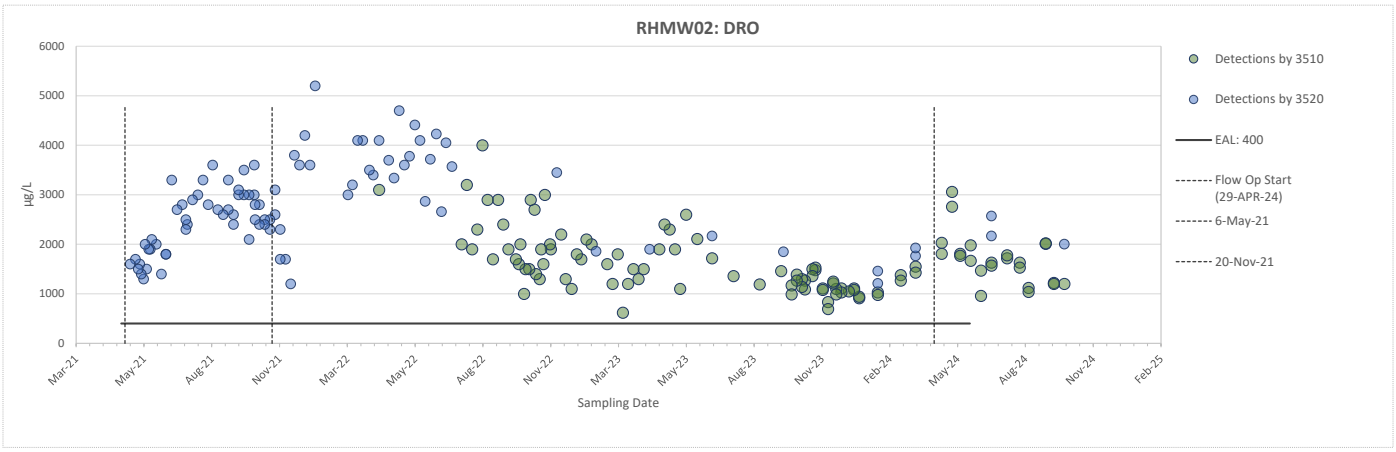


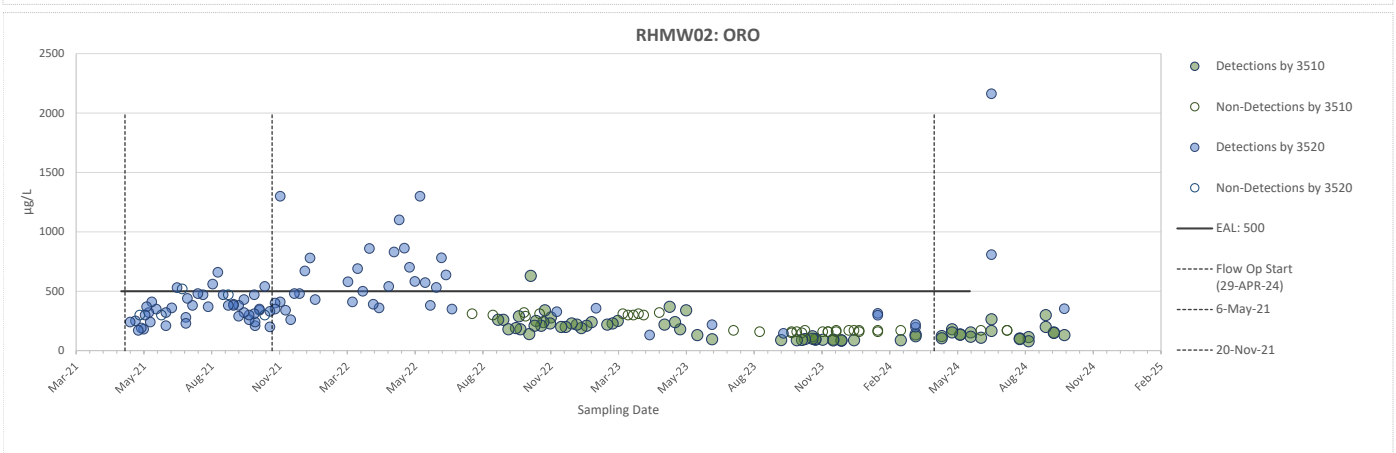


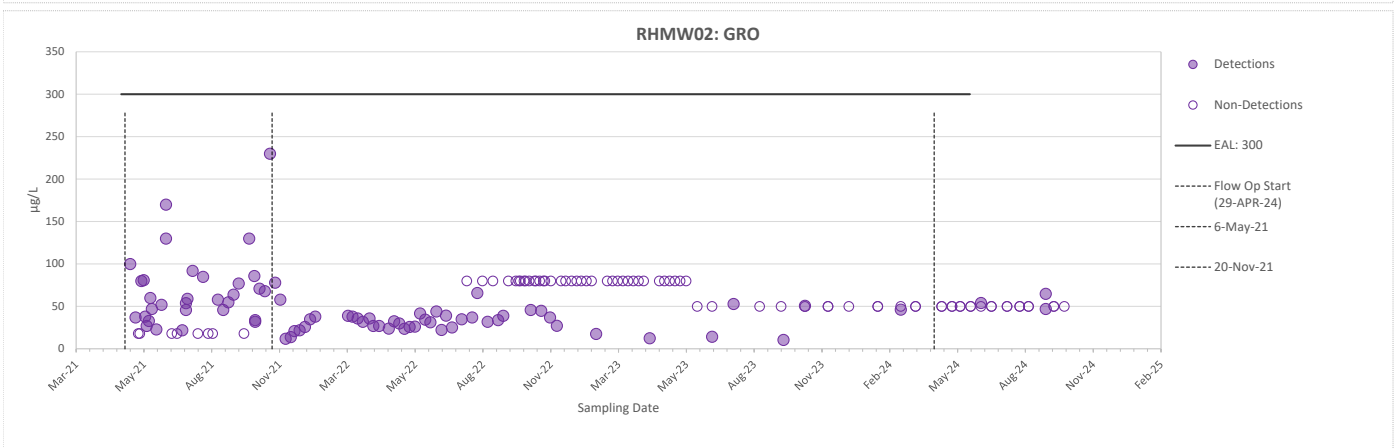


Note: See Data Legend

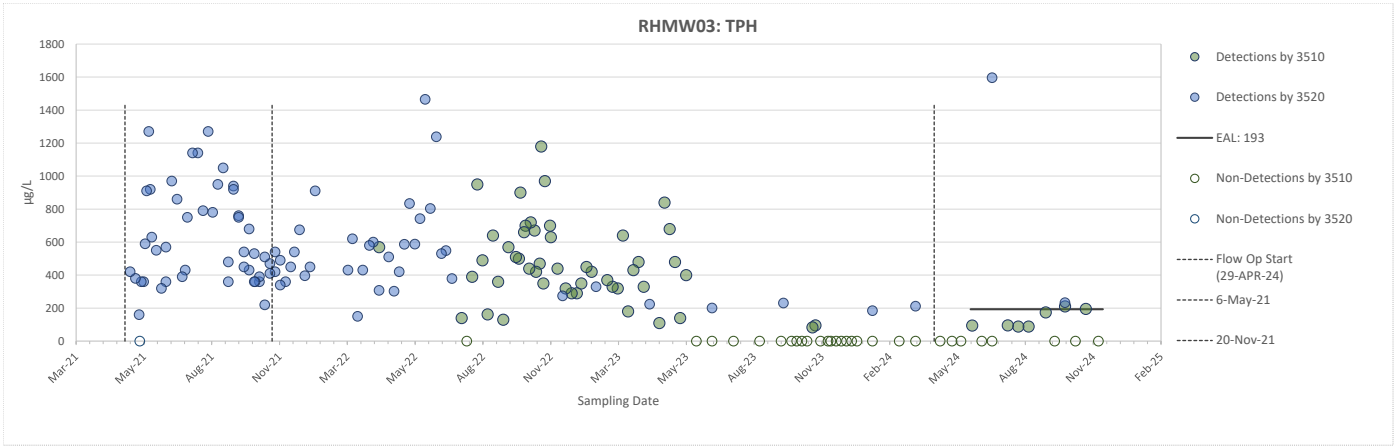


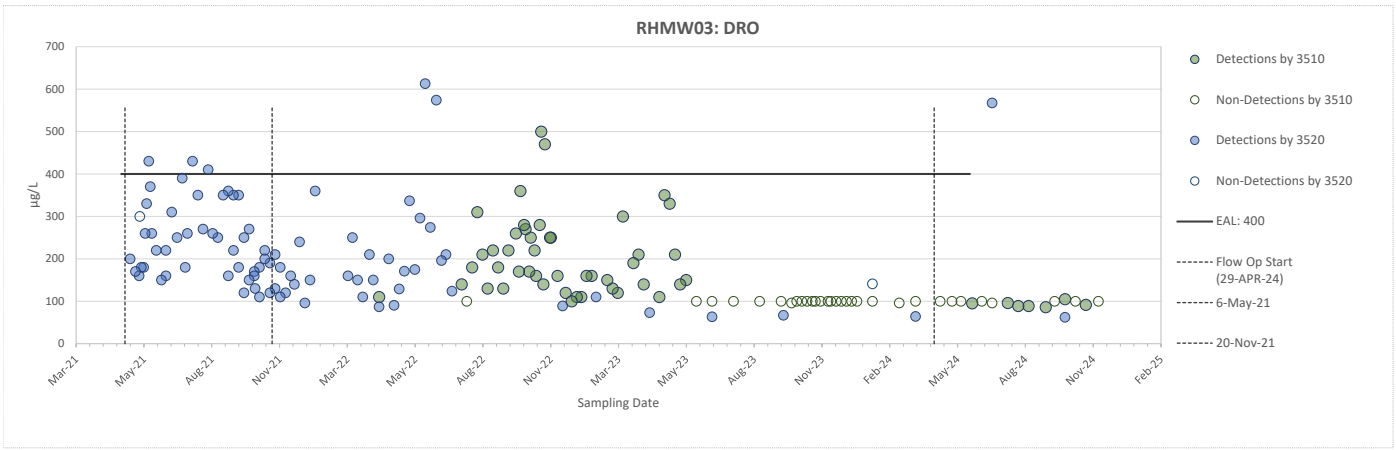


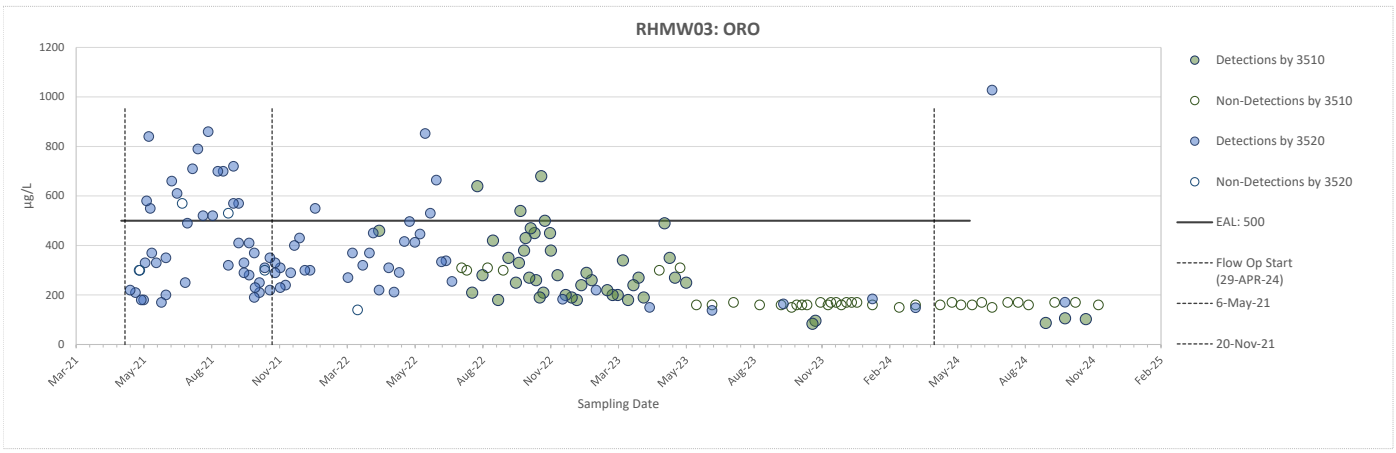


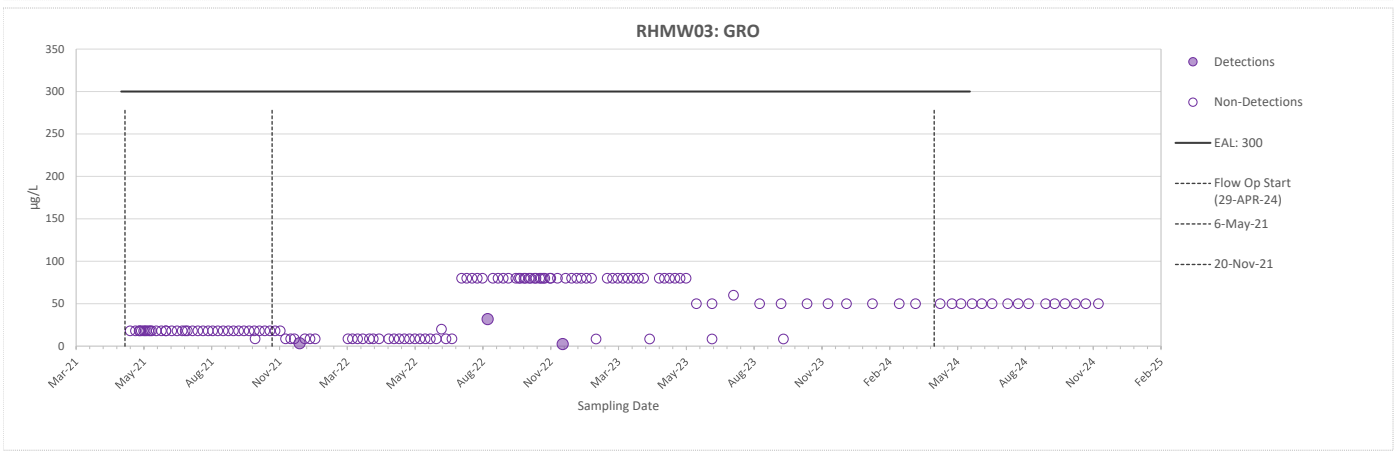


Note: See Data Legend

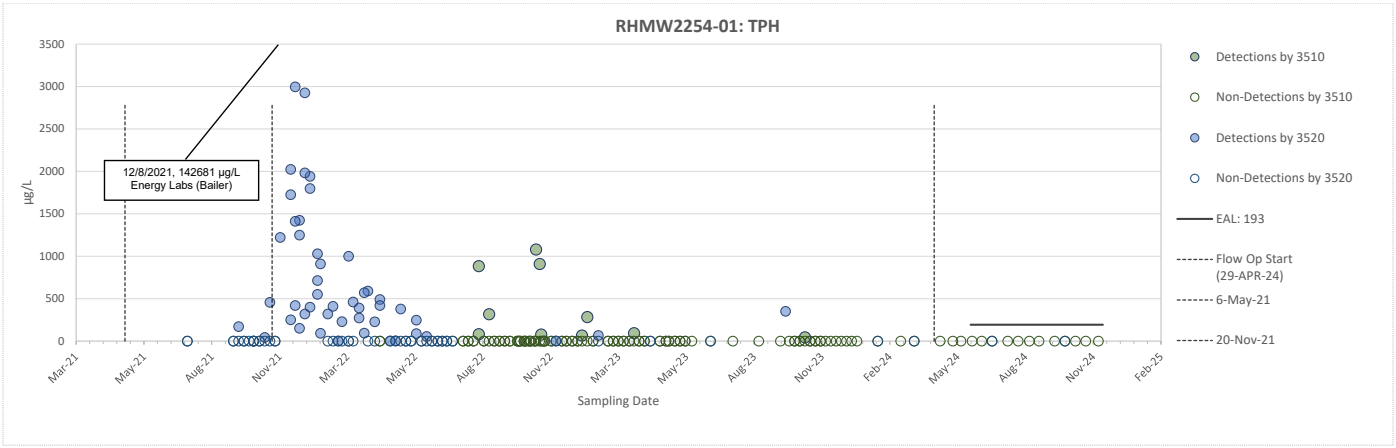


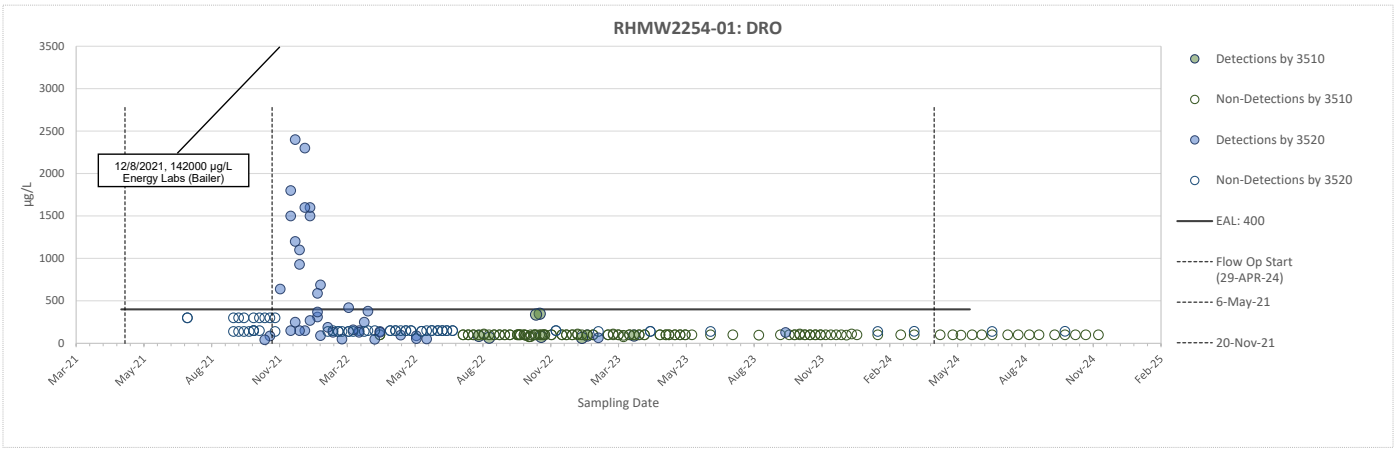


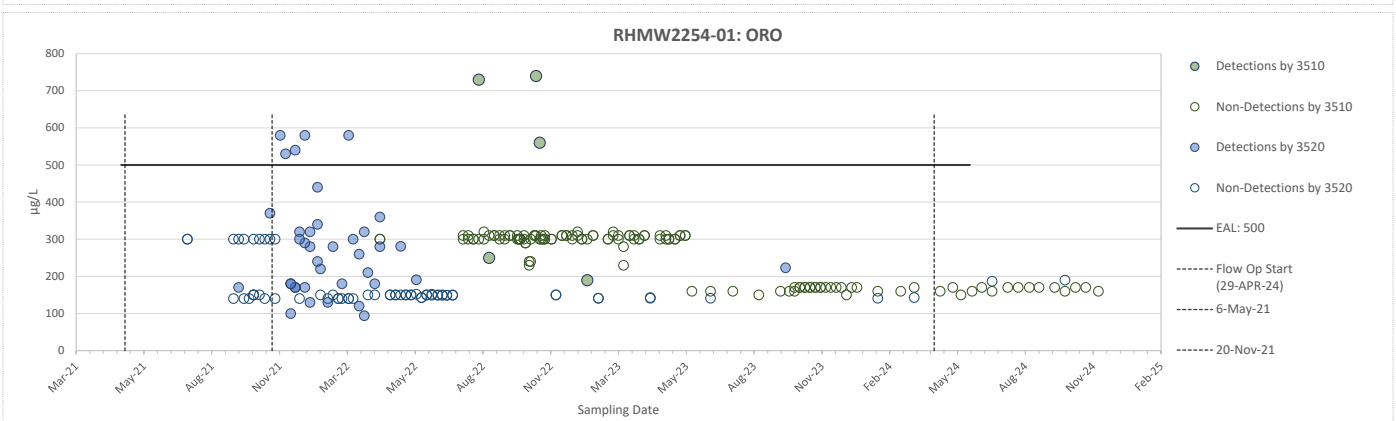


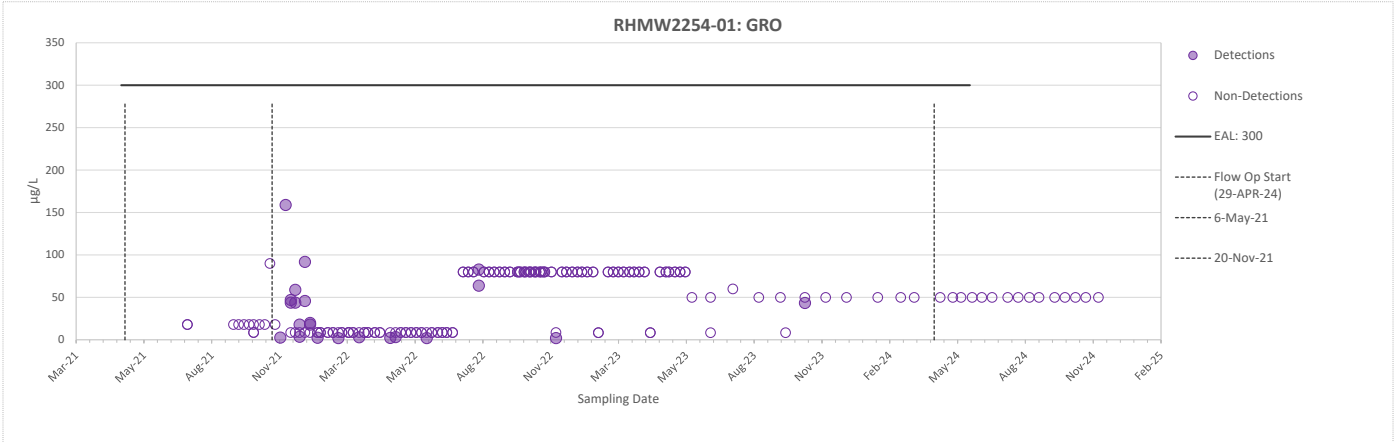


Note: See Data Legend

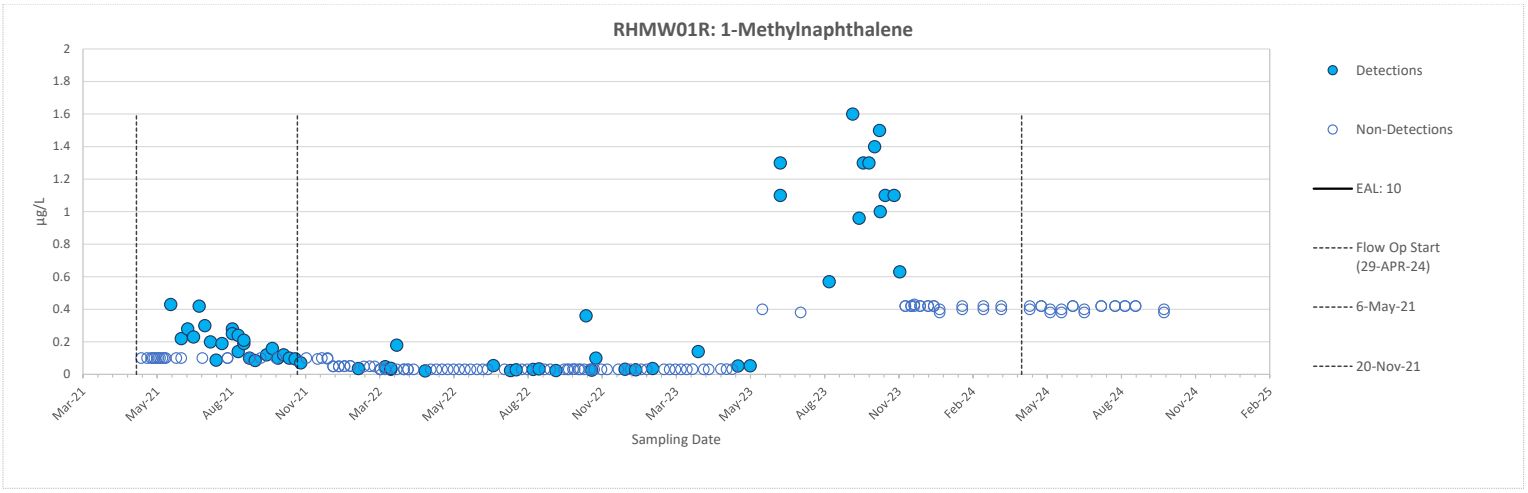


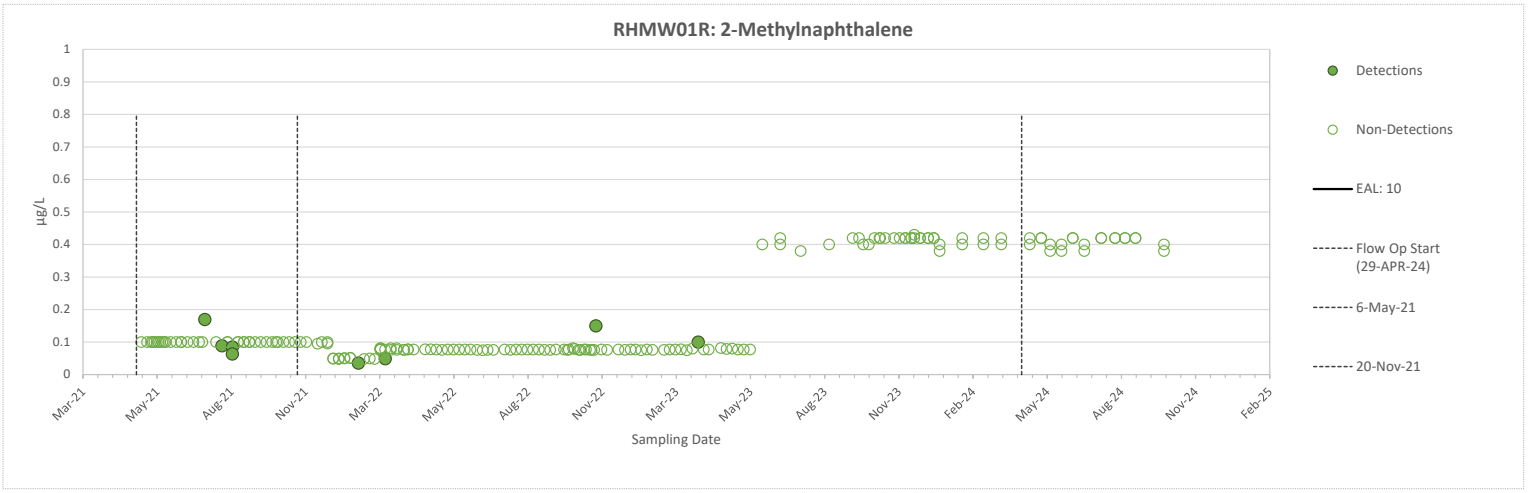


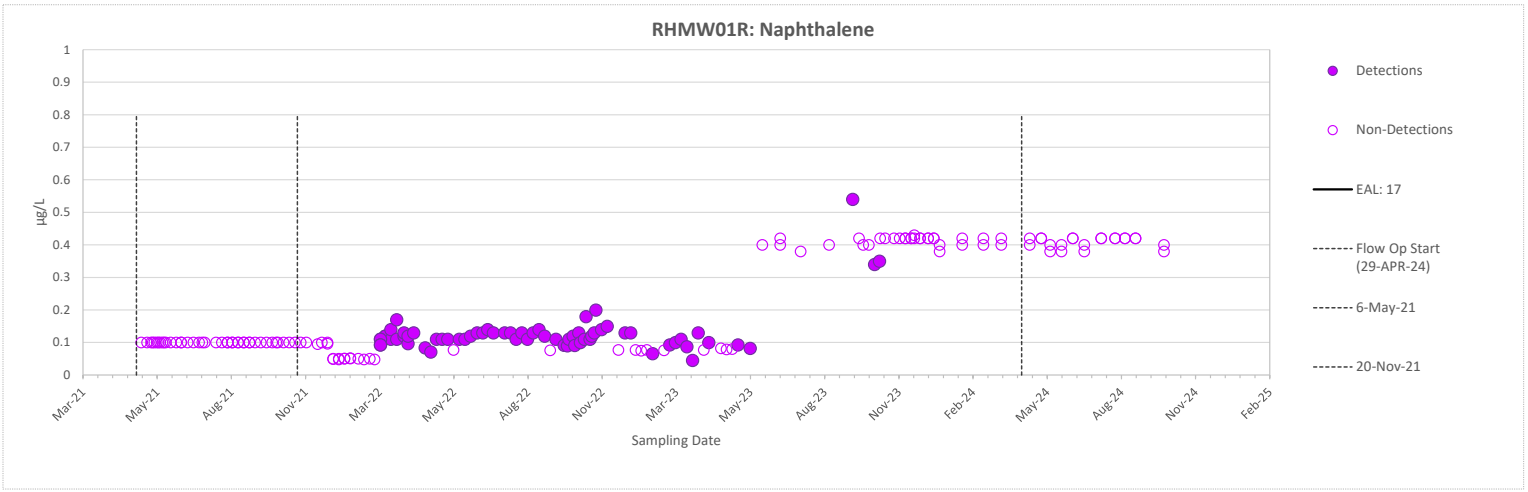




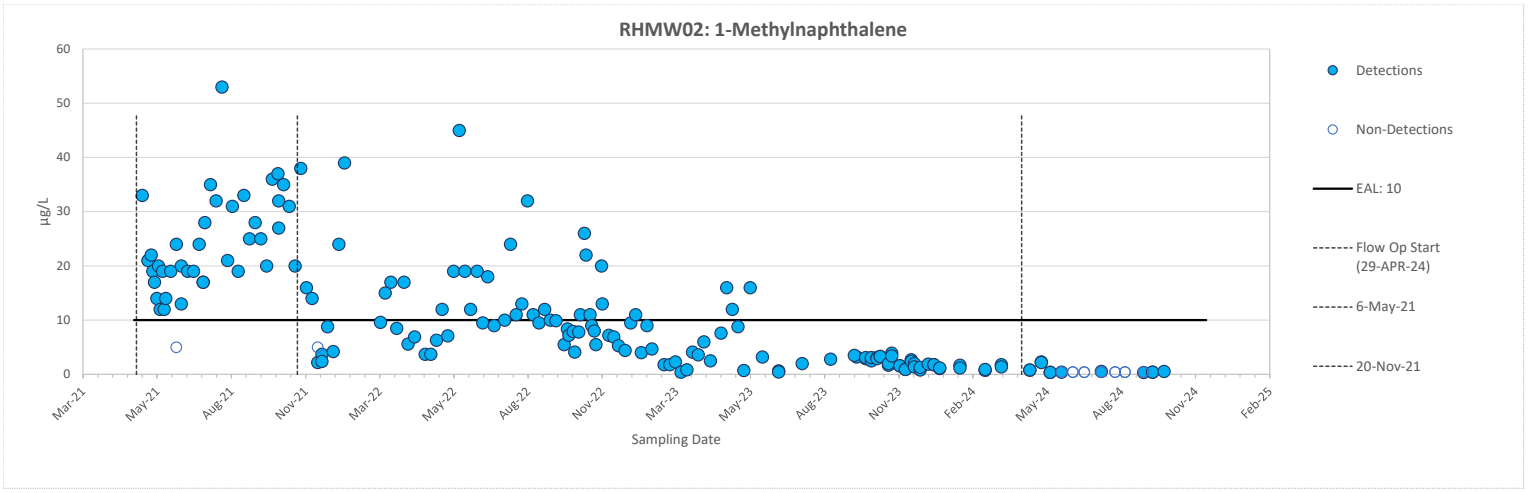
Note: See Data Legend

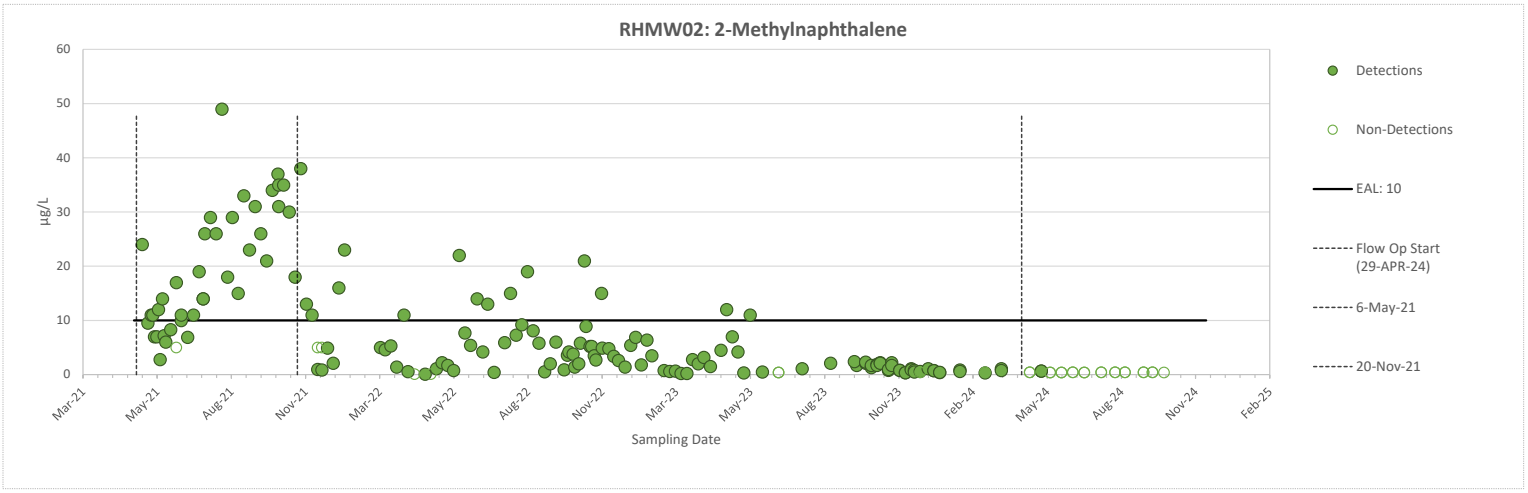


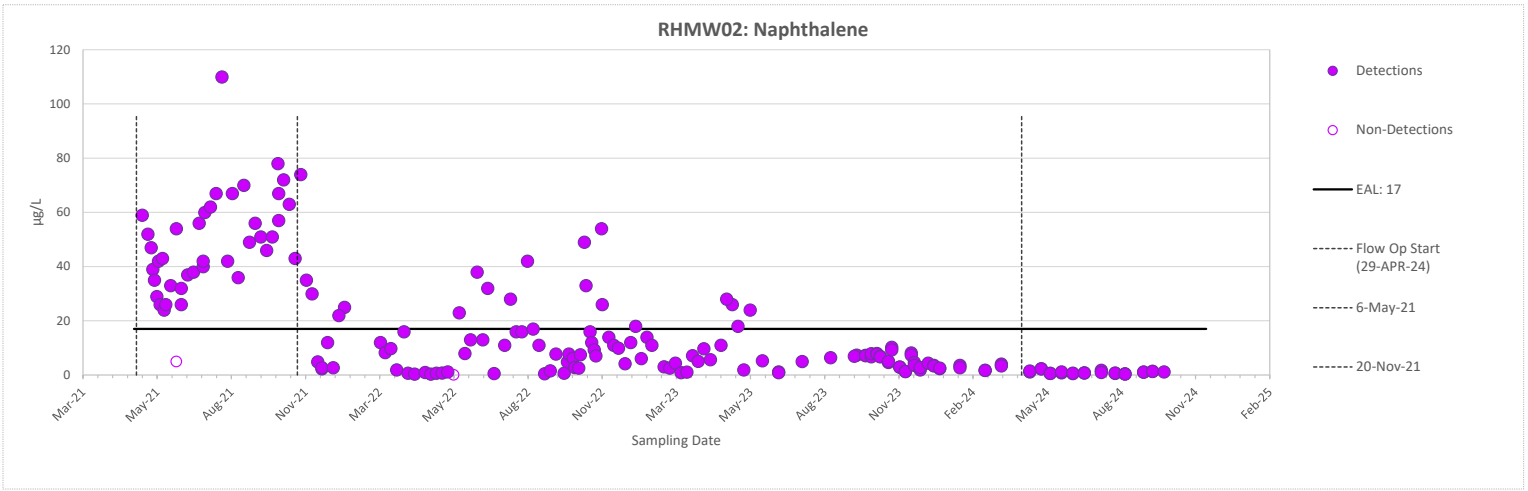




Note: See Data Legend







Note: See Data Legend

Appendix B.3.3 – Consolidated Groundwater COPC Trend Analysis

Appendix B.3.3 – COPC Trend Analysis
Consolidation and Optimization of the Groundwater Sampling Programs, Red Hill Bulk Fuel Storage Facility

Data Legend

Footnotes

[1] Detects are generally displayed as closed markers with color infill. Non-Detects are displayed as open markers without color infill.

[2] The Baseline period includes results form samples collected between September 1, 2023 and April 28, 2024

[3] Averages and Standard Deviations are computed for wells with detections during the baseline. Non-detected samples are included in the calculations using the lab reported Limit of Detection as the result.

[4] For wells without detections during the Baseline period, no averages or standard deviations are calculated.

[5] Plotted values include Normal and Field Duplicate sample types.

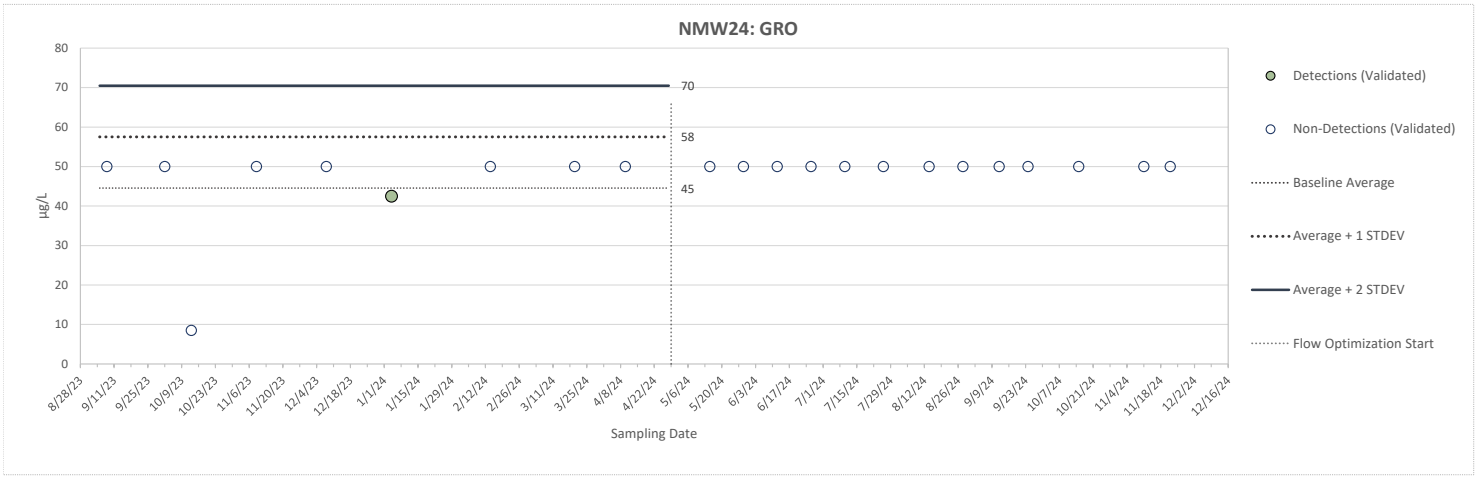
[6] RHMW13 data includes samples collected at Westbay sampling ports RHMW13-04 and RHMW13-05

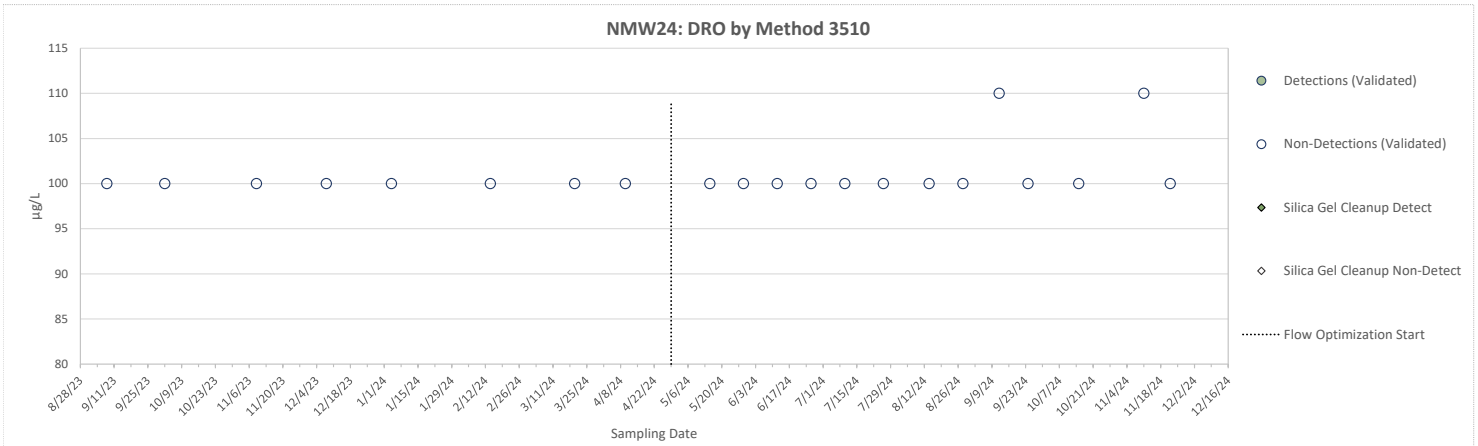
[7] All results are reported in ug/L

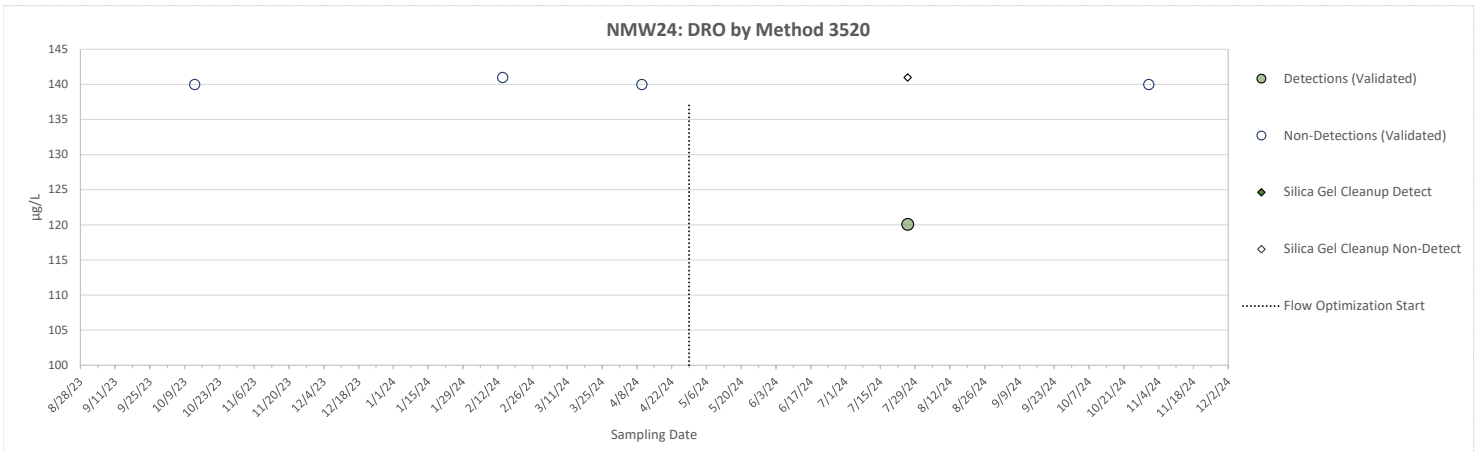
GRO – Gasoline Range Organics
DRO – Diesel Range Organics
ORO – Oil Range Organics
N – Normal Sample
FD – Field Duplicate
SGC – Silica Gel Cleanup

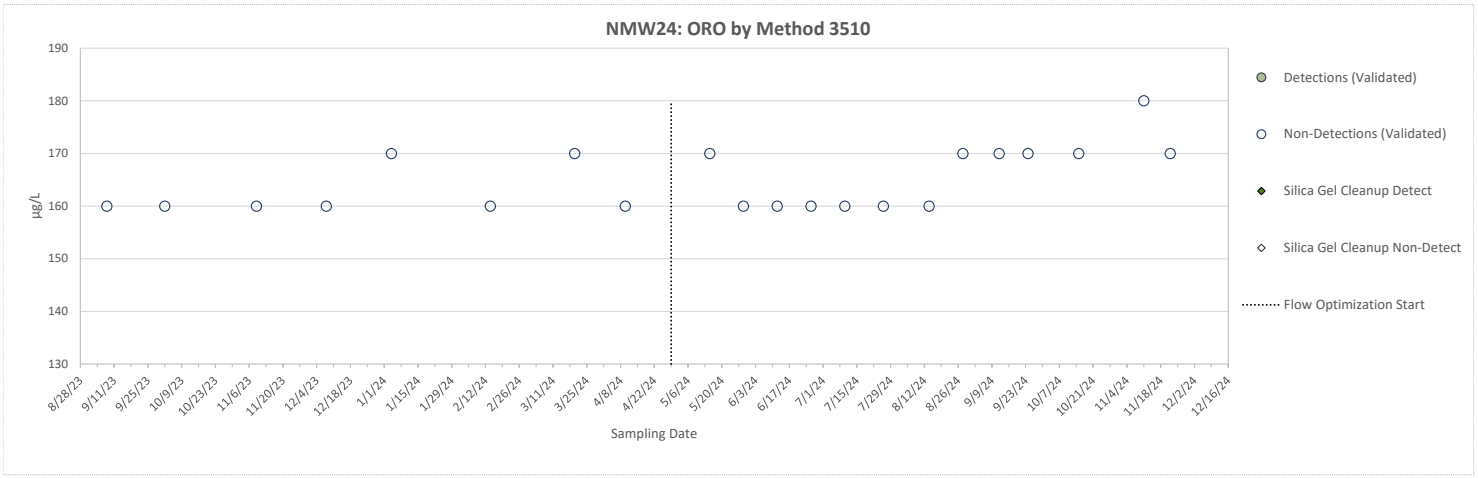
Units

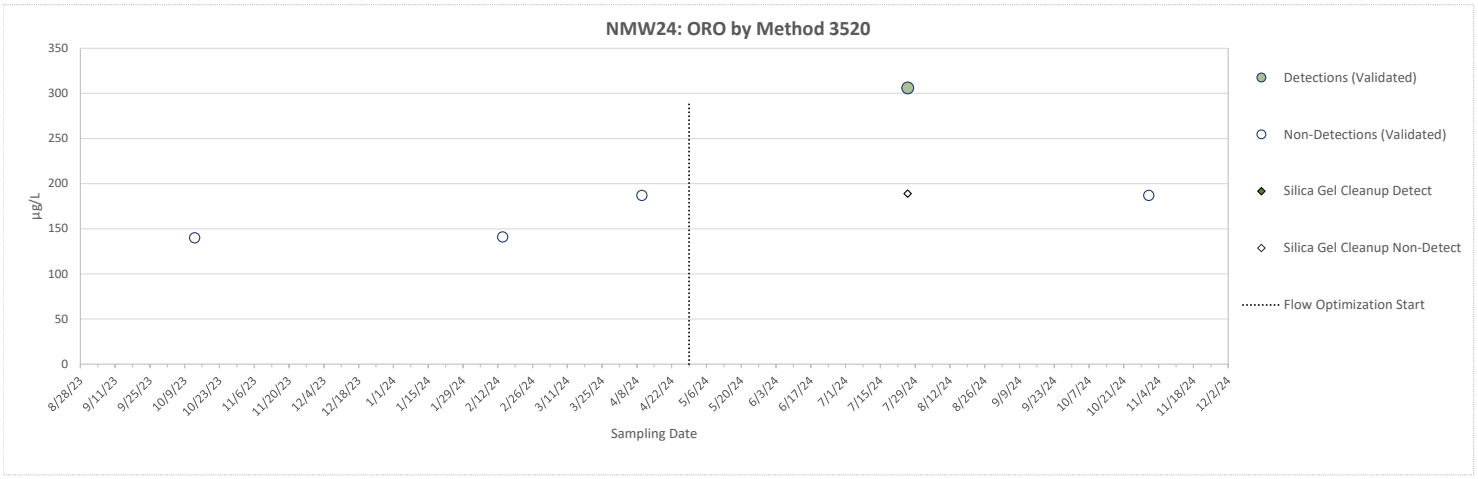
µg/L – Micrograms per Liter

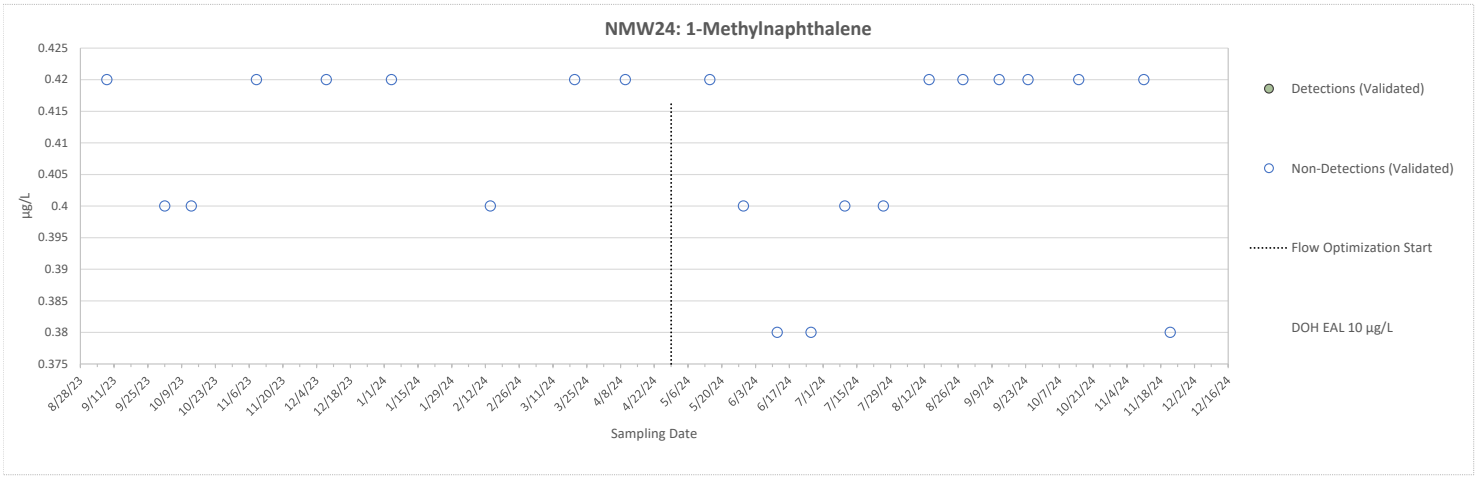

NMW24: GRO
µg/L
Sampling Date
70
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

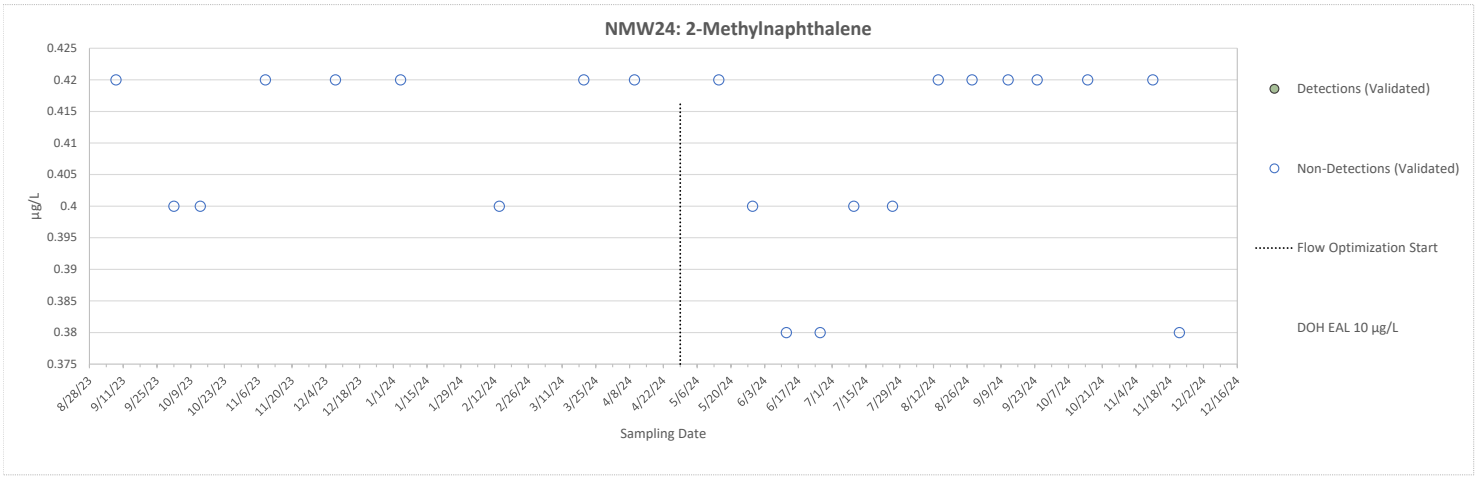

NMW24: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

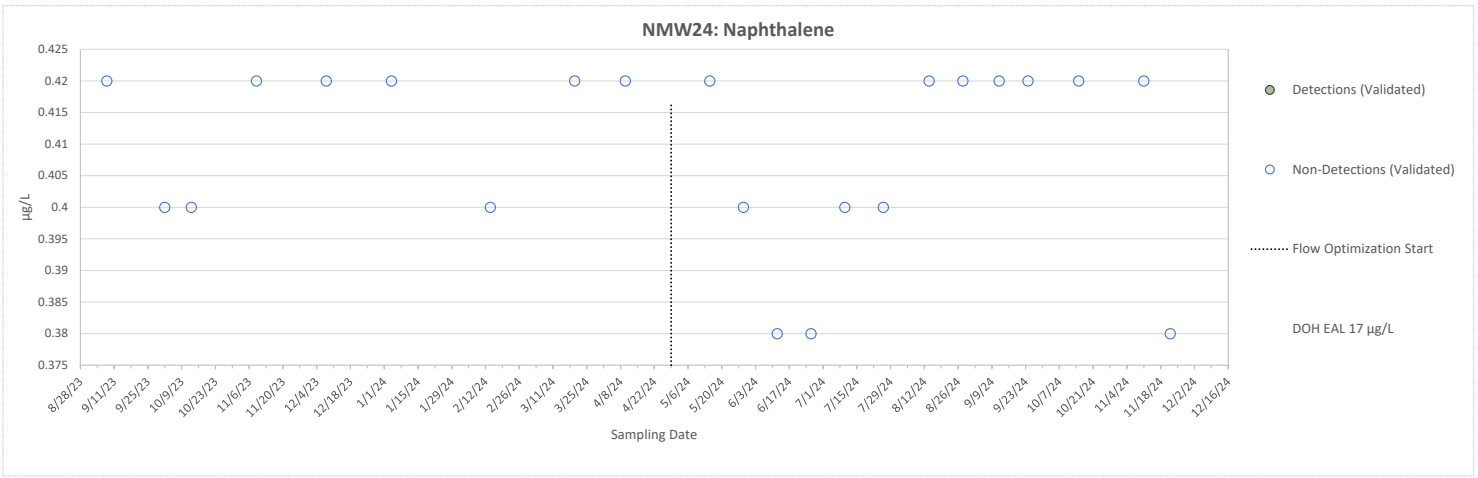

NMW24: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW24: ORO by Method 3510
µg/L
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

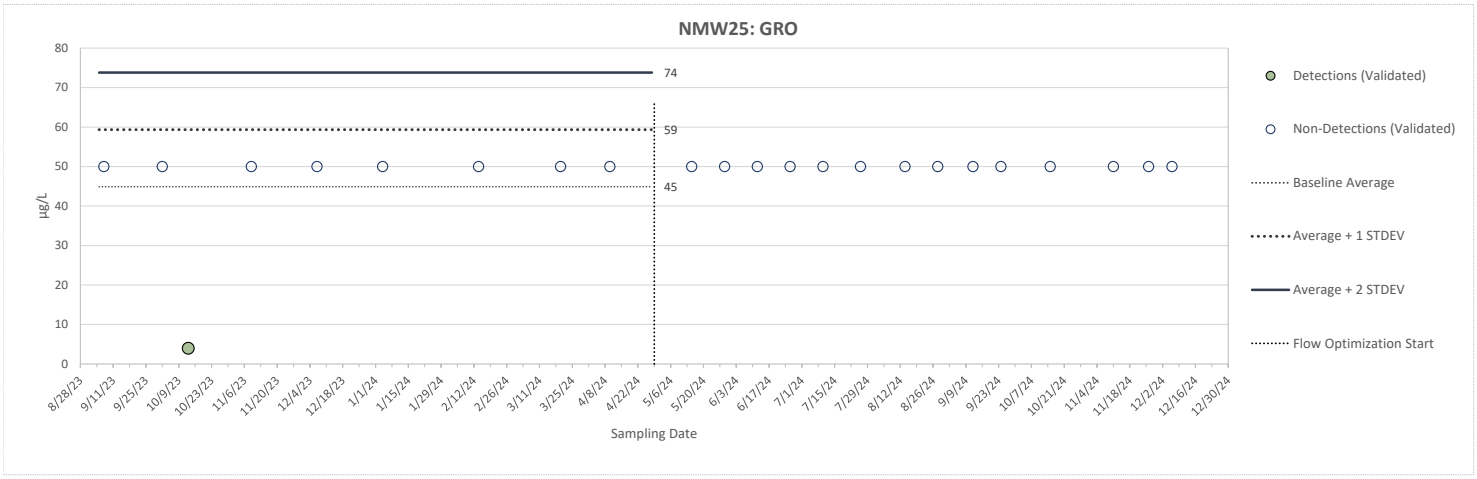

NMW24: ORO by Method 3520
µg/L
350
300
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

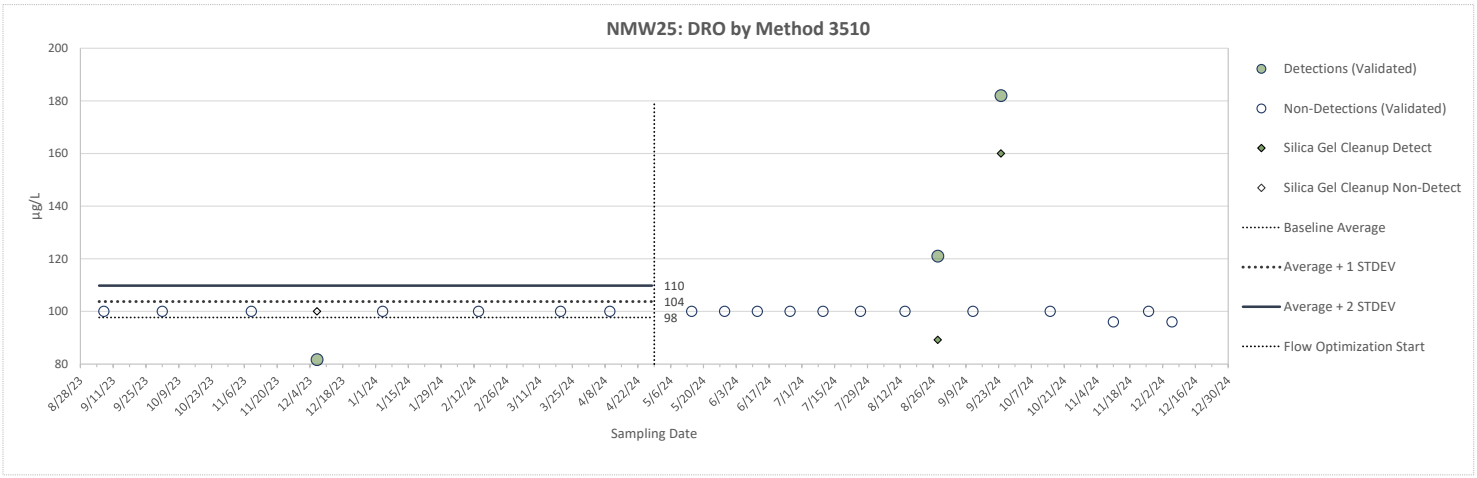


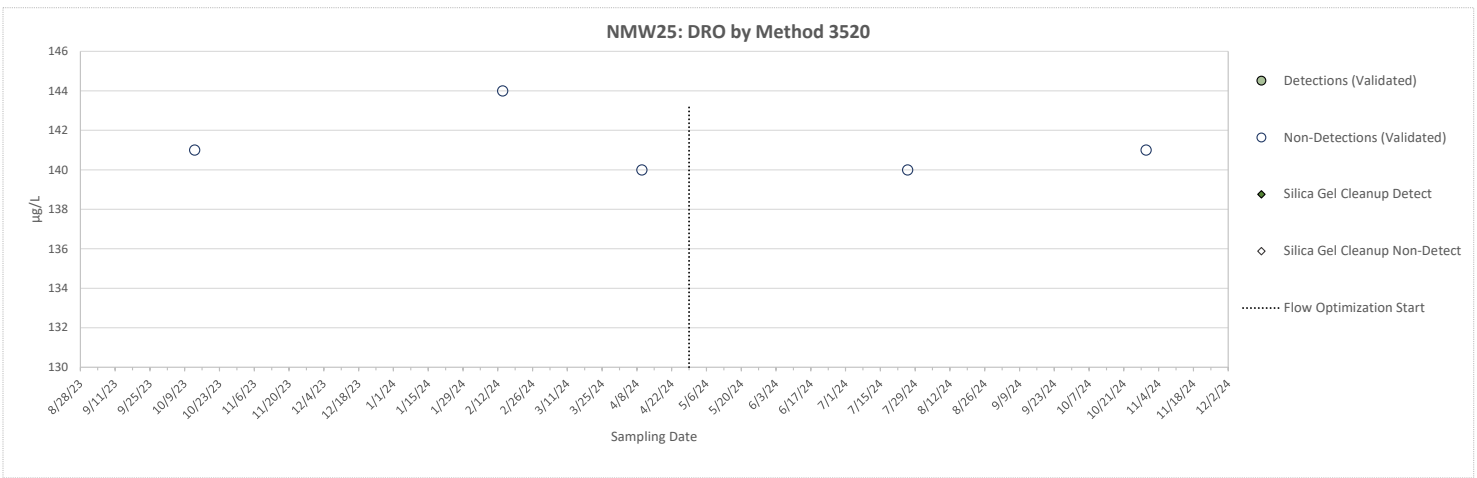


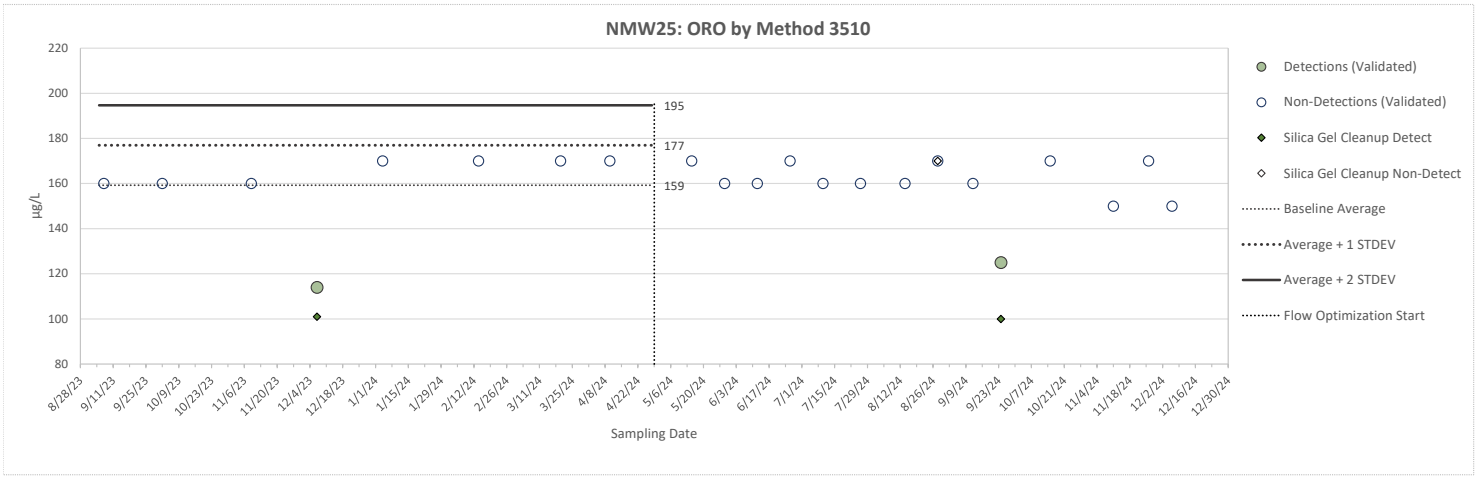


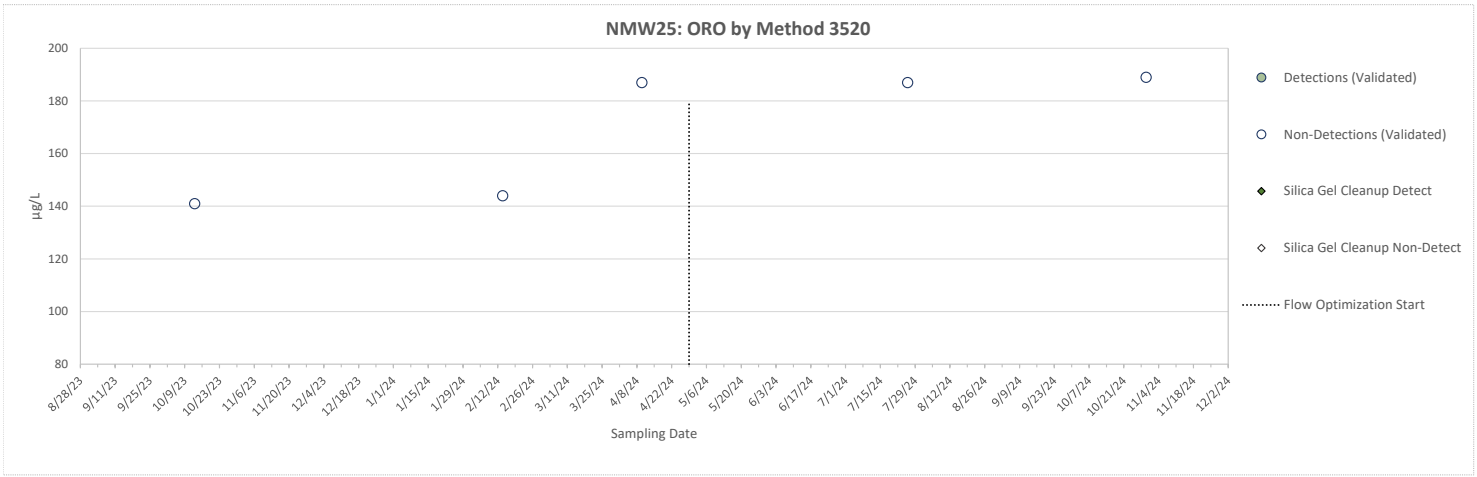
Note: See Data Legend

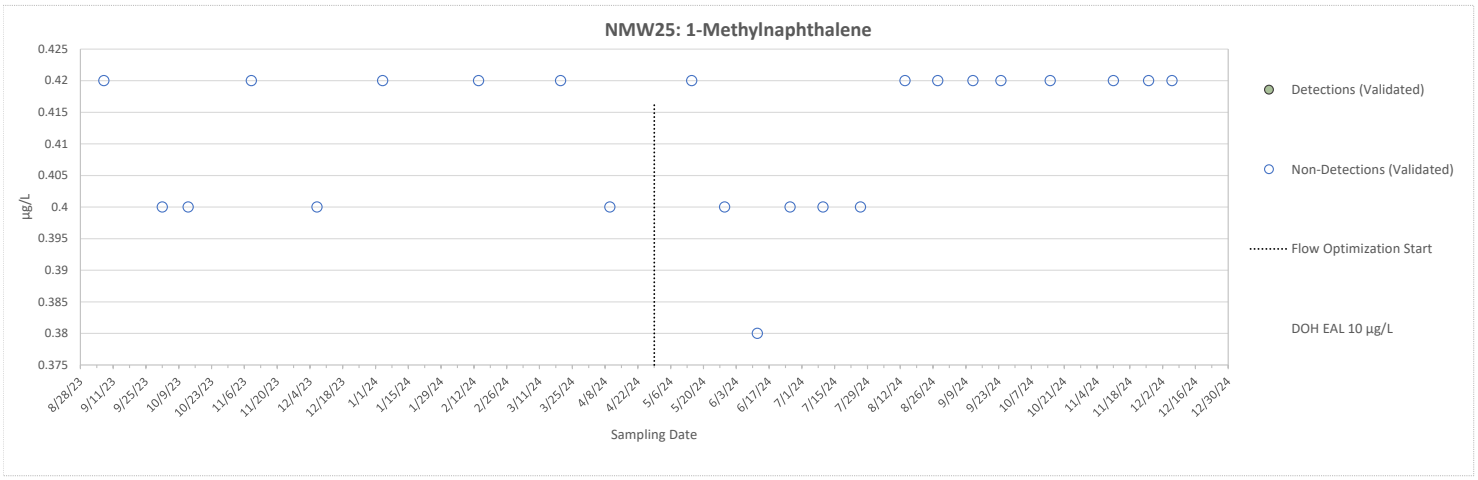

NMW25: GRO
µg/L
Sampling Date
74
59
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

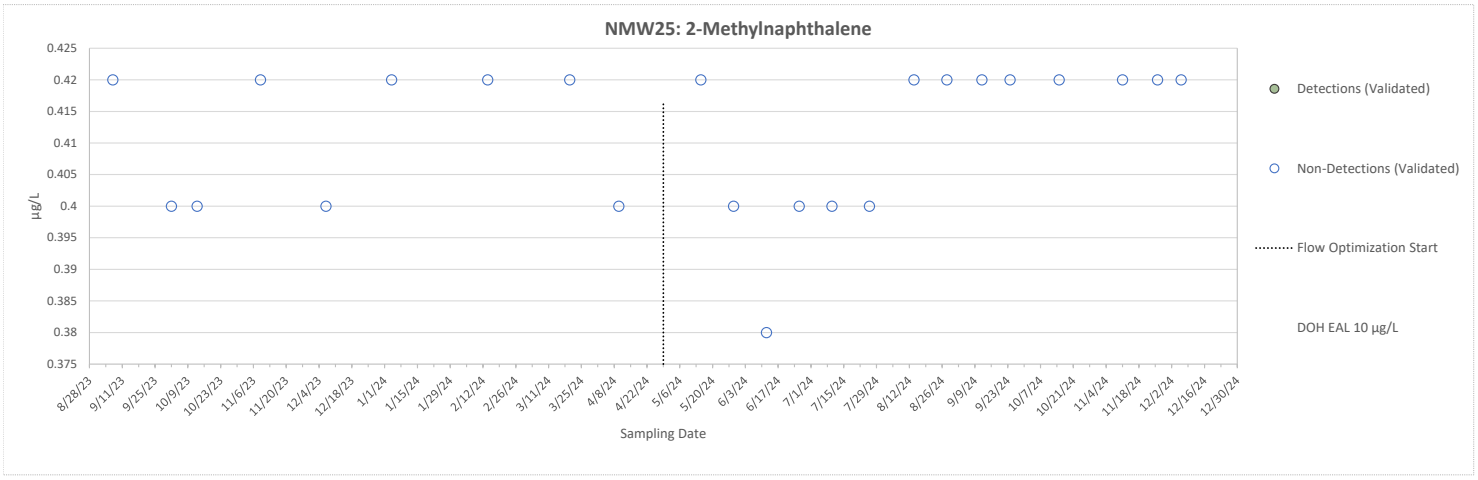

NMW25: DRO by Method 3510
µg/L
Sampling Date
110
104
98
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

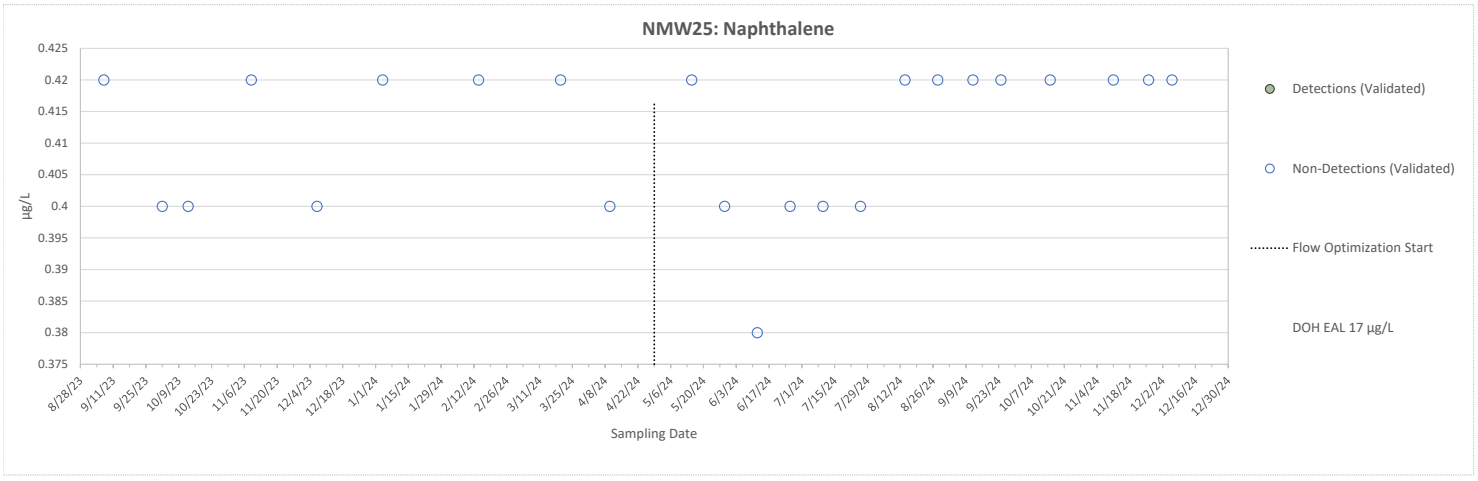

NMW25: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW25: ORO by Method 3510
µg/L
220
200
180
160
140
120
100
80
195
177
159
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

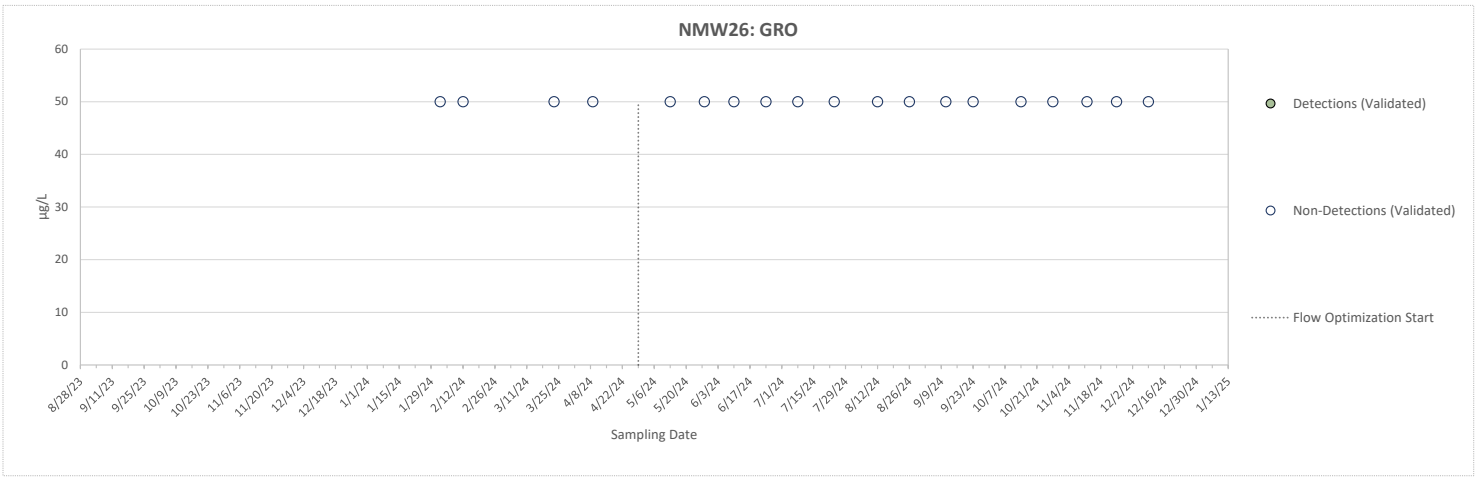

NMW25: ORO by Method 3520
µg/L
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

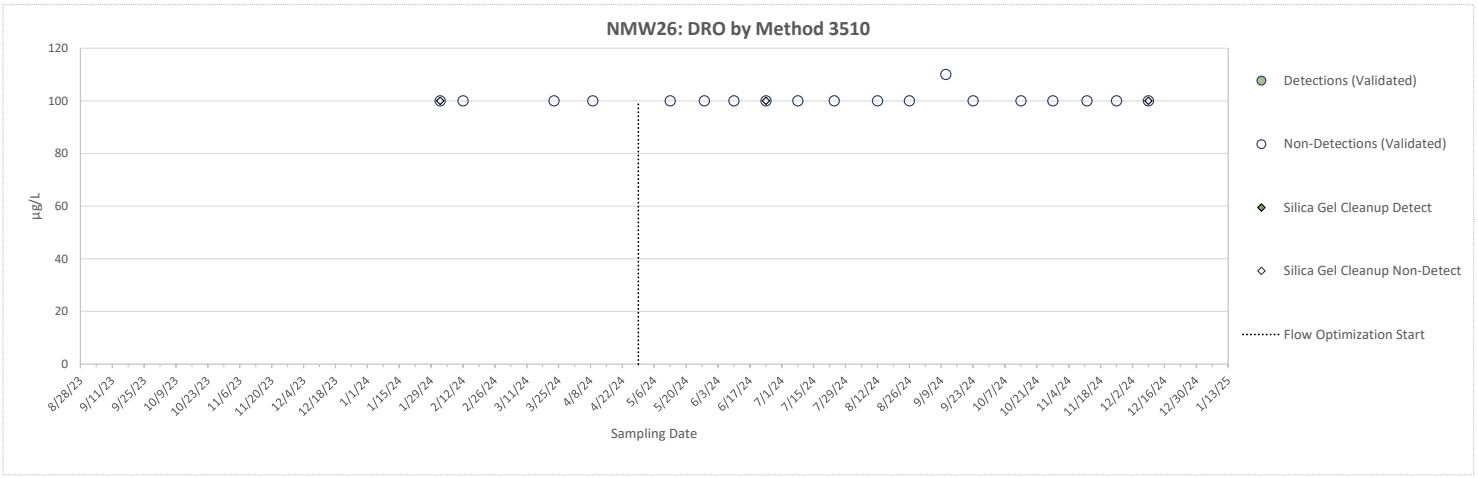


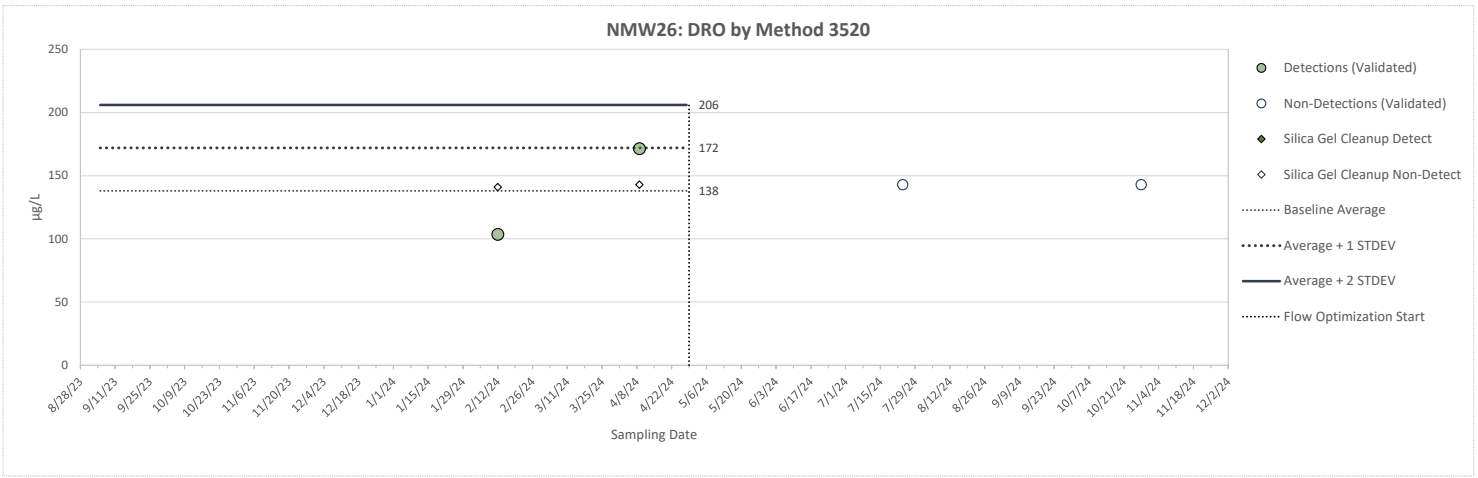


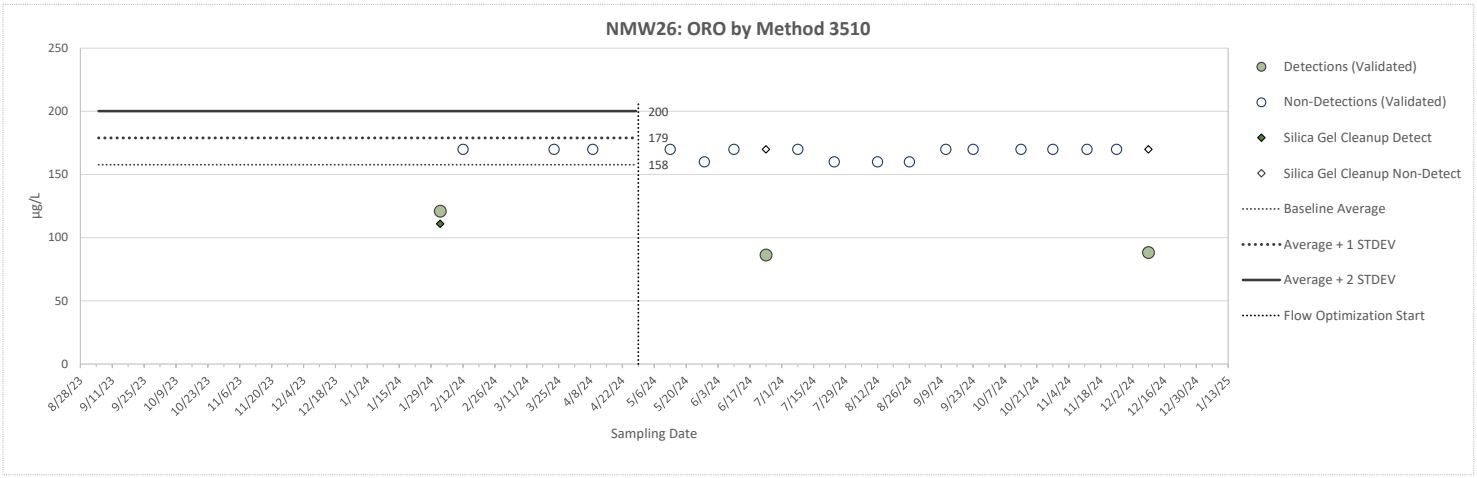


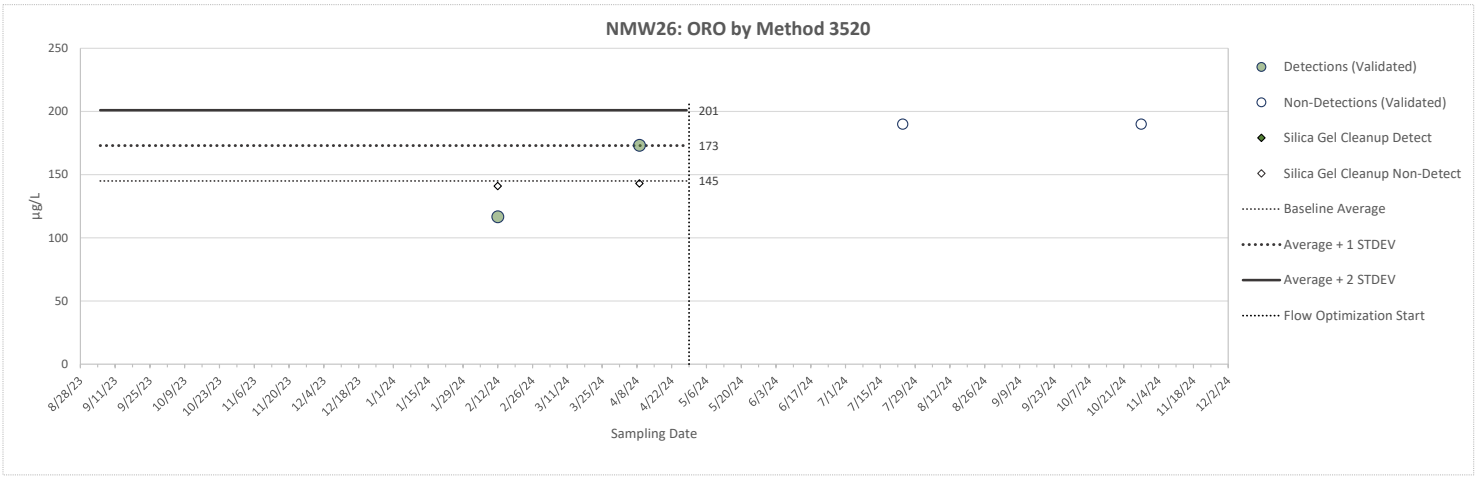
Note: See Data Legend

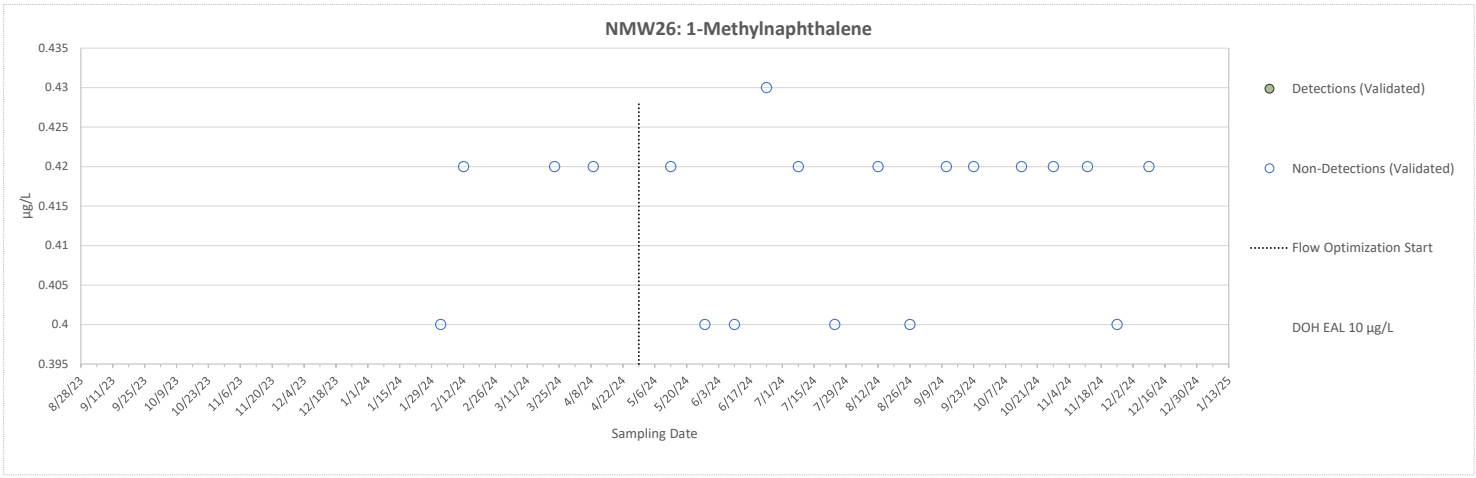

NMW26: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

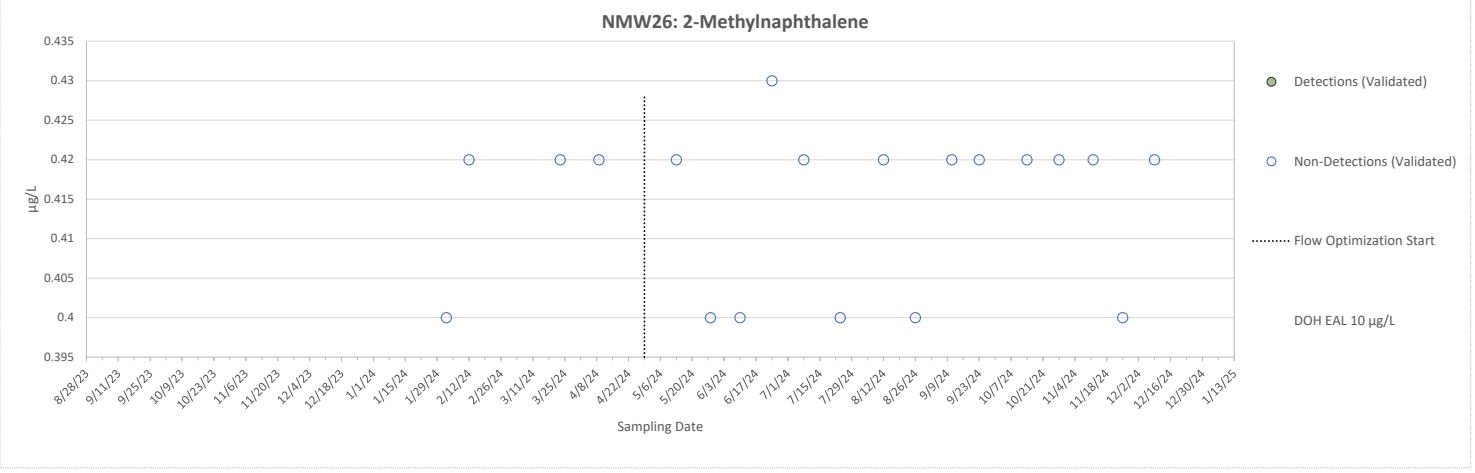

NMW26: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

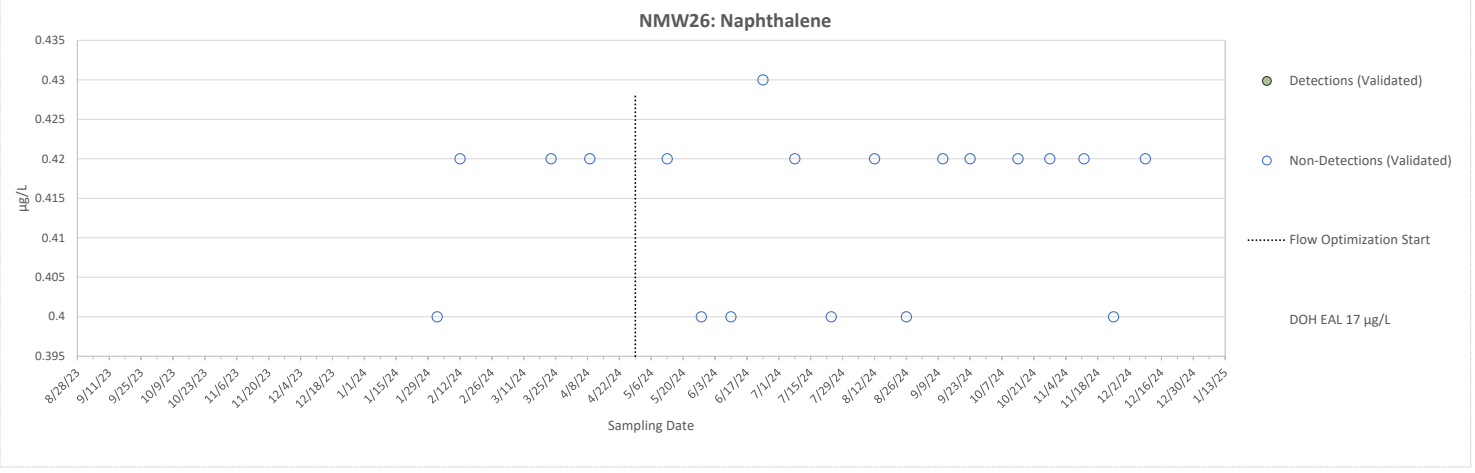

NMW26: DRO by Method 3520
µg/L
Sampling Date
206
172
138
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW26: ORO by Method 3510
µg/L
250
200
150
100
50
0
200
179
158
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
1/13/25
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

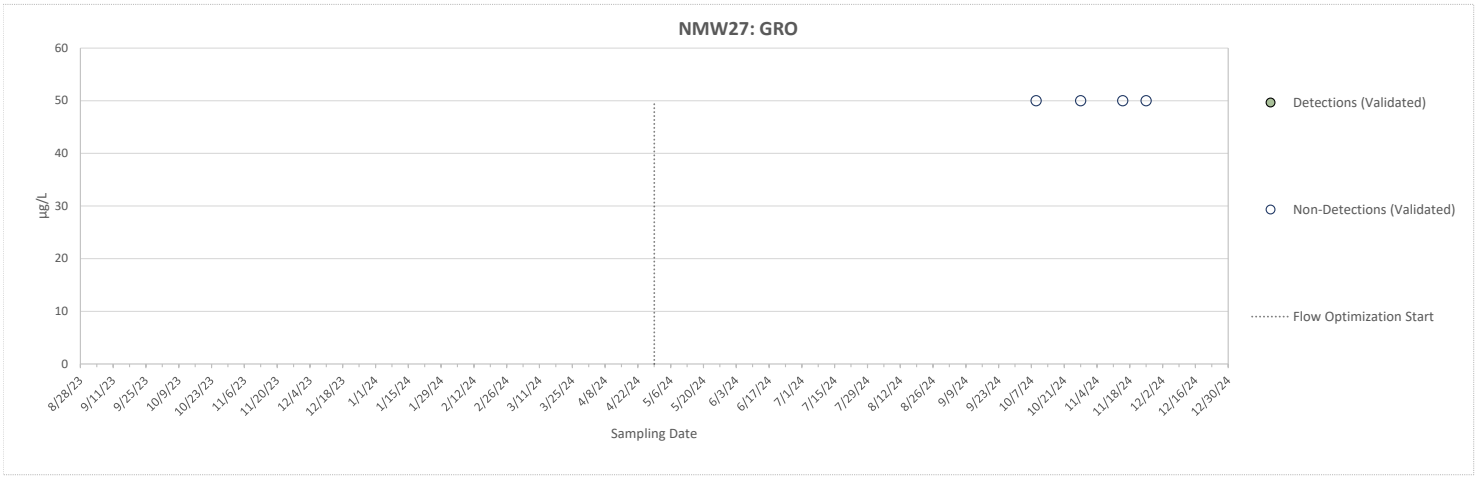

NMW26: ORO by Method 3520
µg/L
250
200
150
100
50
0
201
173
145
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

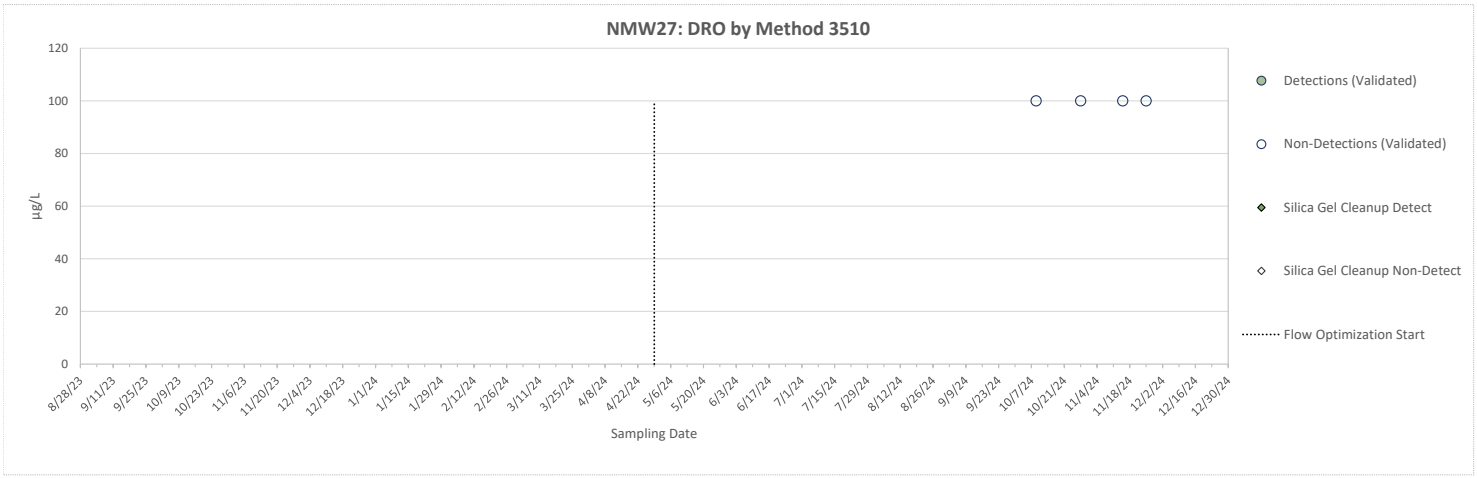


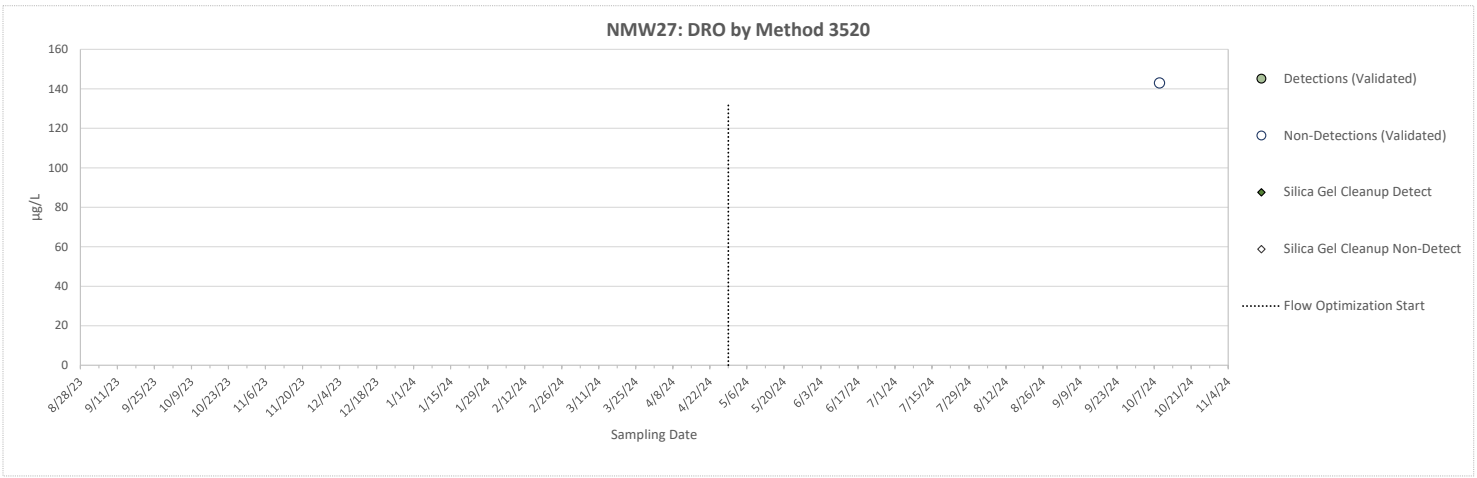


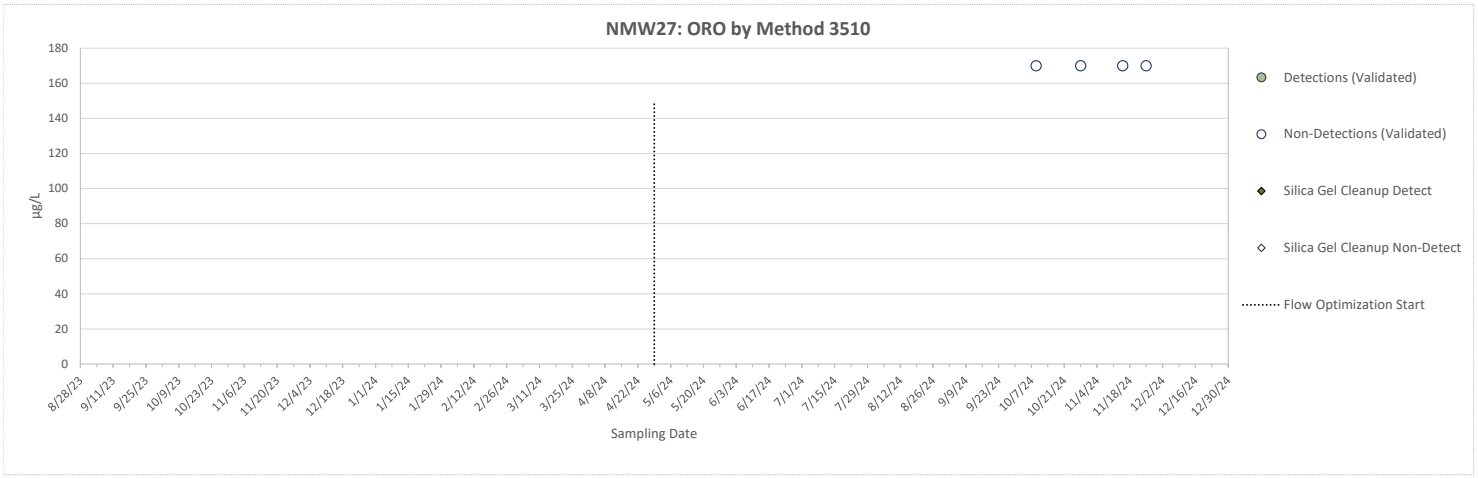


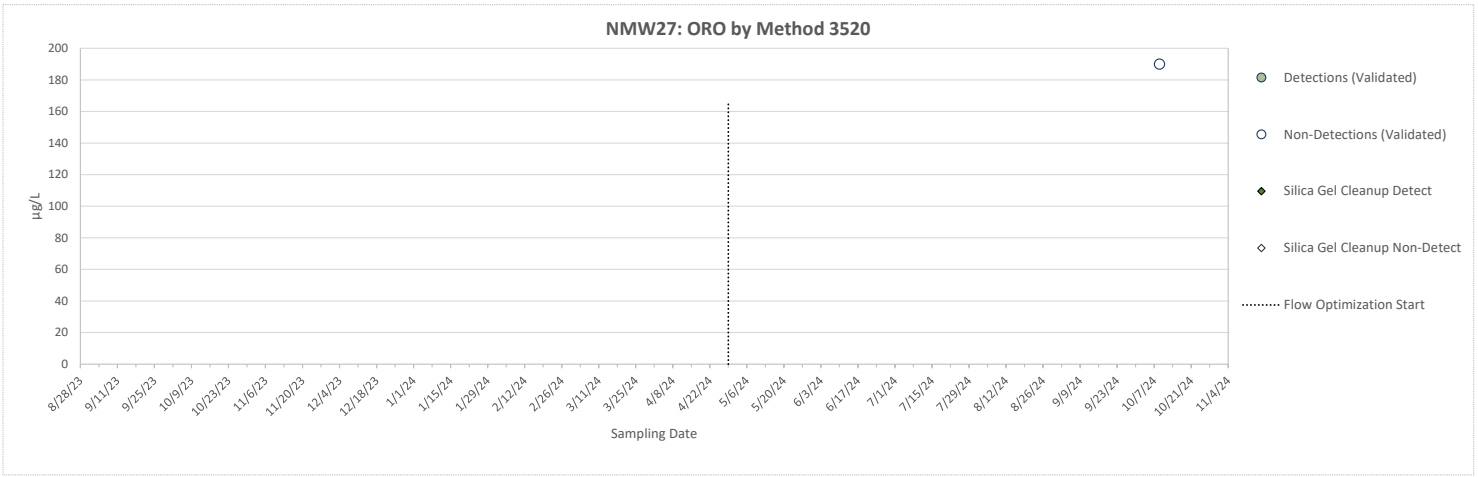
Note: See Data Legend

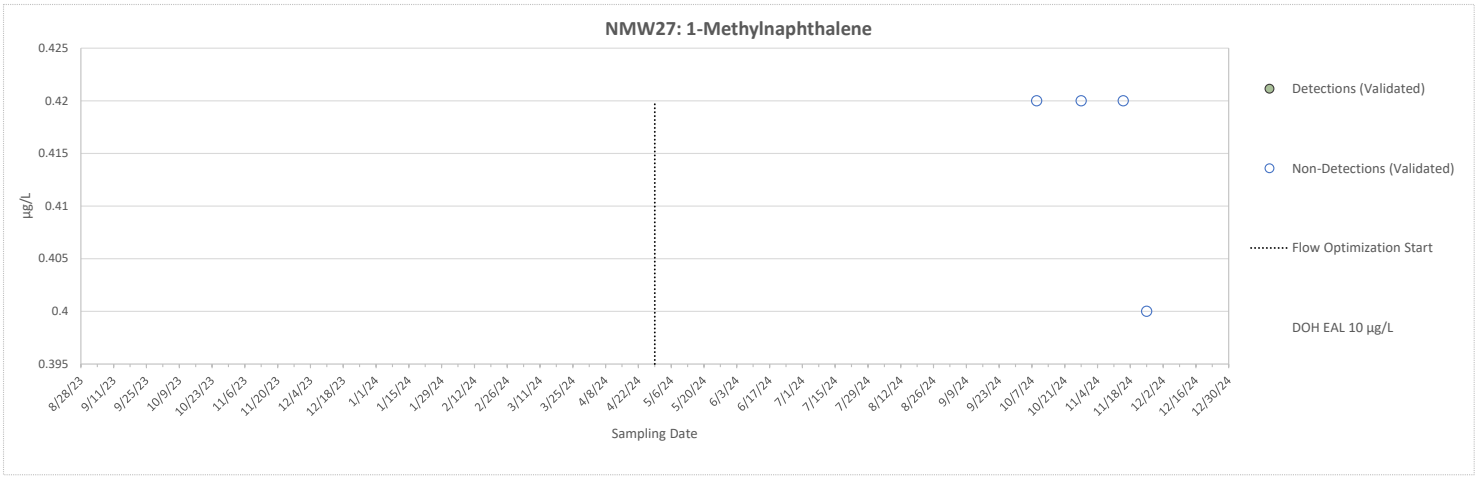

NMW27: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

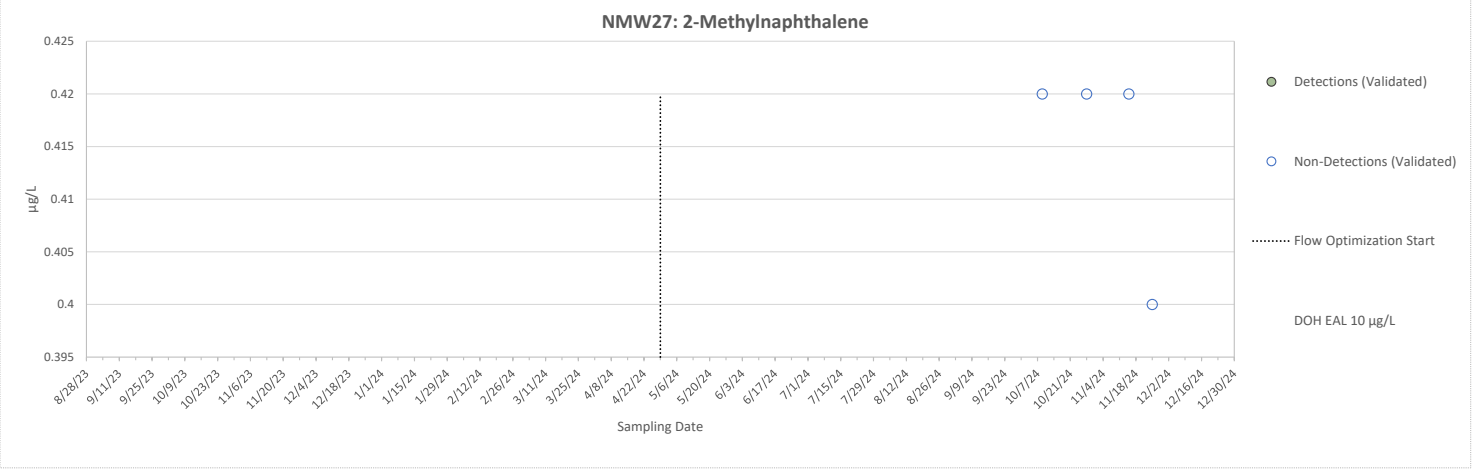

NMW27: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

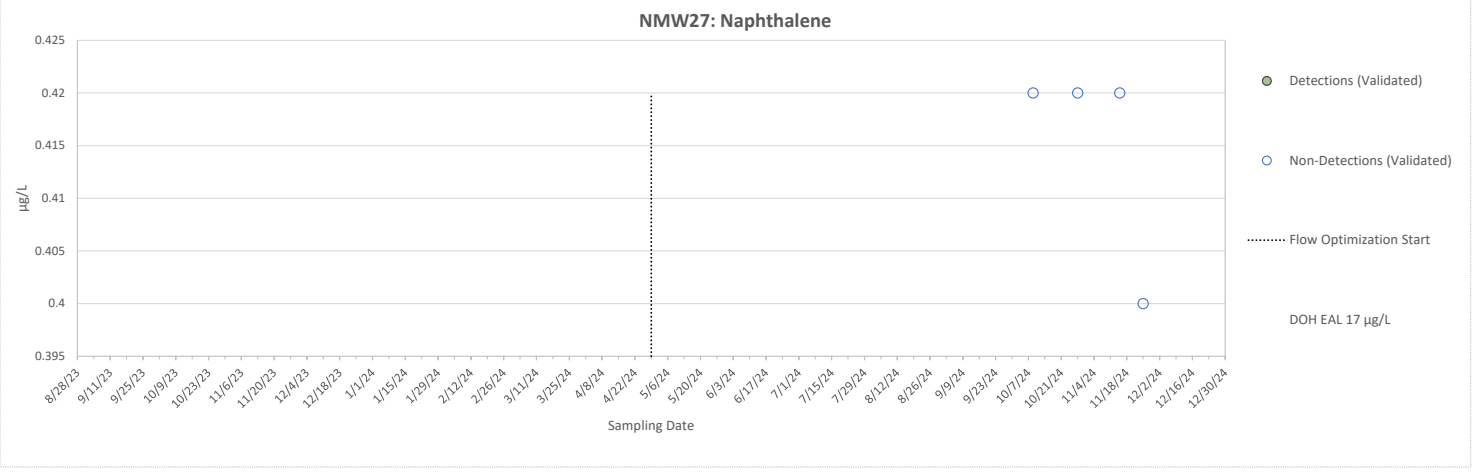

NMW27: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW27: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

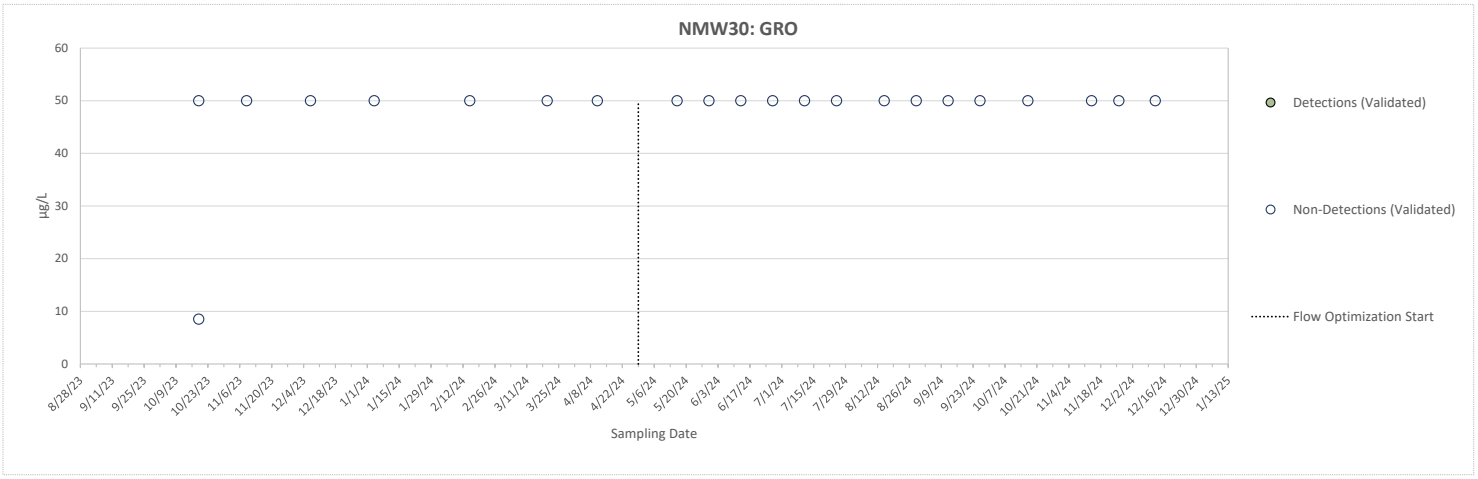

NMW27: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

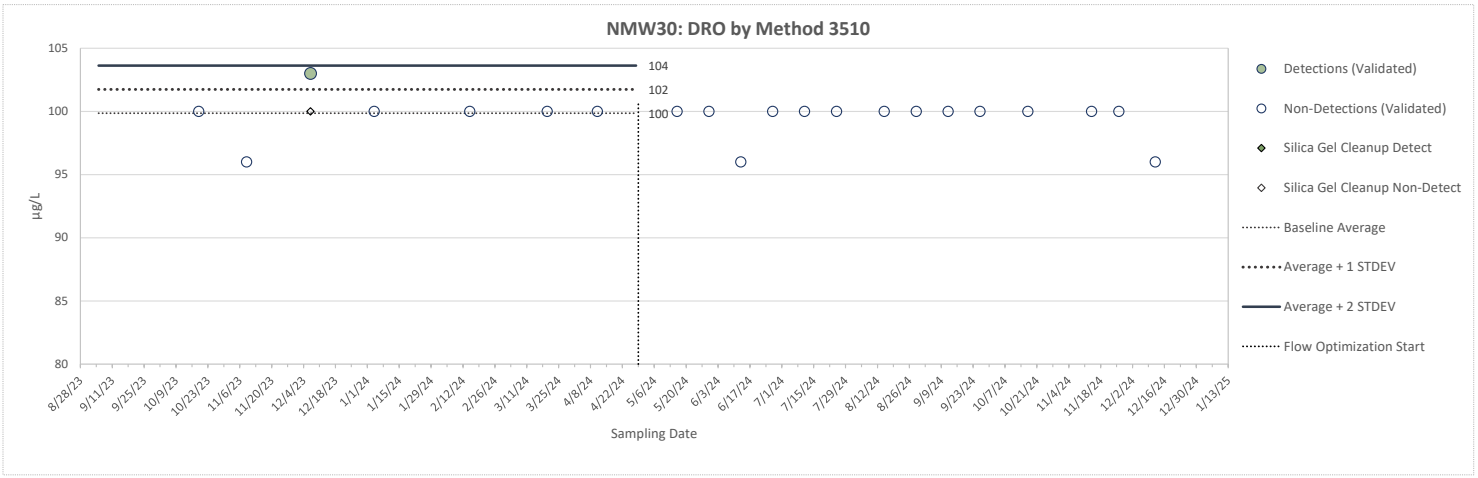


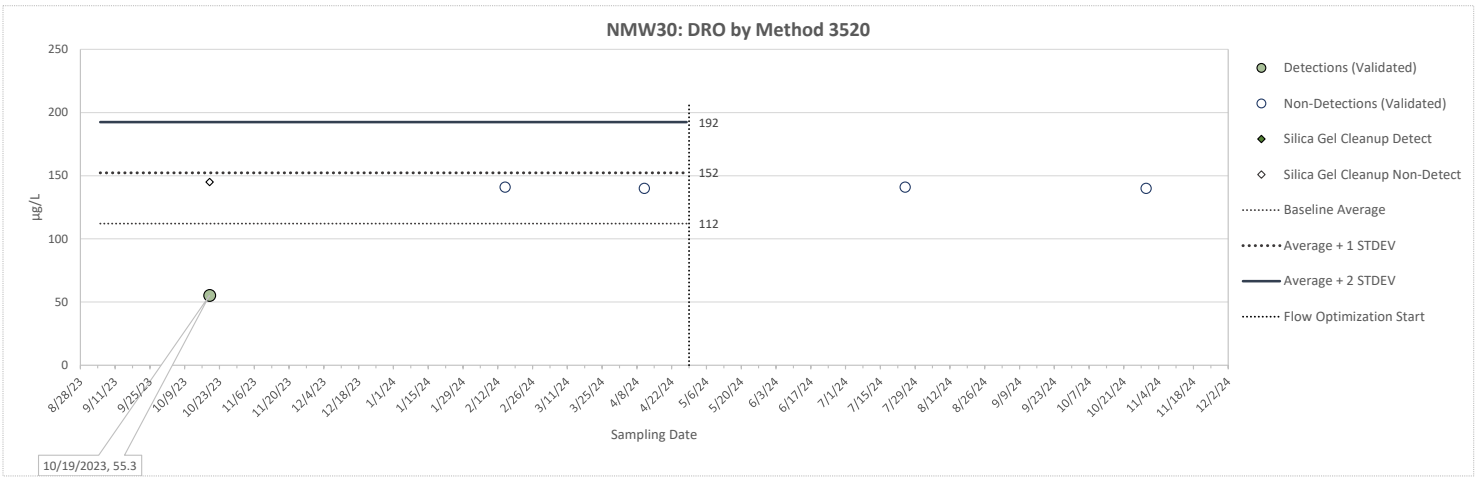


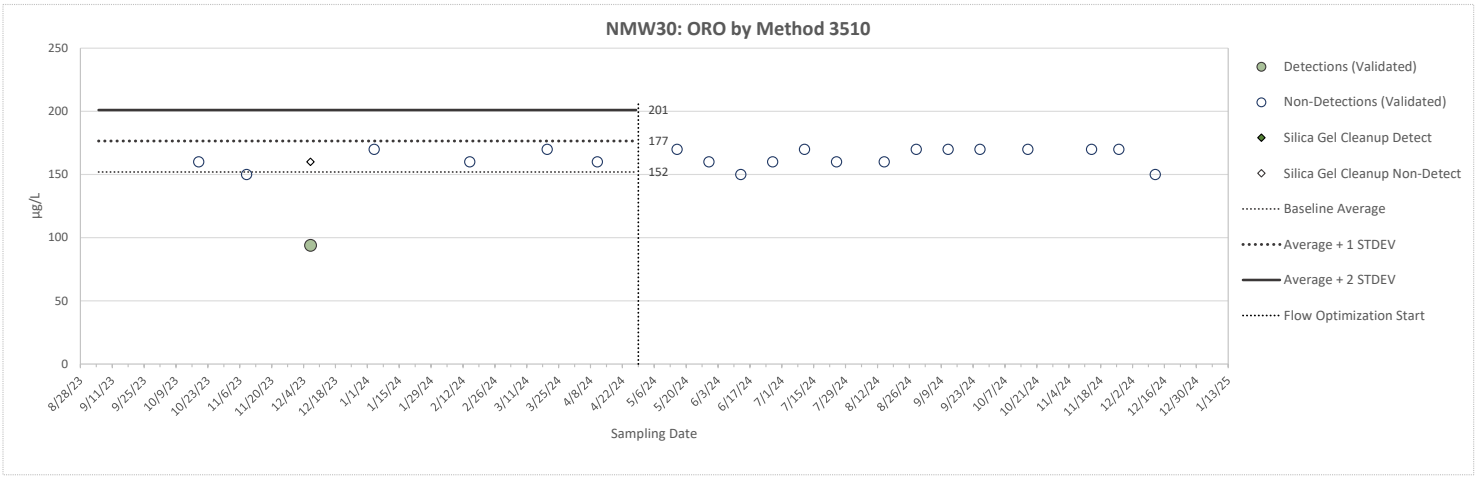


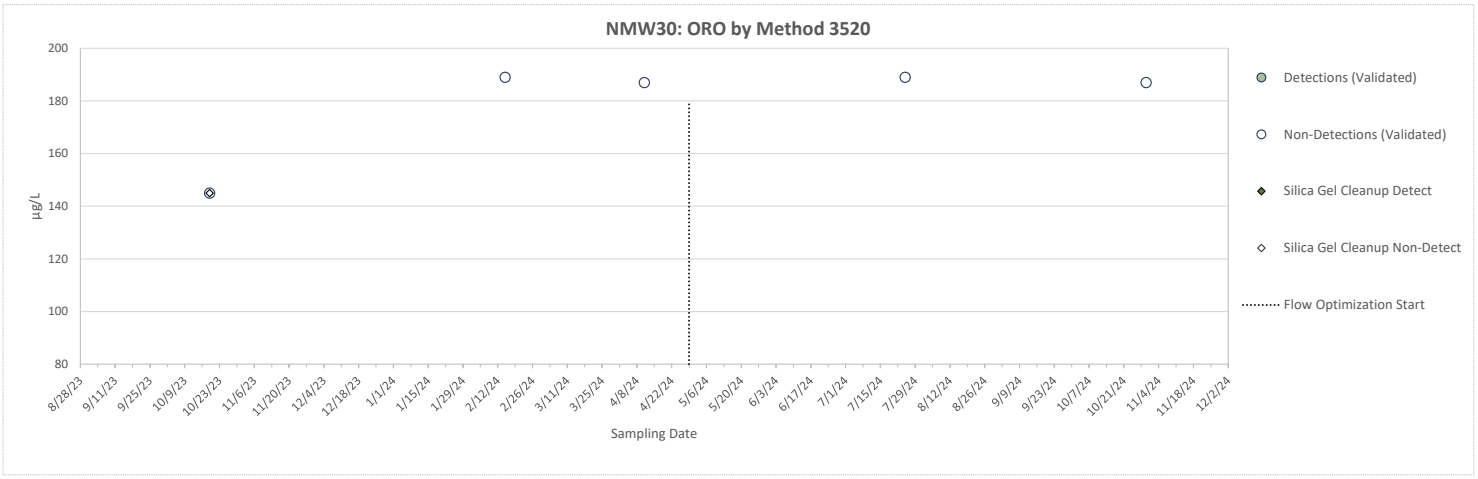
Note: See Data Legend

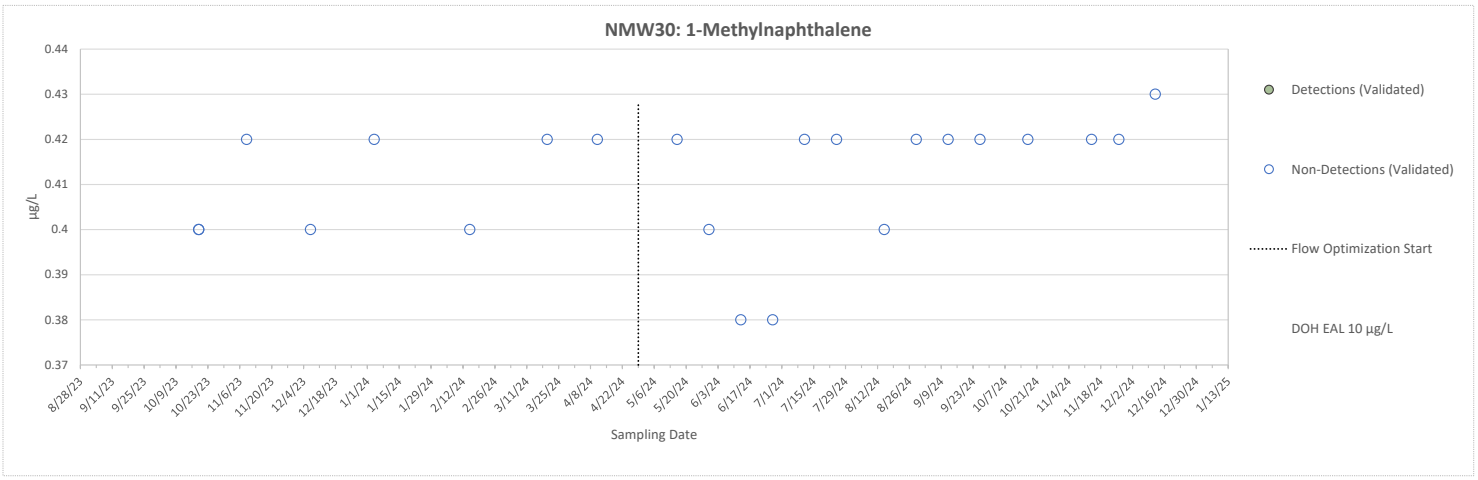

NMW30: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

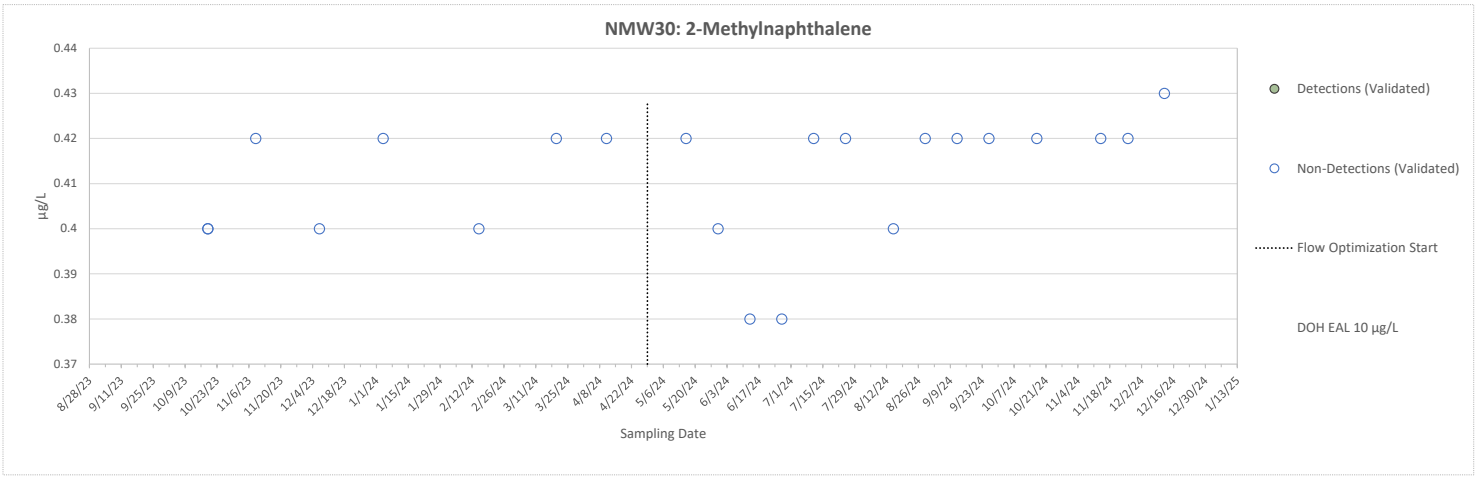

NMW30: DRO by Method 3510
µg/L
Sampling Date
104
102
100
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

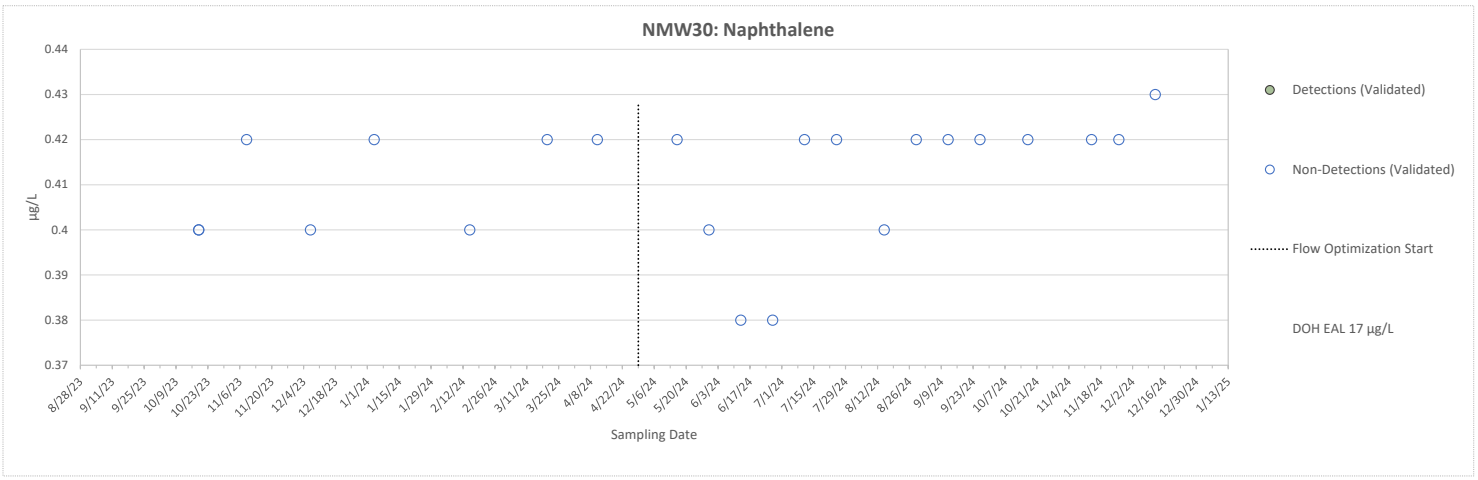

NMW30: DRO by Method 3520
µg/L
Sampling Date
192
152
112
10/19/2023, 55.3
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW30: ORO by Method 3510
µg/L
250
200
150
100
50
0
201
177
152
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
1/13/25
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

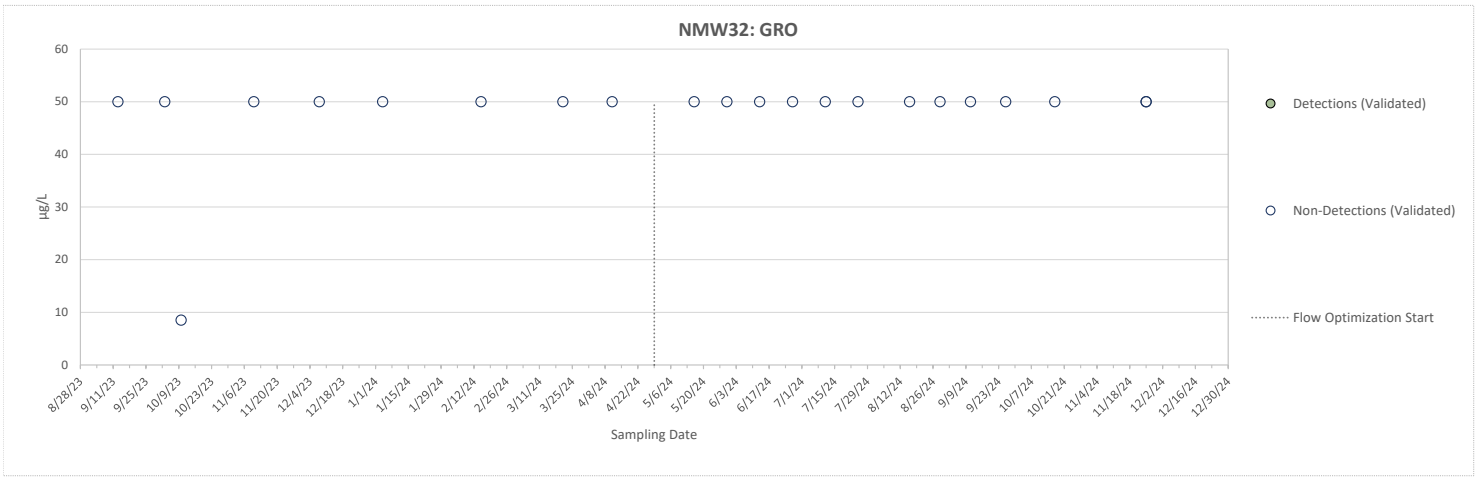

NMW30: ORO by Method 3520
µg/L
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

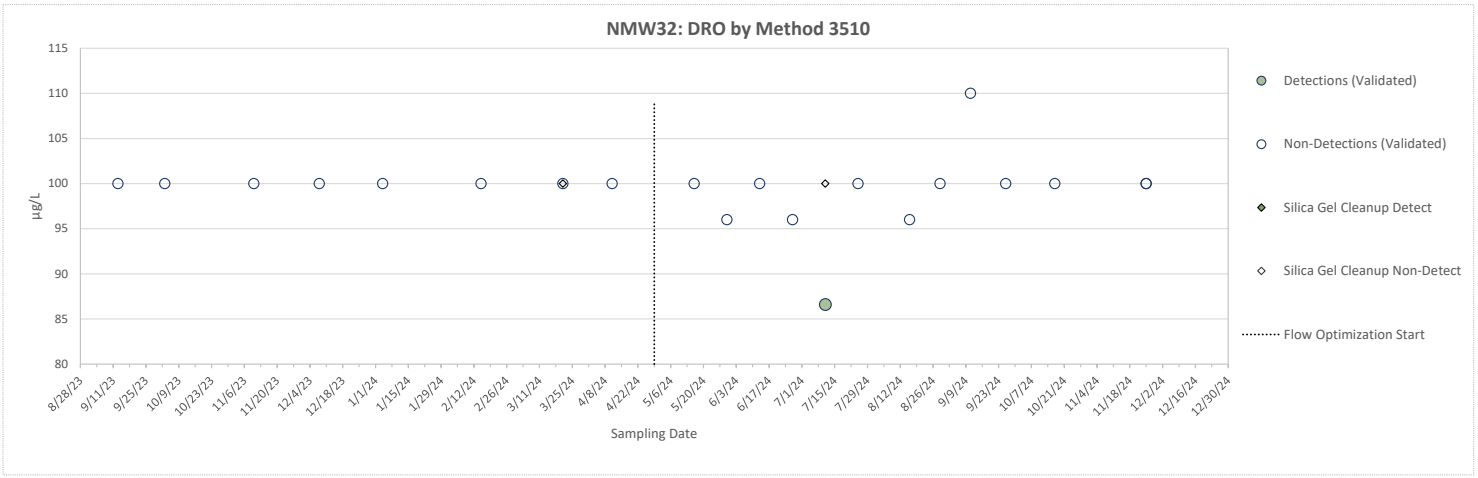


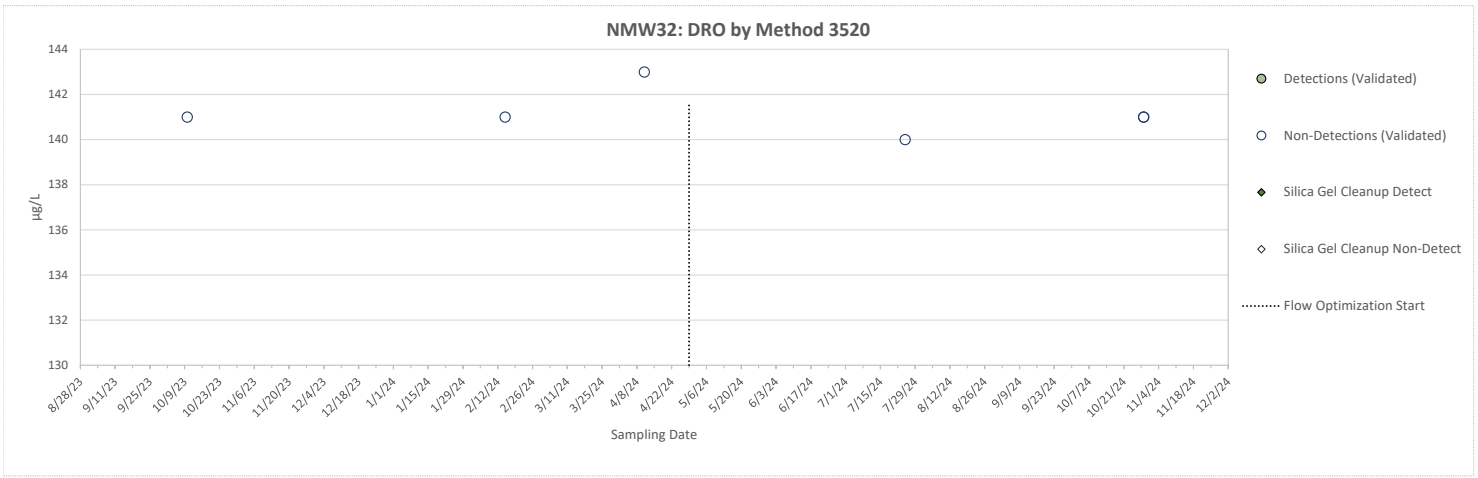


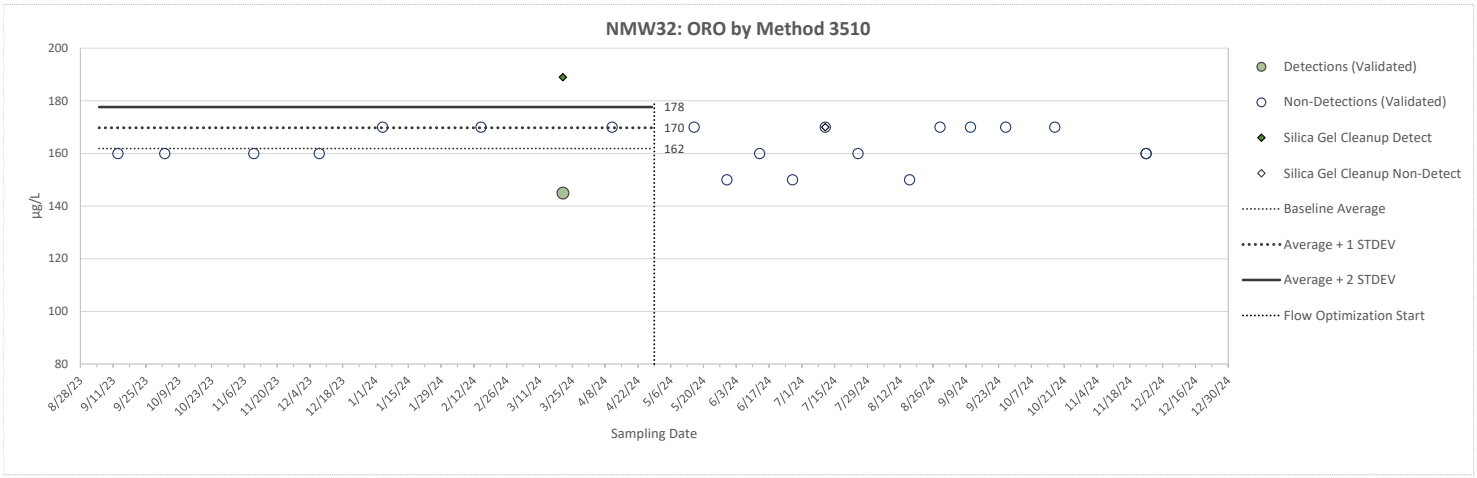


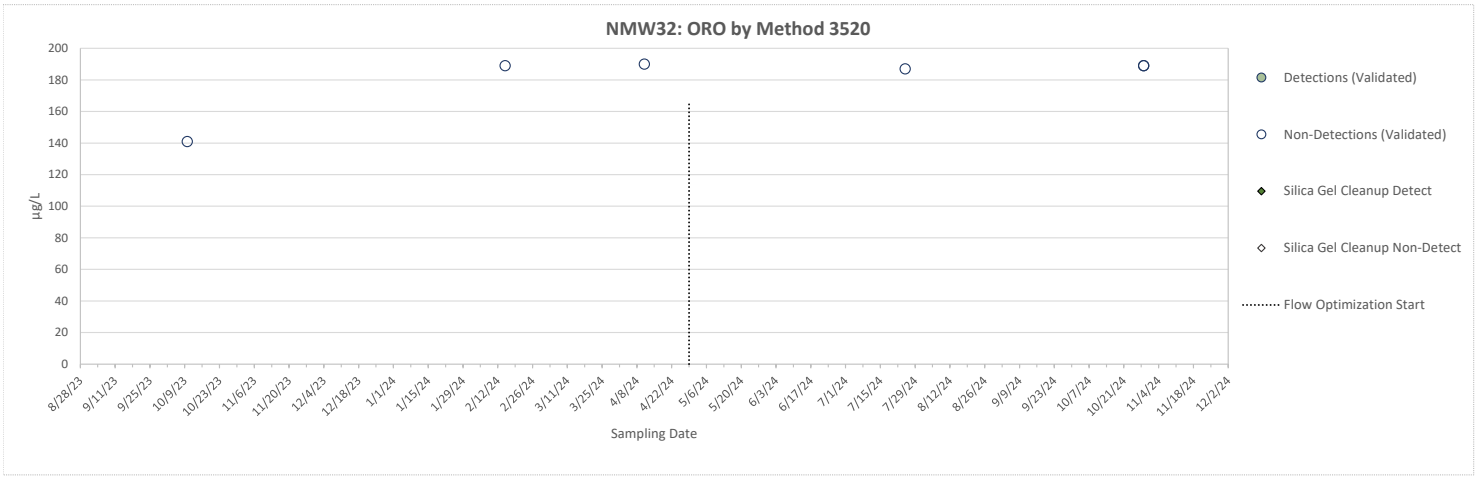
Note: See Data Legend

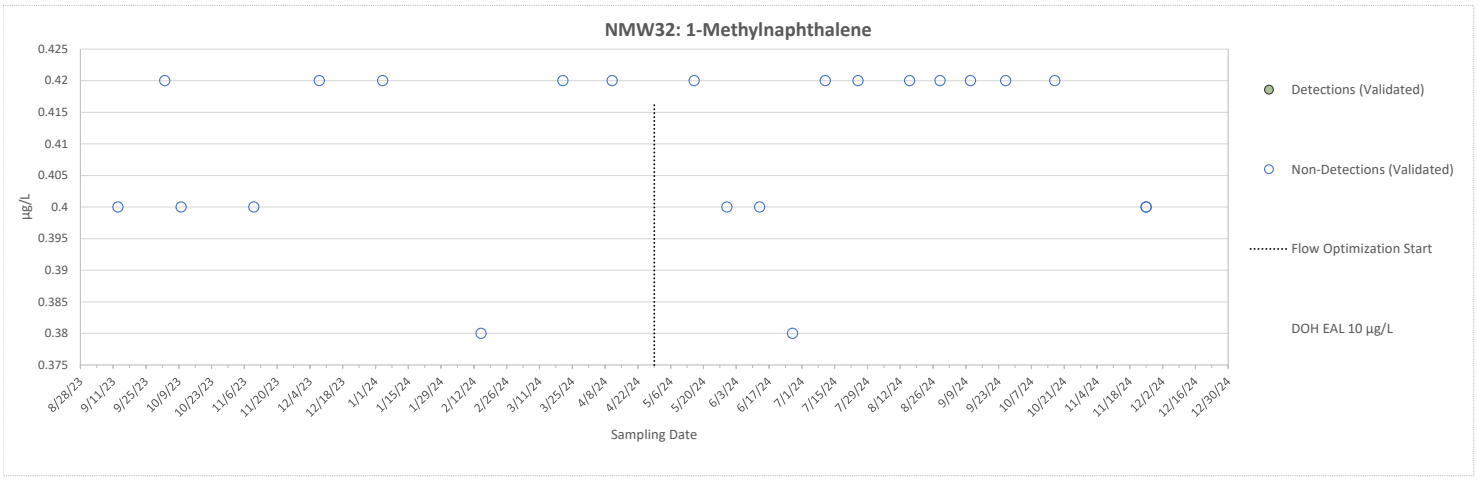

NMW32: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

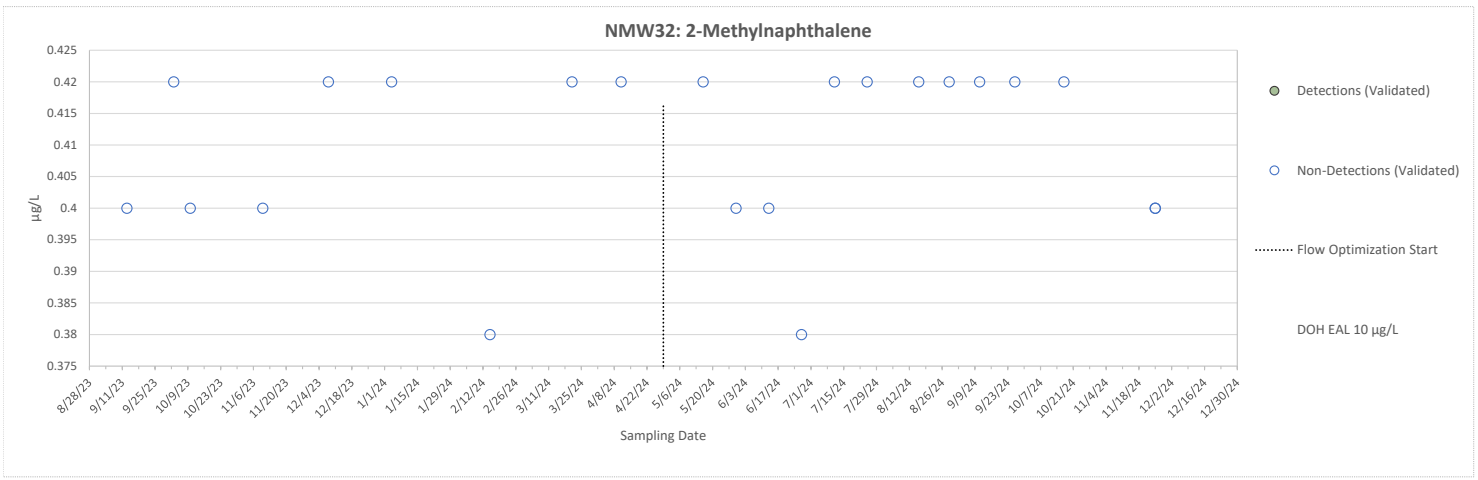

NMW32: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

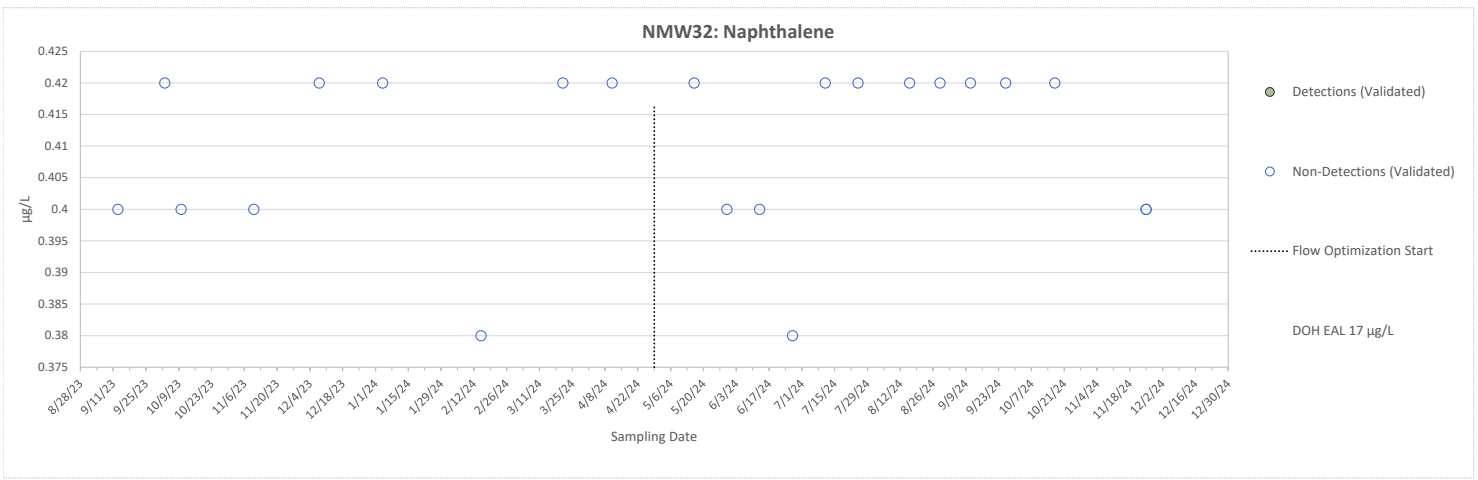

NMW32: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW32: ORO by Method 3510
µg/L
Sampling Date
178
170
162
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

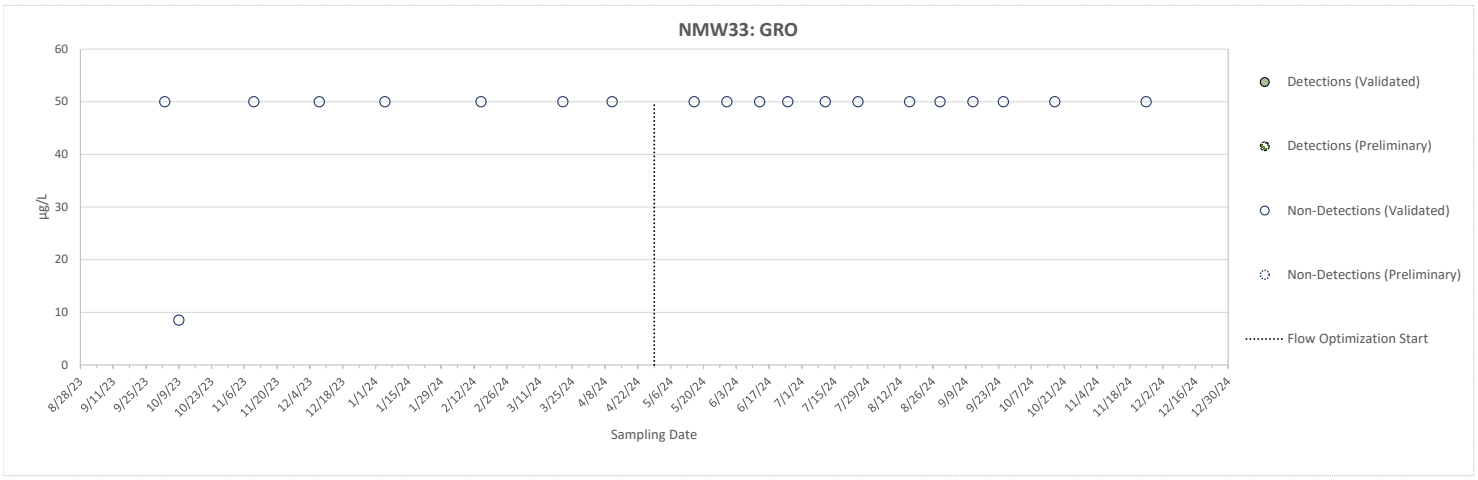

NMW32: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

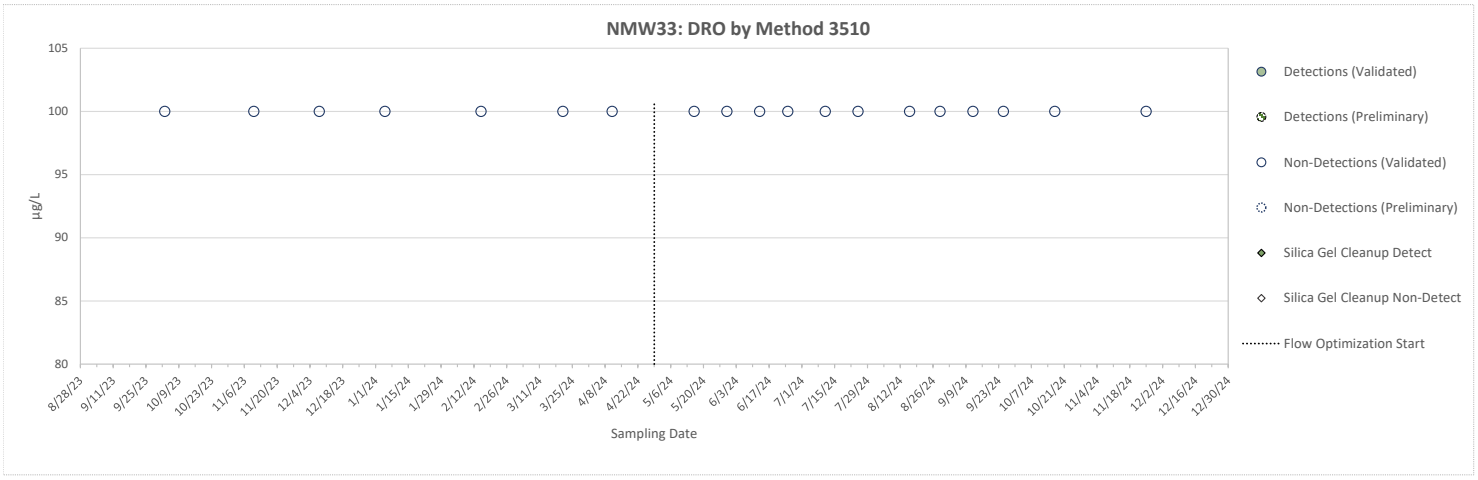


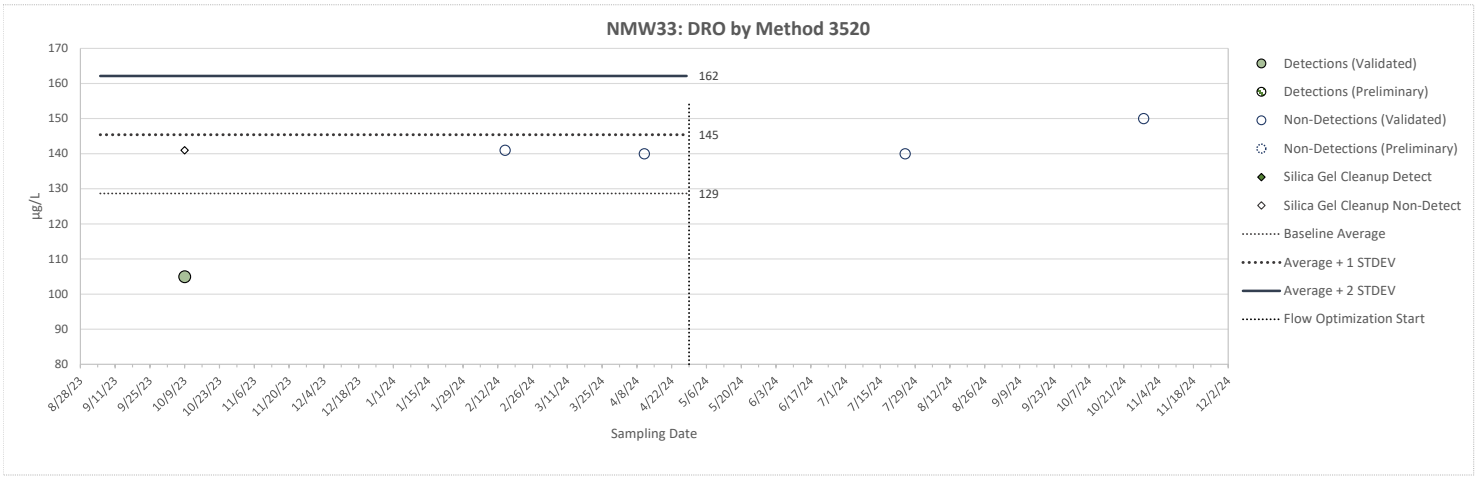


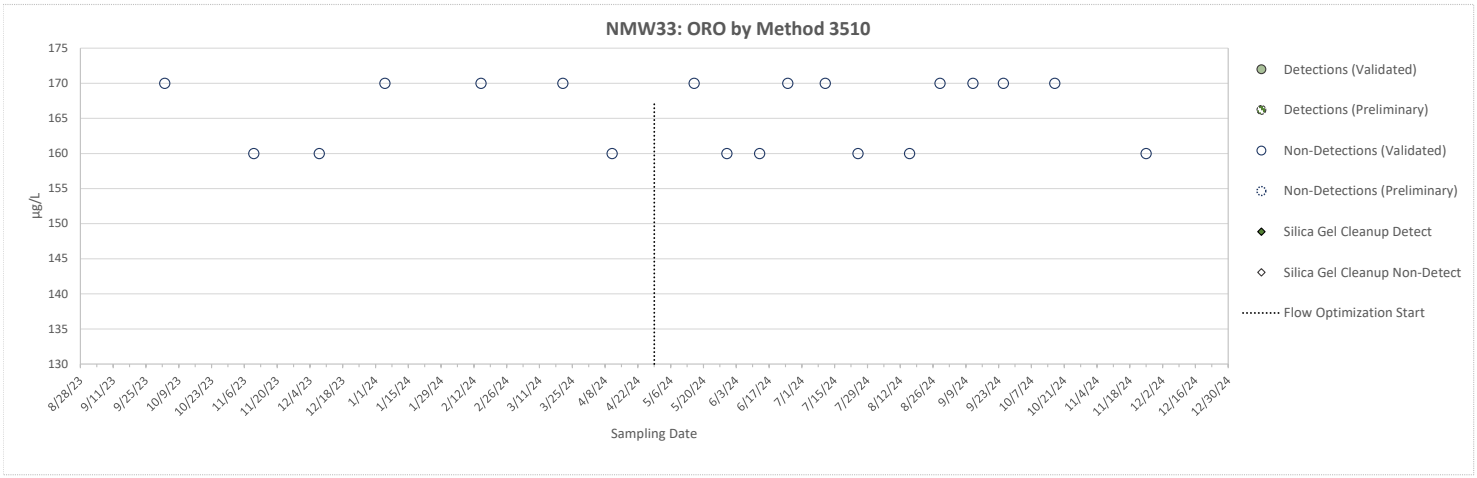


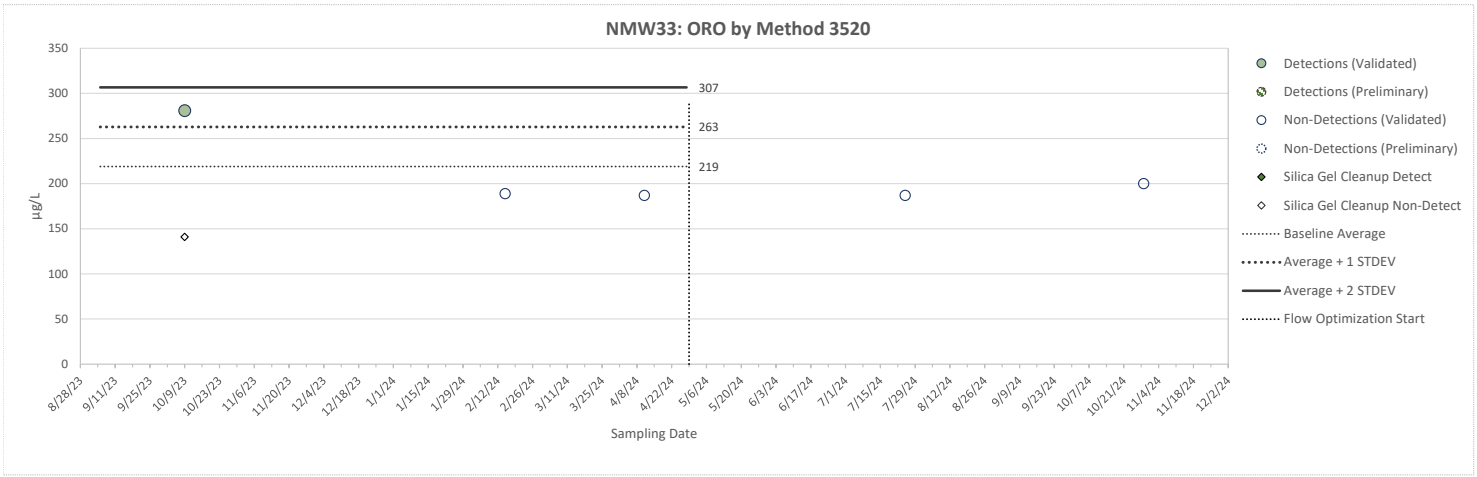
Note: See Data Legend

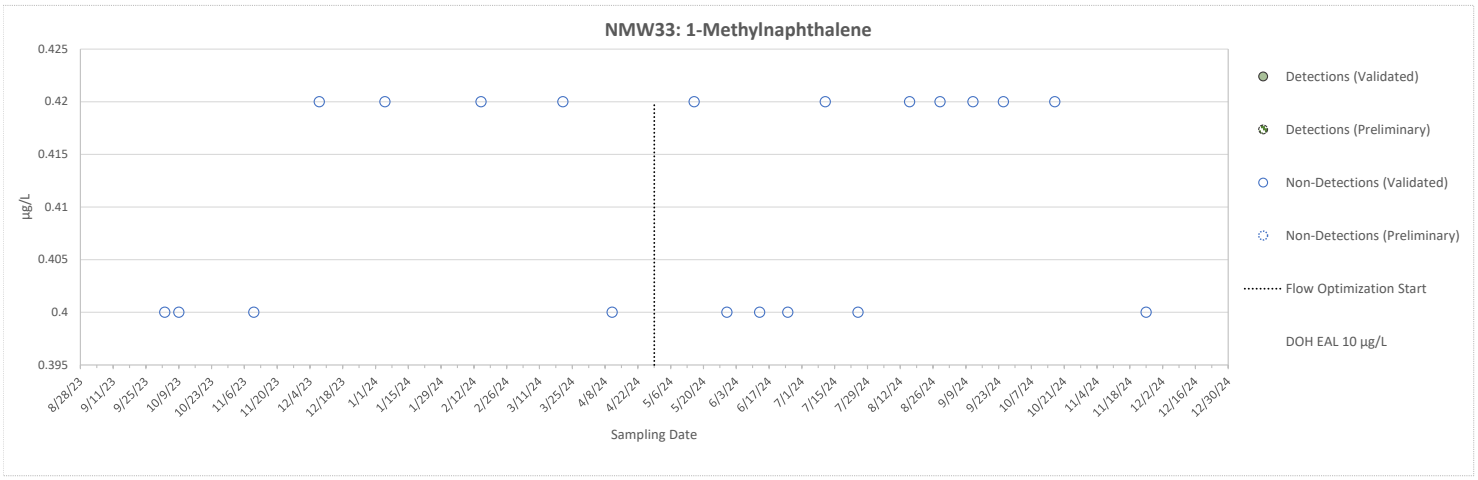

NMW33: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

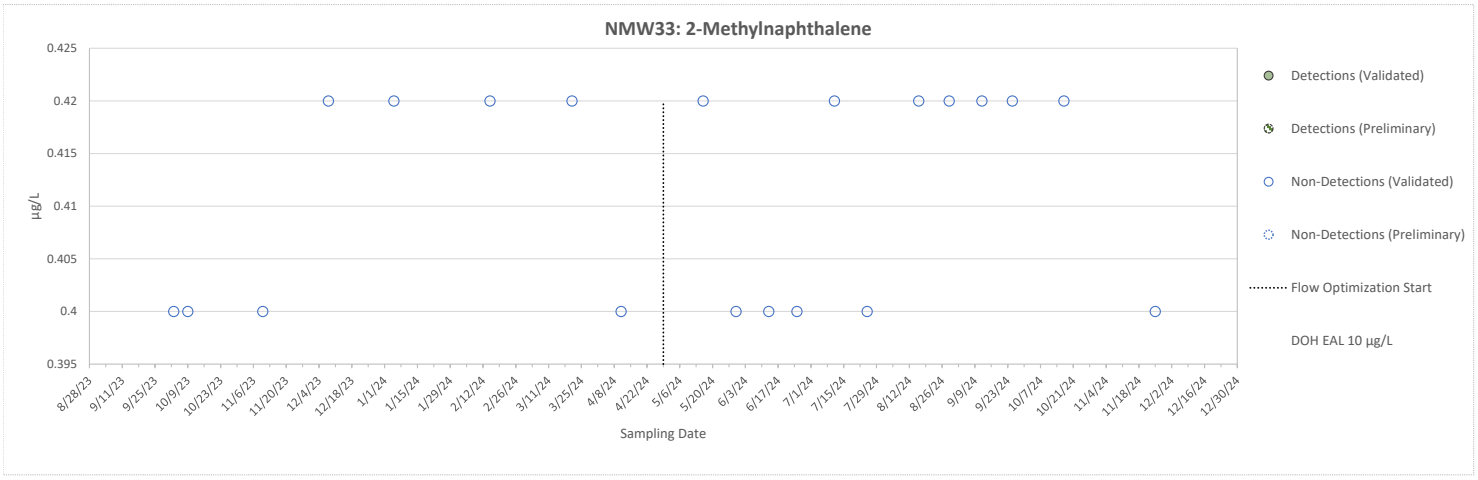

NMW33: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

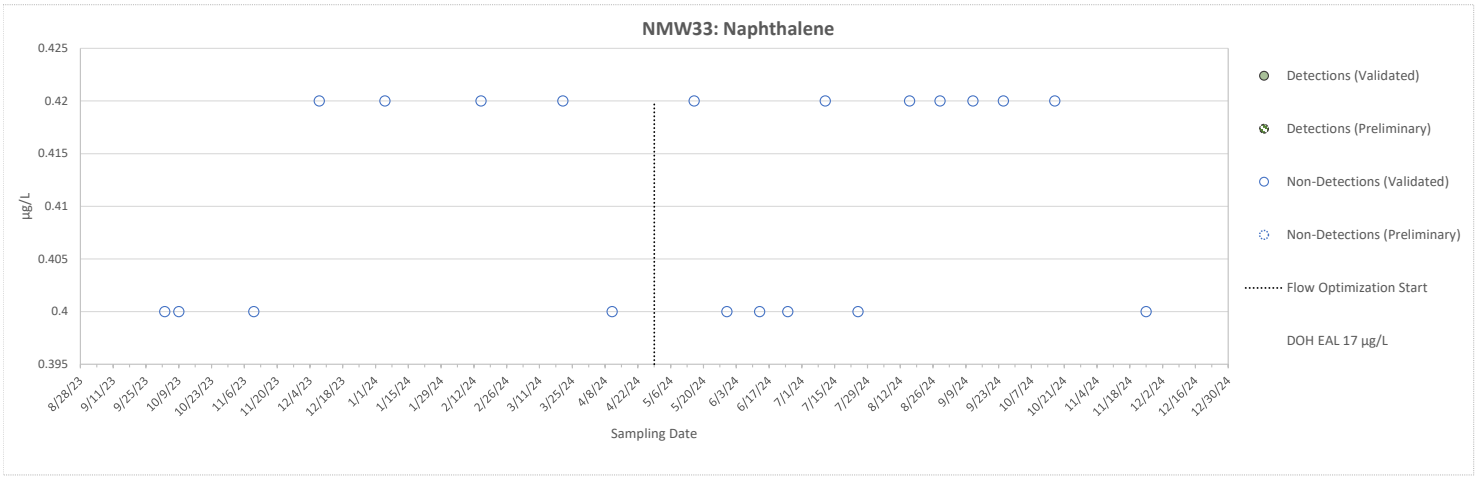

NMW33: DRO by Method 3520
µg/L
Sampling Date
162
145
129
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW33: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

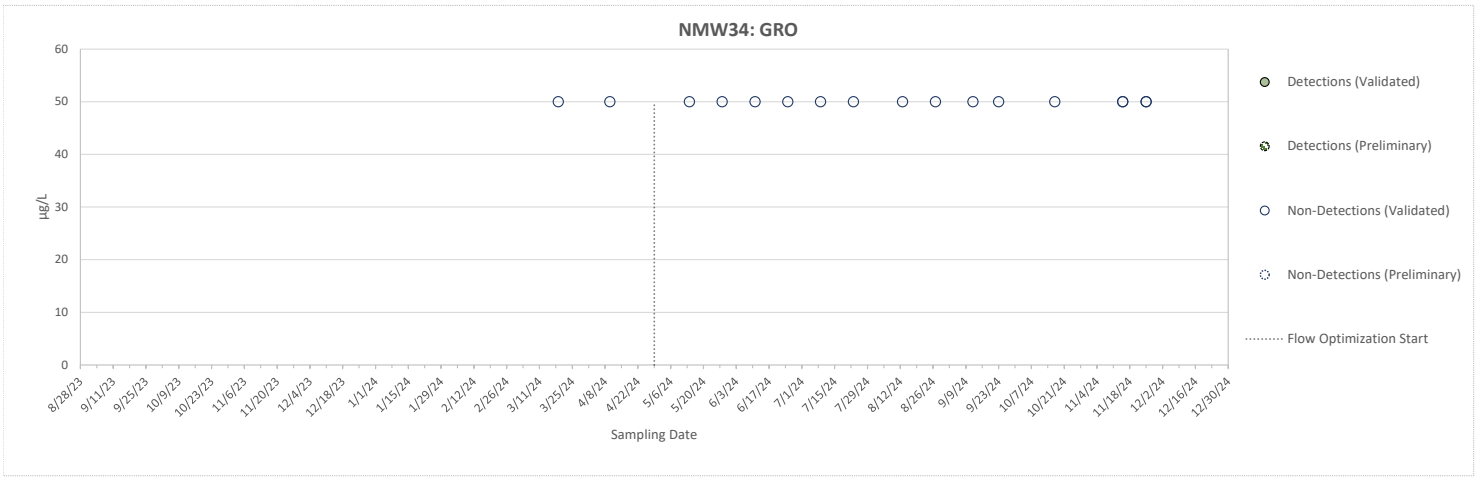

NMW33: ORO by Method 3520
µg/L
Sampling Date
307
263
219
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

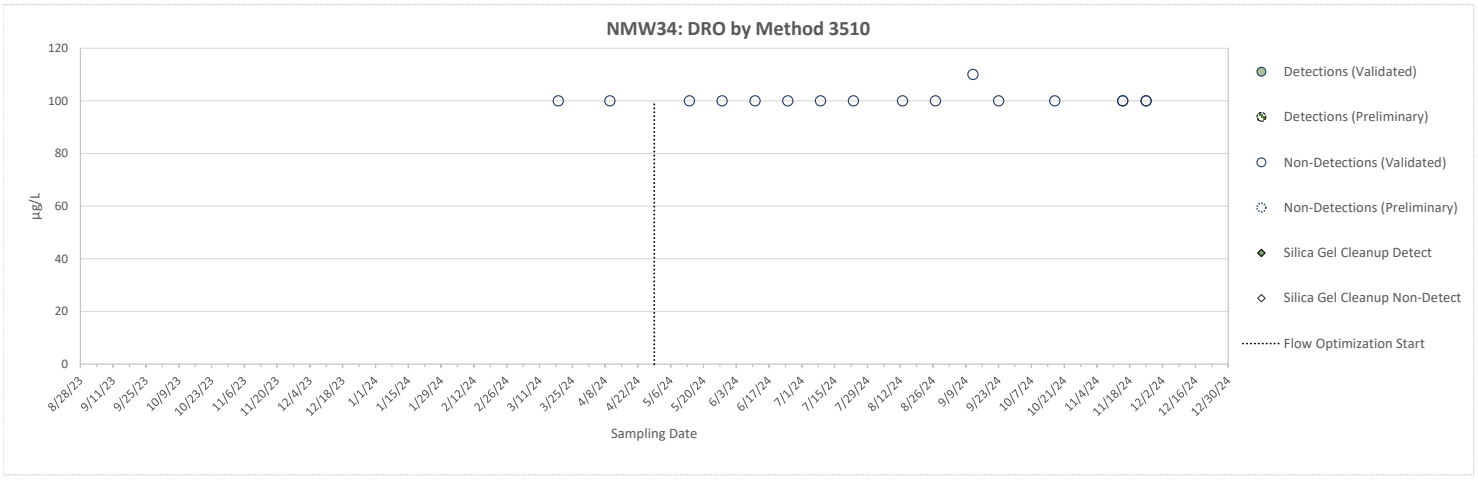


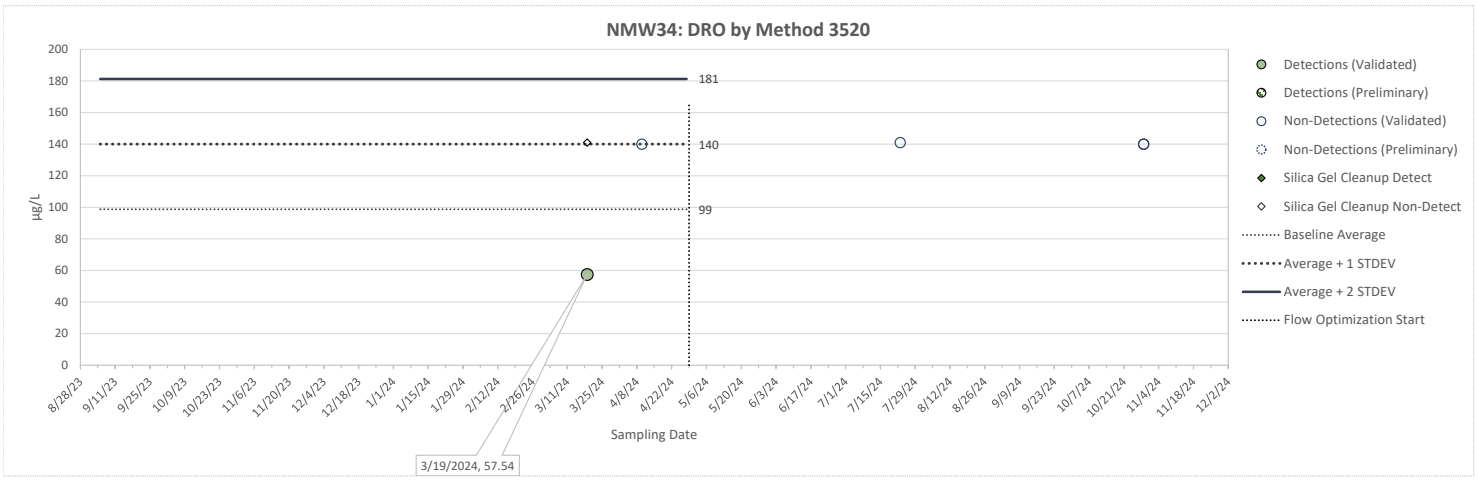


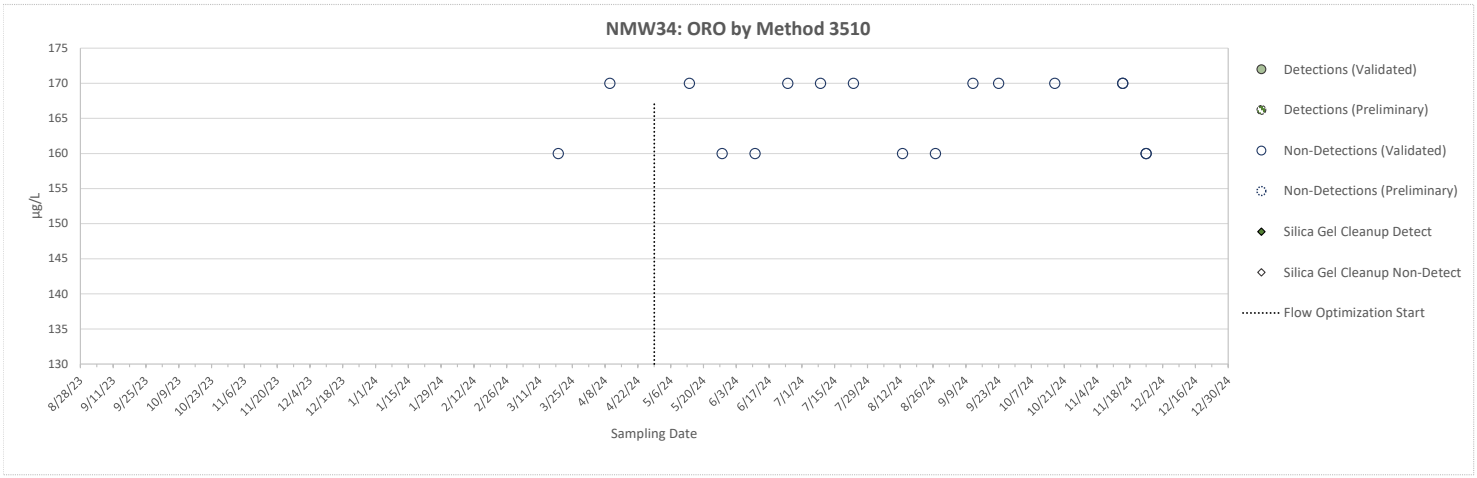


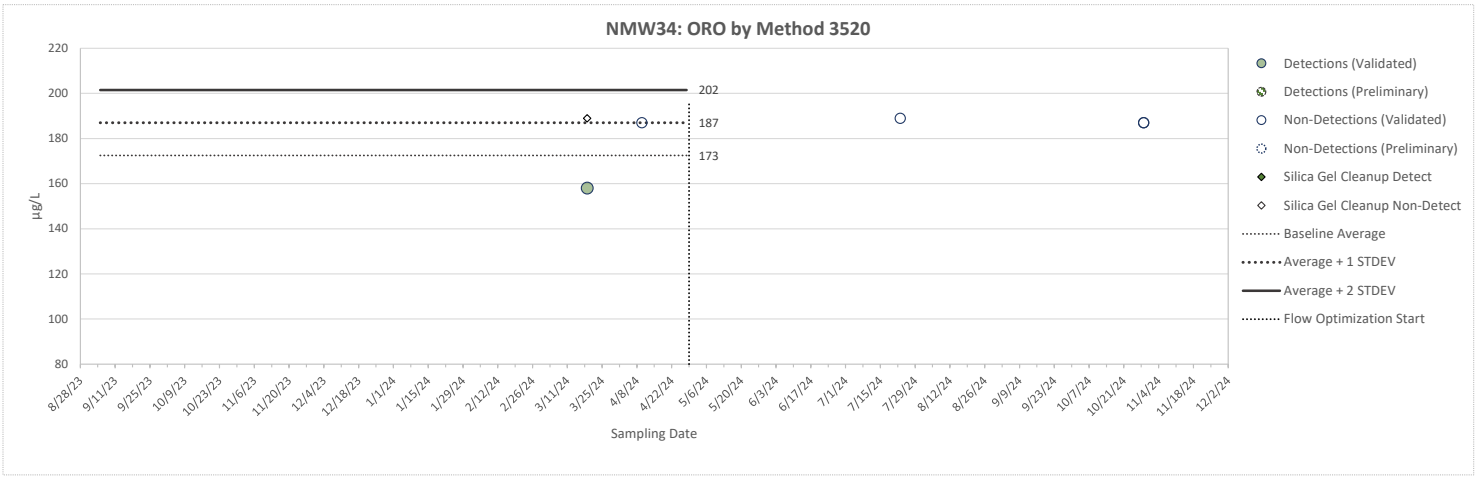
Note: See Data Legend

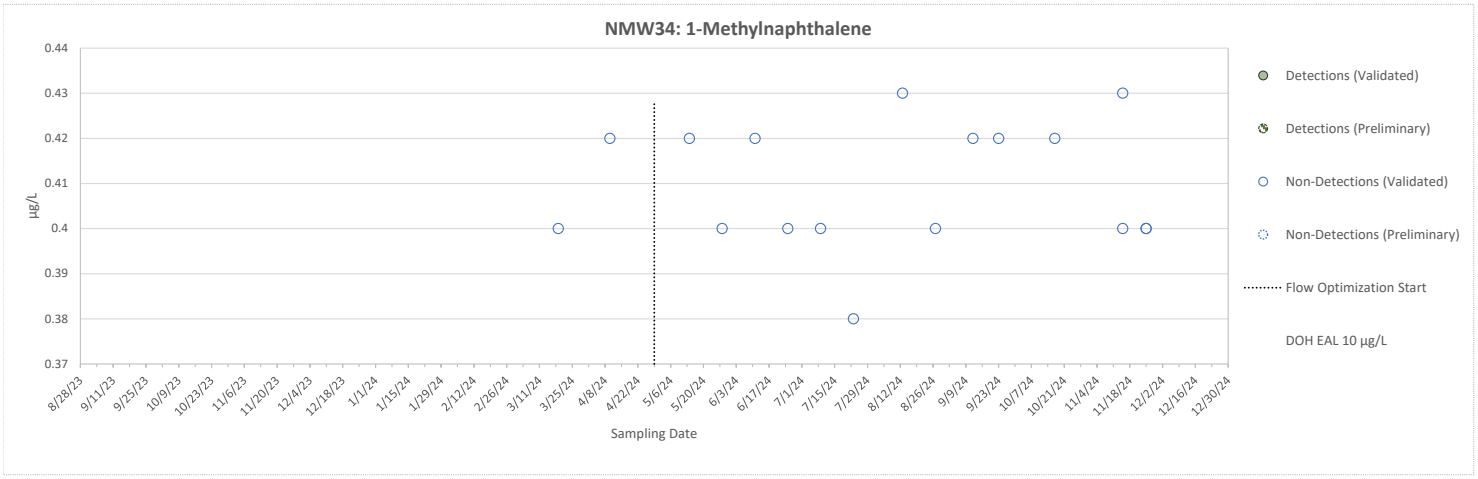

NMW34: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

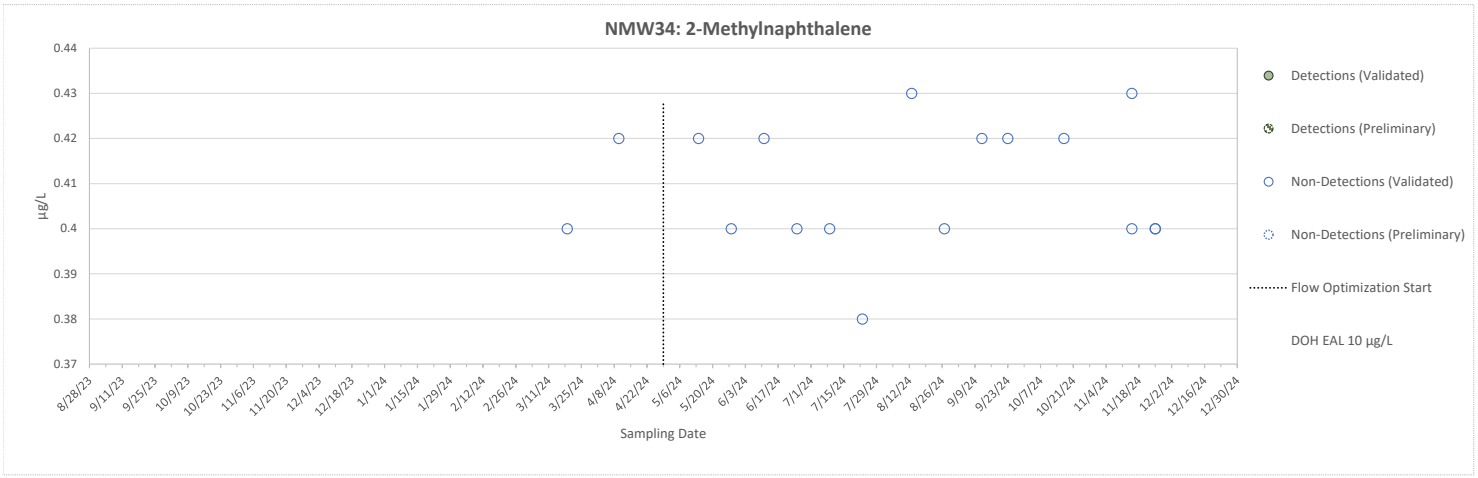

NMW34: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

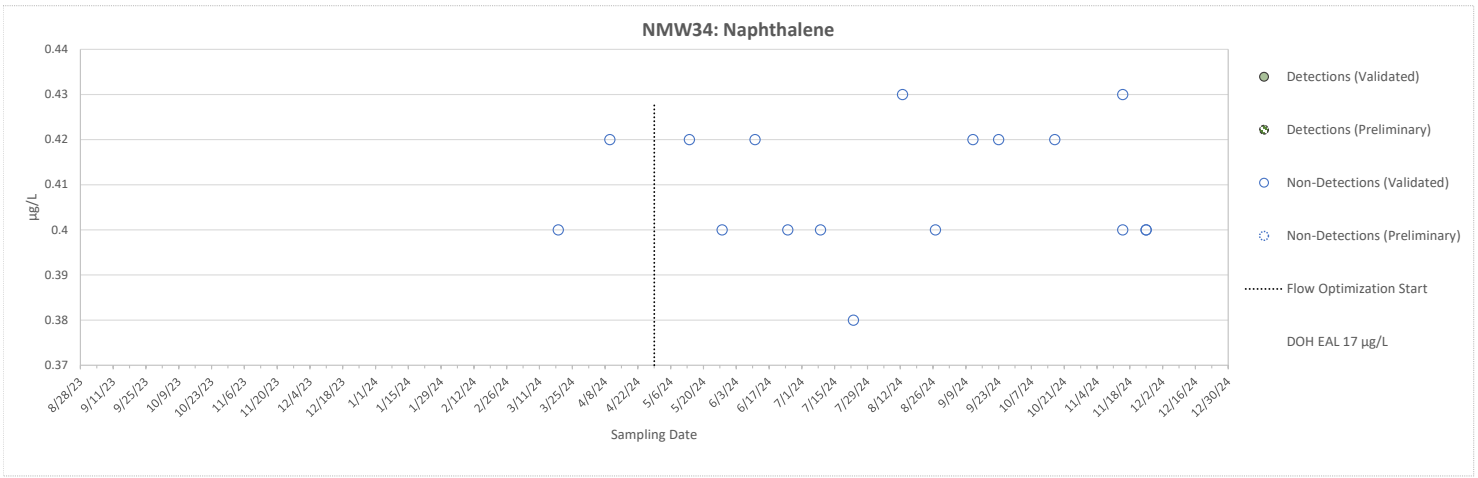

NMW34: DRO by Method 3520
µg/L
Sampling Date
181
140
99
3/19/2024, 57.54
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW34: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

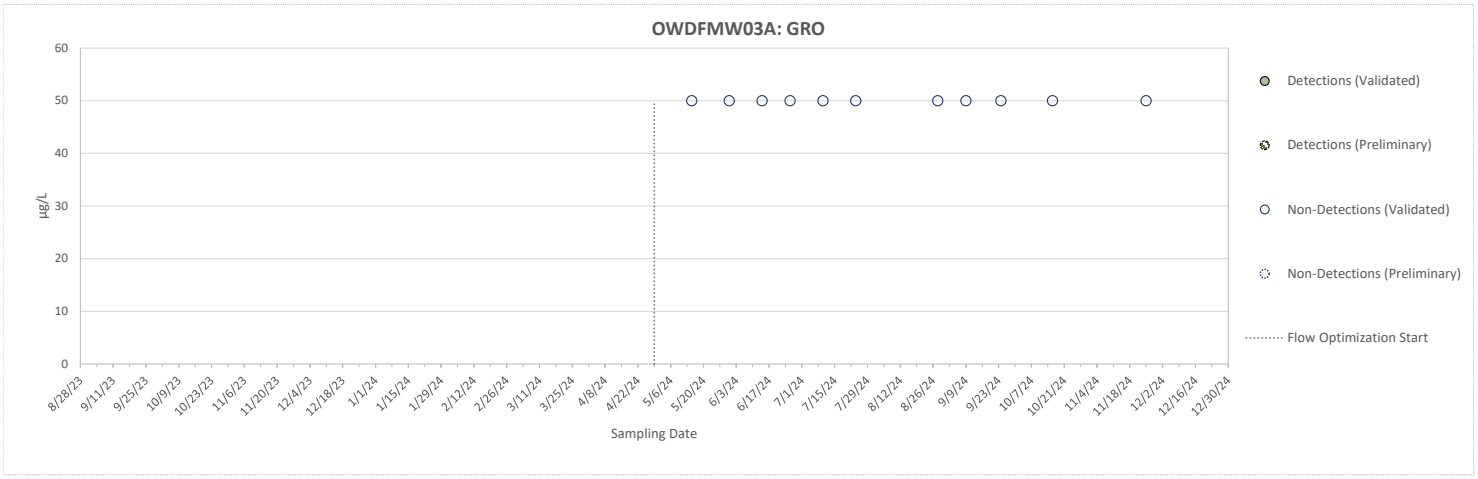

NMW34: ORO by Method 3520
µg/L
Sampling Date
202
187
173
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

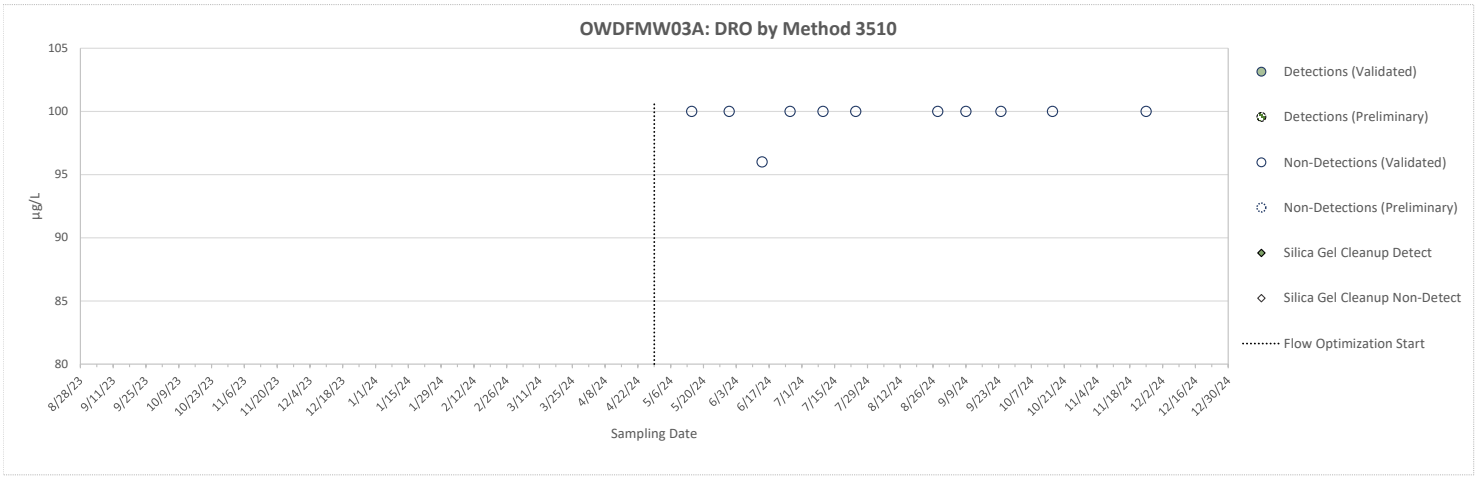


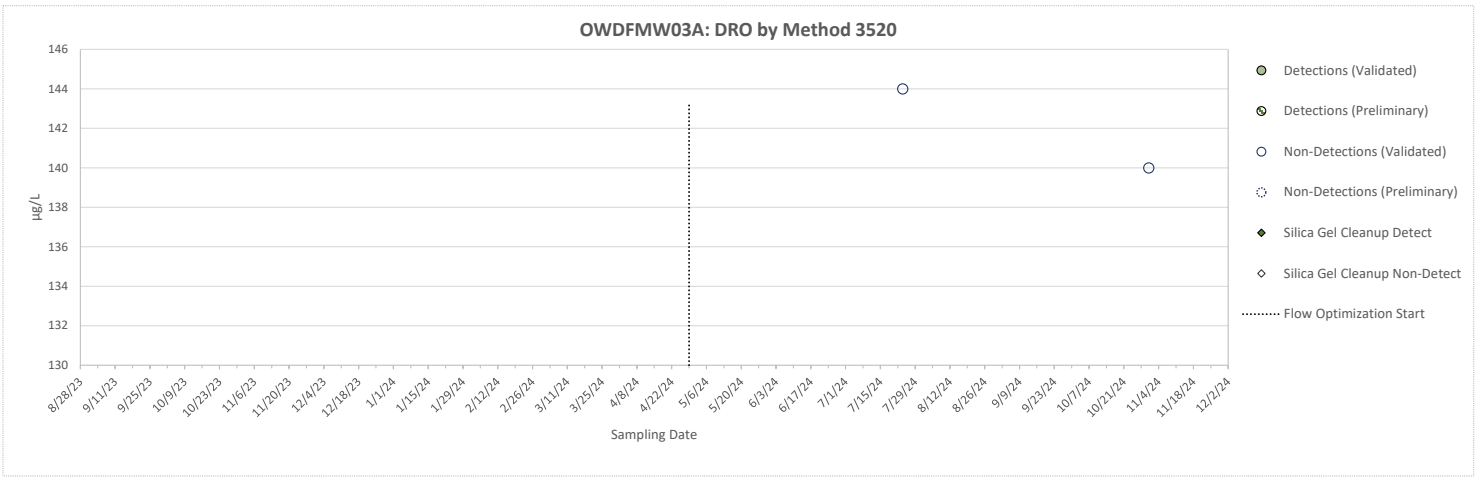


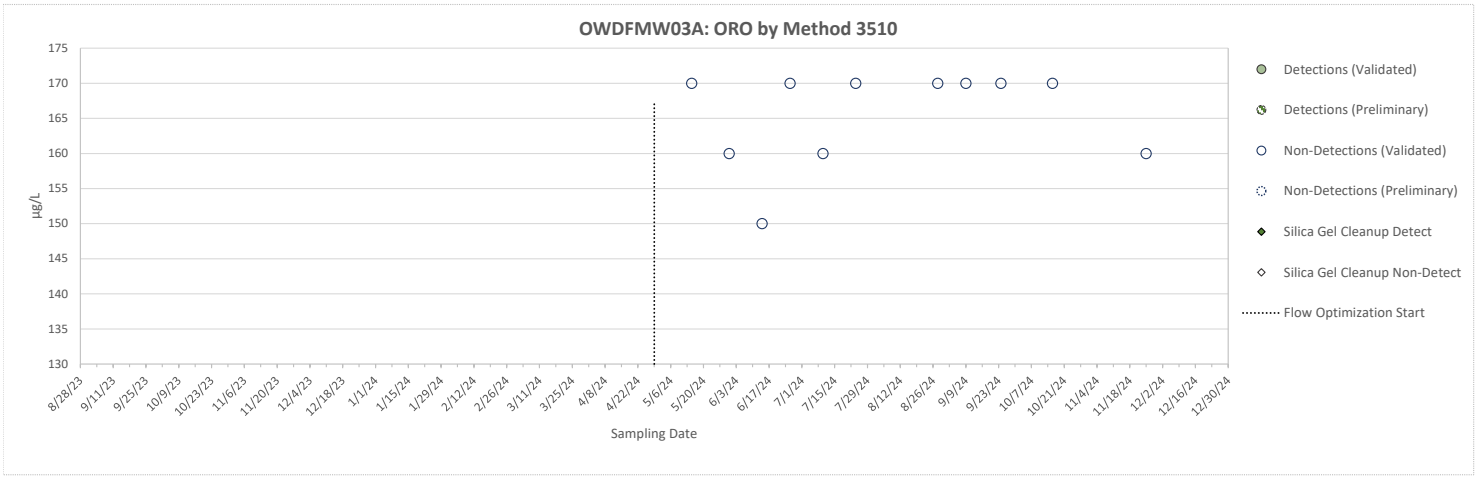


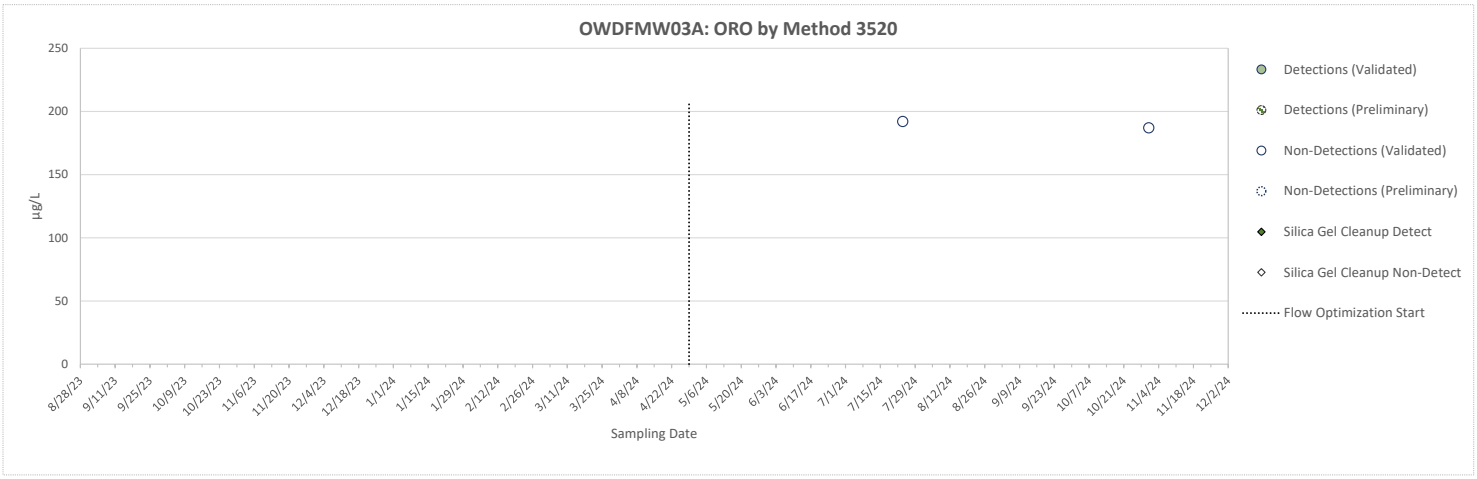
Note: See Data Legend

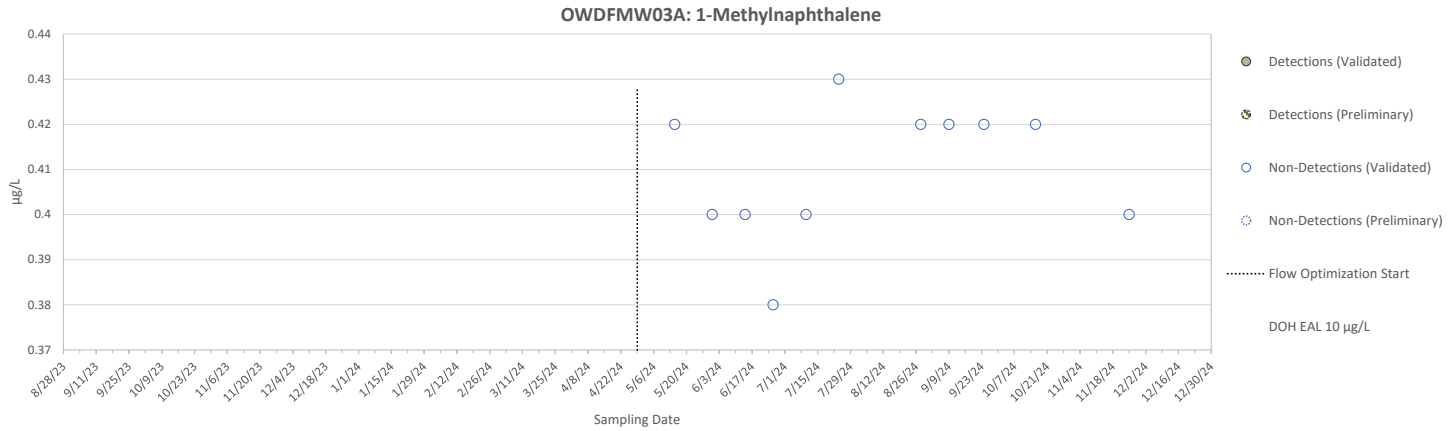

OWDFMW03A: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

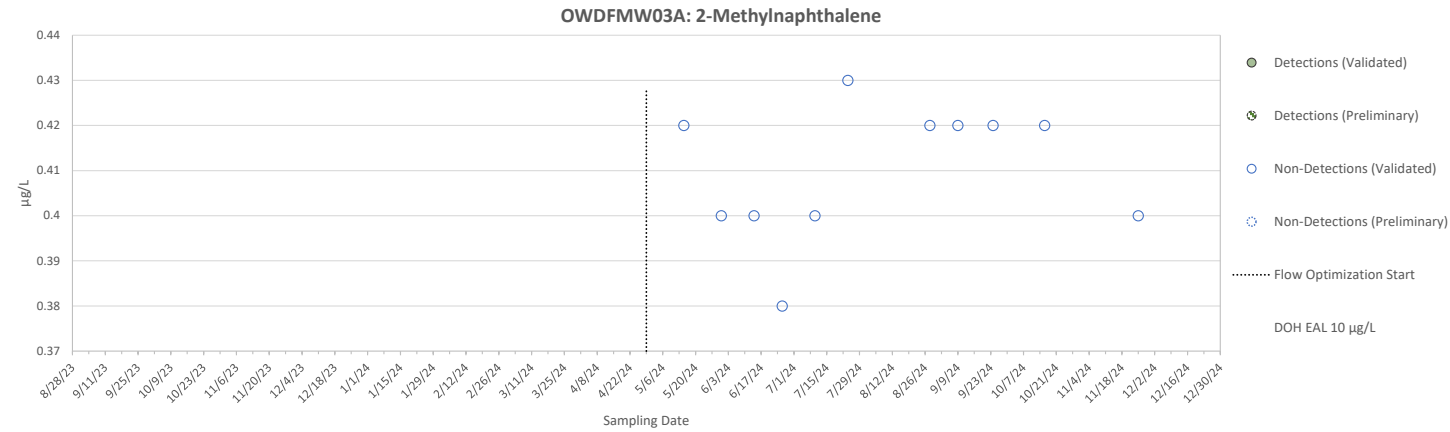

OWDFMW03A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

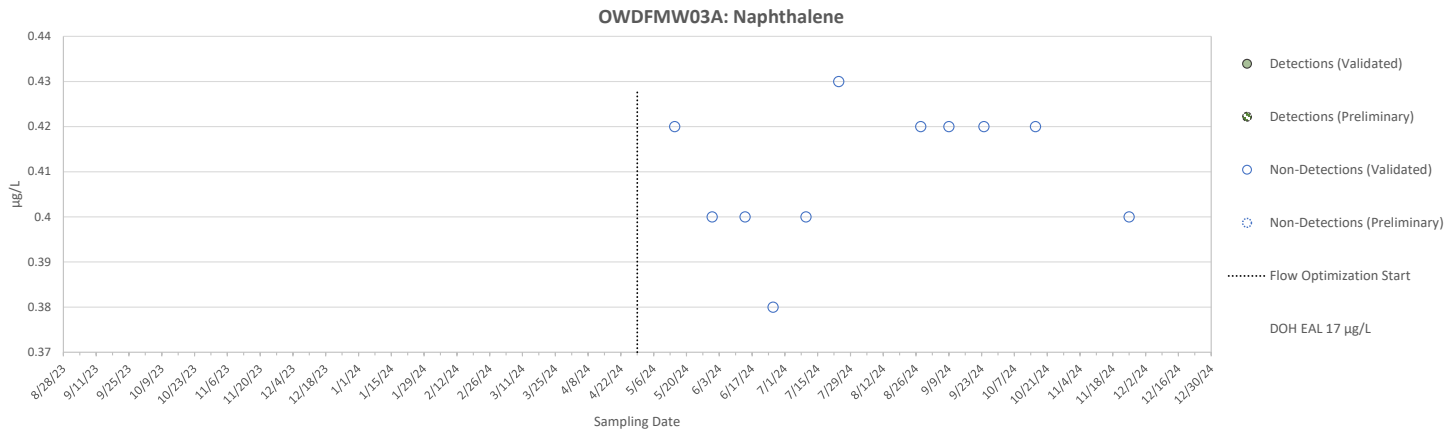

OWDFMW03A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


OWDFMW03A: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

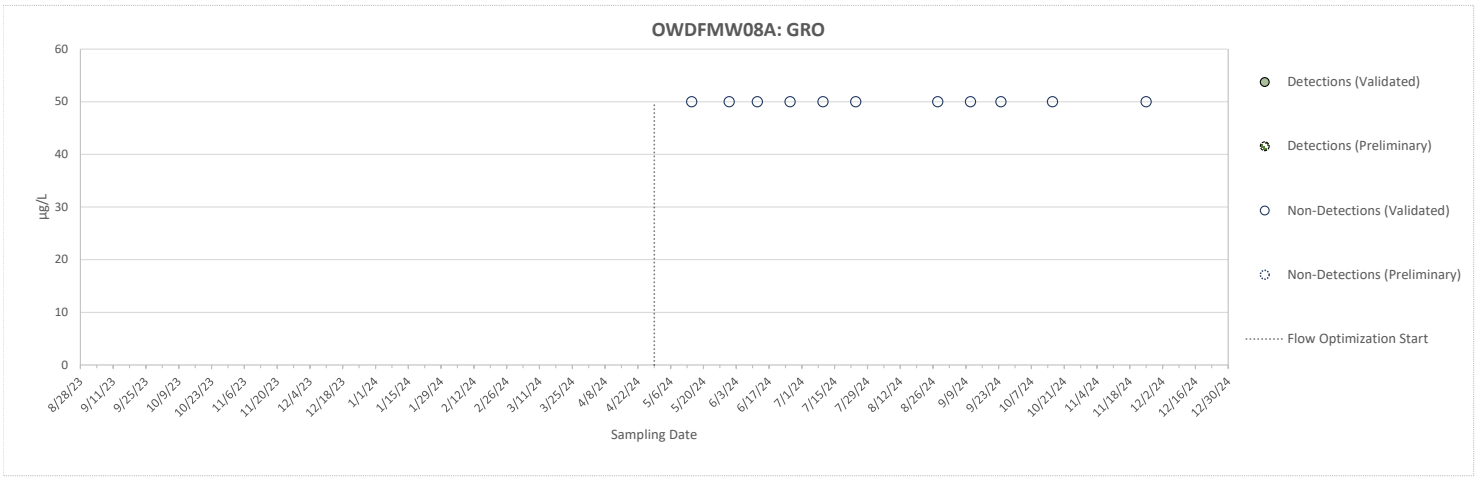

OWDFMW03A: ORO by Method 3520
µg/L
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

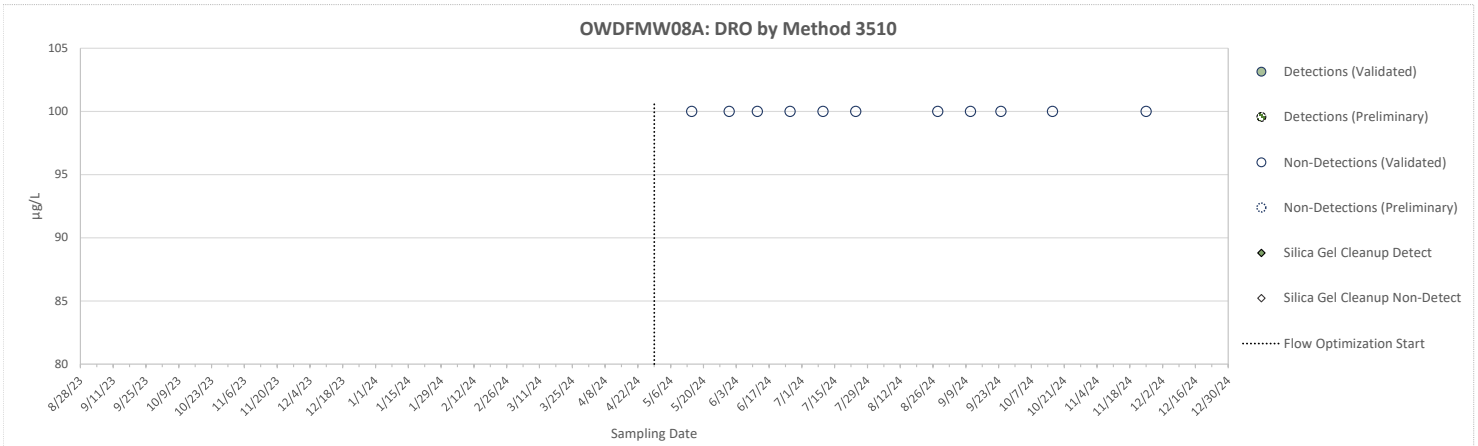


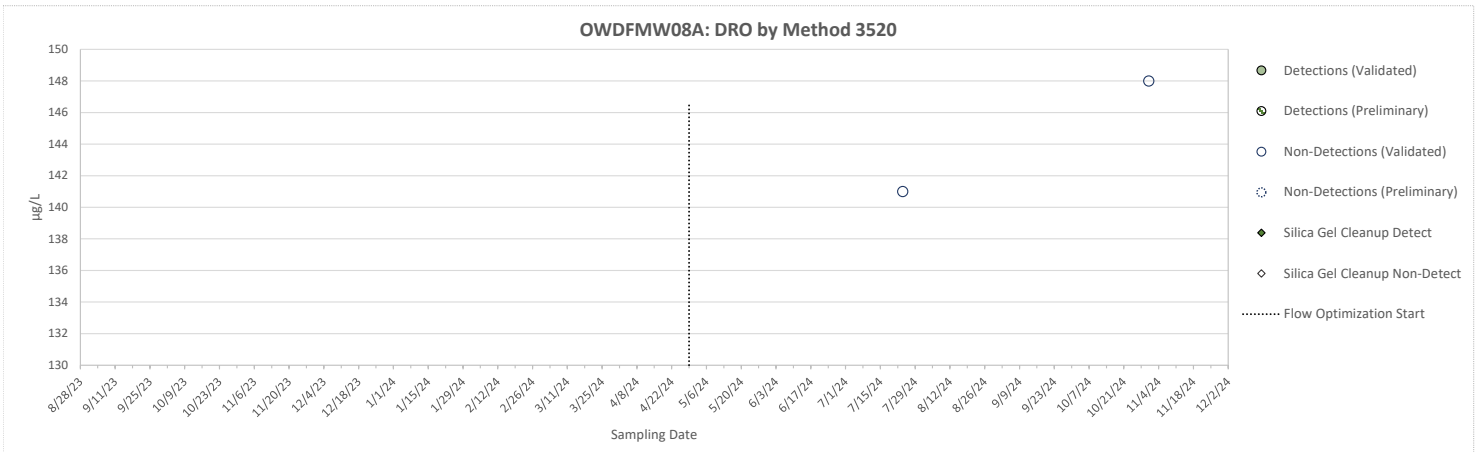


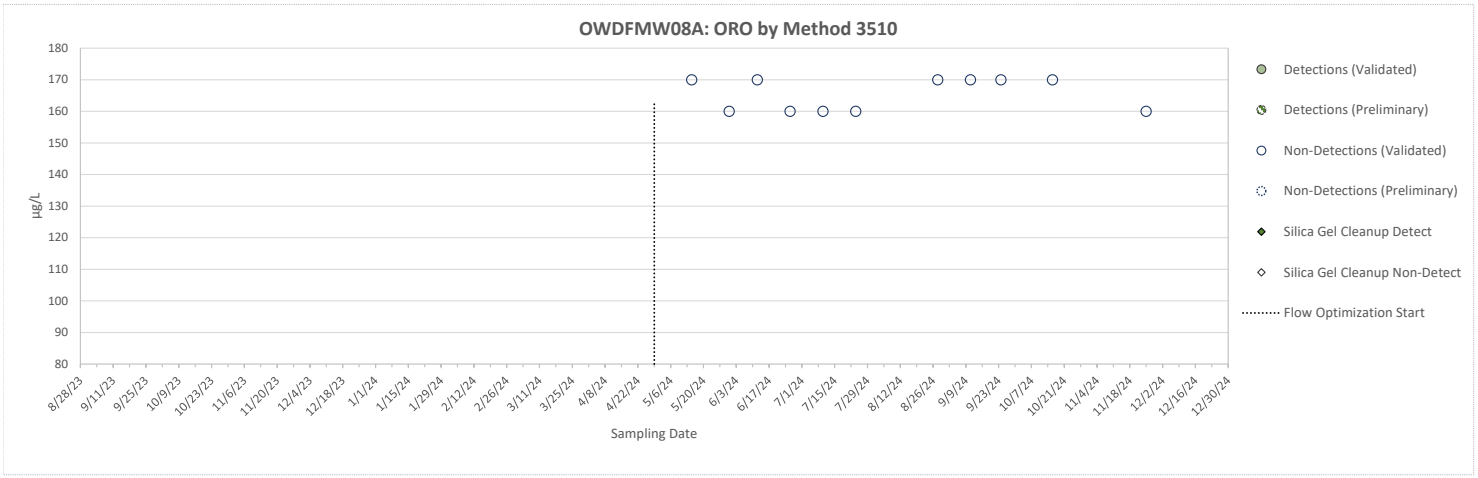


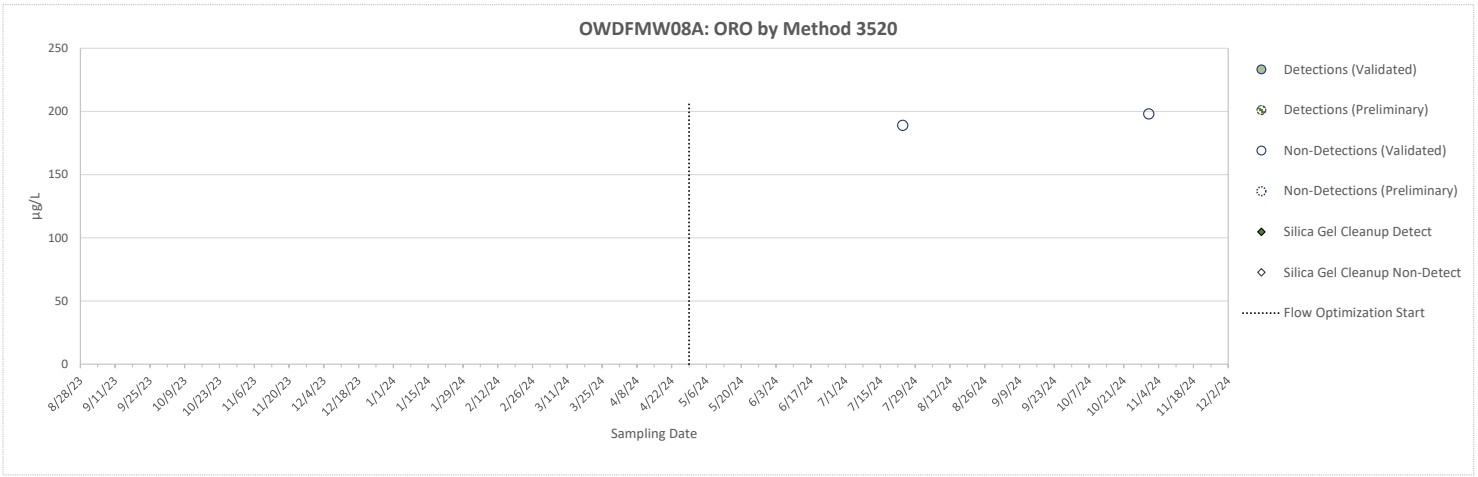
Note: See Data Legend

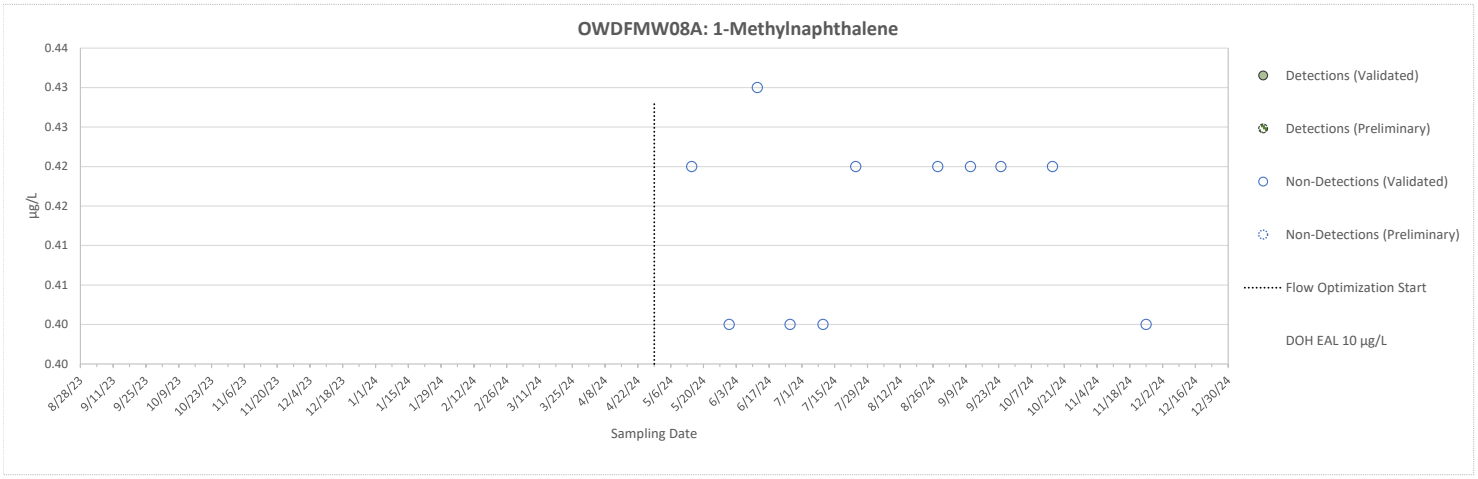

OWDFMW08A: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

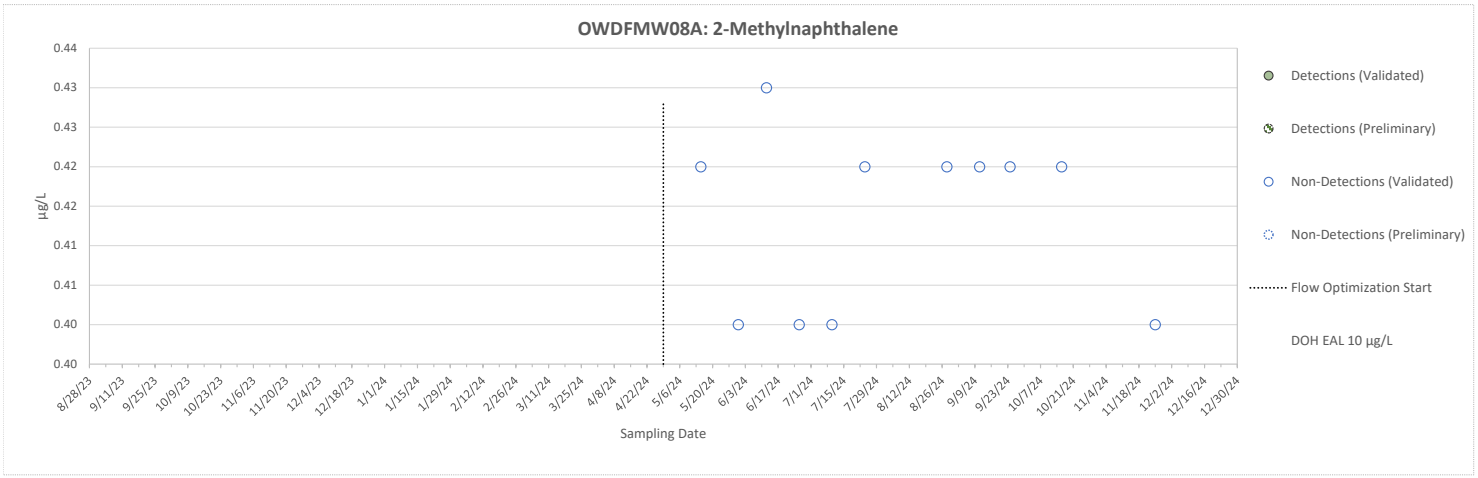

OWDFMW08A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

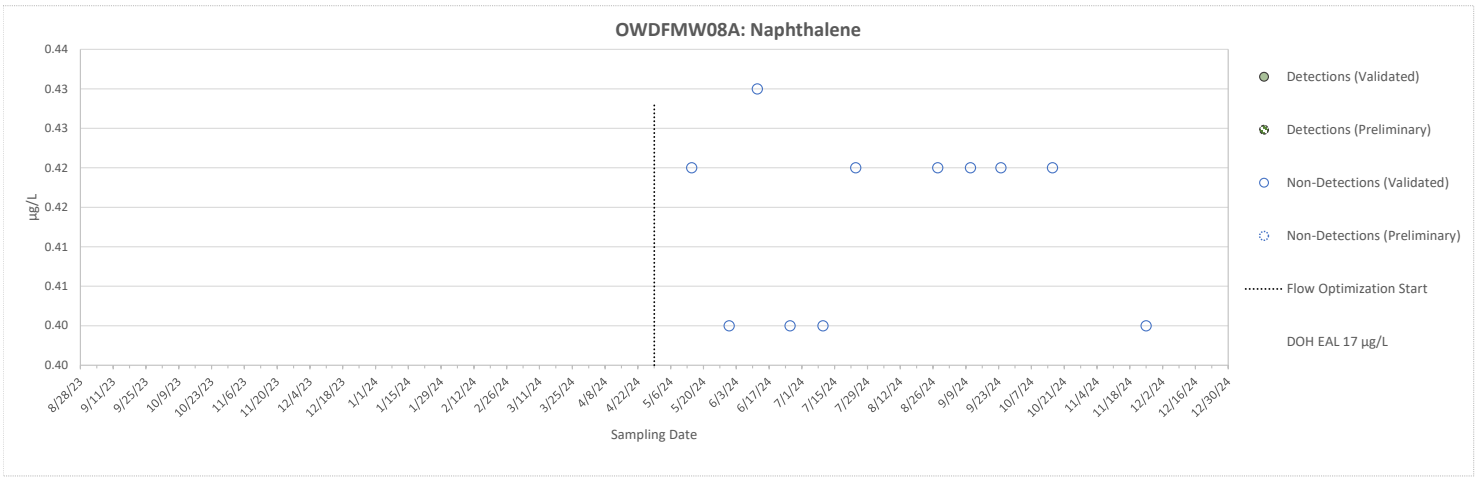

OWDFMW08A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


OWDFMW08A: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

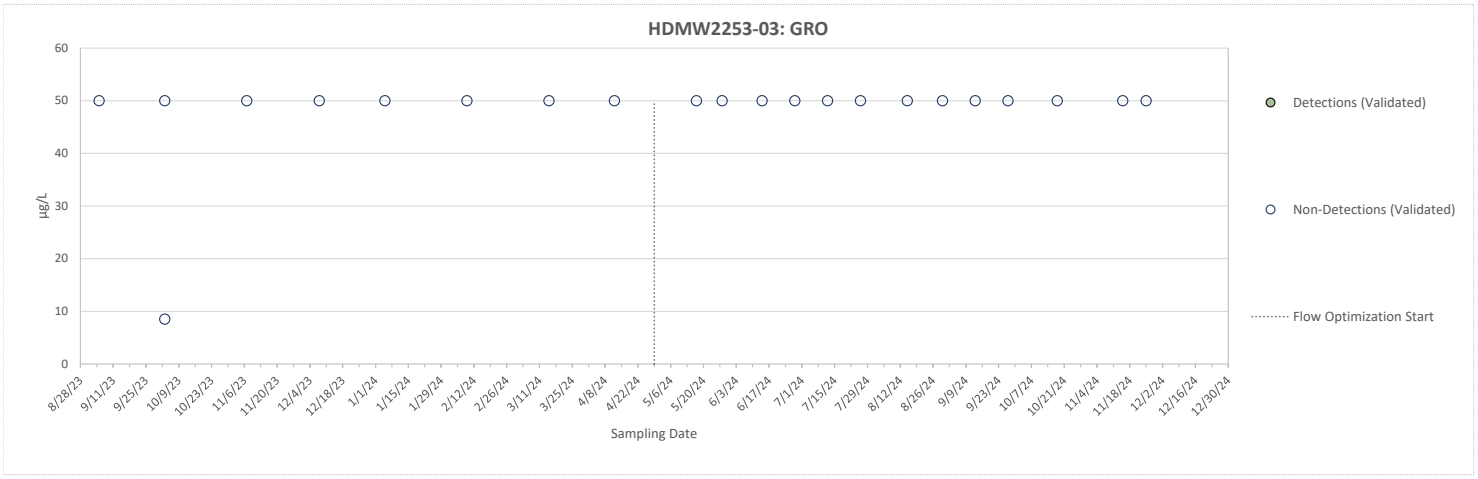

OWDFMW08A: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

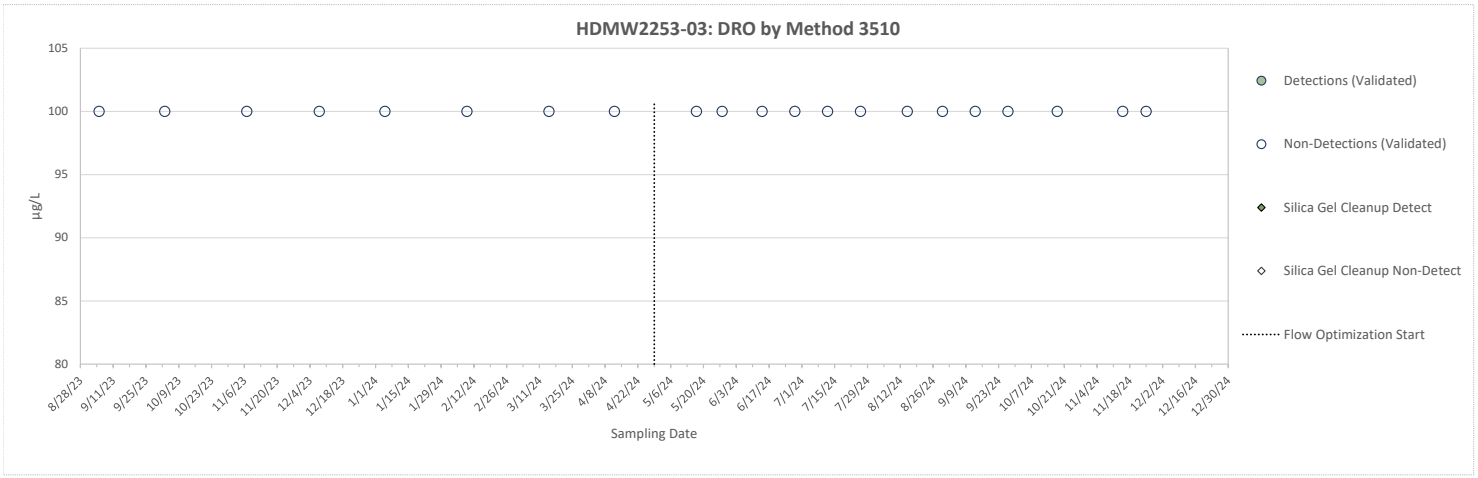


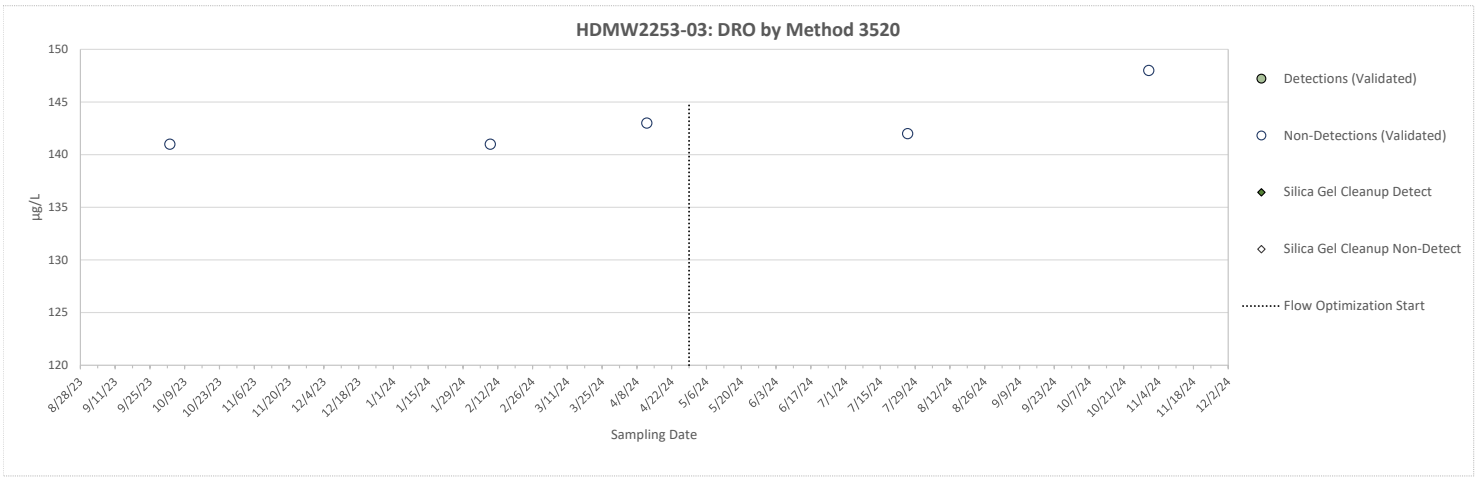


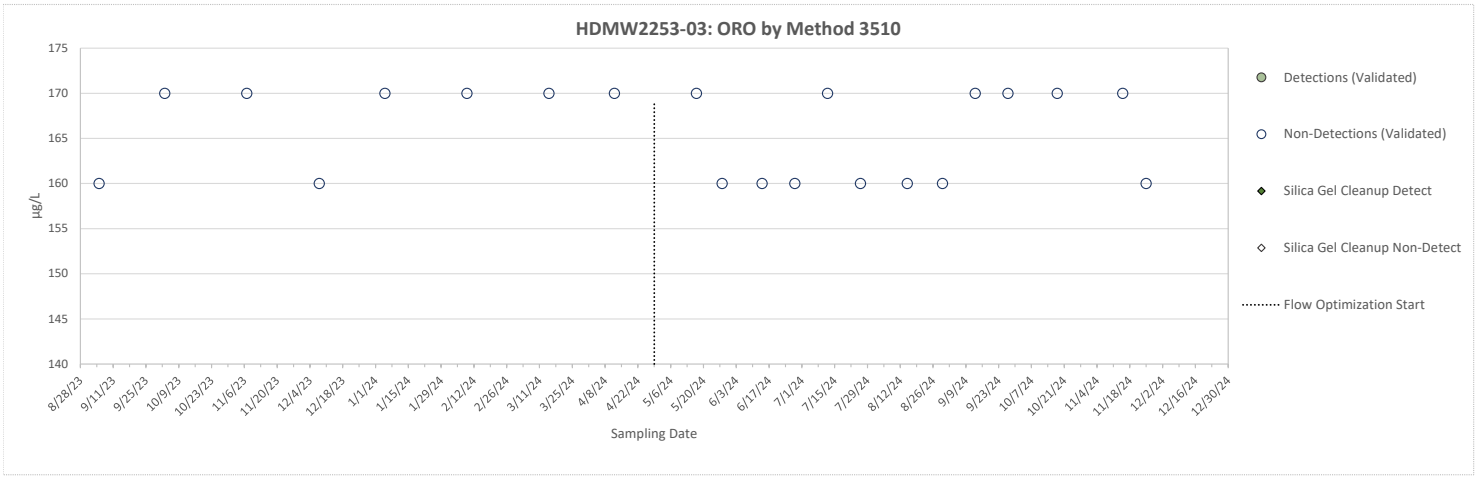


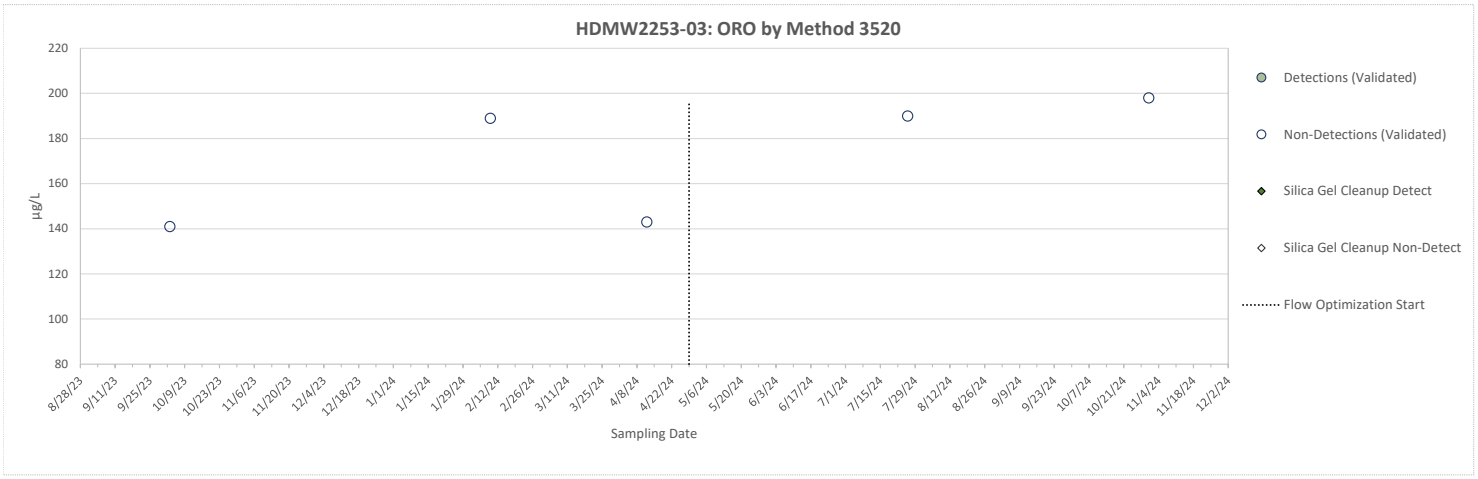
Note: See Data Legend

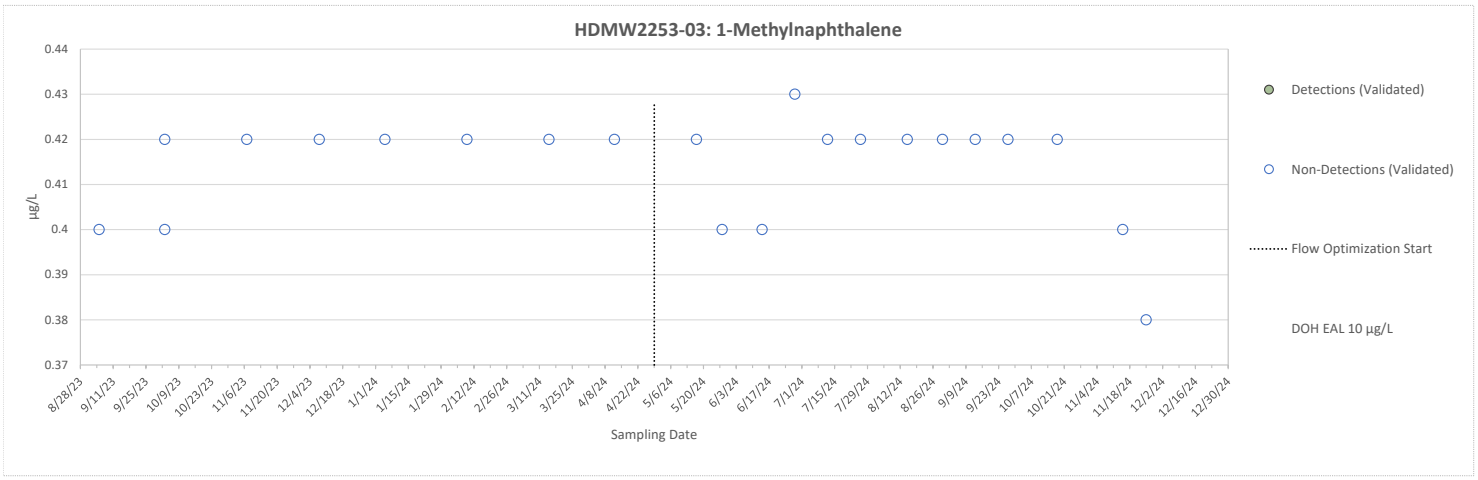

HDMW2253-03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

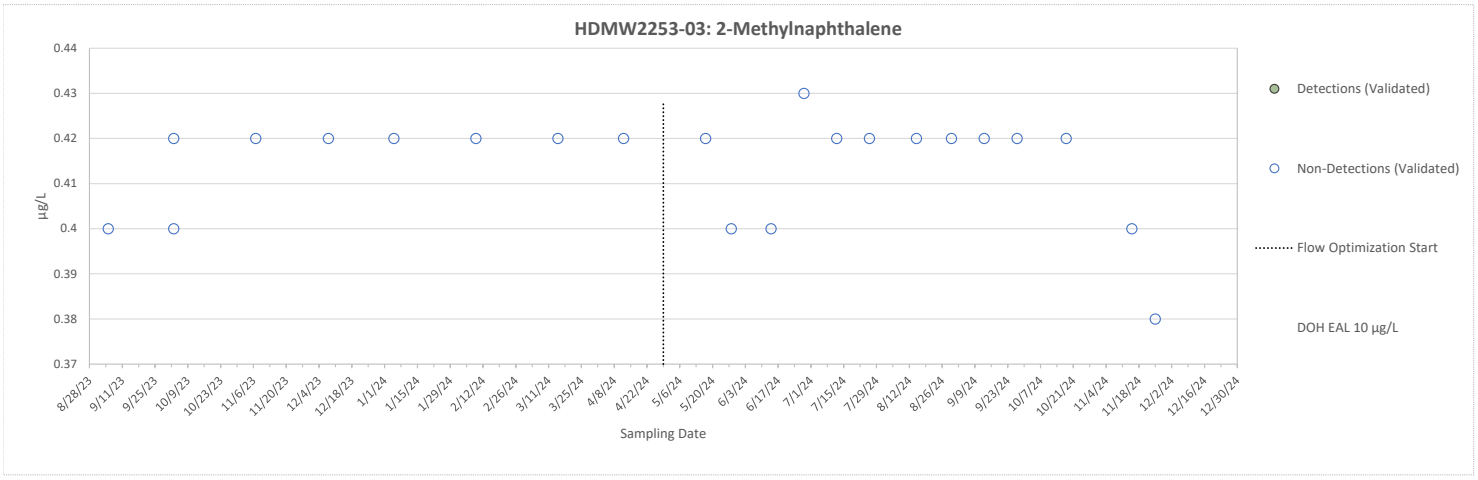

HDMW2253-03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

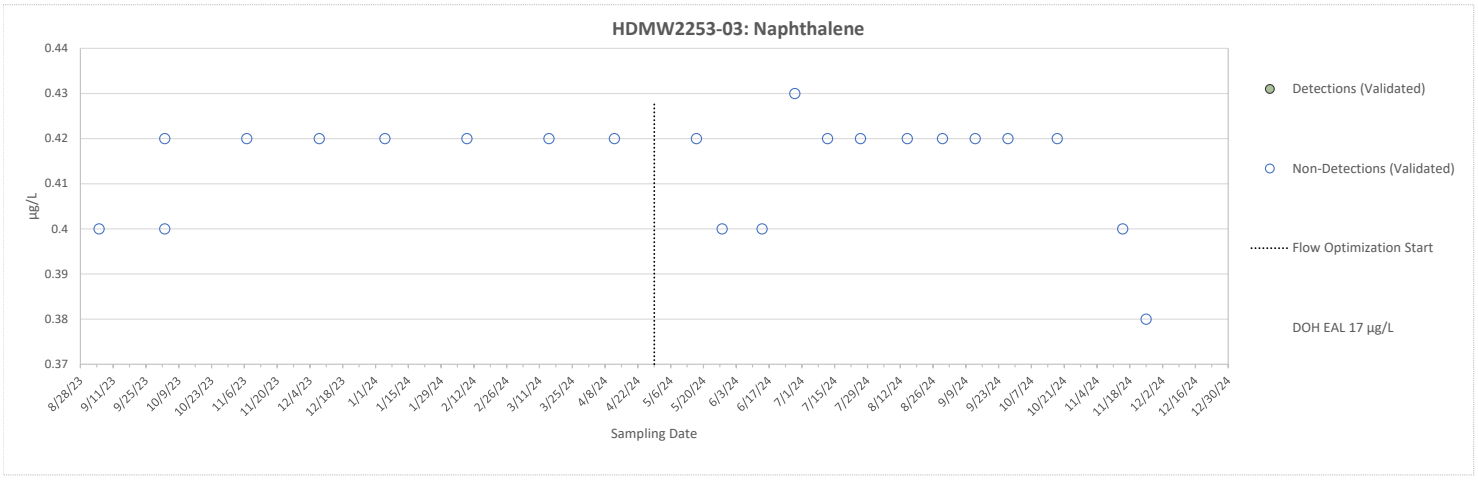

HDMW2253-03: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


HDMW2253-03: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

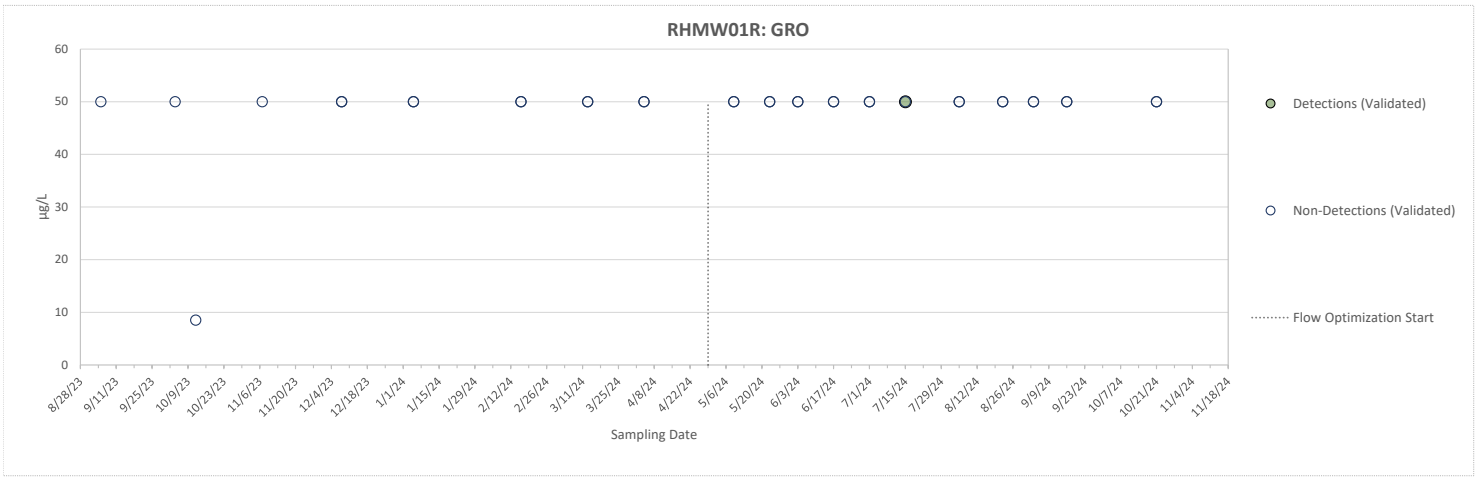

HDMW2253-03: ORO by Method 3520
µg/L
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

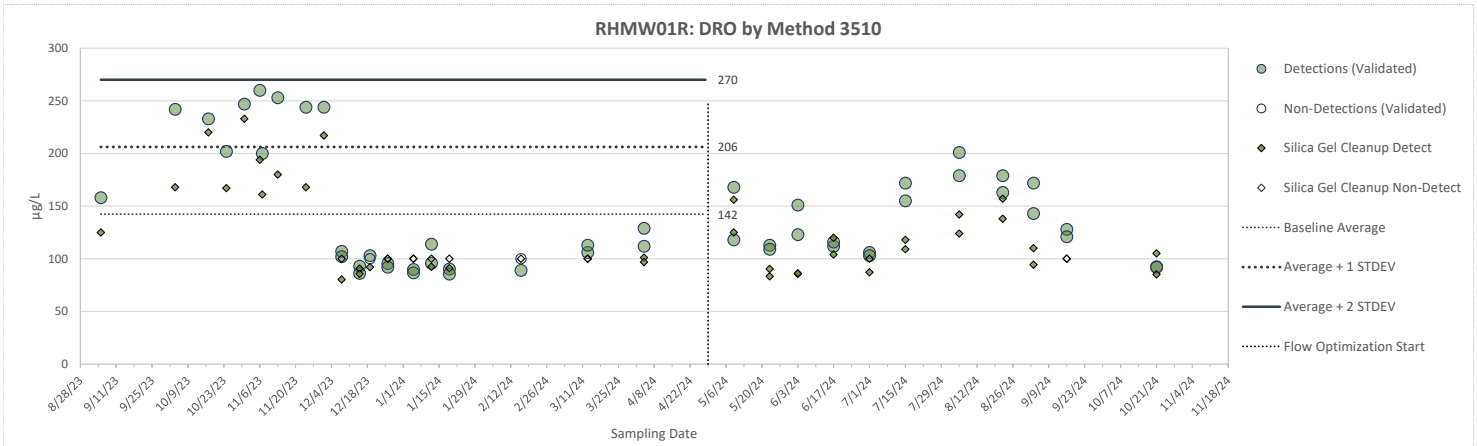


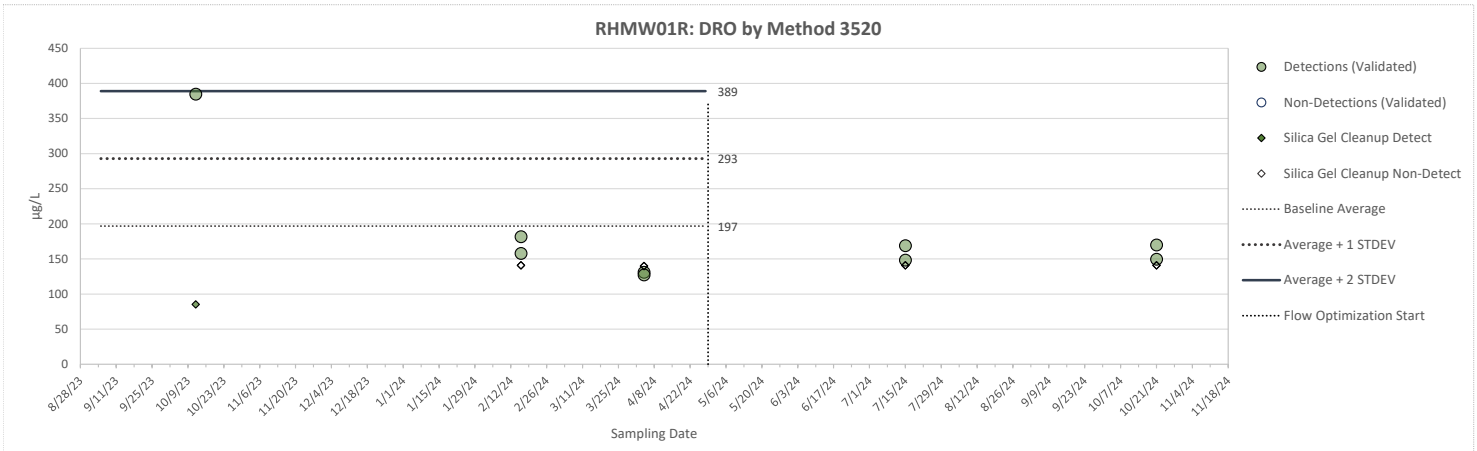


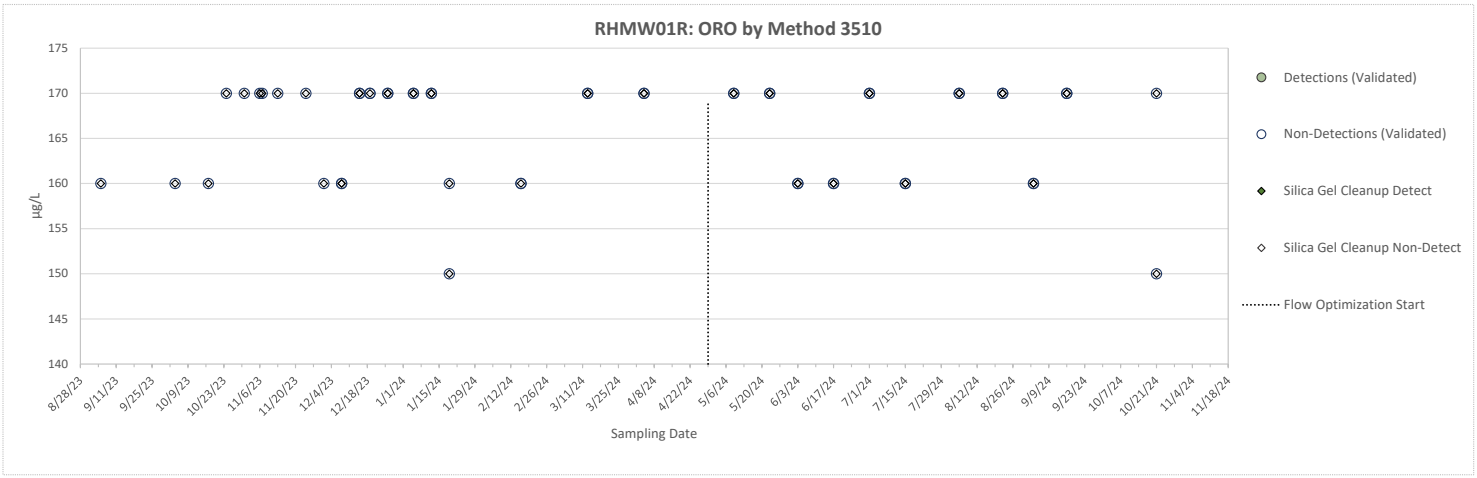


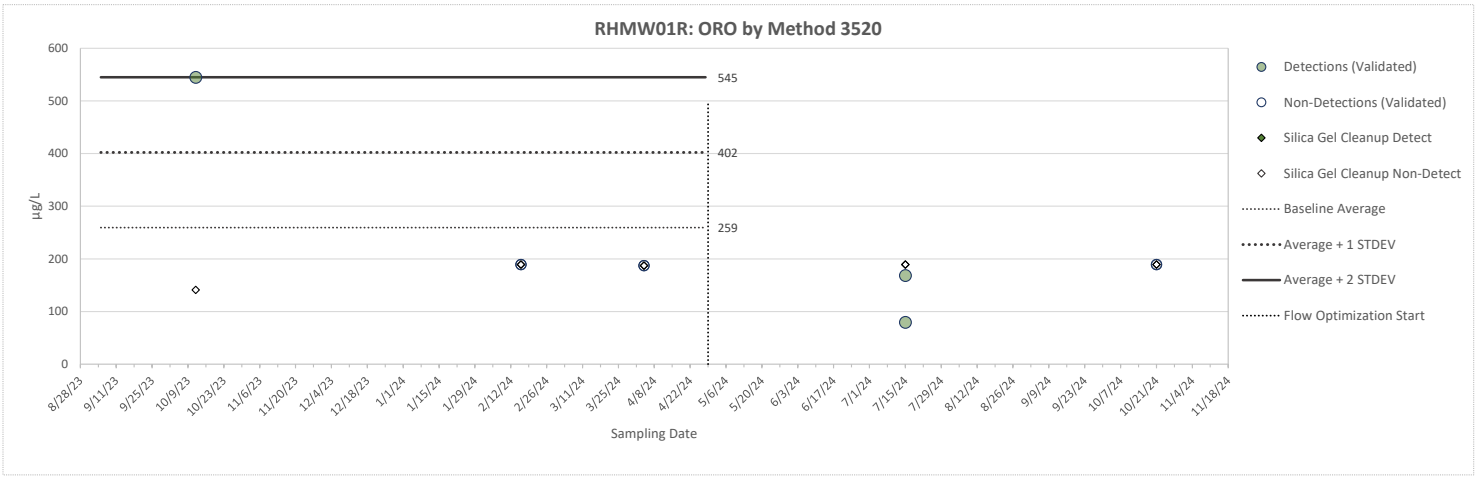
Note: See Data Legend

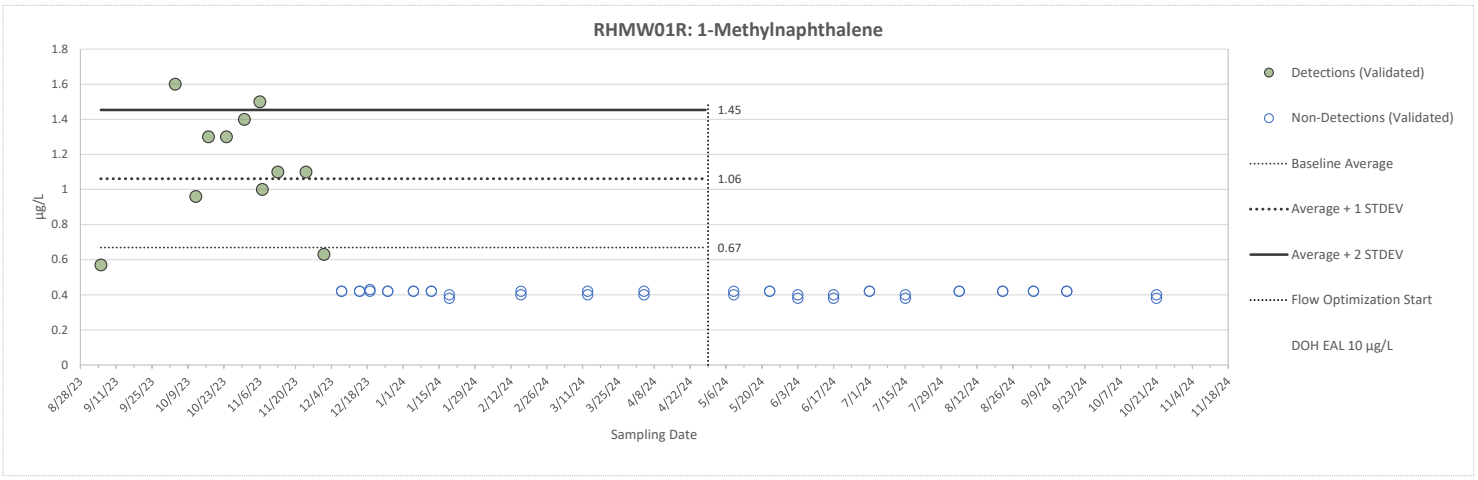

RHMW01R: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

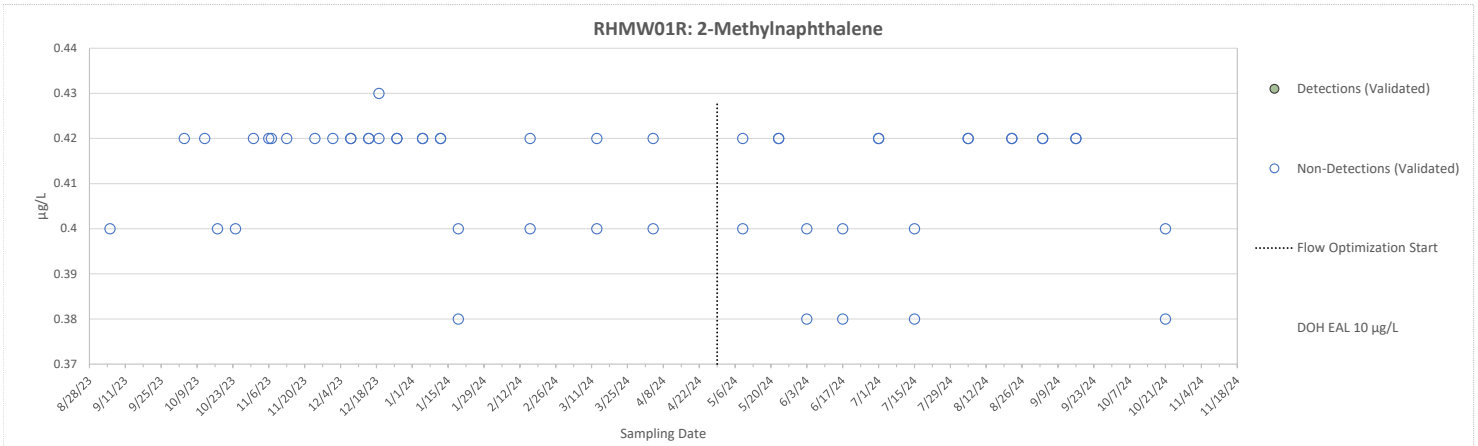

RHMW01R: DRO by Method 3510
µg/L
Sampling Date
270
206
142
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

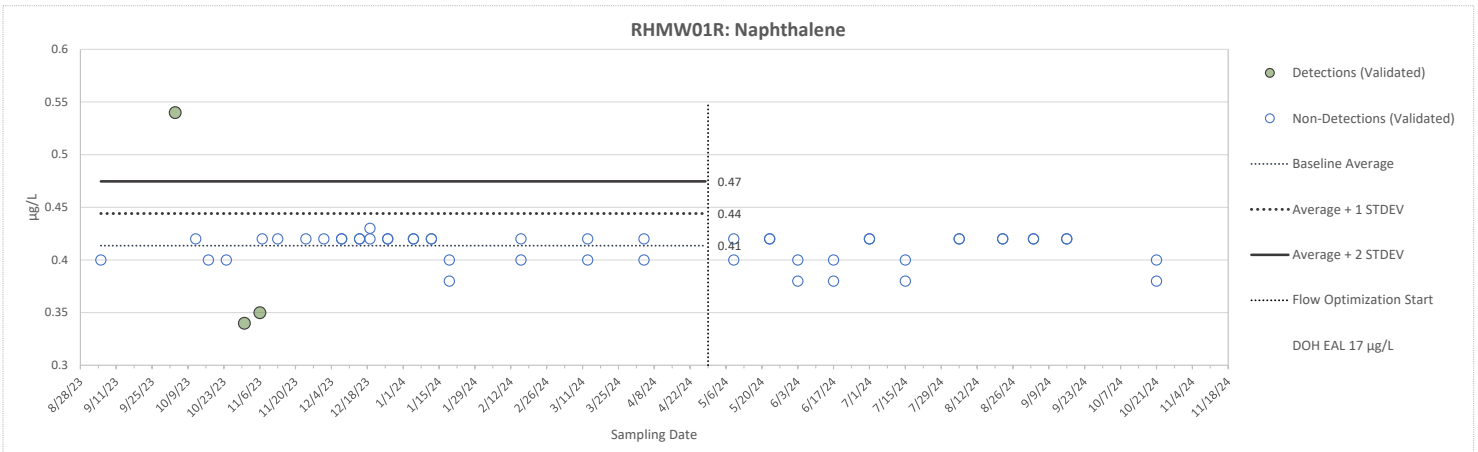

RHMW01R: DRO by Method 3520
µg/L
Sampling Date
389
293
197
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW01R: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

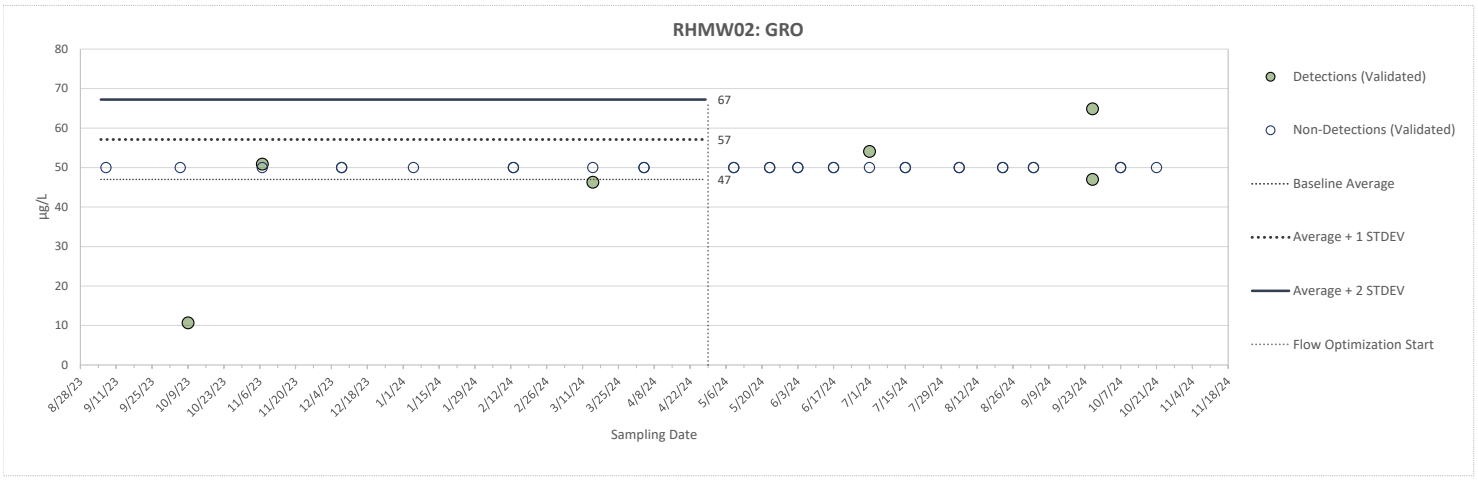

RHMW01R: ORO by Method 3520
µg/L
600
500
400
300
200
100
0
545
402
259
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

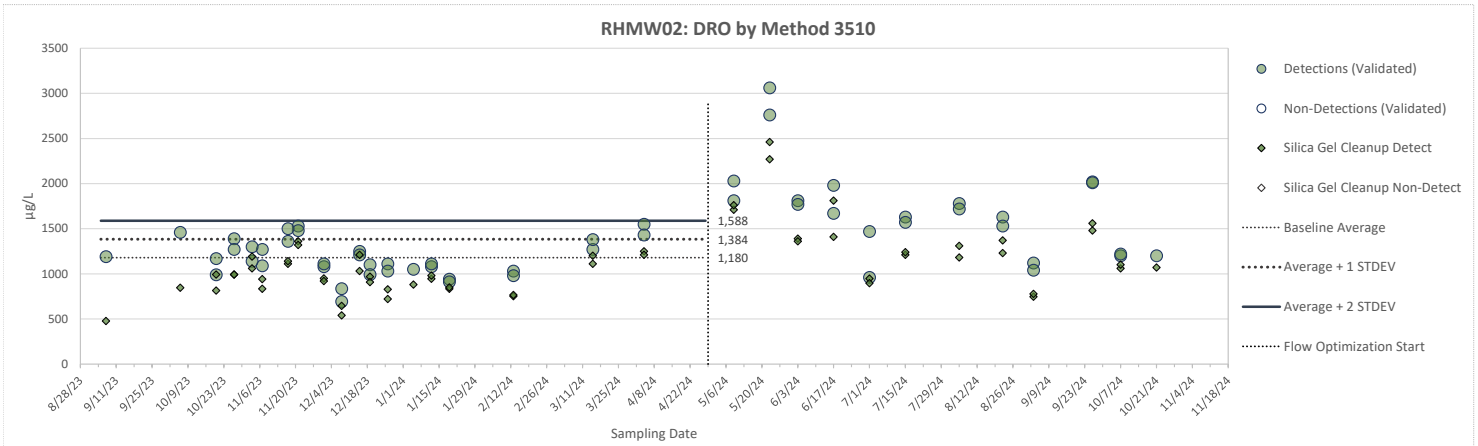


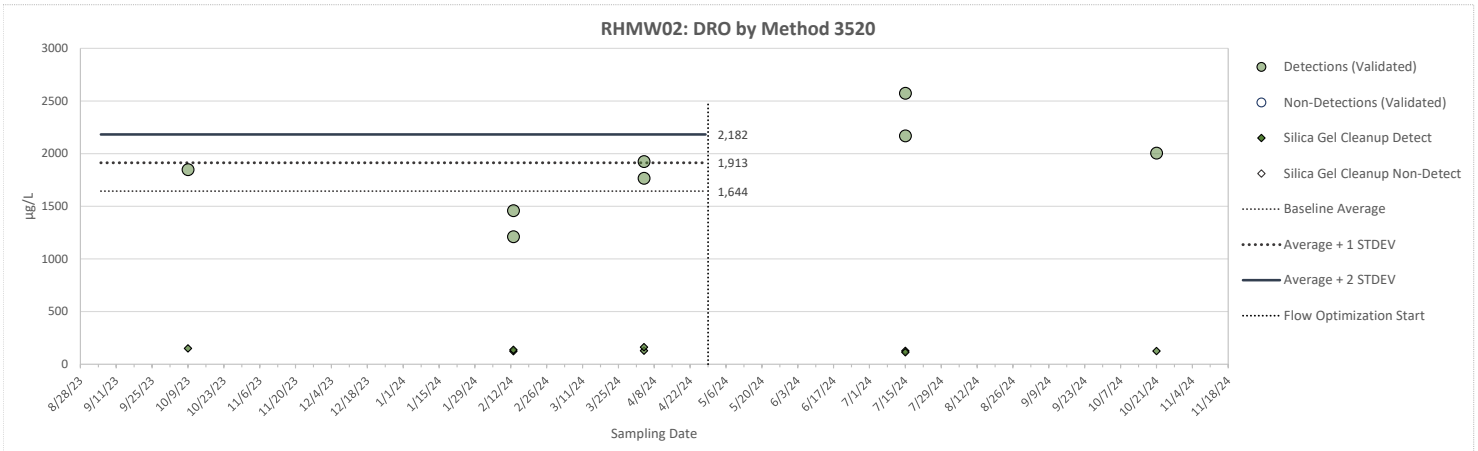


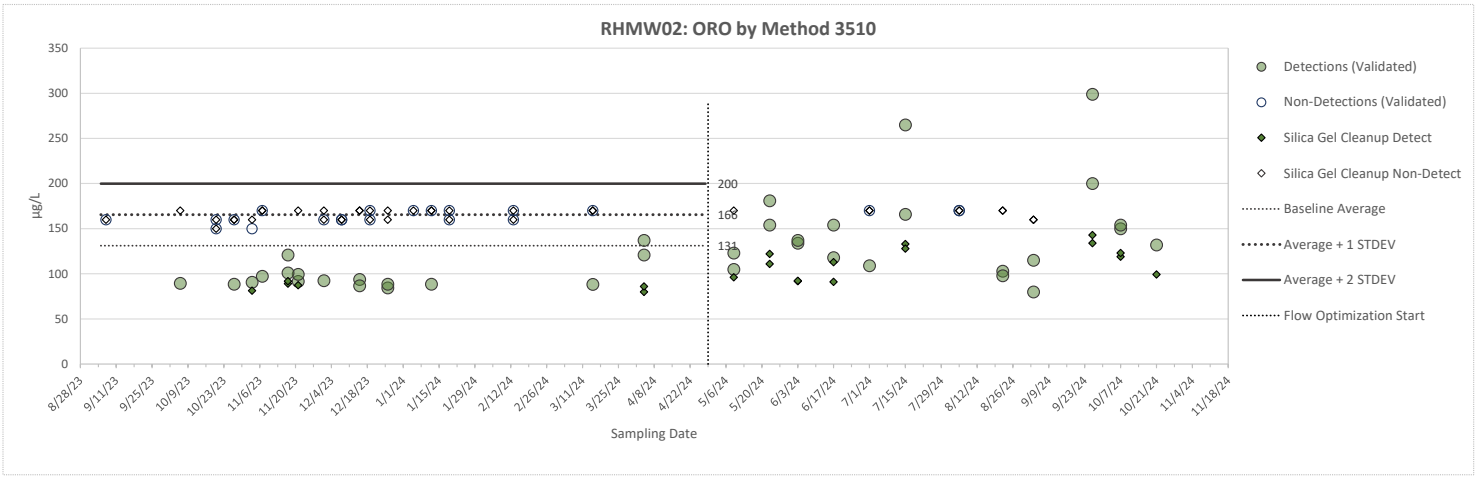


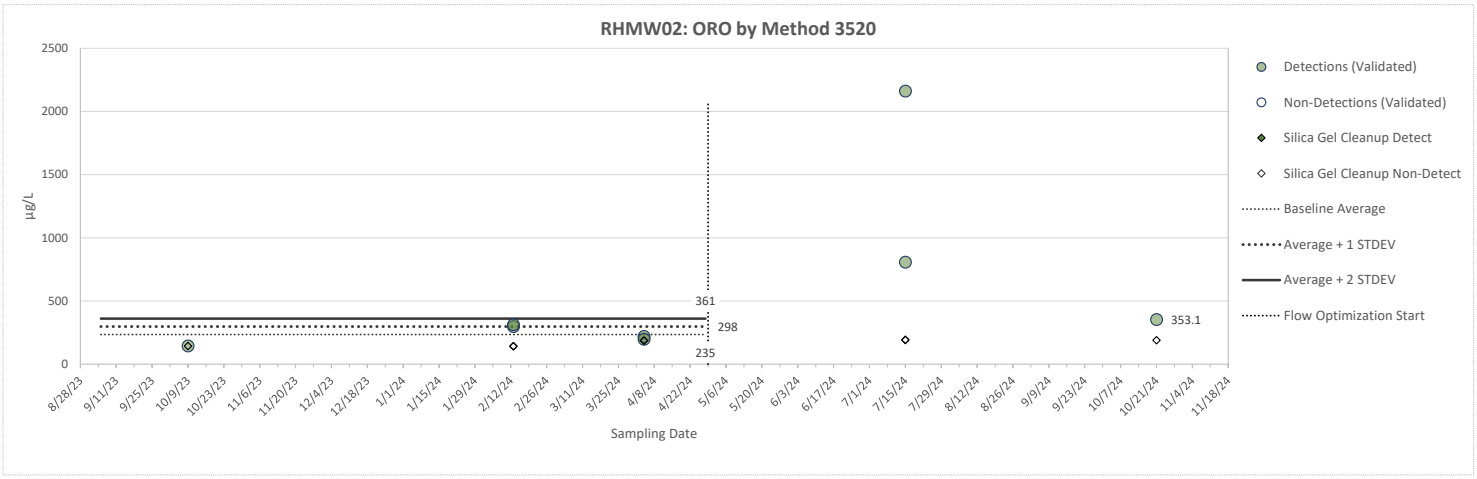
Note: See Data Legend

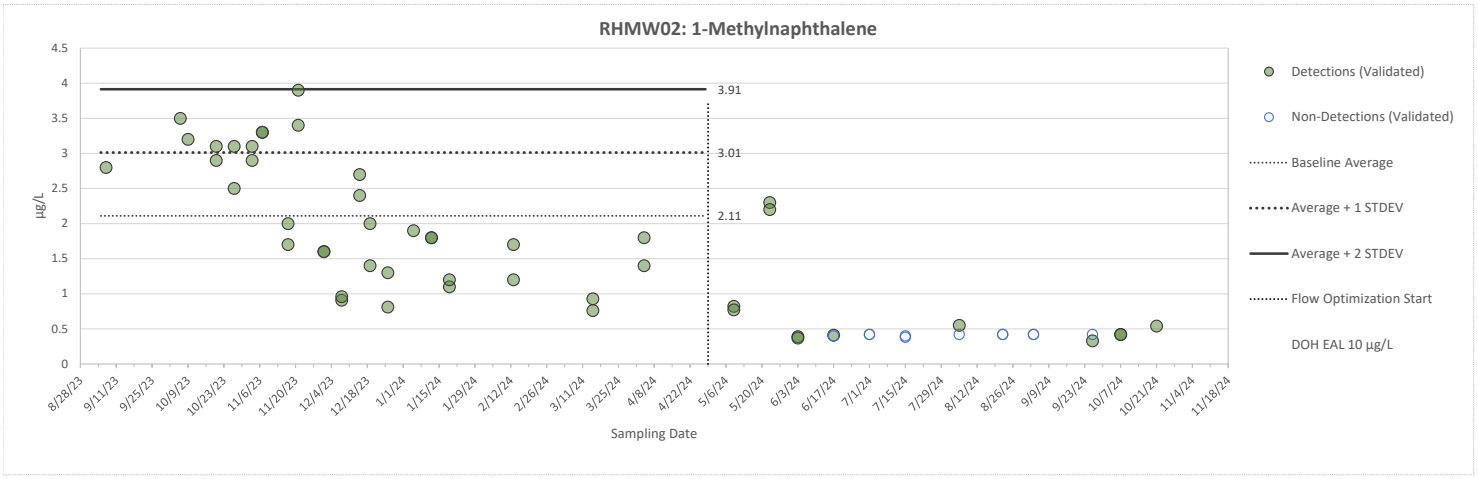

RHMW02: GRO
µg/L
Sampling Date
67
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

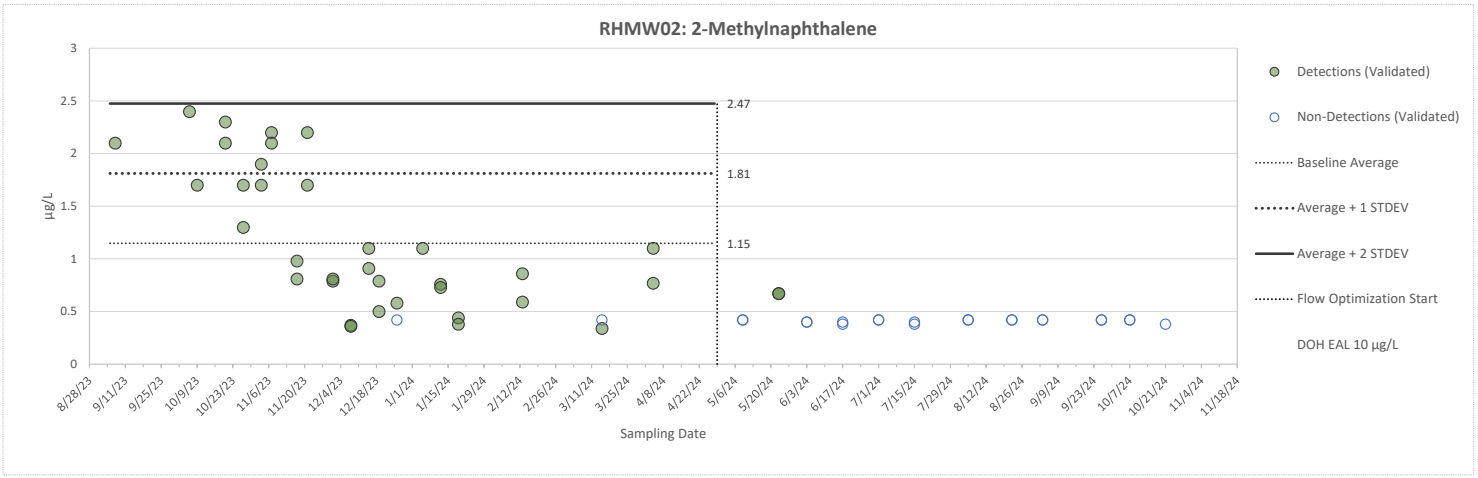

RHMW02: DRO by Method 3510
µg/L
Sampling Date
1,588
1,384
1,180
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

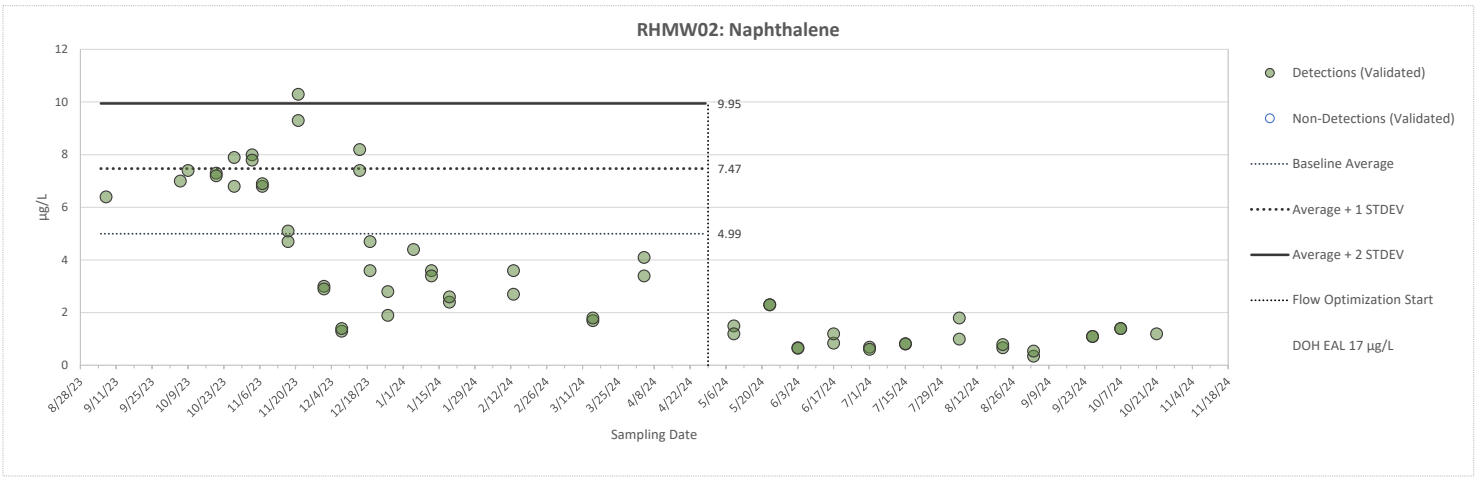

RHMW02: DRO by Method 3520
µg/L
Sampling Date
2,182
1,913
1,644
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW02: ORO by Method 3510
µg/L
350
300
250
200
150
100
50
0
200
166
131
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

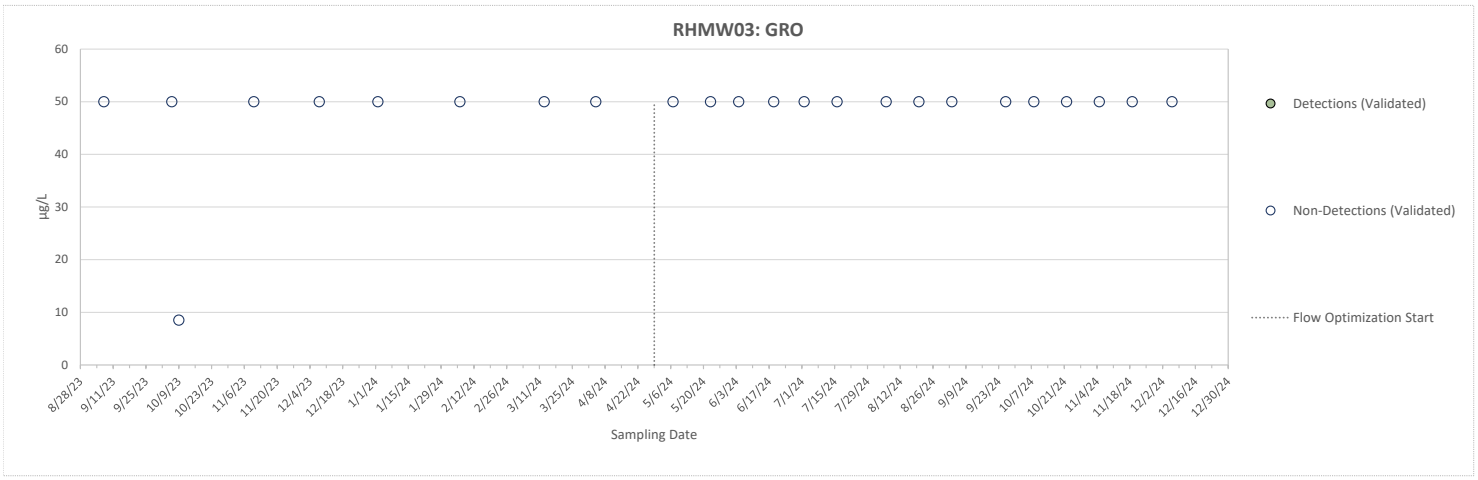

RHMW02: ORO by Method 3520
µg/L
2500
2000
1500
1000
500
0
361
298
235
353.1
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

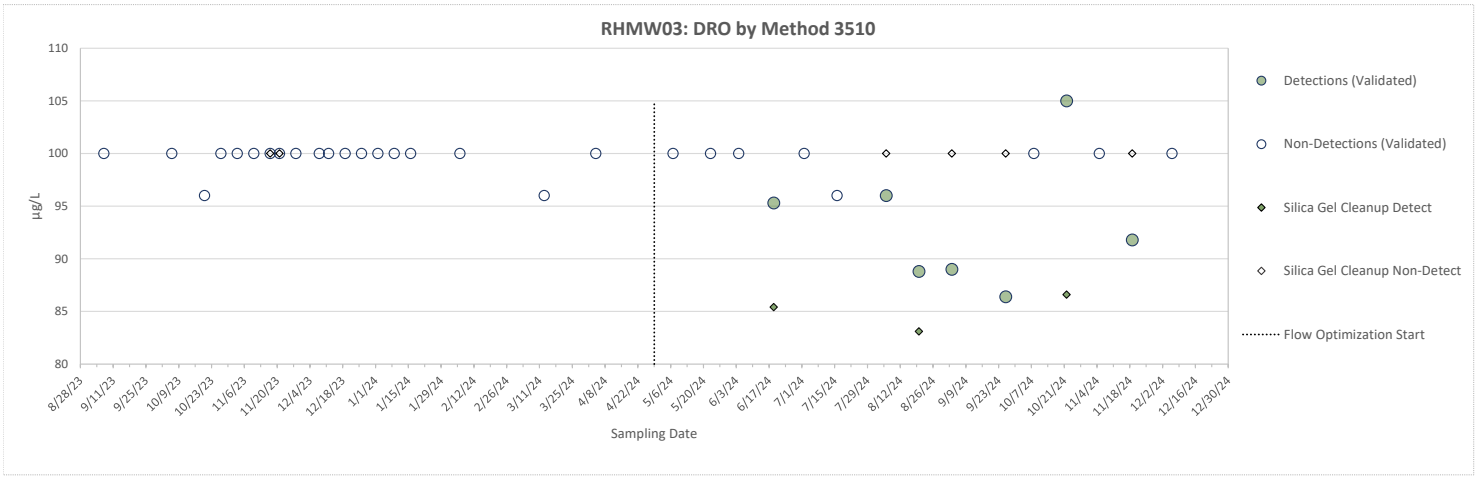


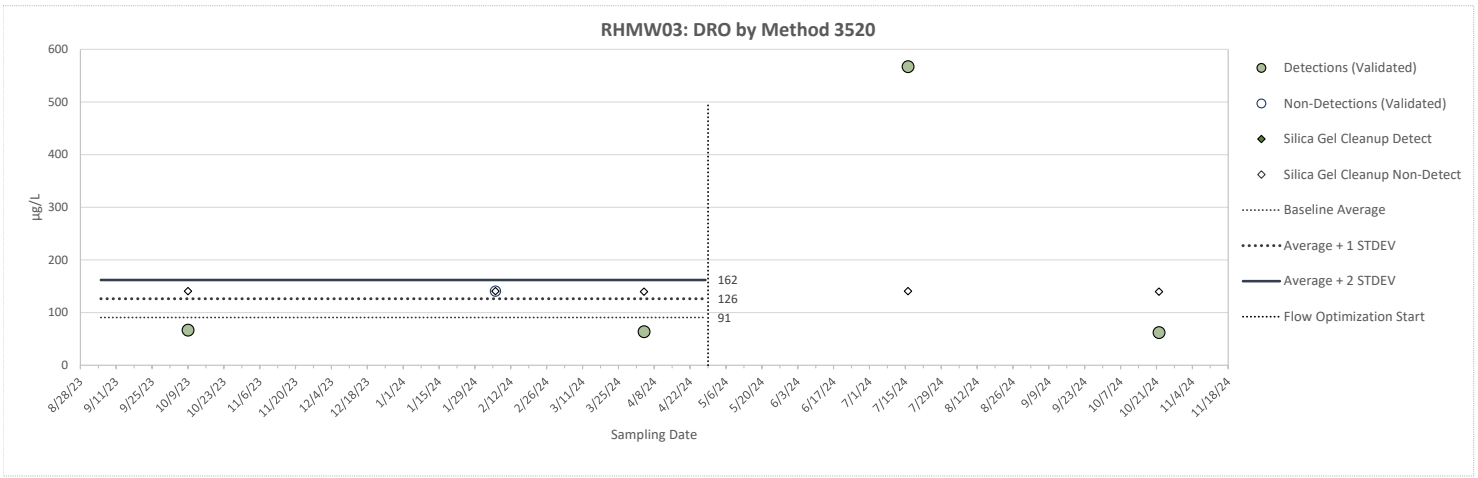


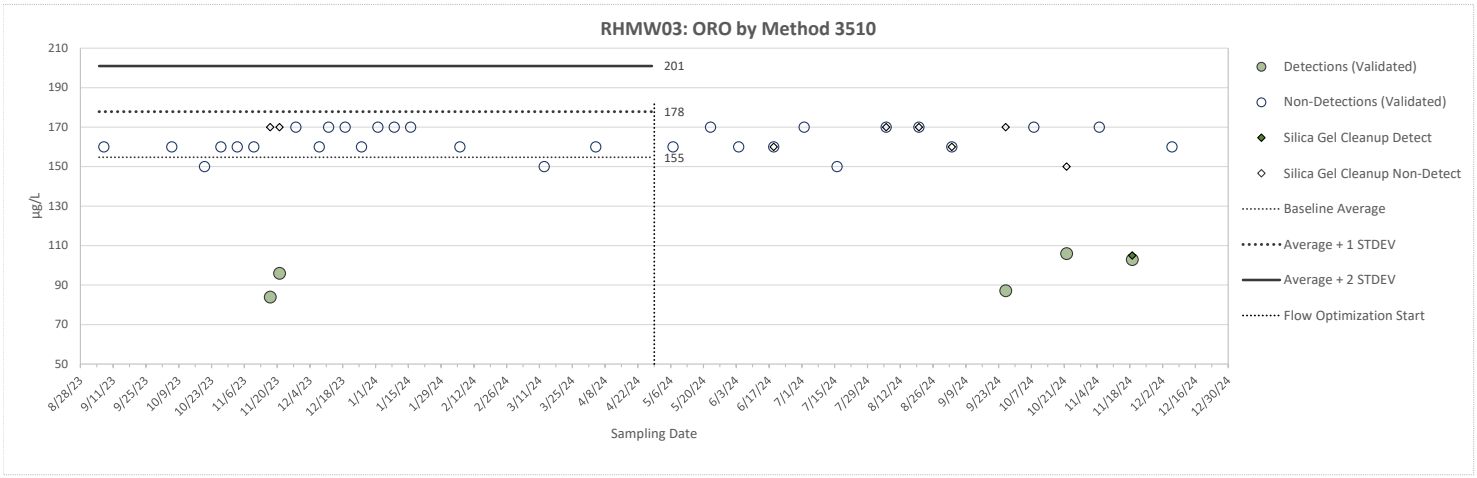


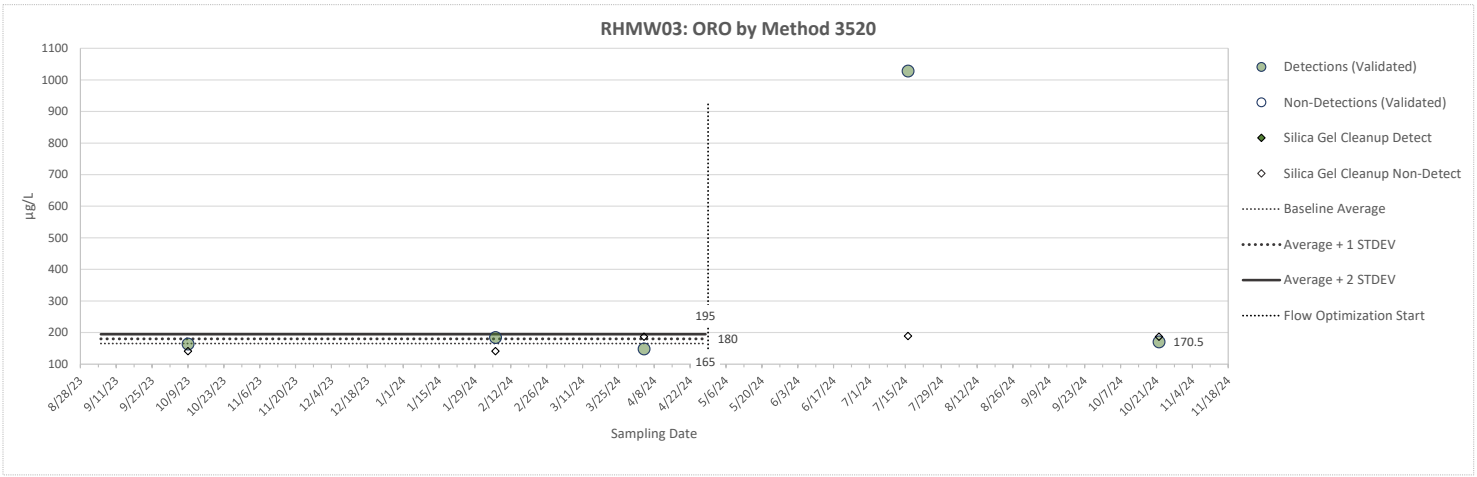
Note: See Data Legend

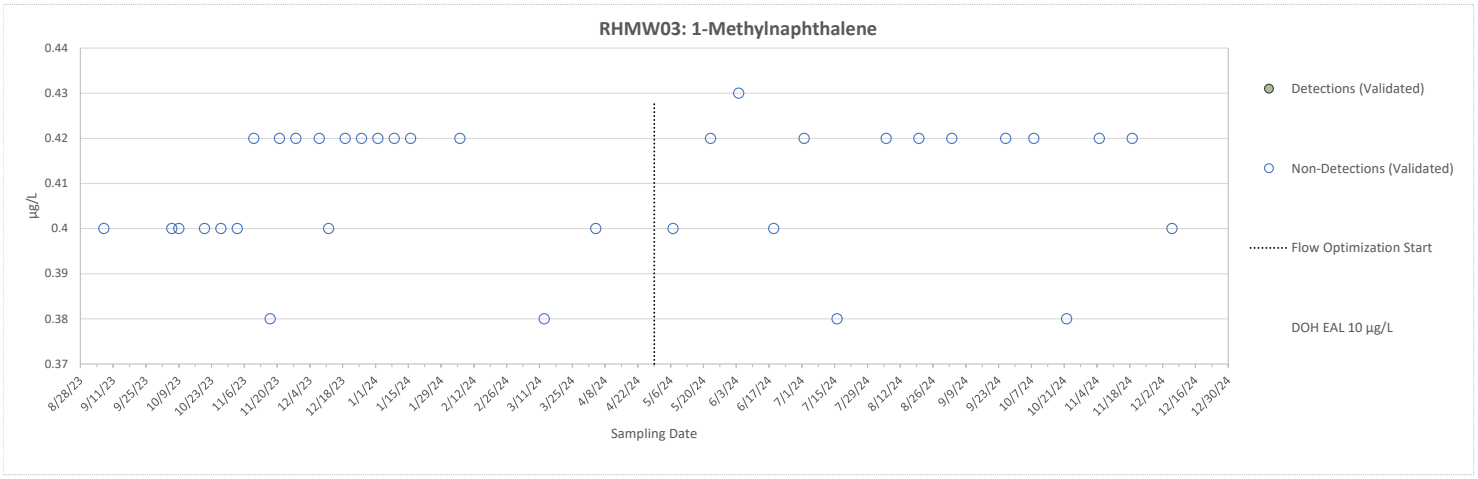

RHMW03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

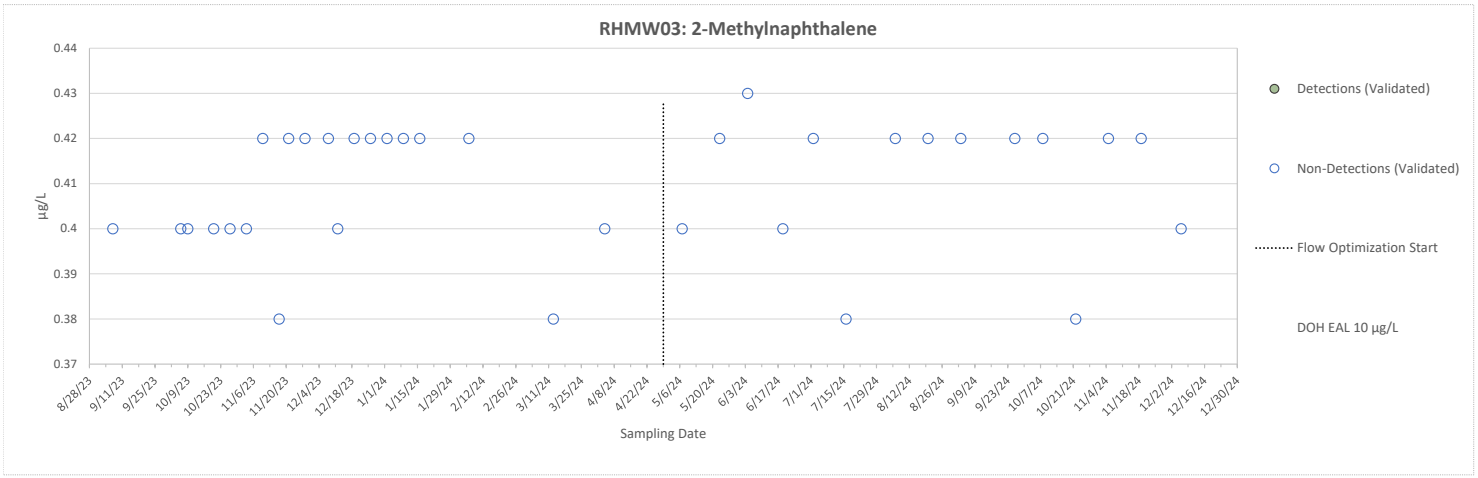

RHMW03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

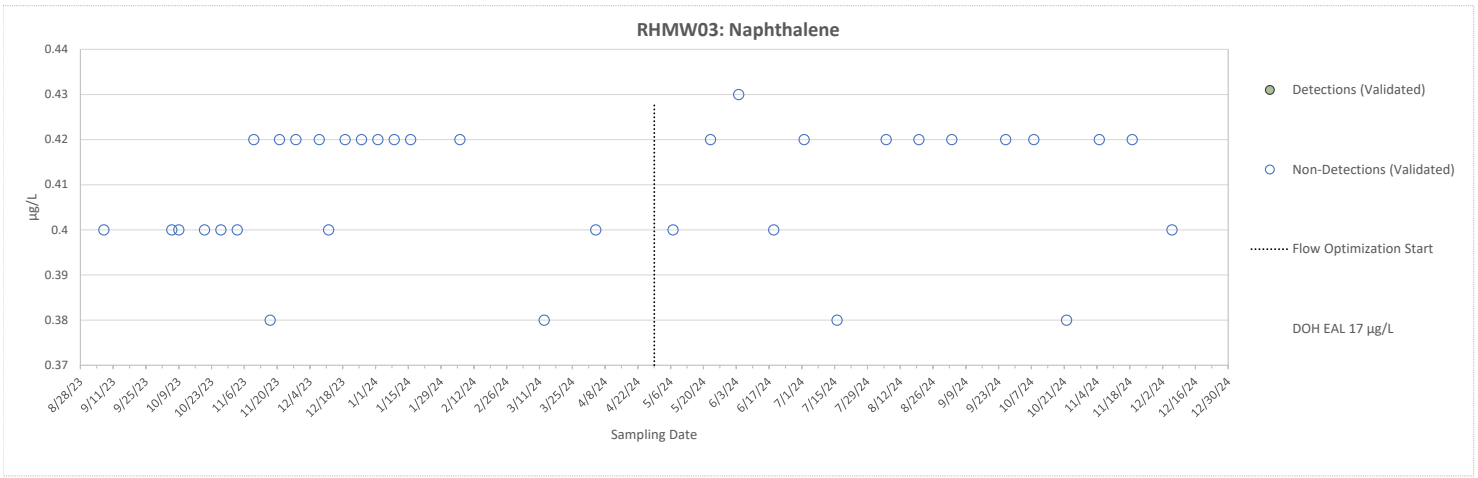

RHMW03: DRO by Method 3520
µg/L
Sampling Date
162
126
91
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW03: ORO by Method 3510
µg/L
Sampling Date
201
178
155
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

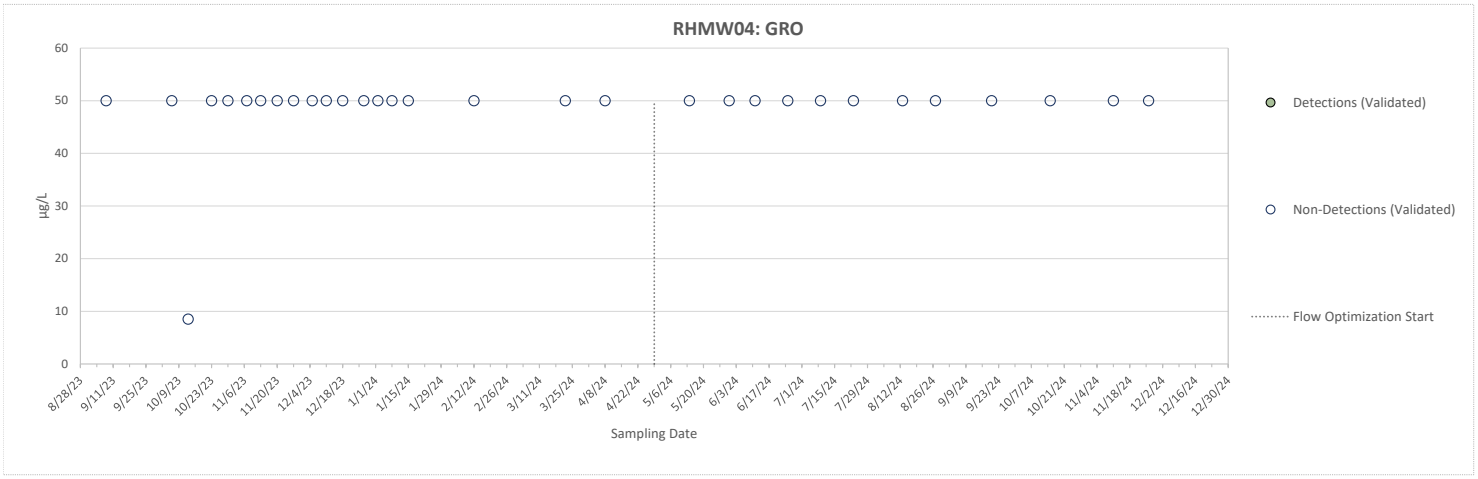

RHMW03: ORO by Method 3520
µg/L
Sampling Date
195
180
165
170.5
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

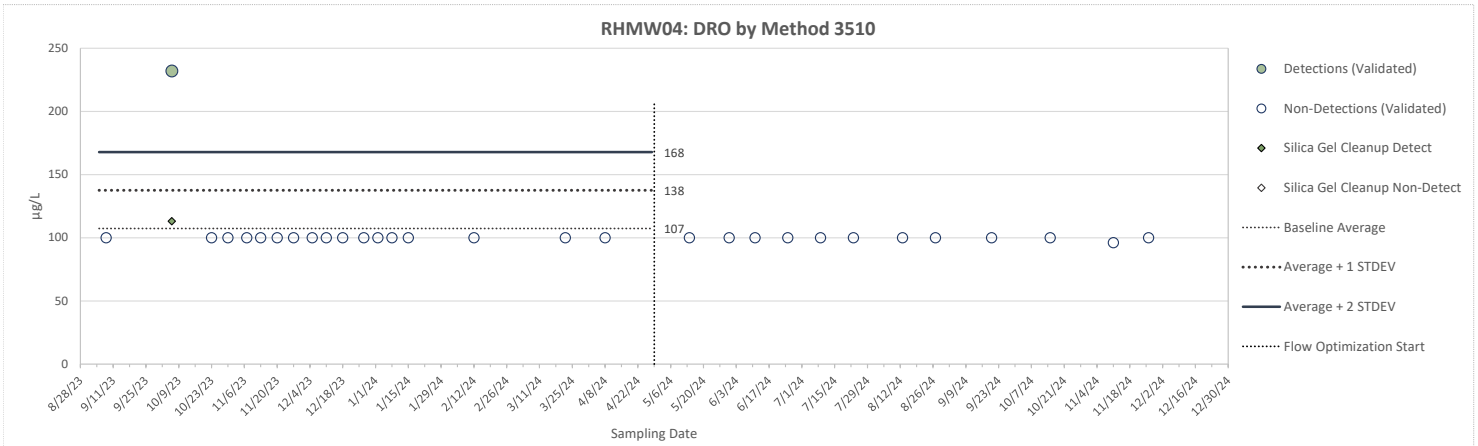


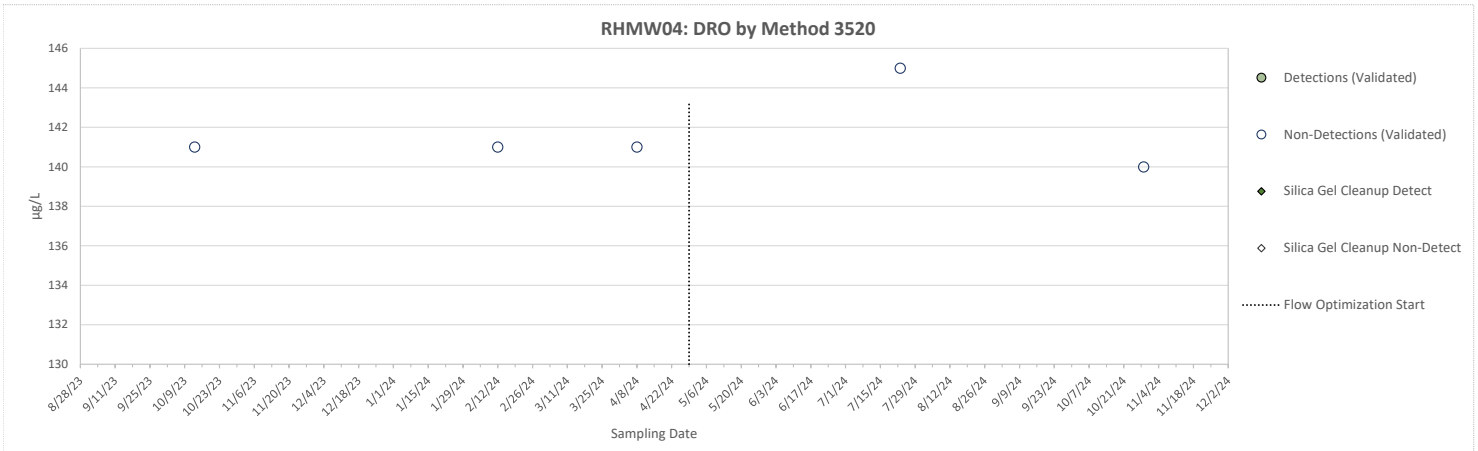


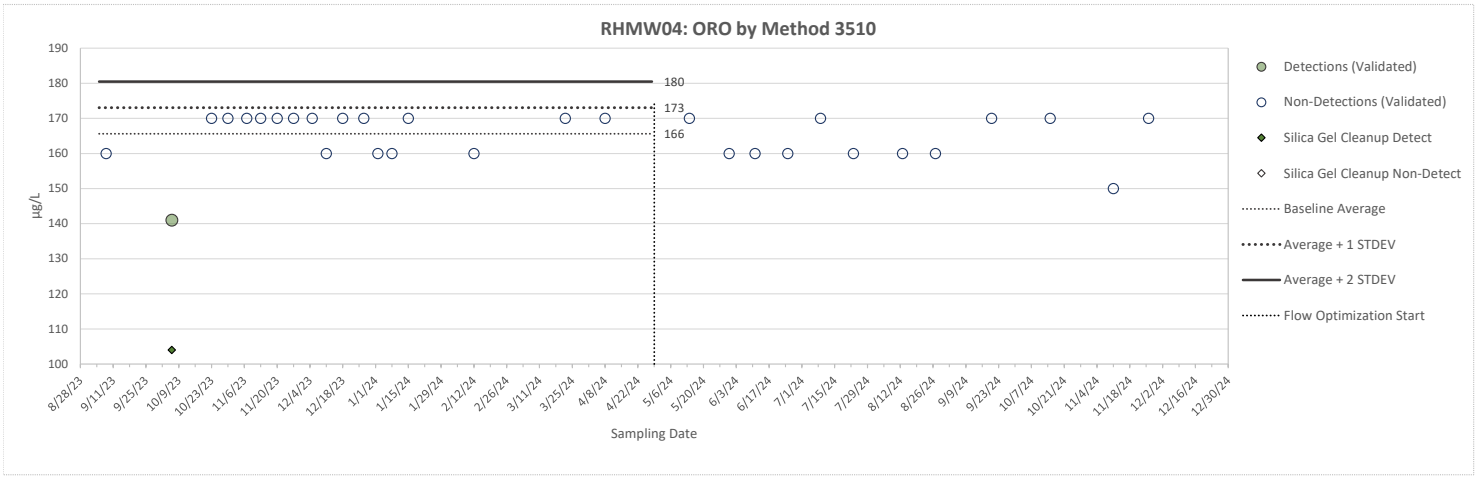


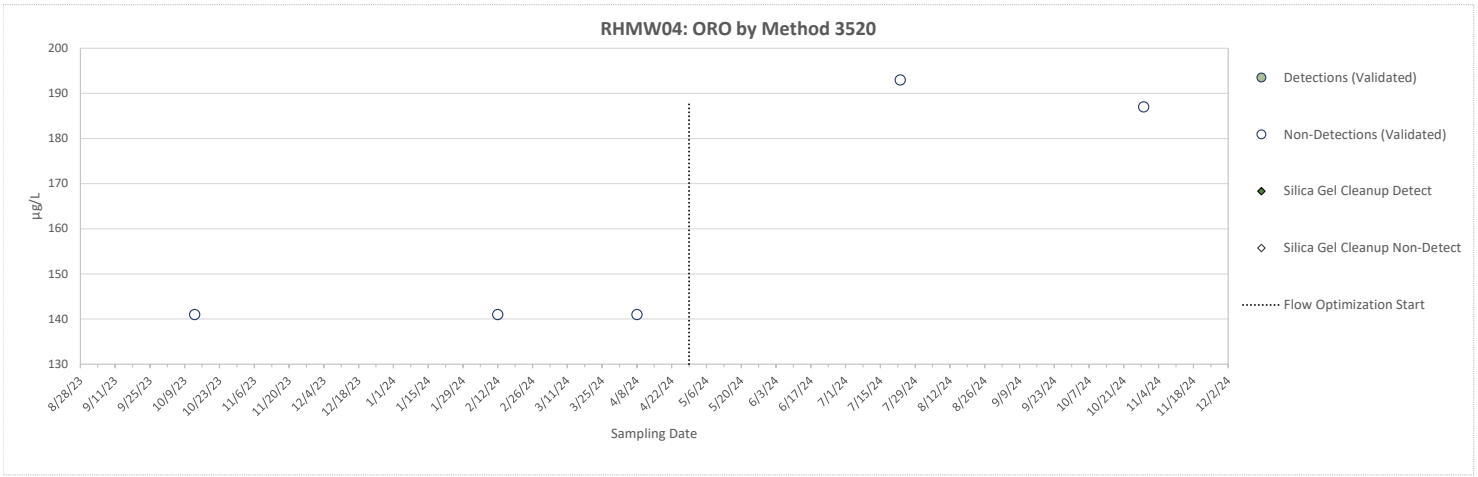
Note: See Data Legend

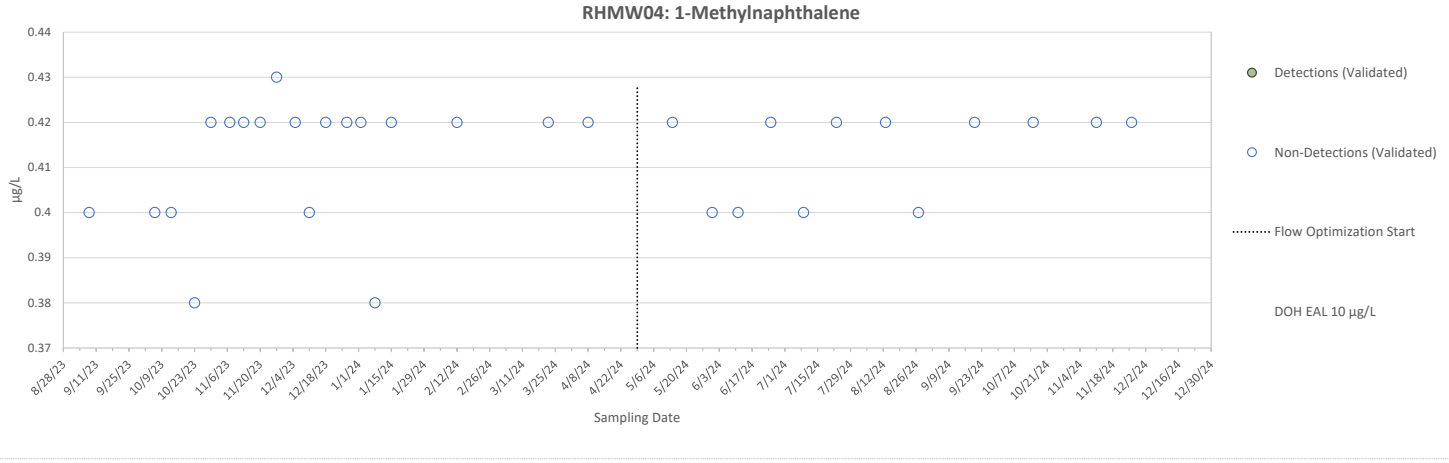

RHMW04: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

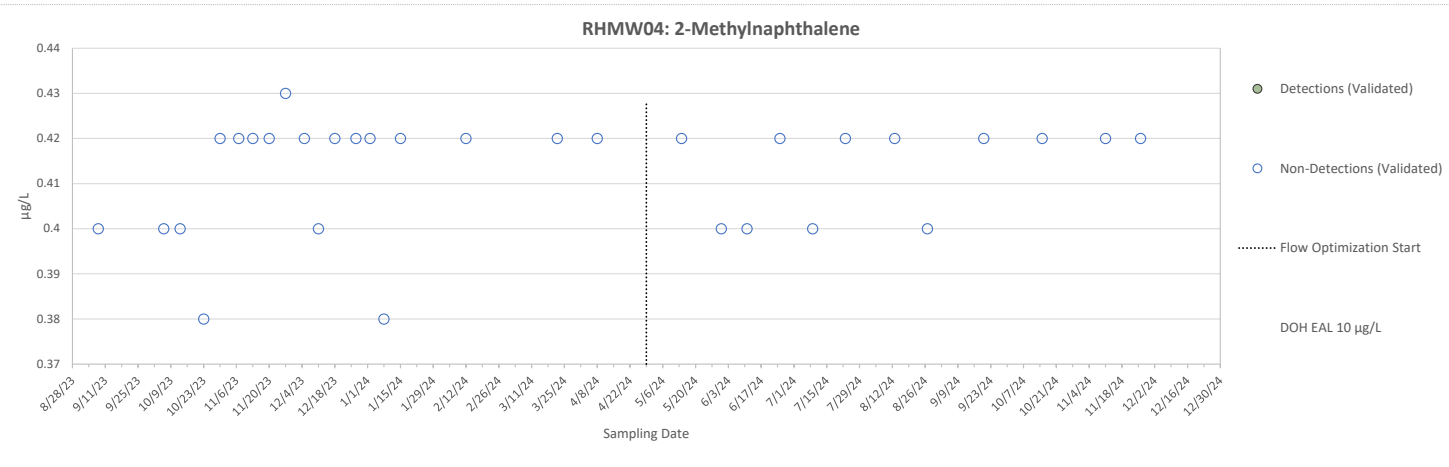

RHMW04: DRO by Method 3510
µg/L
168
138
107
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

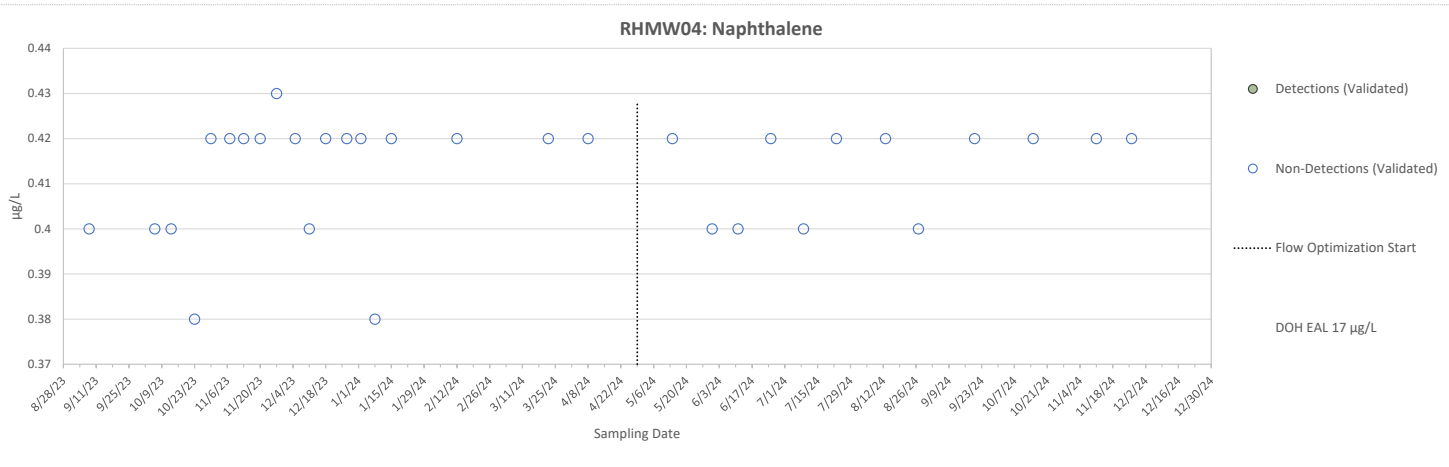

RHMW04: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW04: ORO by Method 3510
µg/L
Sampling Date
180
173
166
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

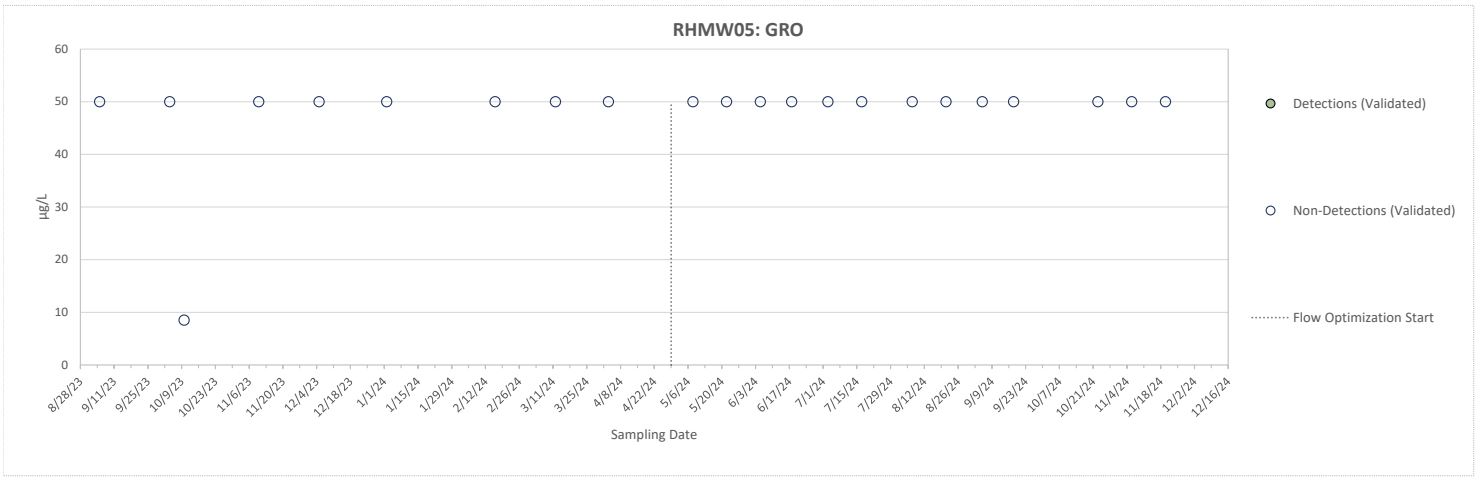

RHMW04: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

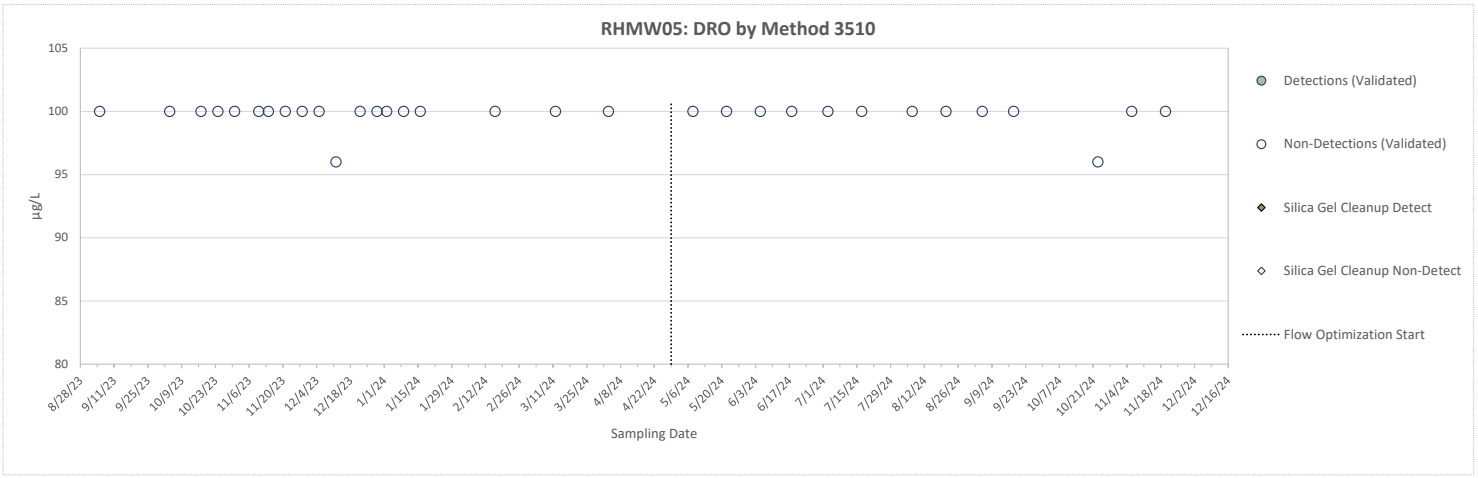


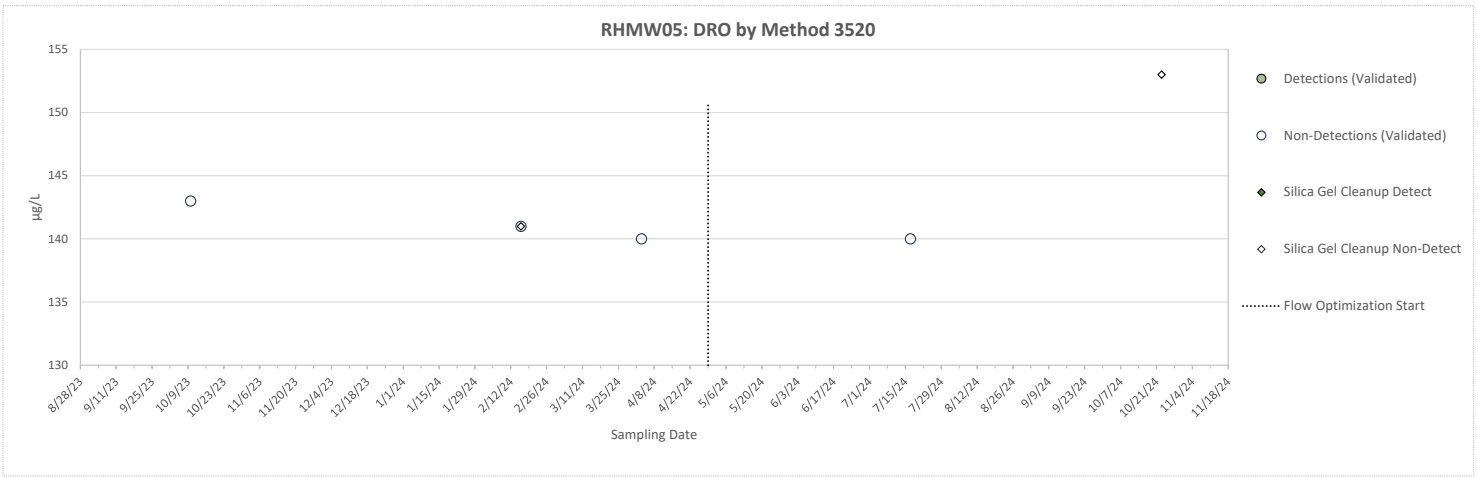


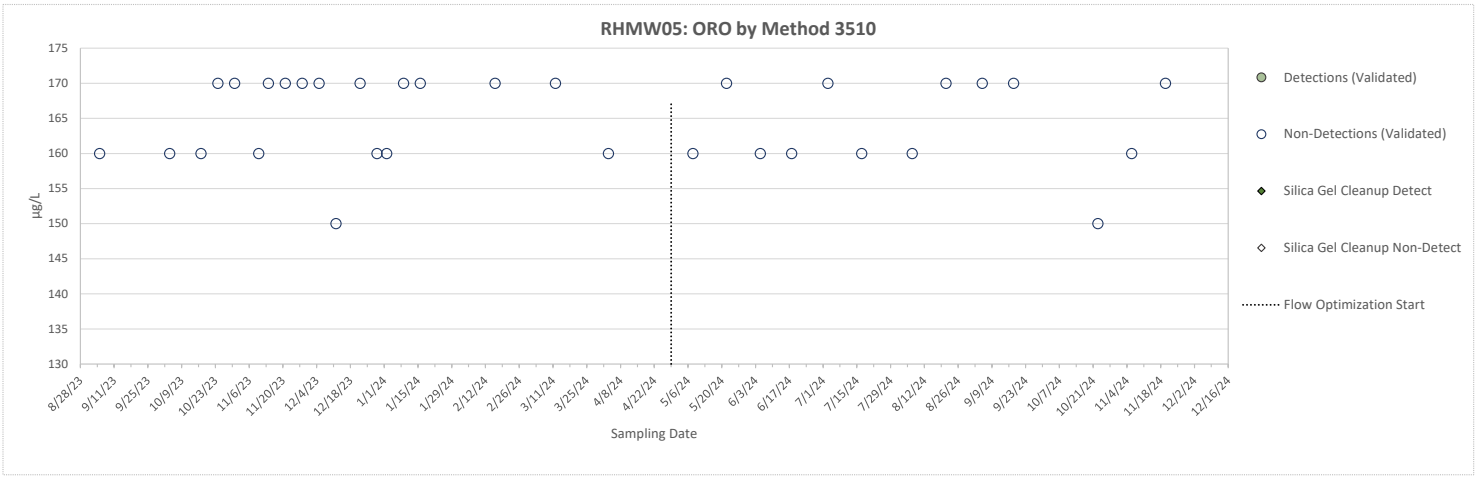


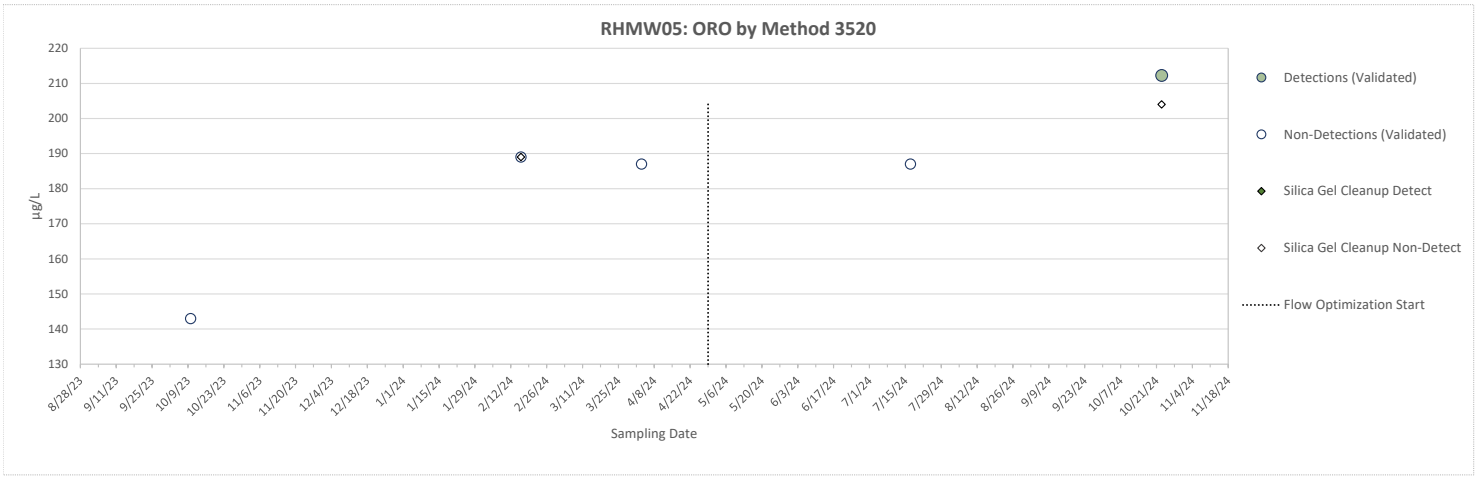
Note: See Data Legend

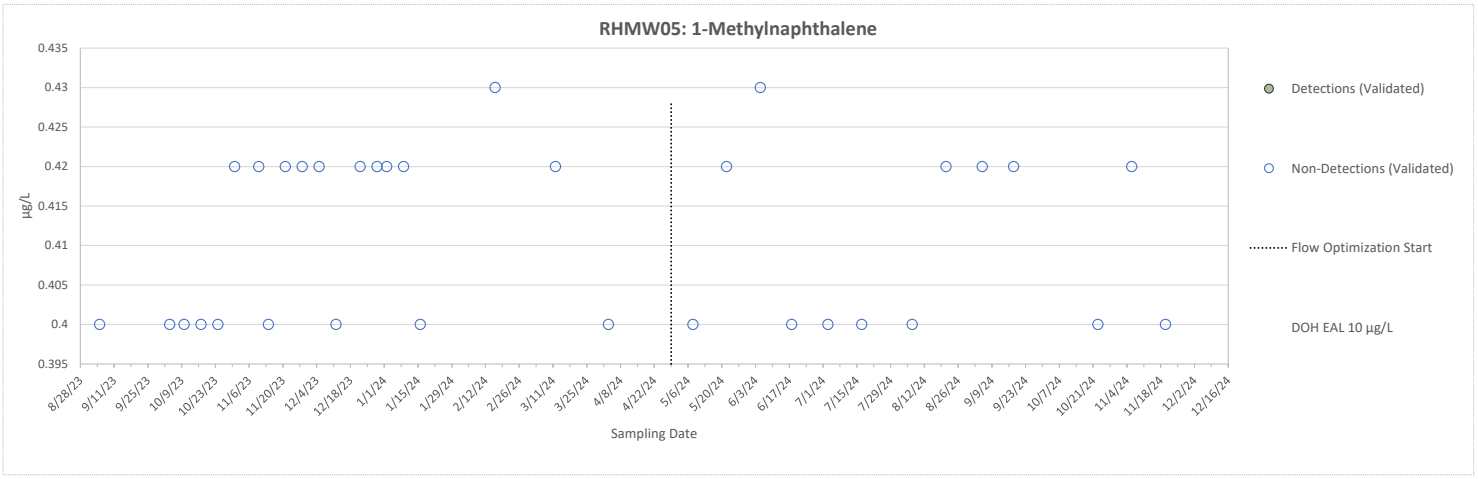

RHMW05: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

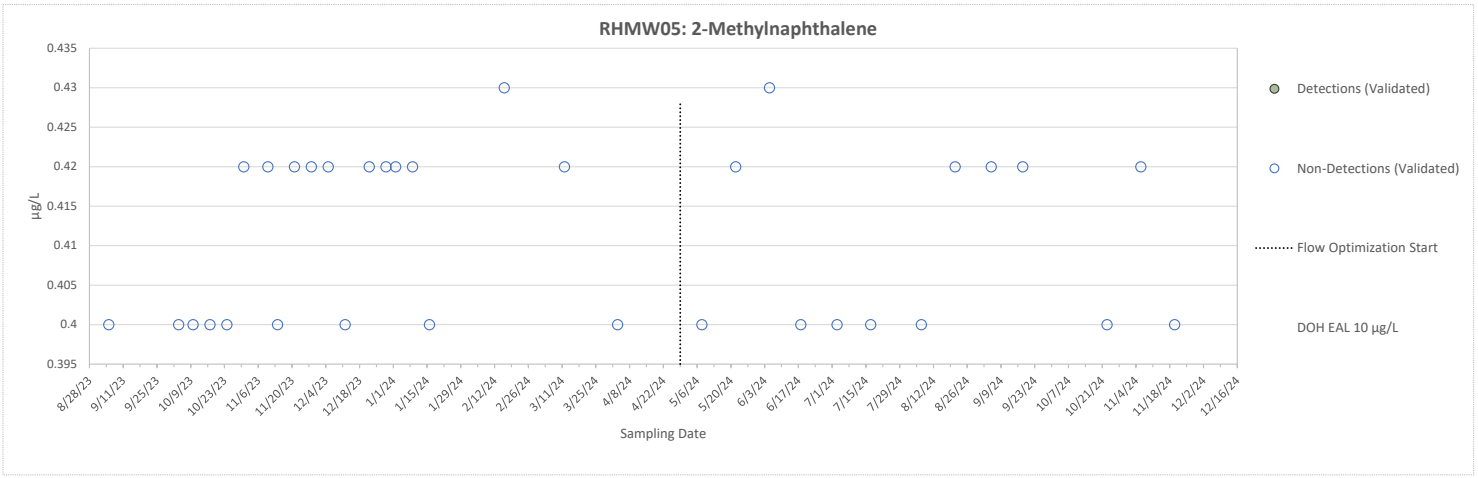

RHMW05: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

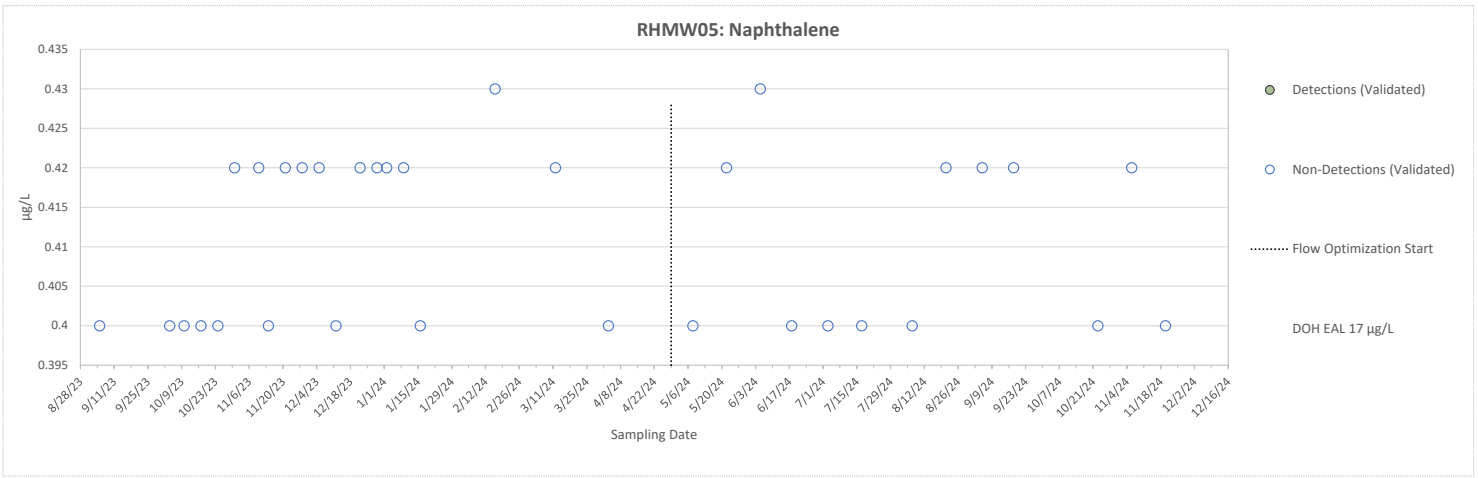

RHMW05: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW05: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

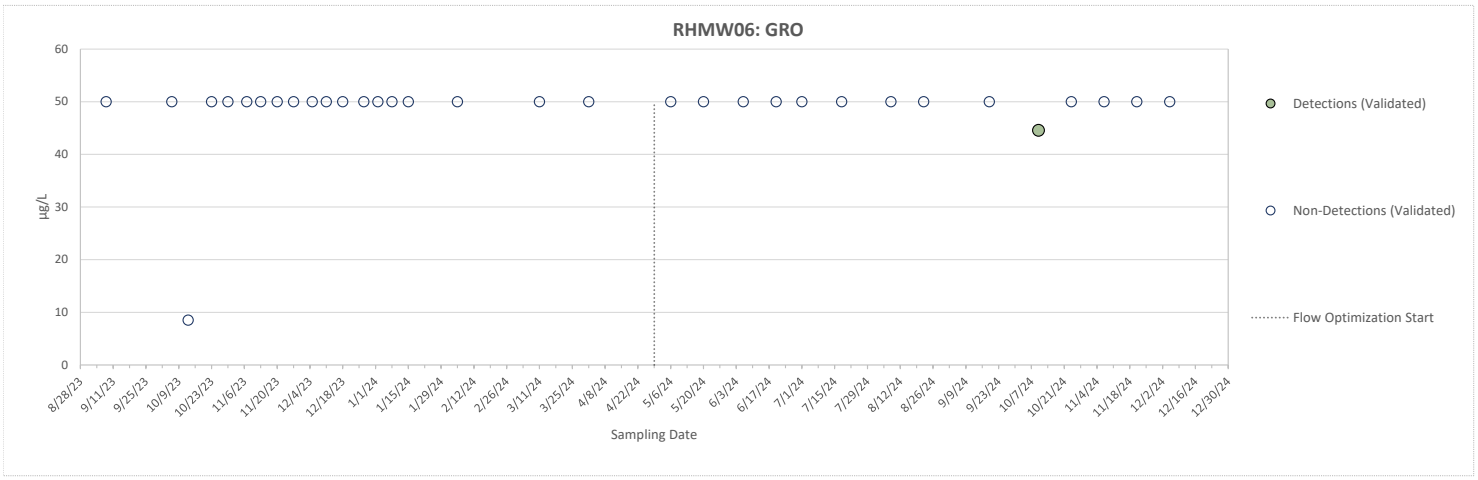

RHMW05: ORO by Method 3520
µg/L
220
210
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

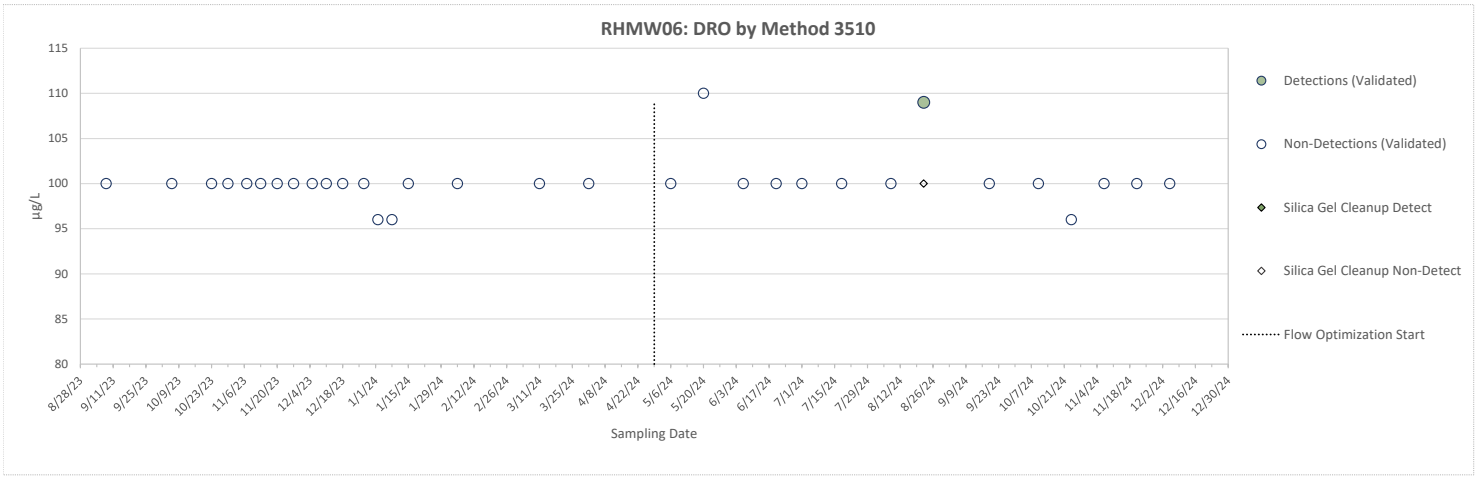


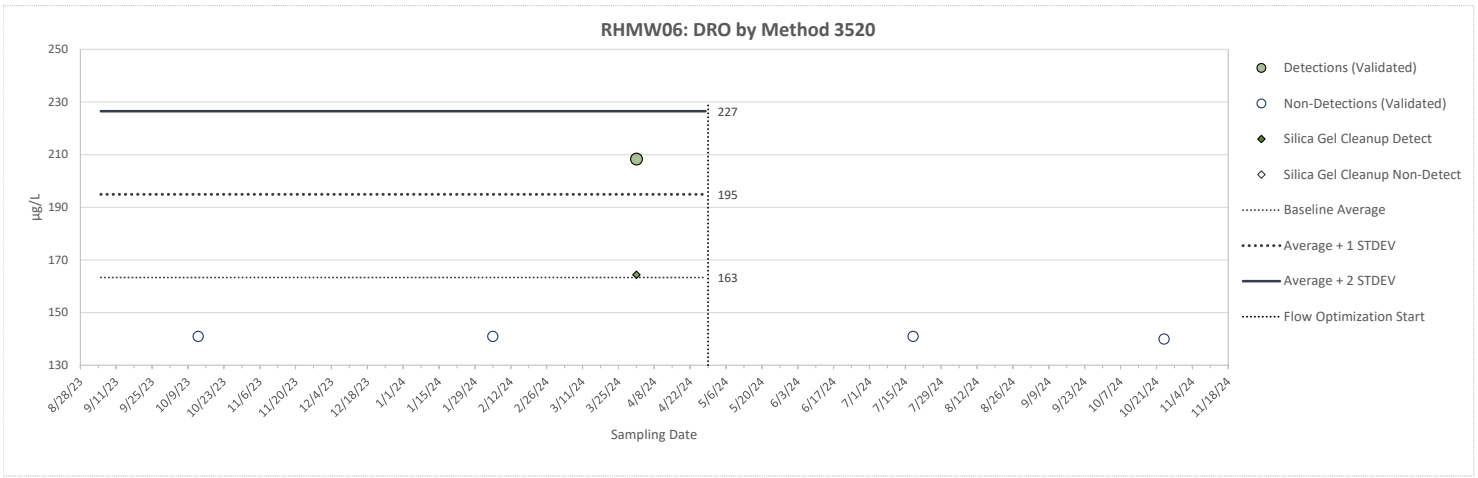


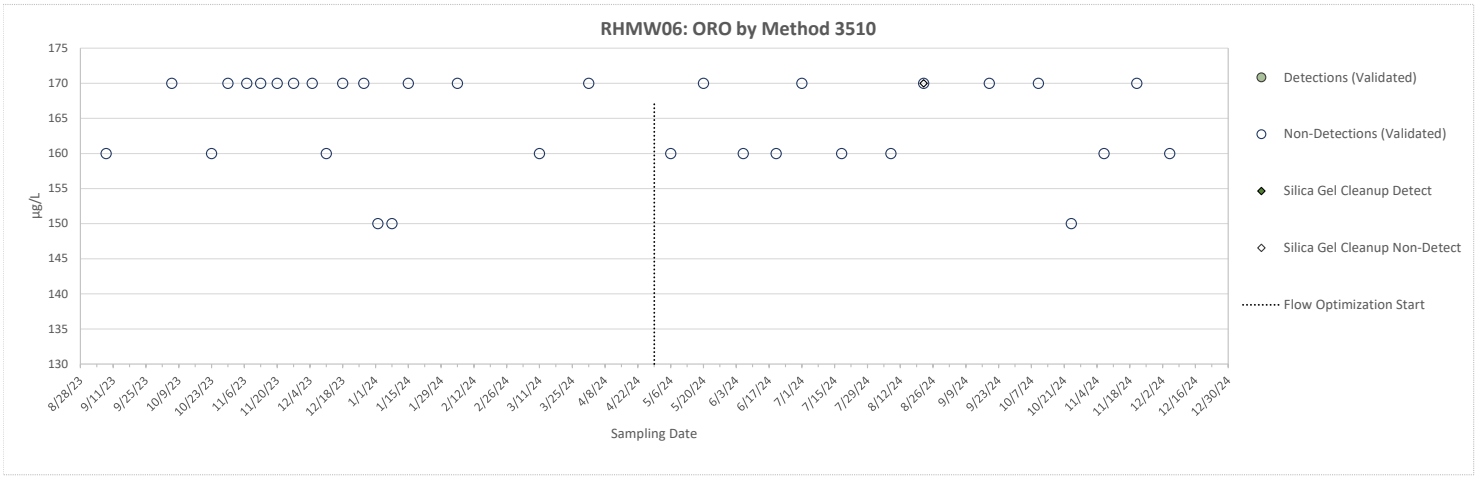


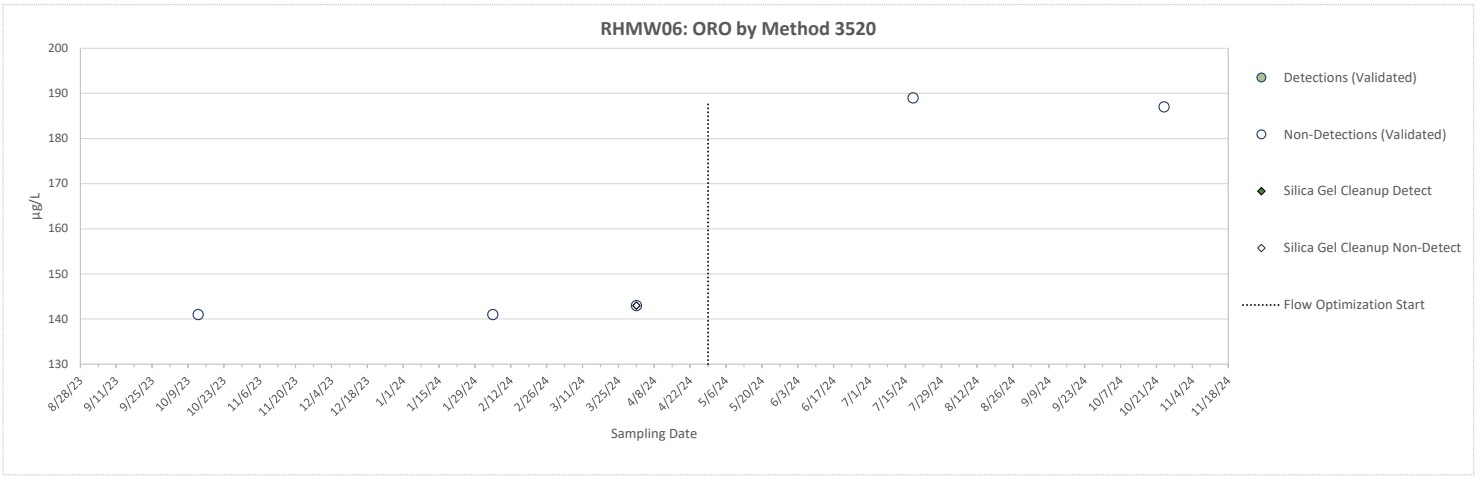
Note: See Data Legend

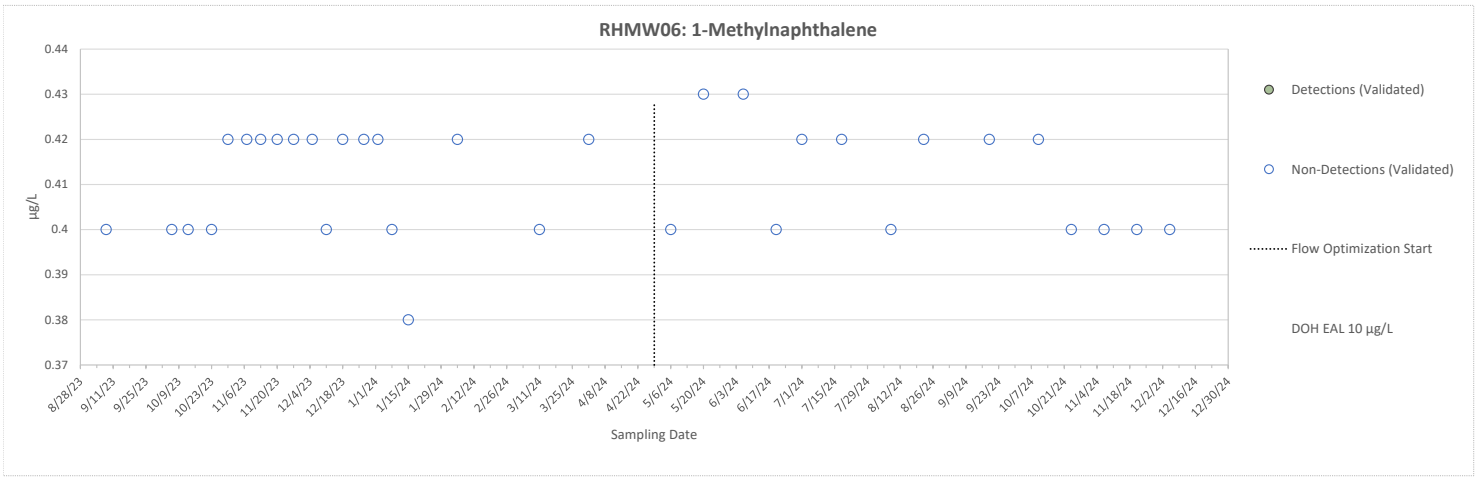

RHMW06: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

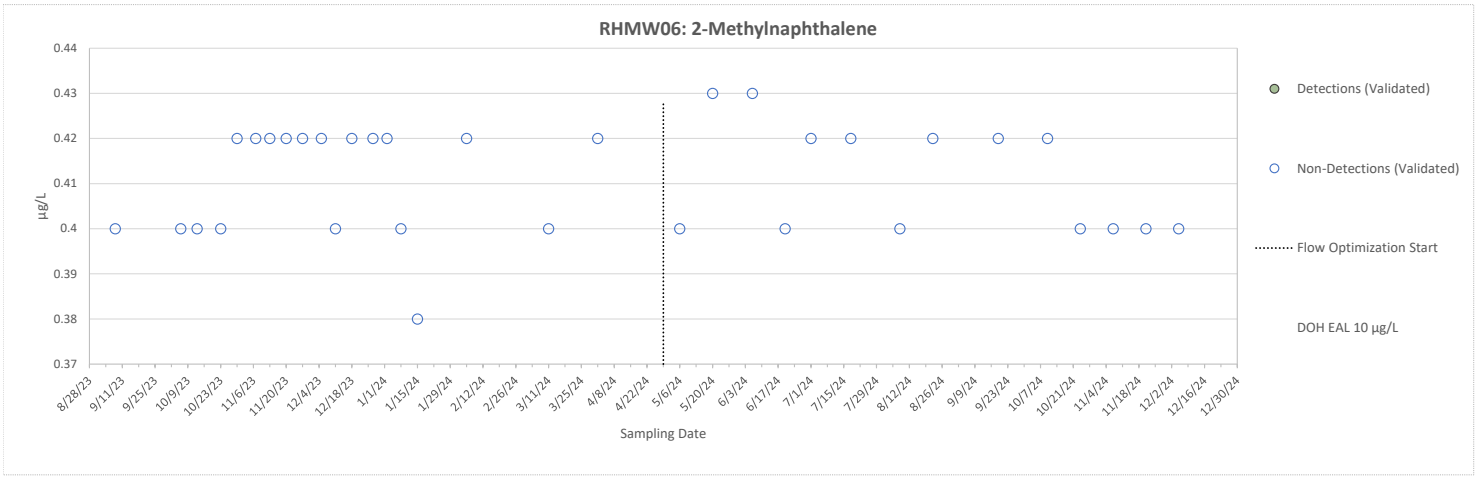

RHMW06: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

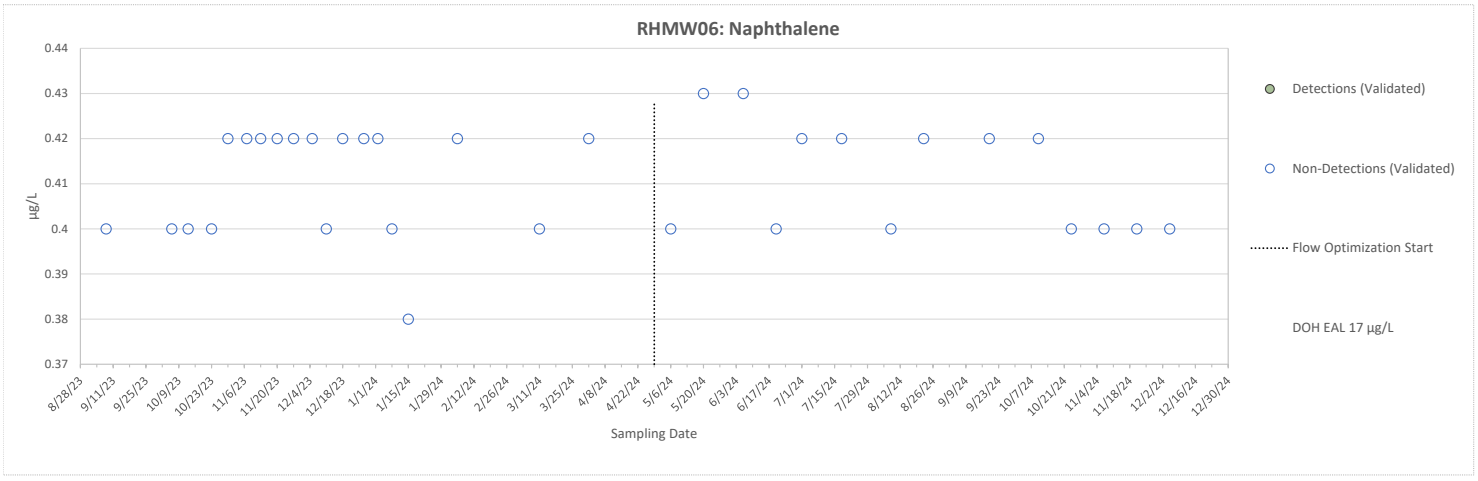

RHMW06: DRO by Method 3520
µg/L
Sampling Date
227
195
163
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW06: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

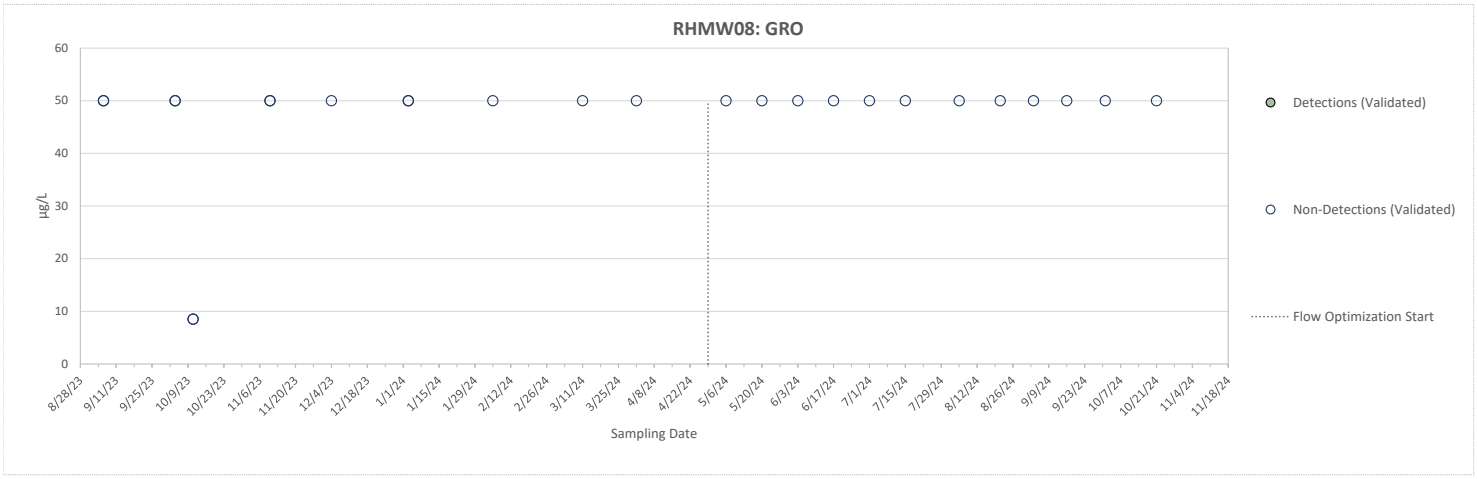

RHMW06: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

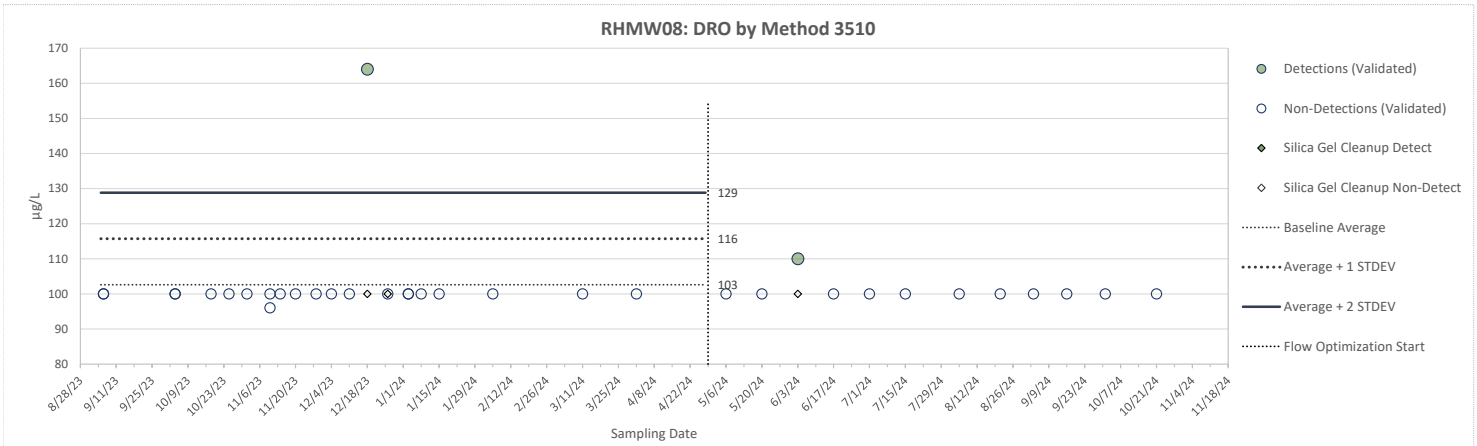


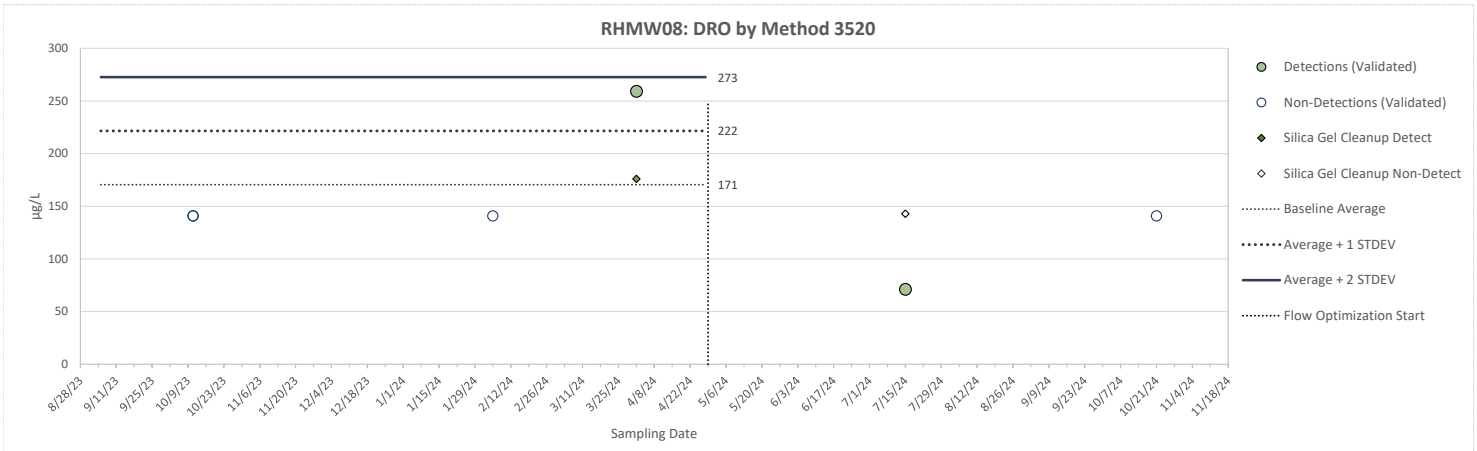


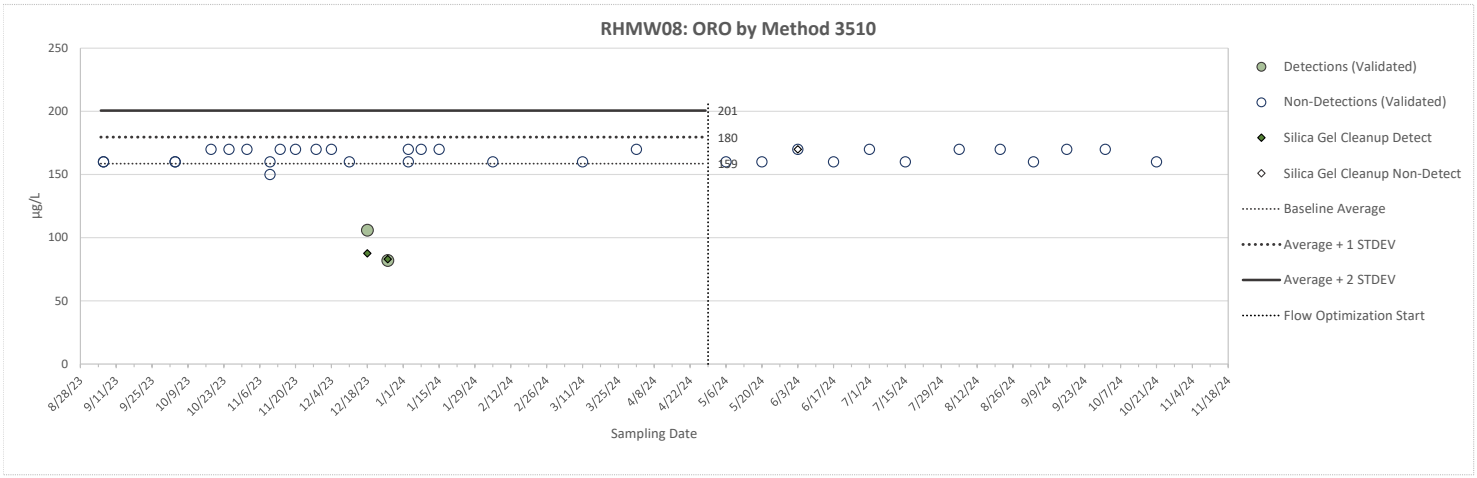


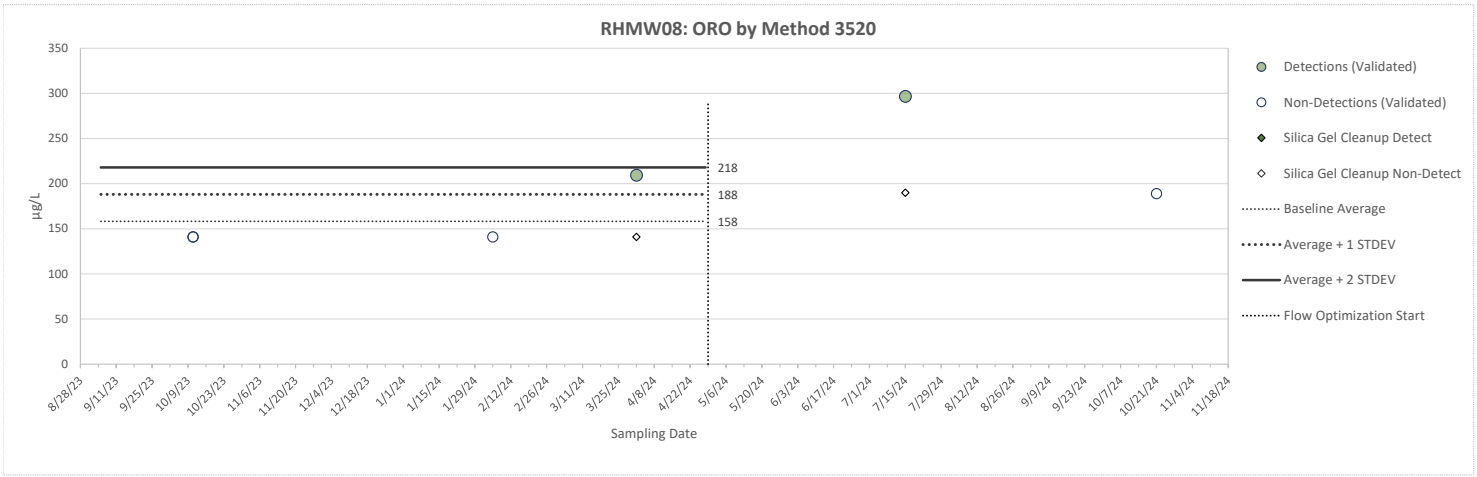
Note: See Data Legend

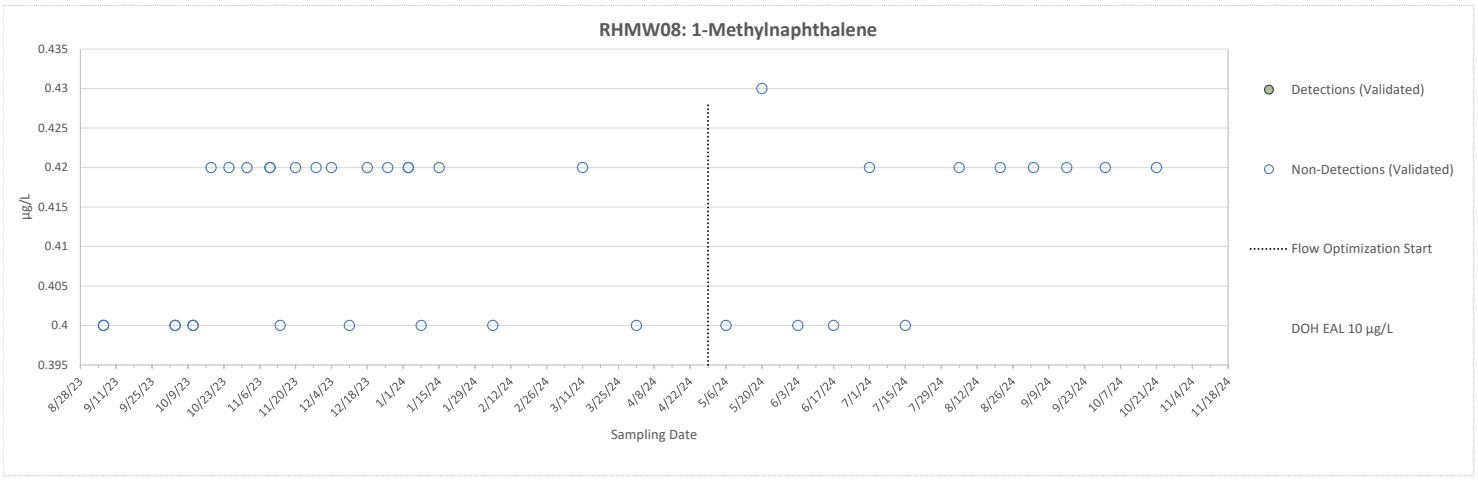

RHMW08: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

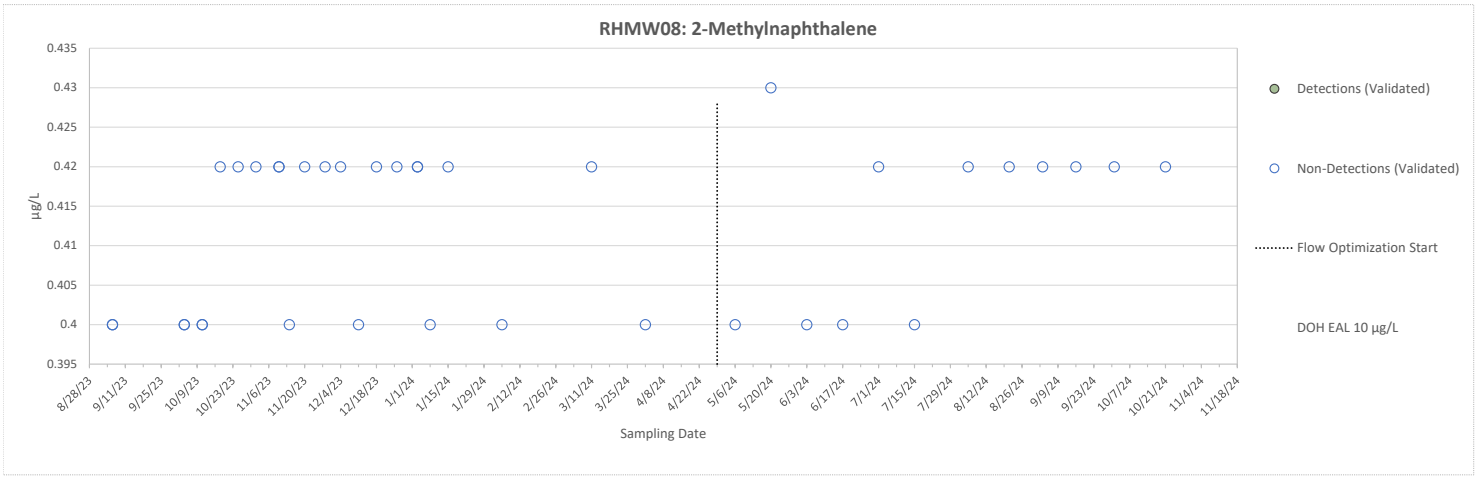

RHMW08: DRO by Method 3510
µg/L
129
116
103
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

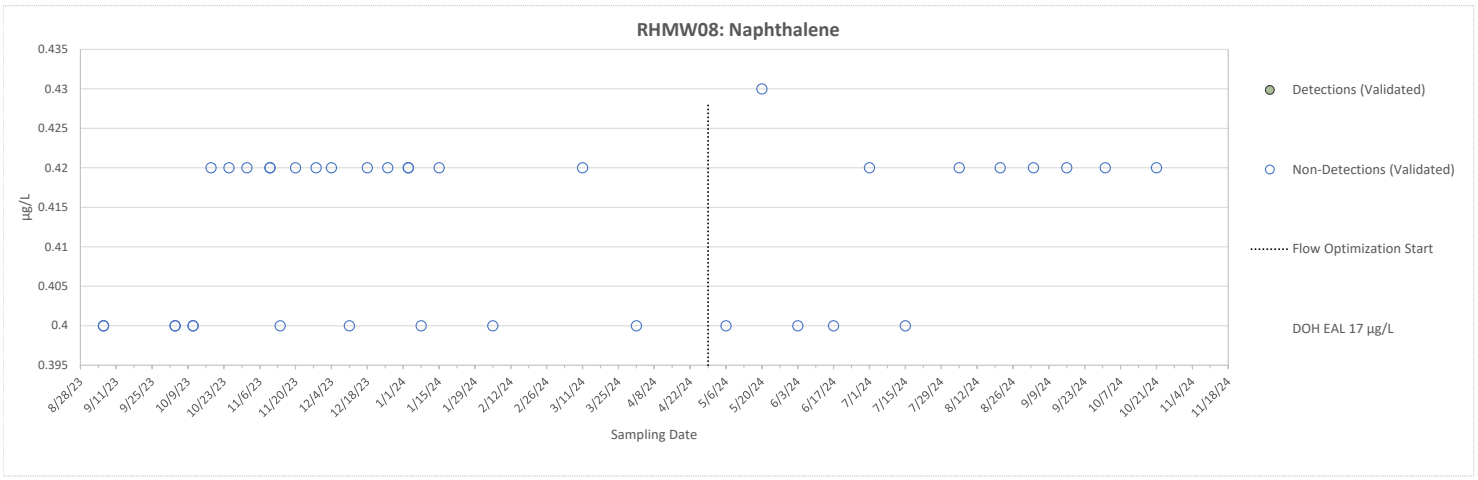

RHMW08: DRO by Method 3520
µg/L
273
222
171
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW08: ORO by Method 3510
µg/L
Sampling Date
201
180
159
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

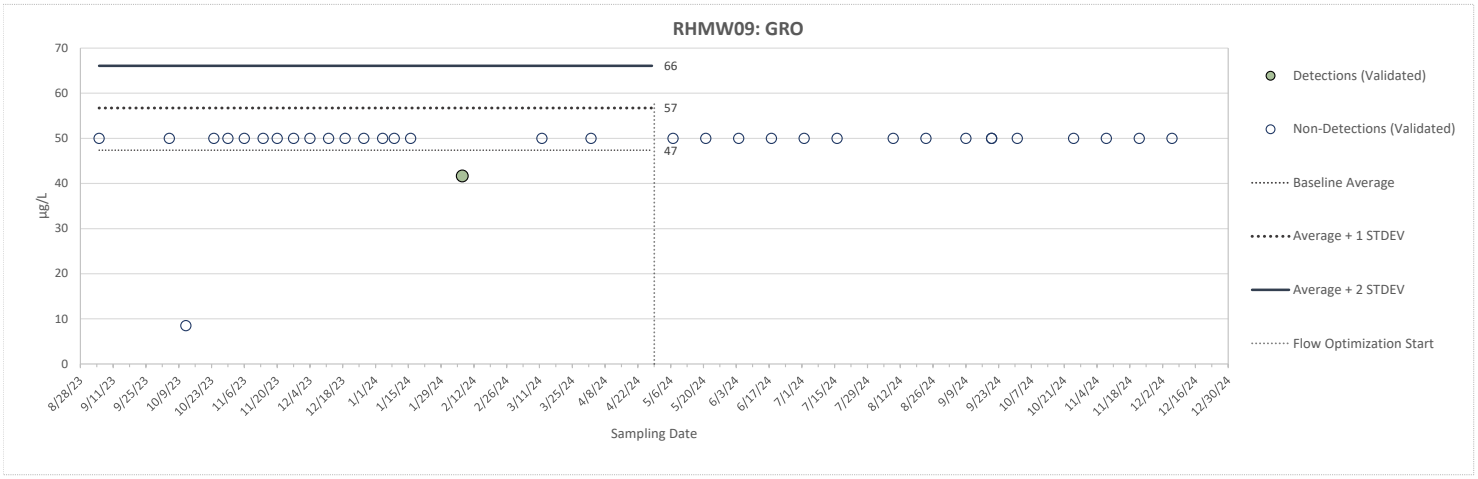

RHMW08: ORO by Method 3520
µg/L
Sampling Date
218
188
158
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

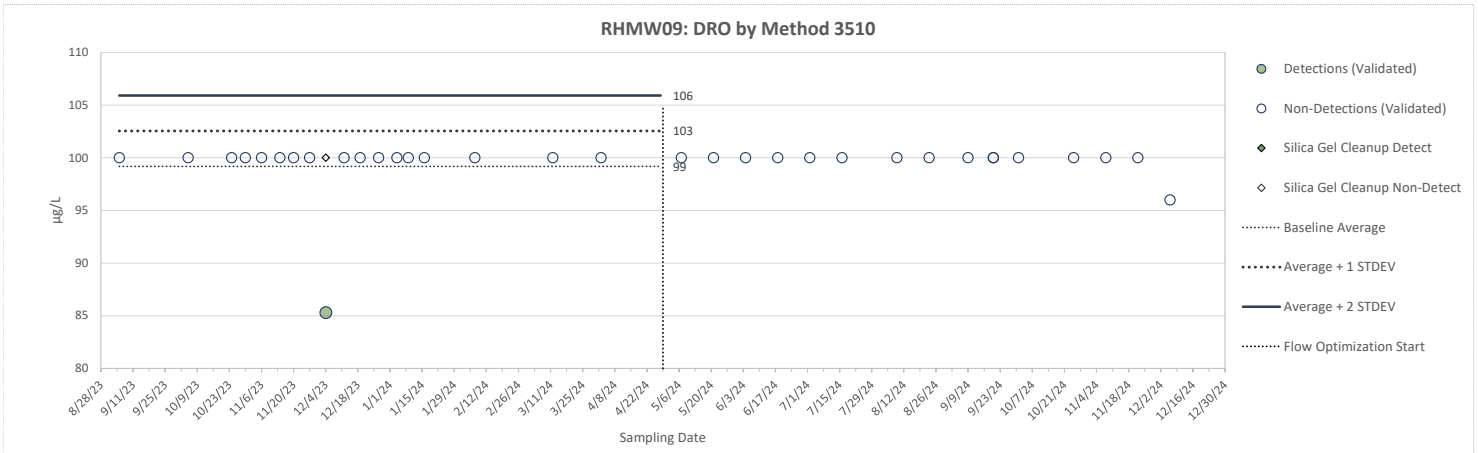


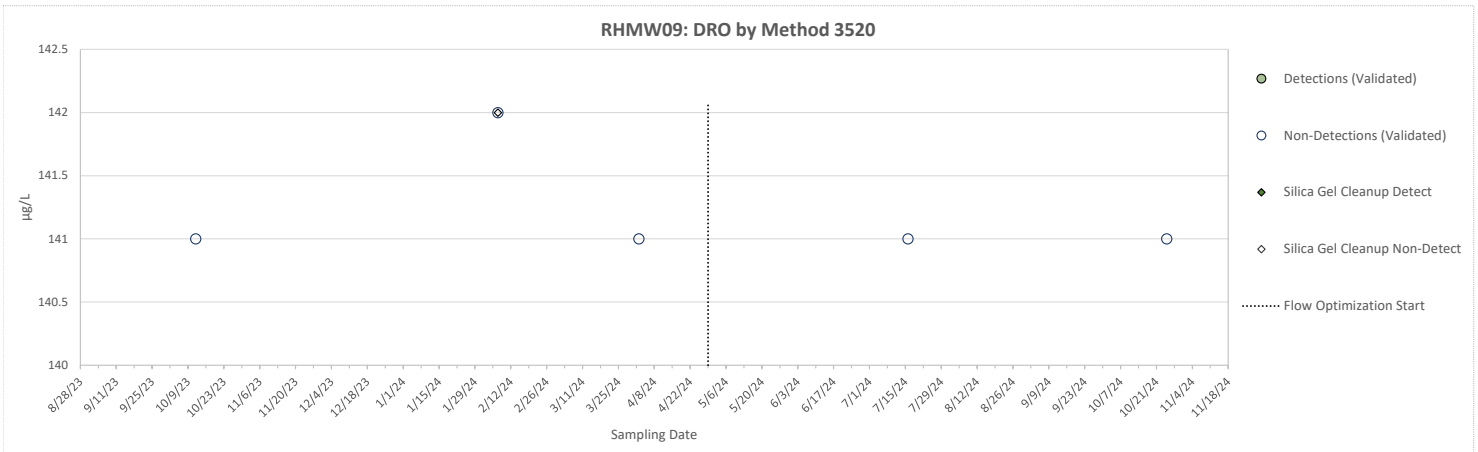


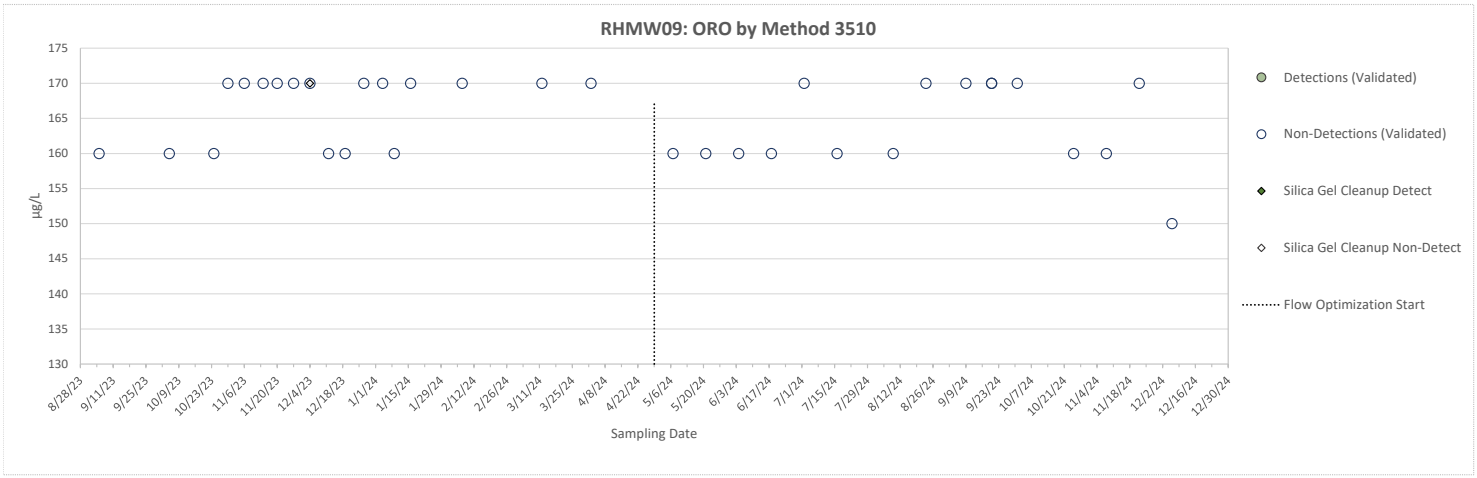


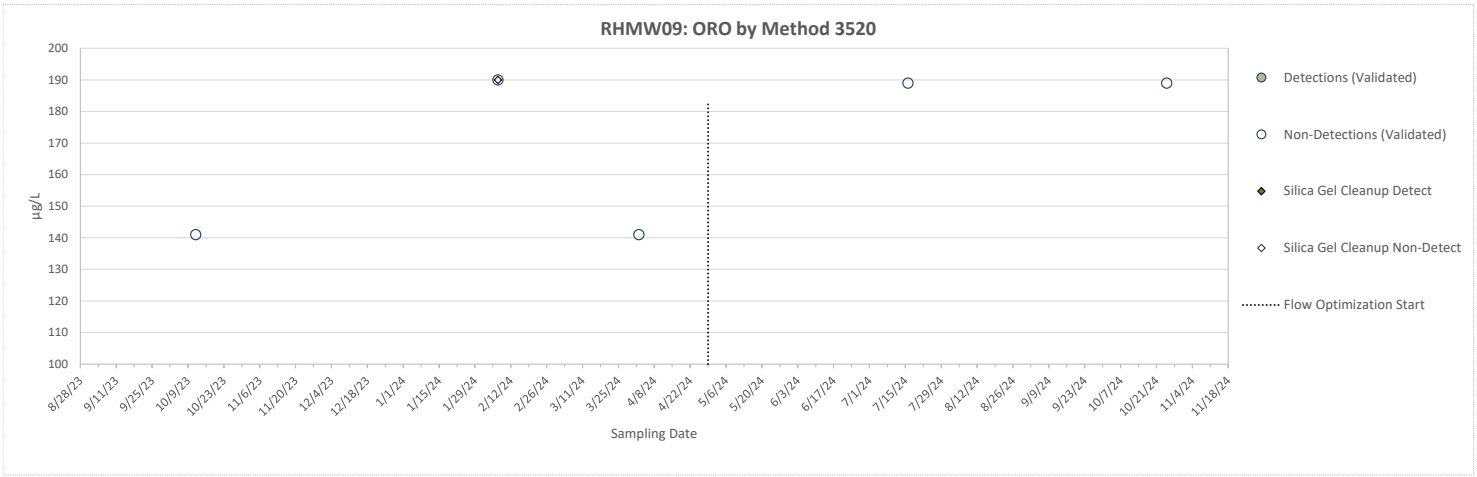
Note: See Data Legend

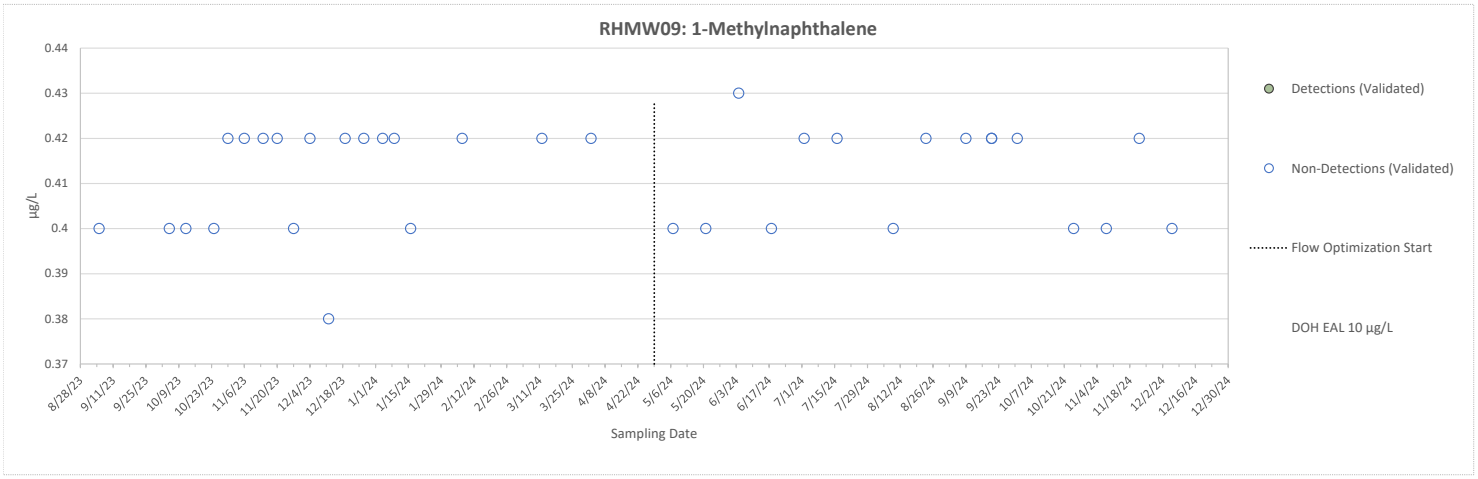

RHMW09: GRO
70
60
50
40
30
20
10
0
µg/L
66
57
47
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

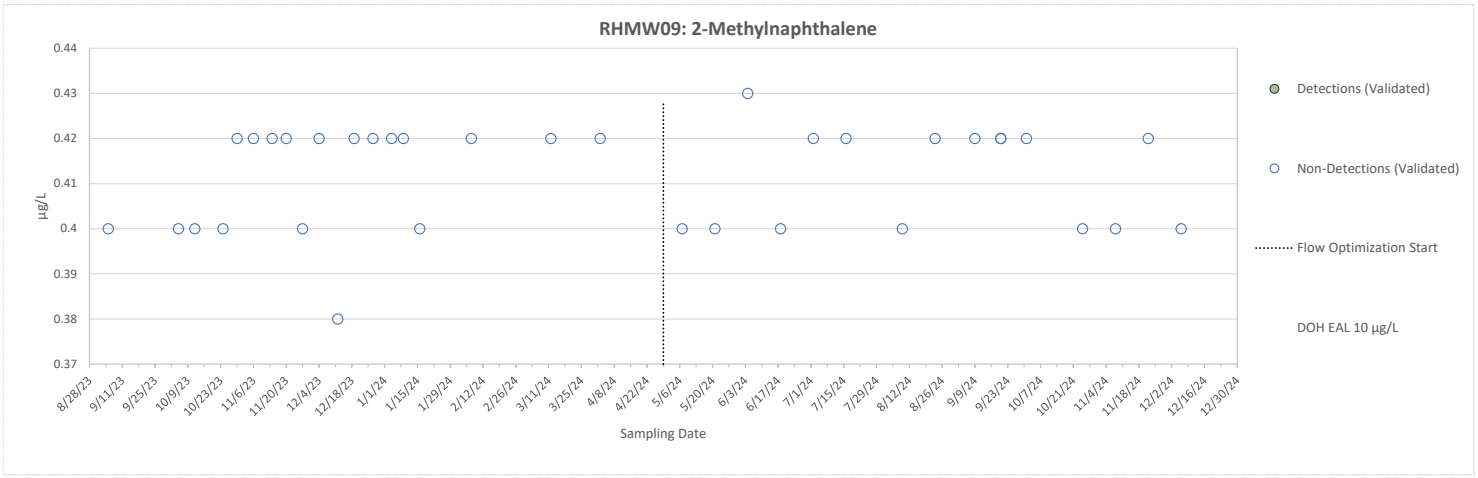

RHMW09: DRO by Method 3510
110
105
100
95
90
85
80
µg/L
106
103
99
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

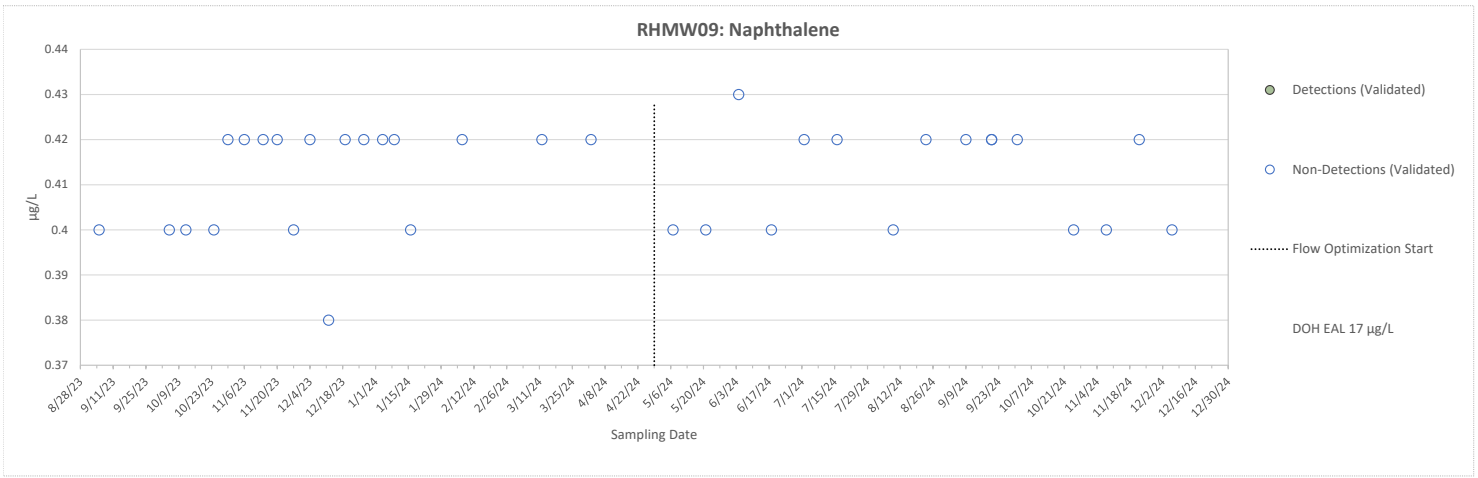

RHMW09: DRO by Method 3520
142.5
142
141.5
141
140.5
140
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW09: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

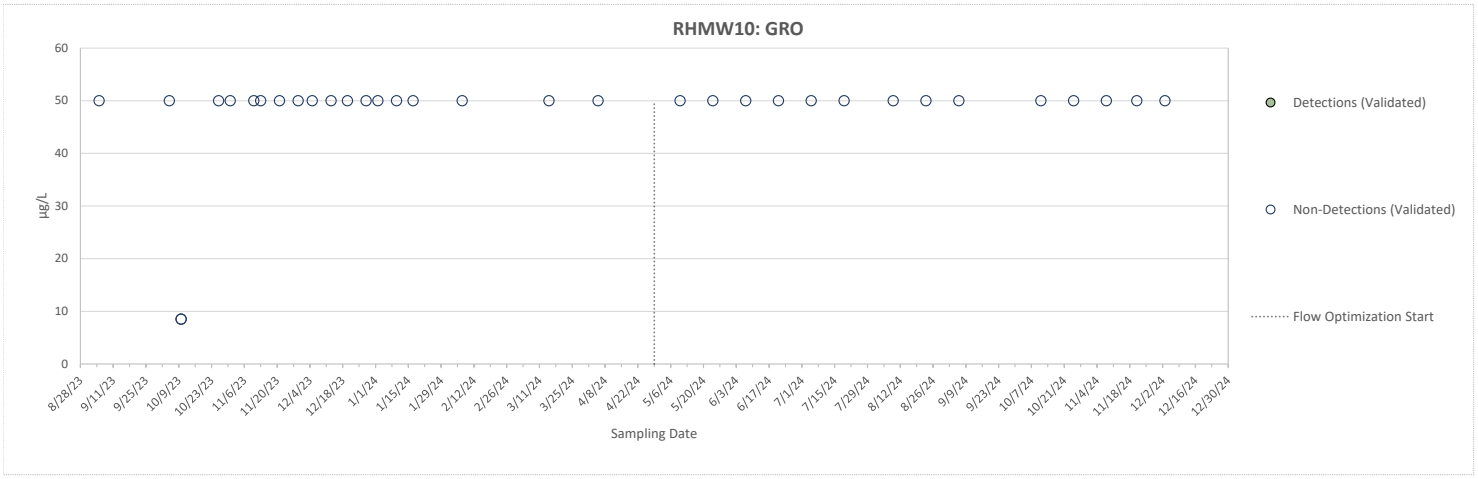

RHMW09: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
120
110
100
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

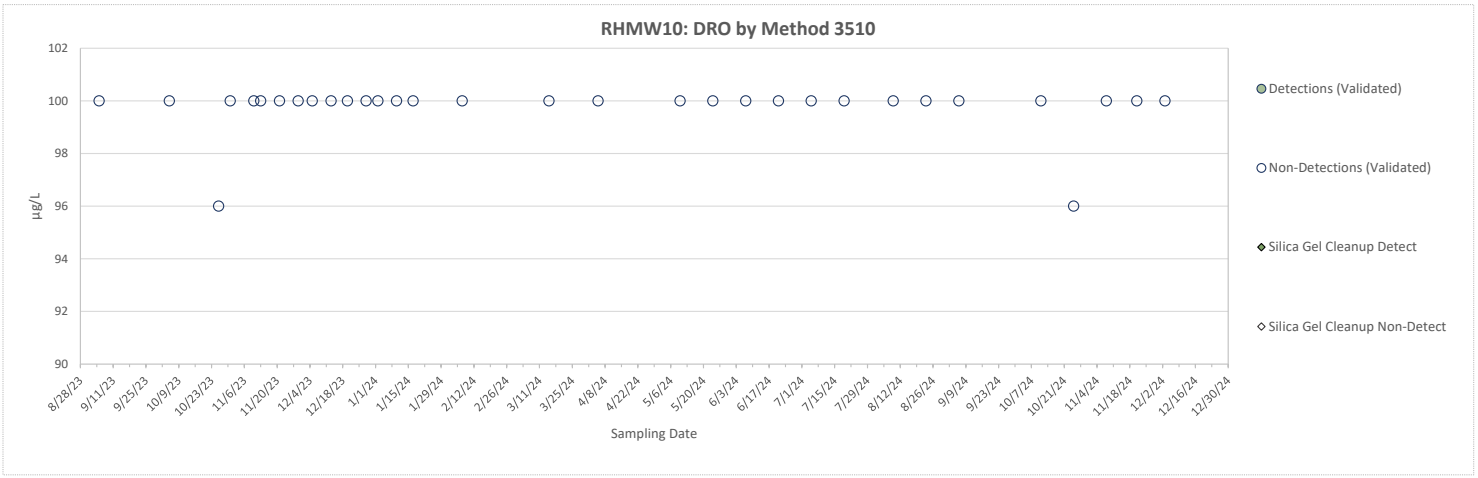


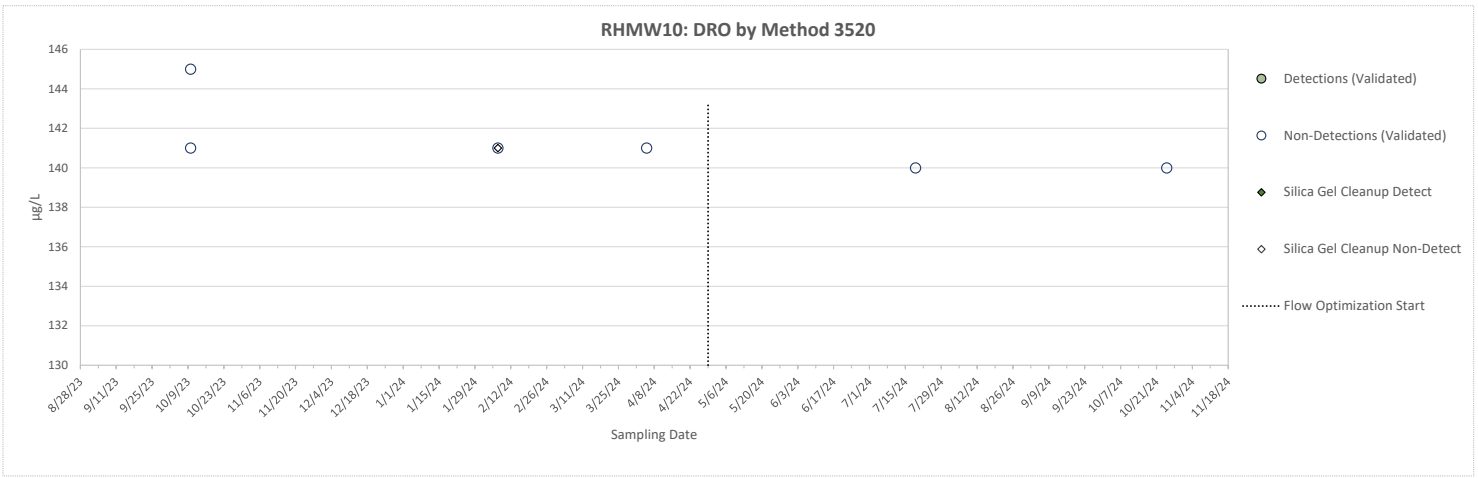


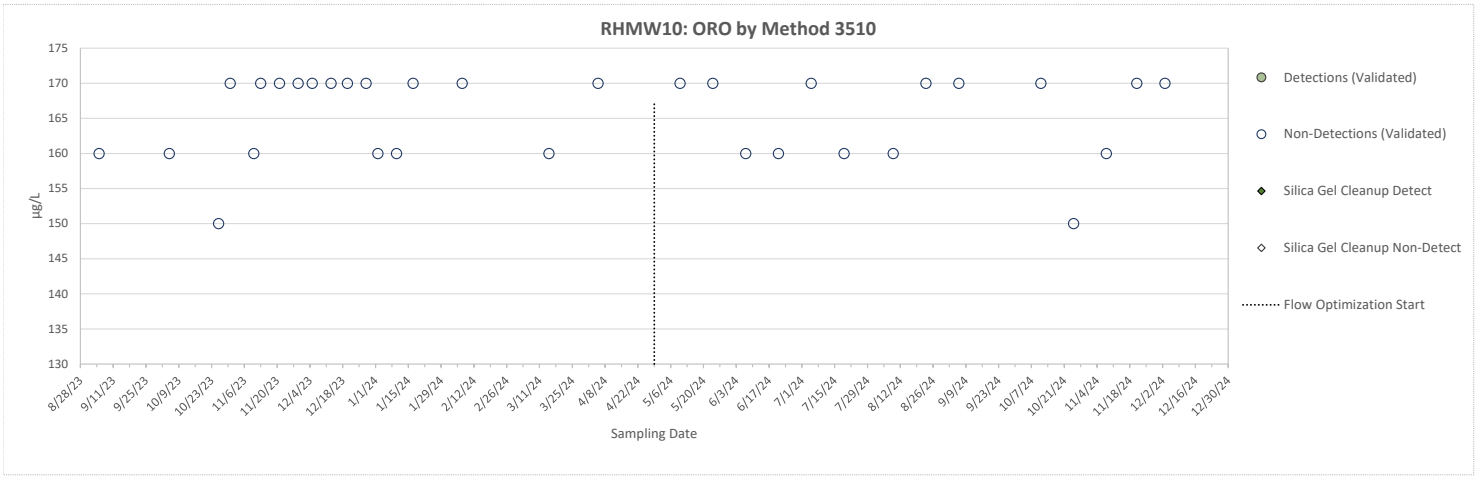


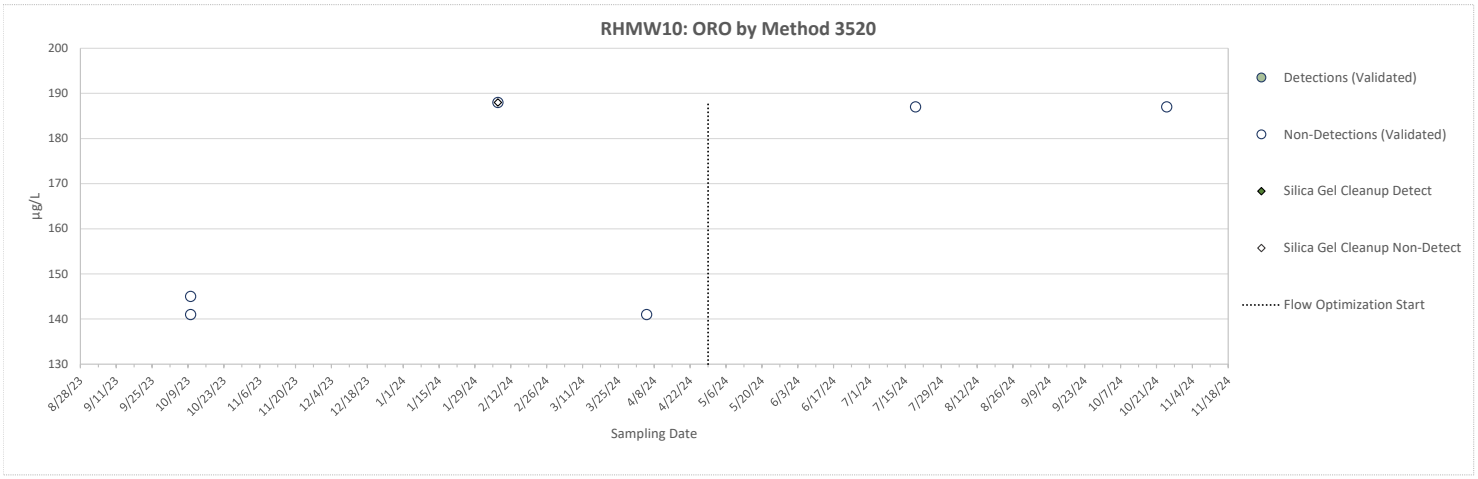
Note: See Data Legend

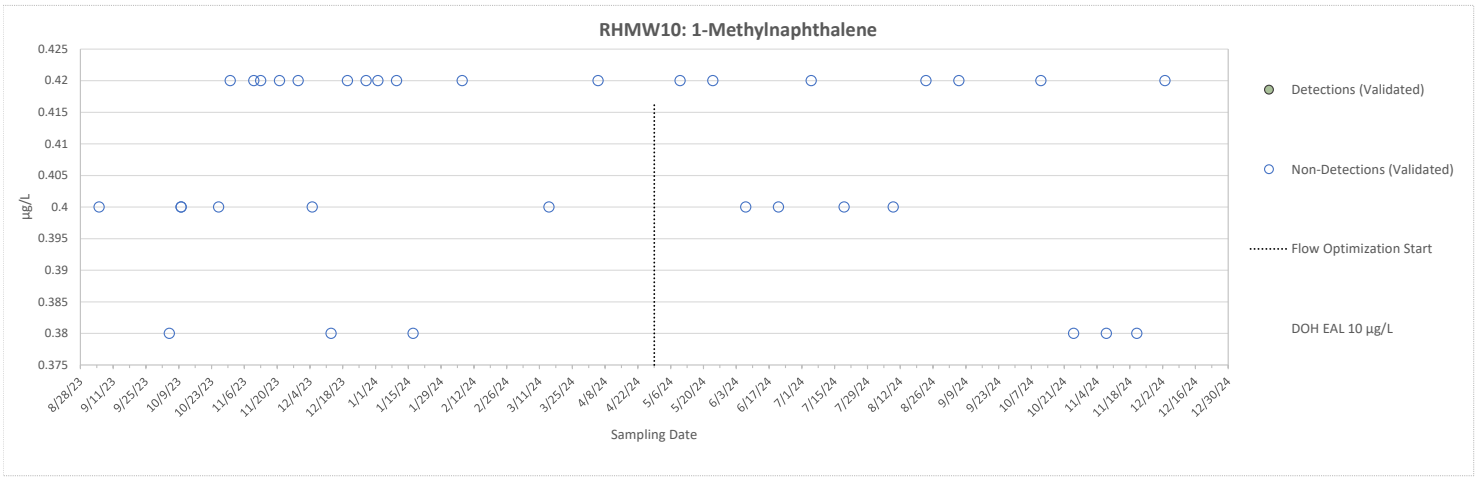

RHMW10: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

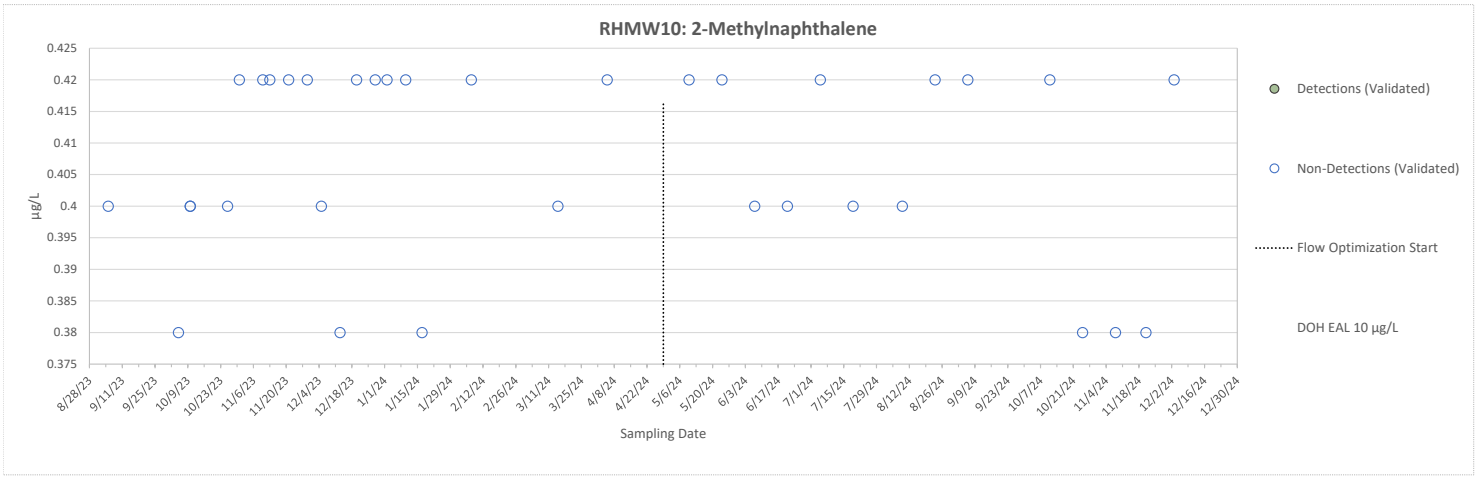

RHMW10: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

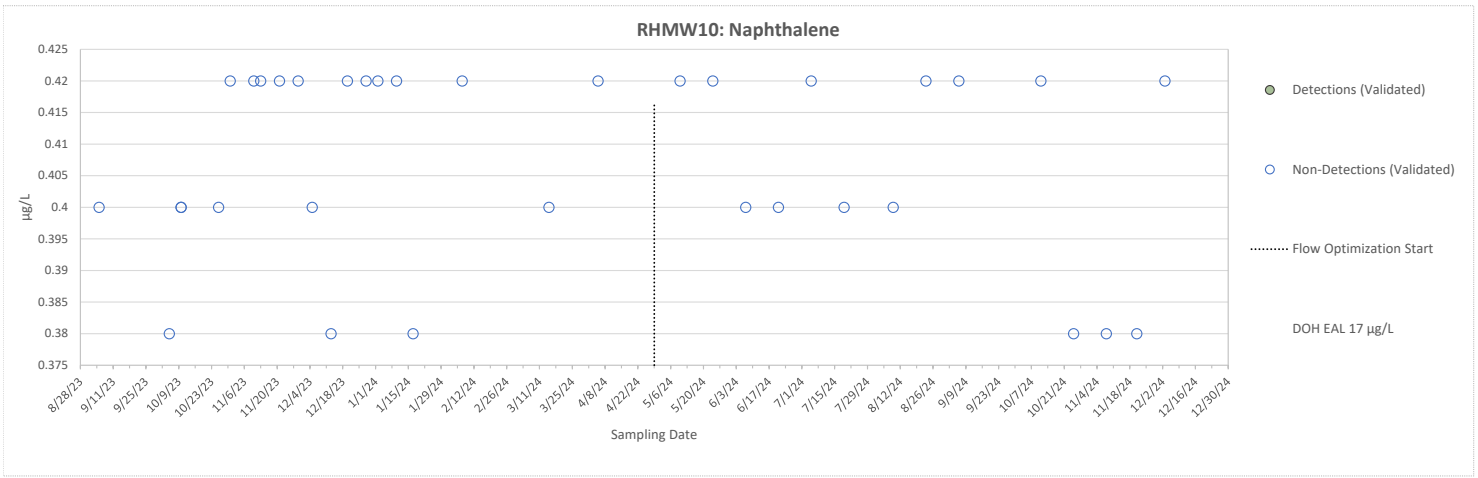

RHMW10: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW10: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

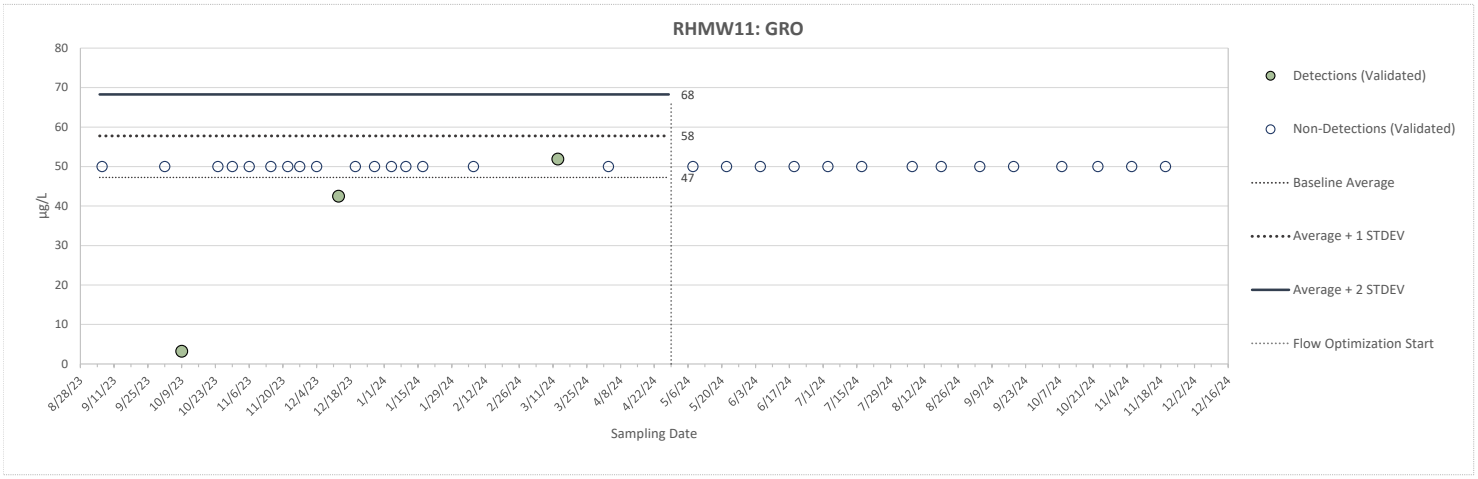

RHMW10: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

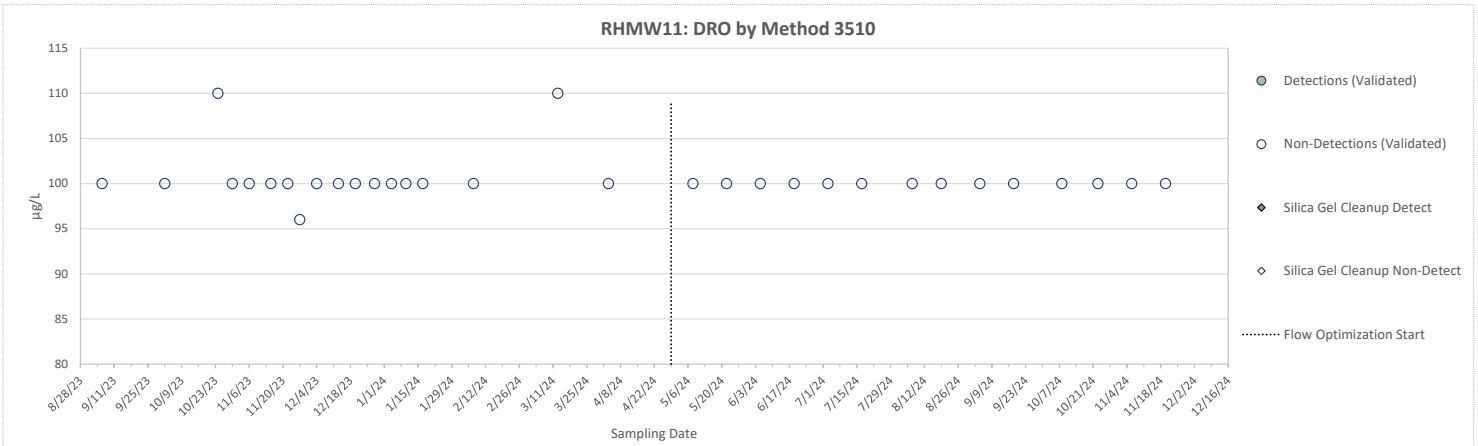


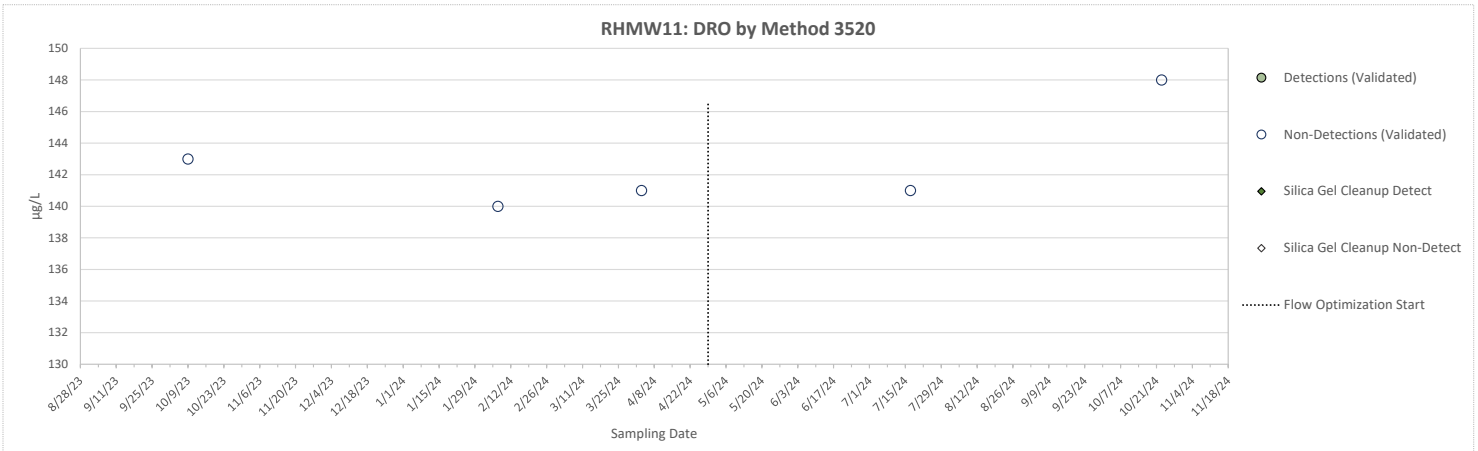


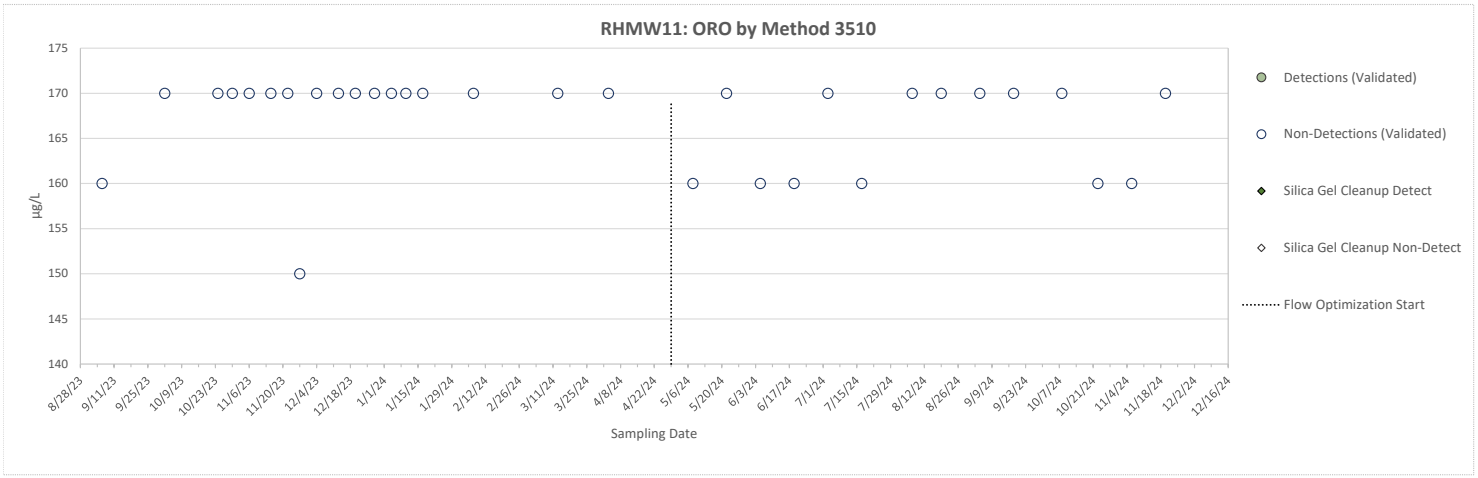


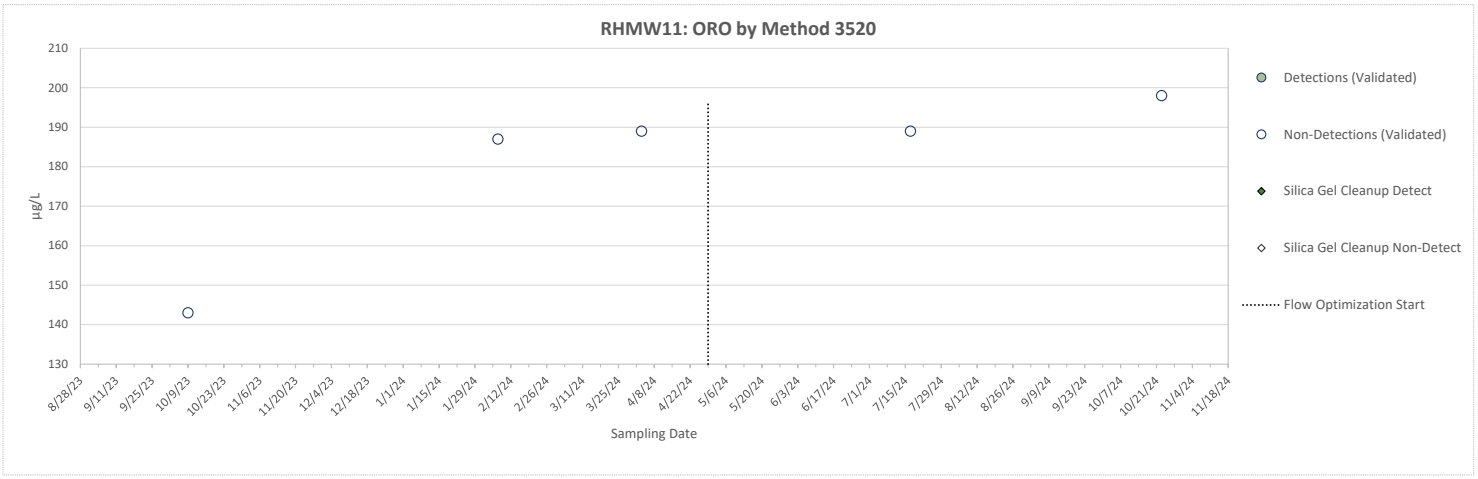
Note: See Data Legend

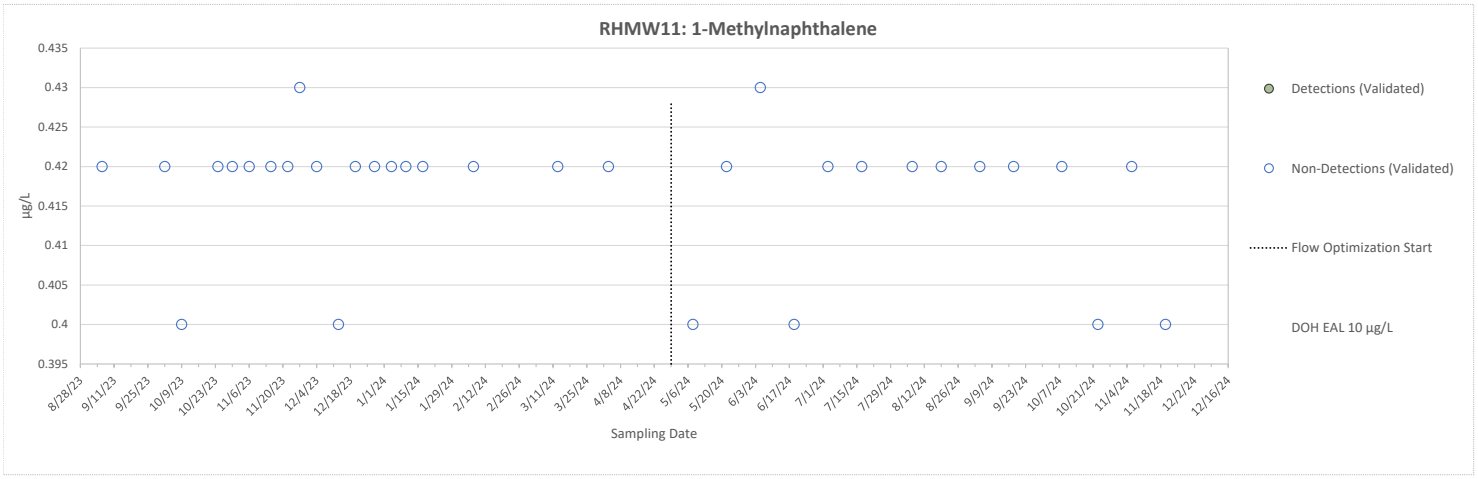

RHMW11: GRO
µg/L
Sampling Date
68
58
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

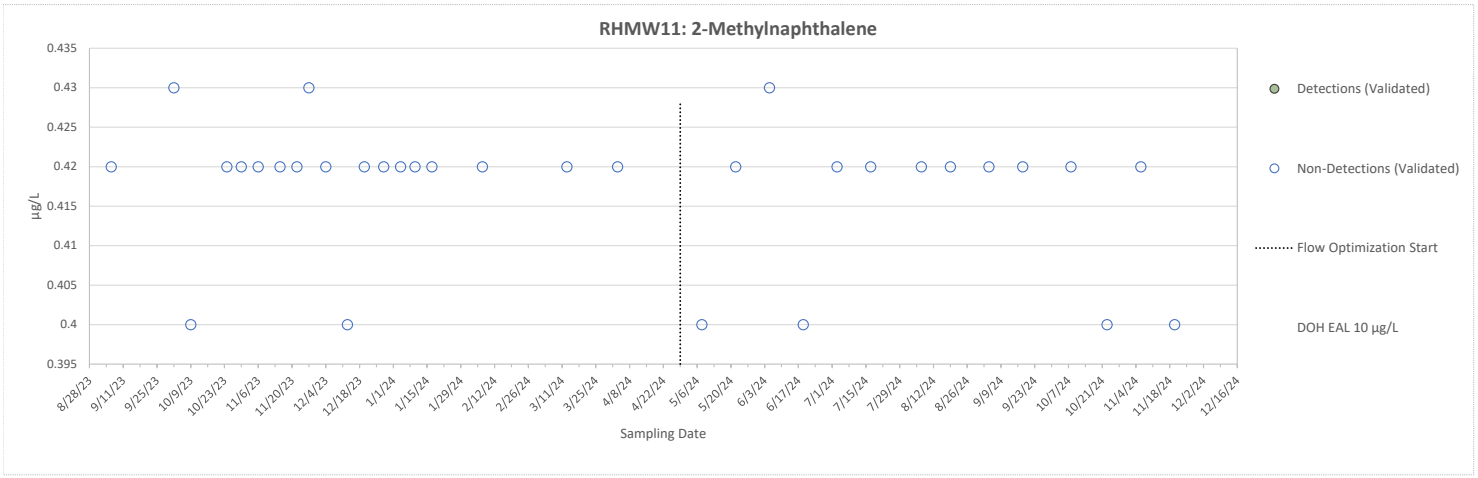

RHMW11: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

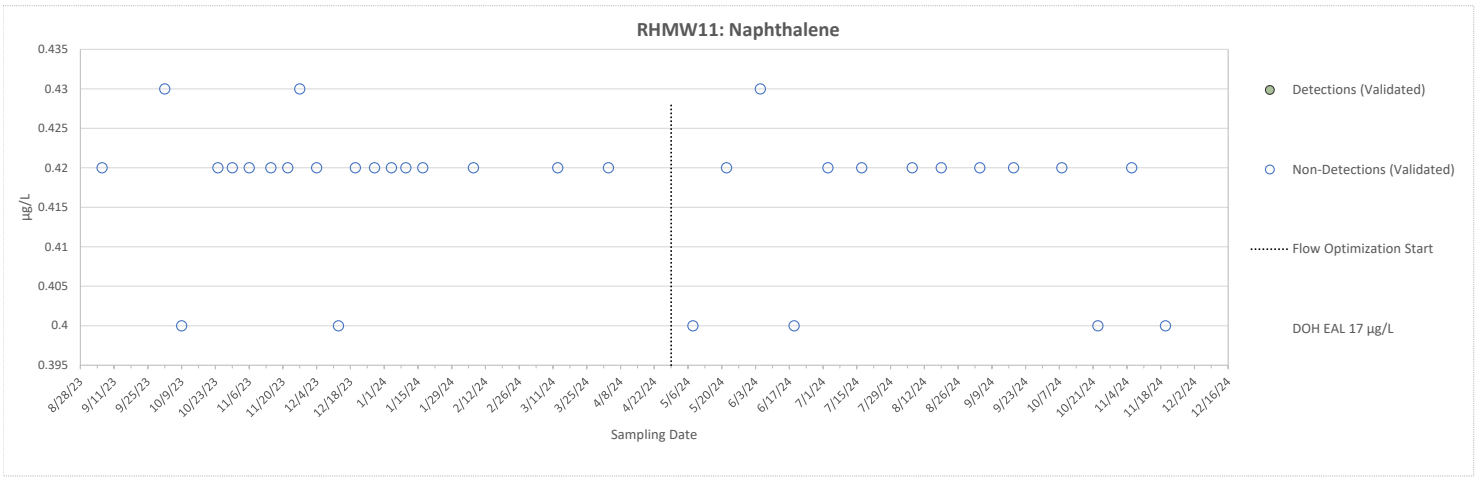

RHMW11: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW11: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

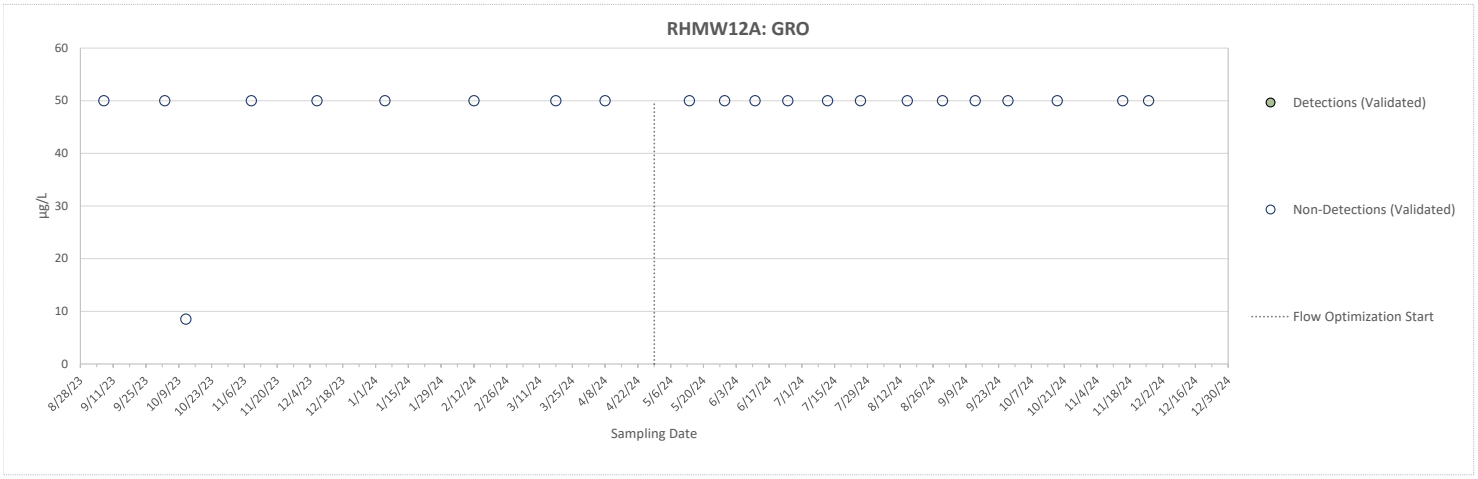

RHMW11: ORO by Method 3520
µg/L
210
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

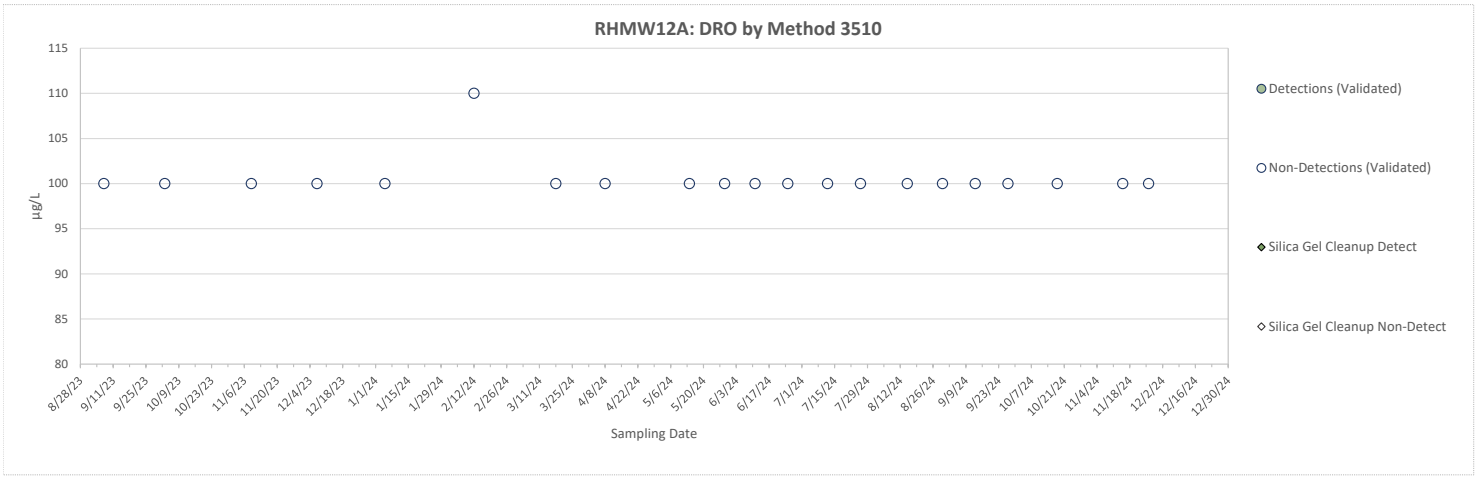


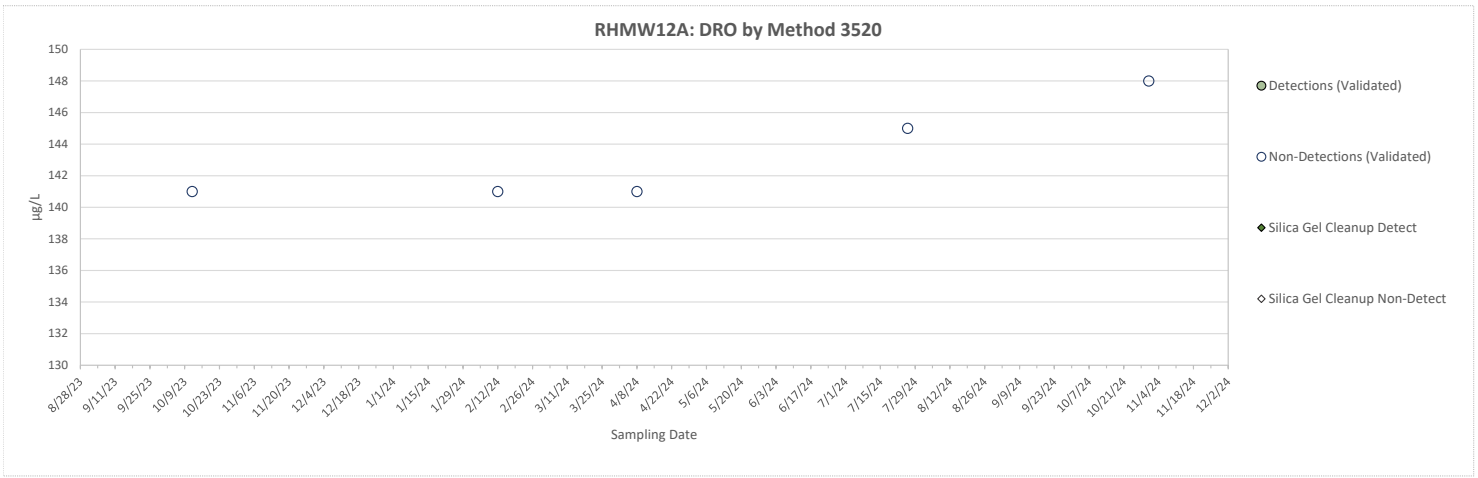


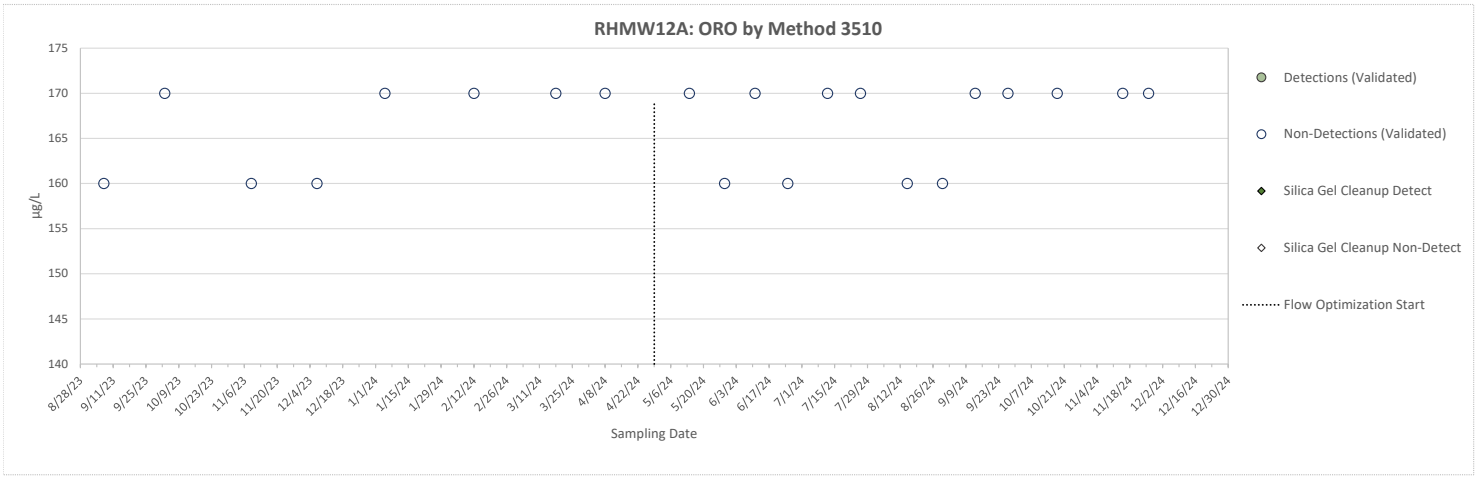


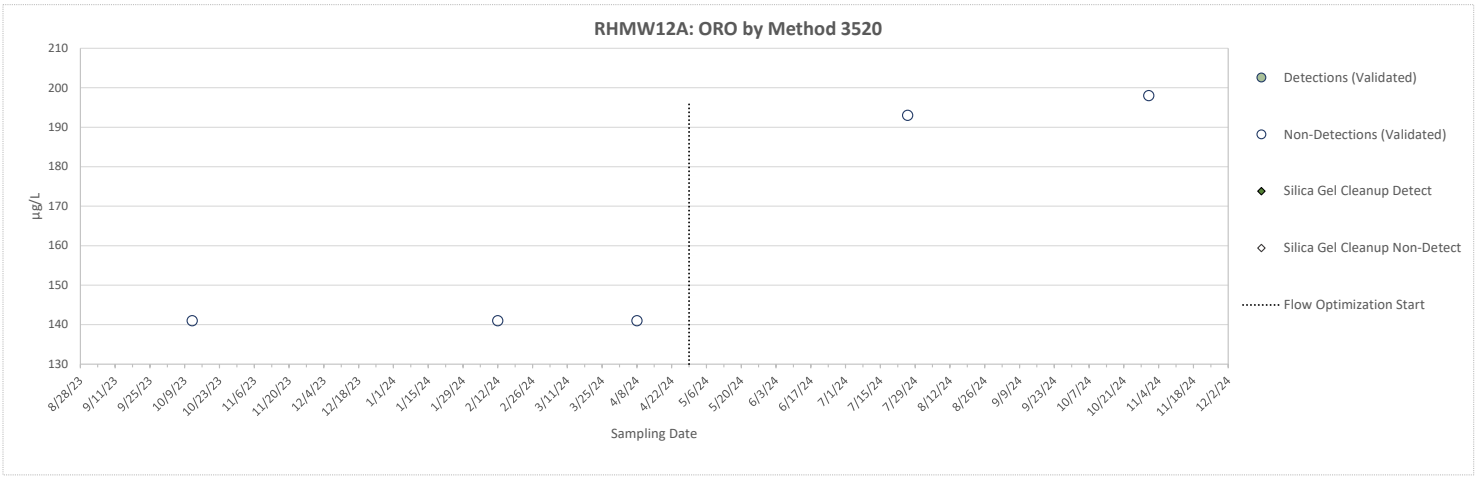
Note: See Data Legend

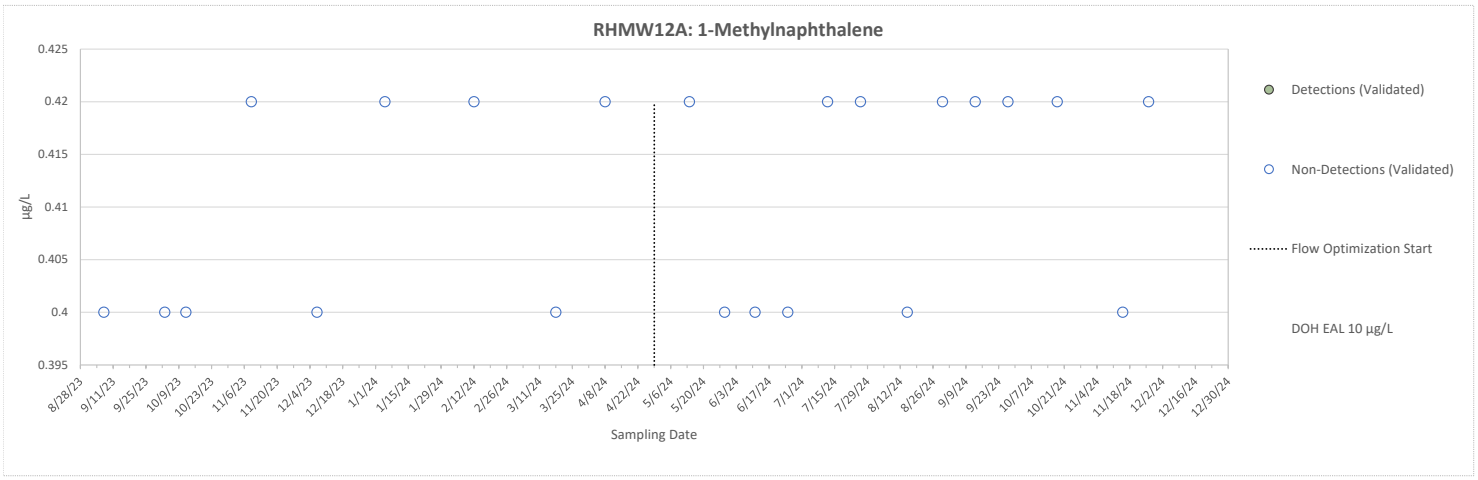

RHMW12A: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

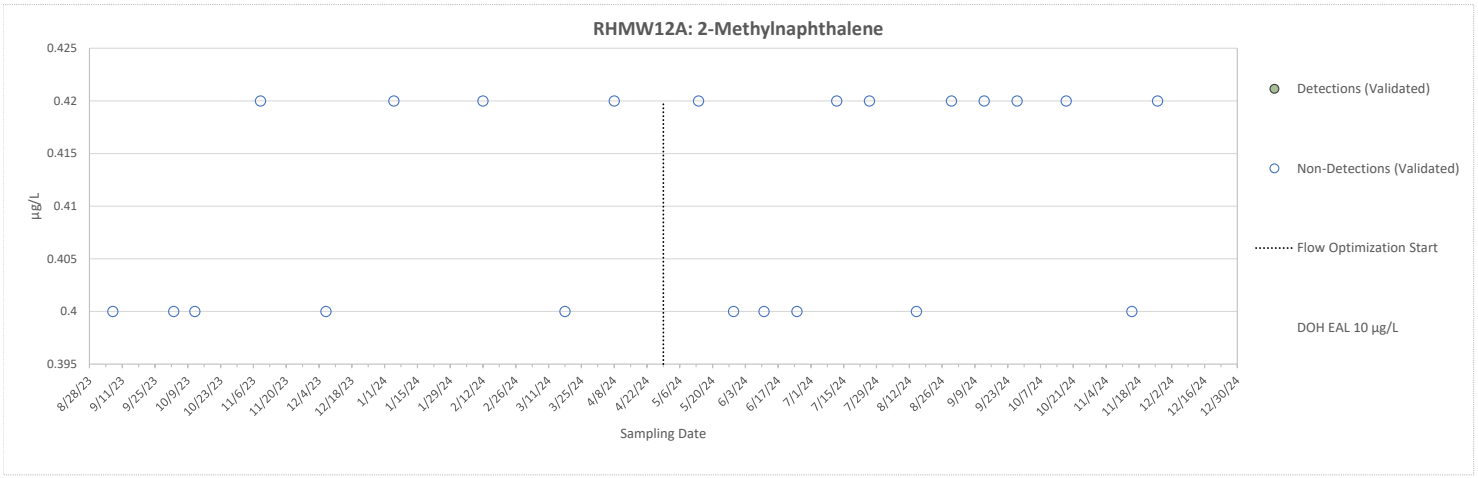

RHMW12A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

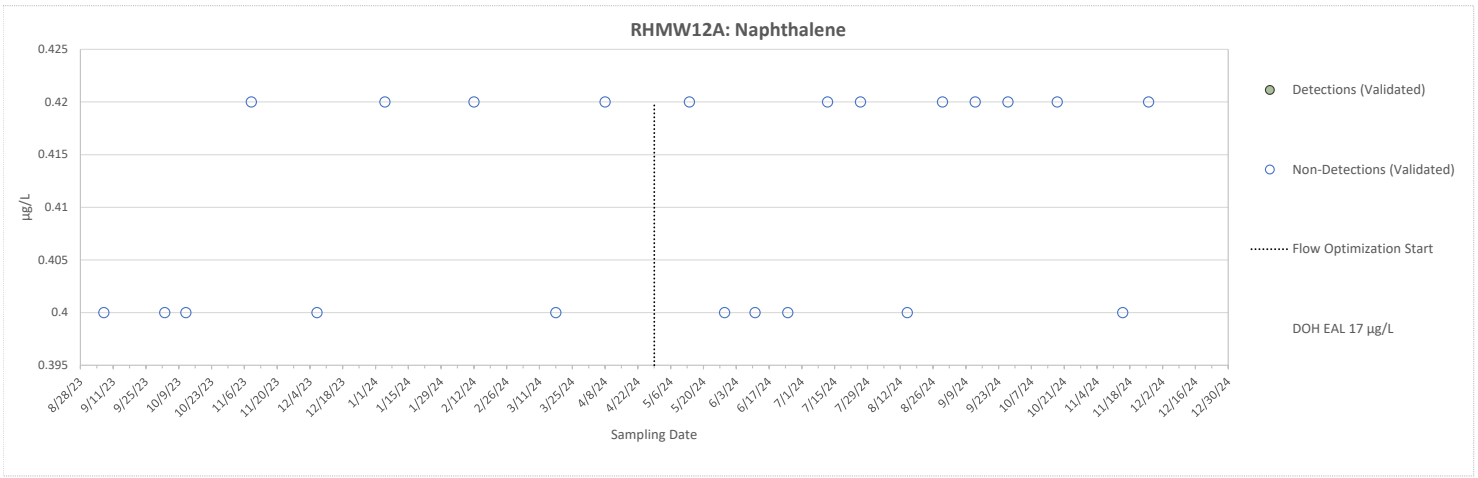

RHMW12A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect


RHMW12A: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

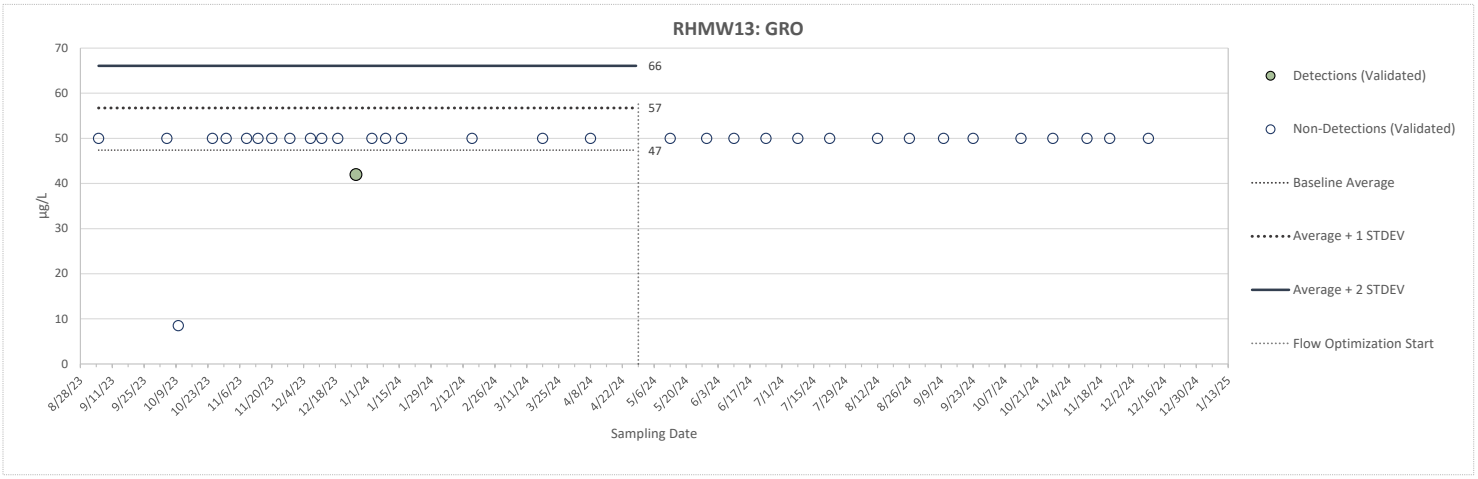

RHMW12A: ORO by Method 3520
µg/L
210
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

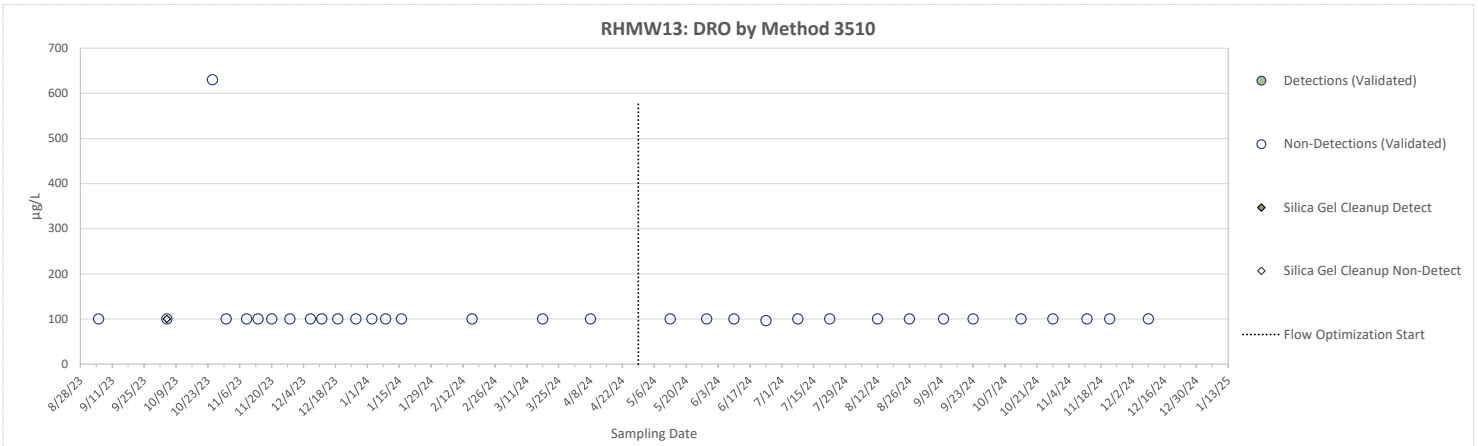


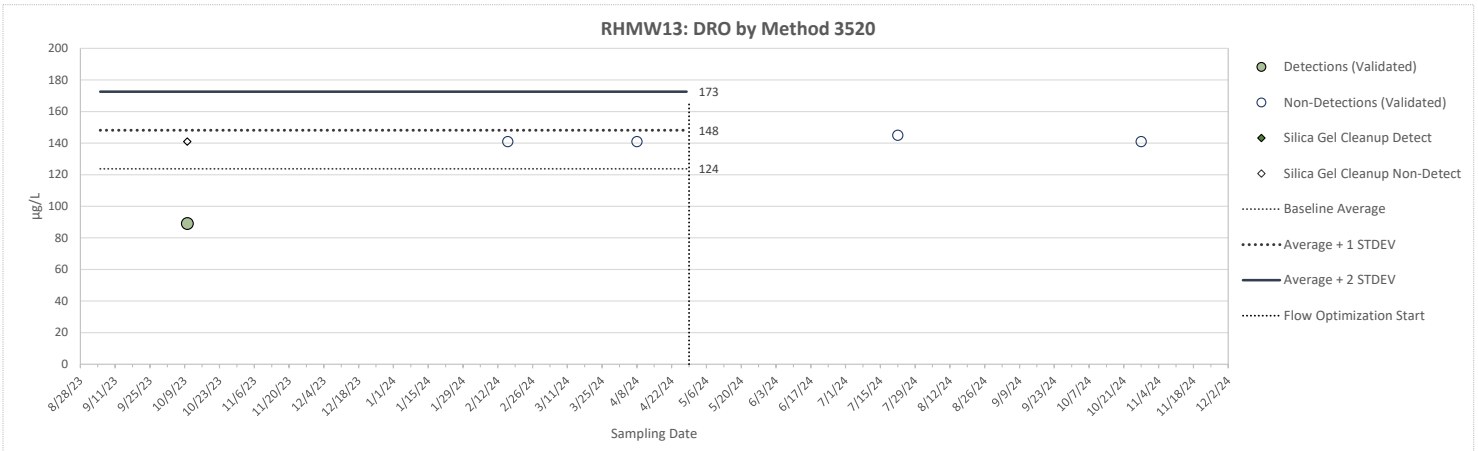


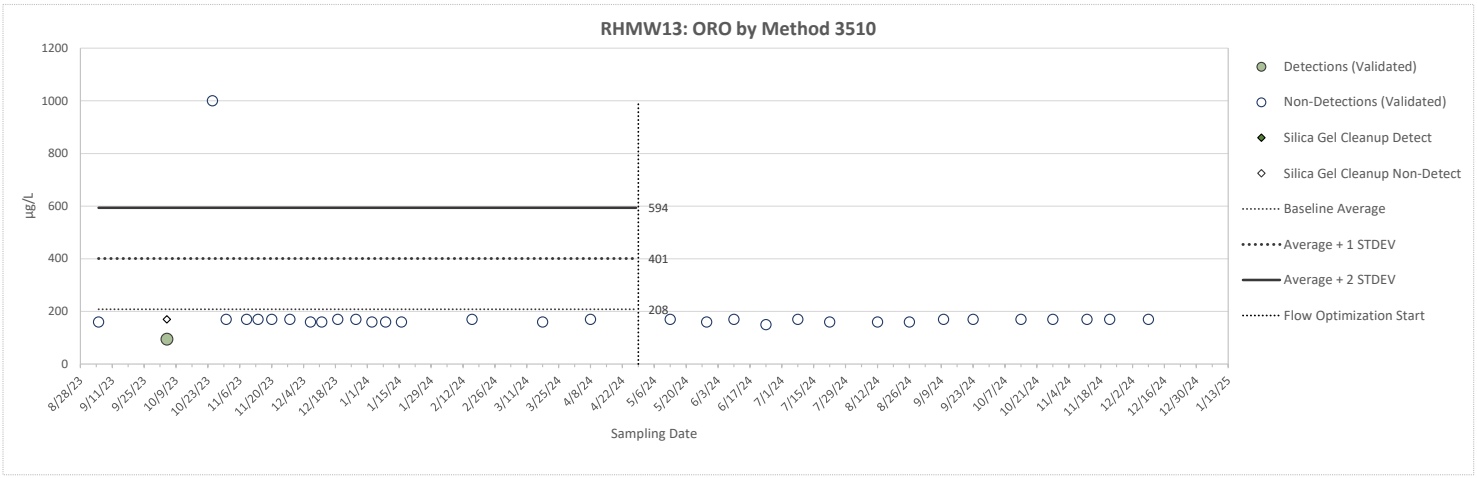


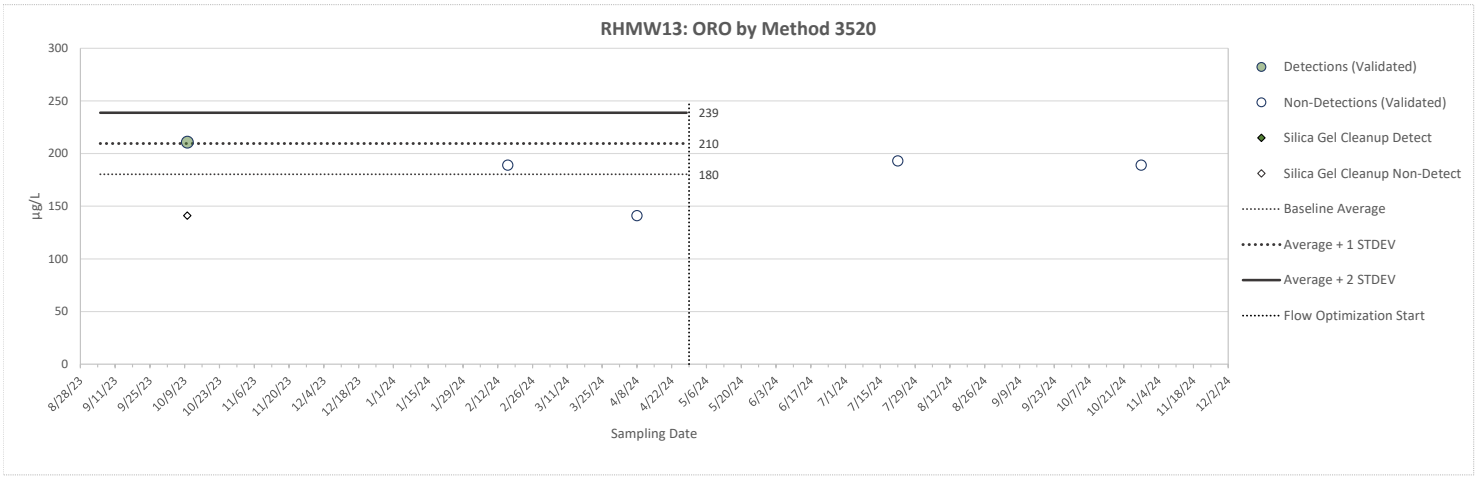
Note: See Data Legend

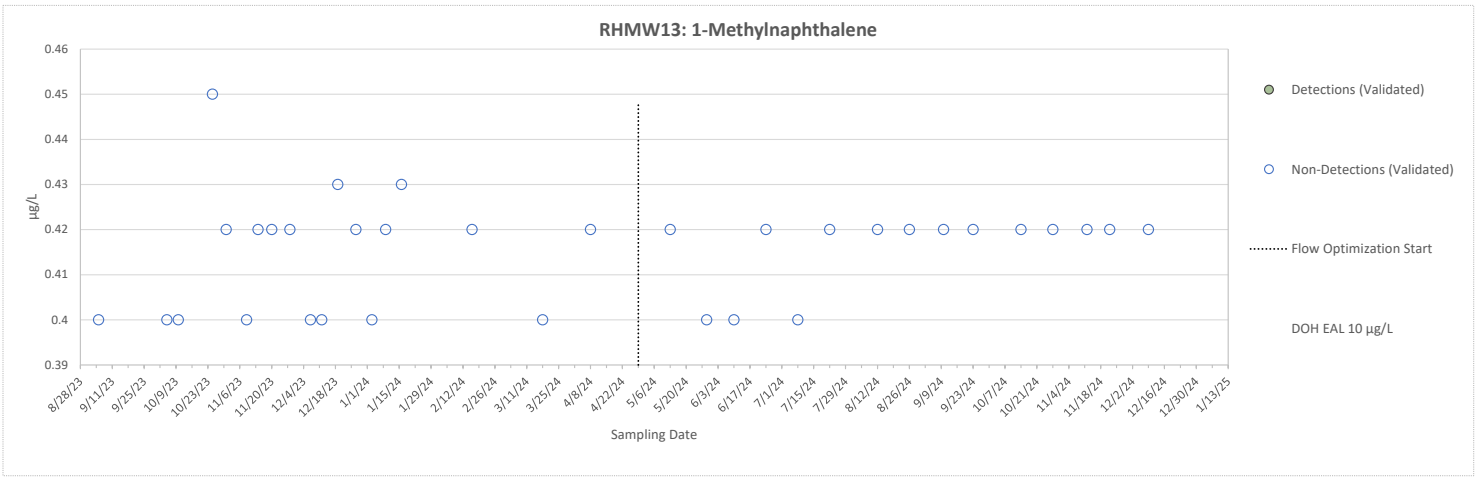

RHMW13: GRO
µg/L
Sampling Date
66
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

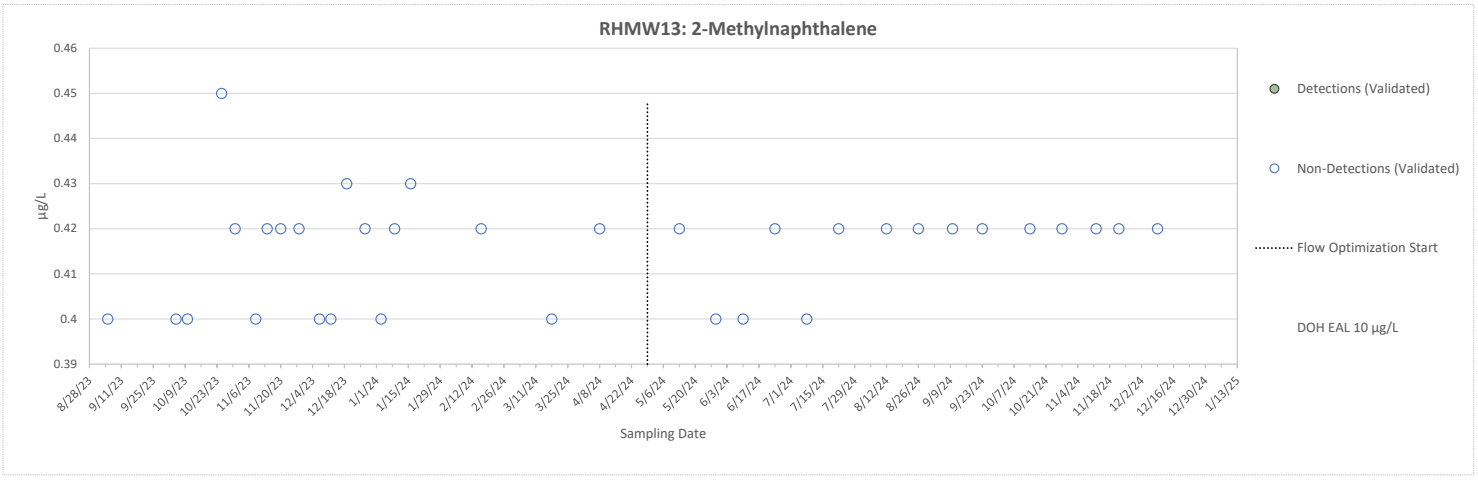

RHMW13: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

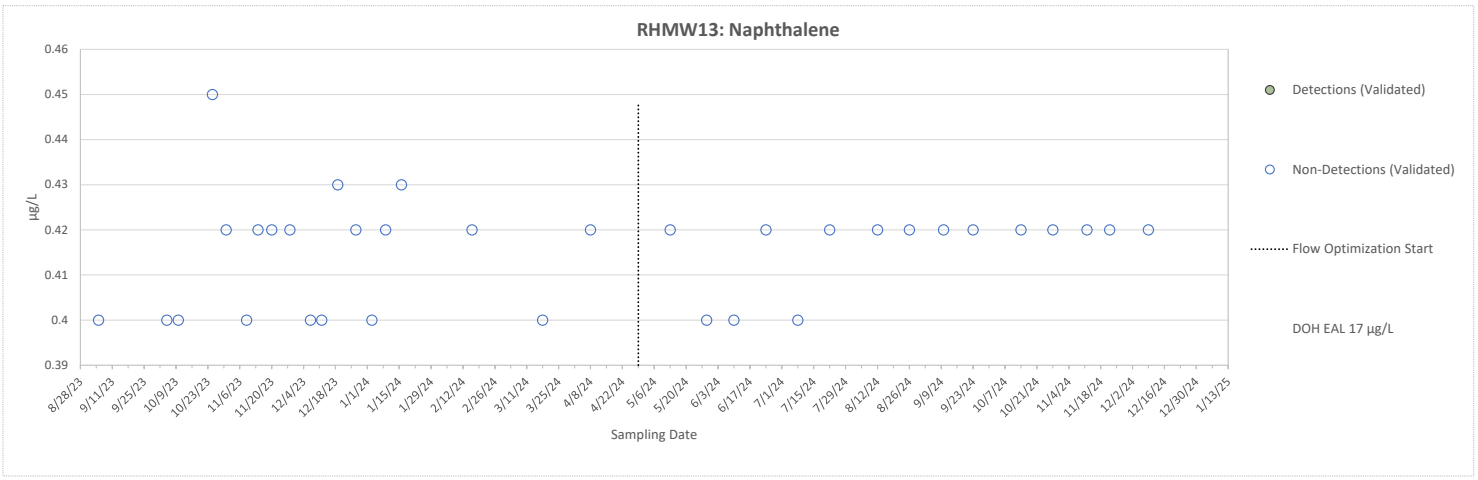

RHMW13: DRO by Method 3520
µg/L
Sampling Date
173
148
124
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW13: ORO by Method 3510
µg/L
1200
1000
800
600
400
200
0
594
401
208
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
1/13/25
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

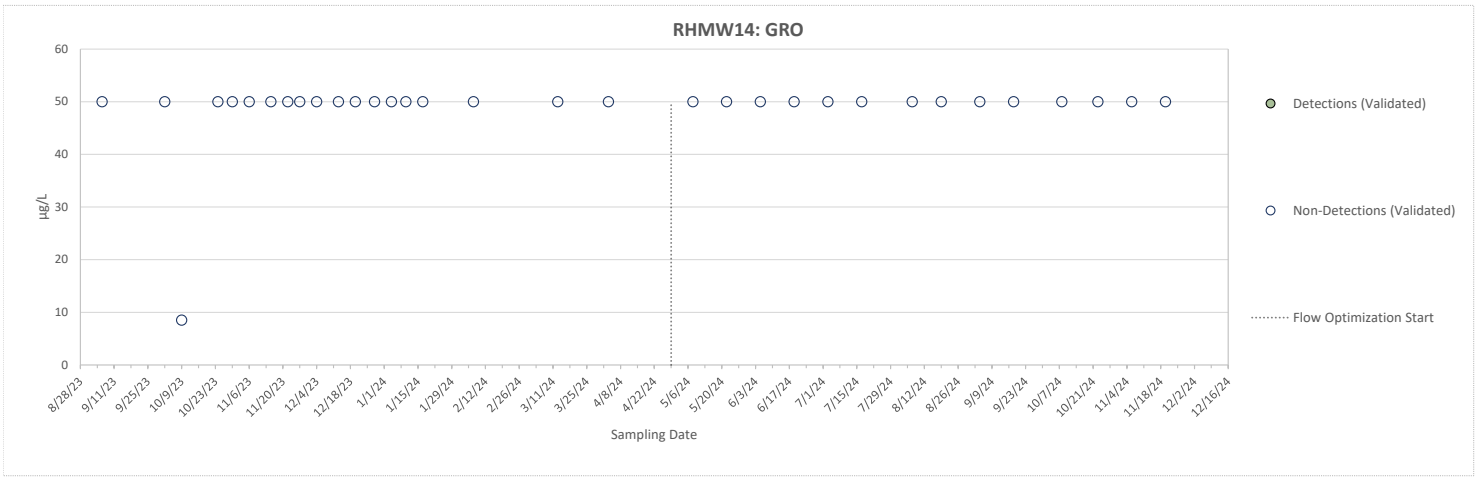

RHMW13: ORO by Method 3520
µg/L
300
250
200
150
100
50
0
239
210
180
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

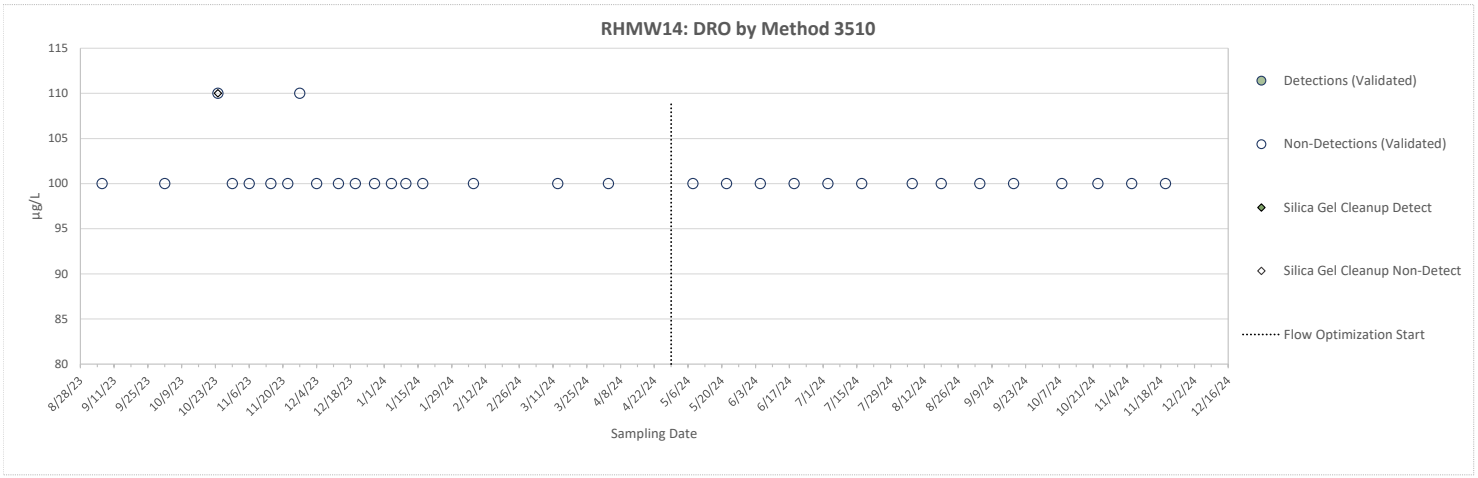


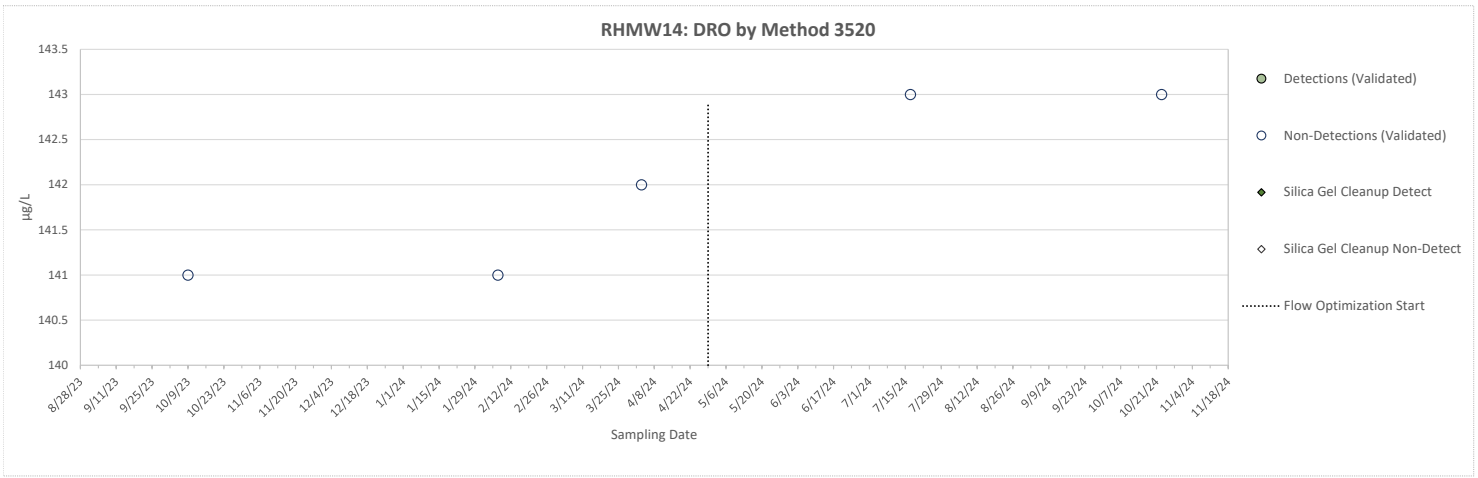


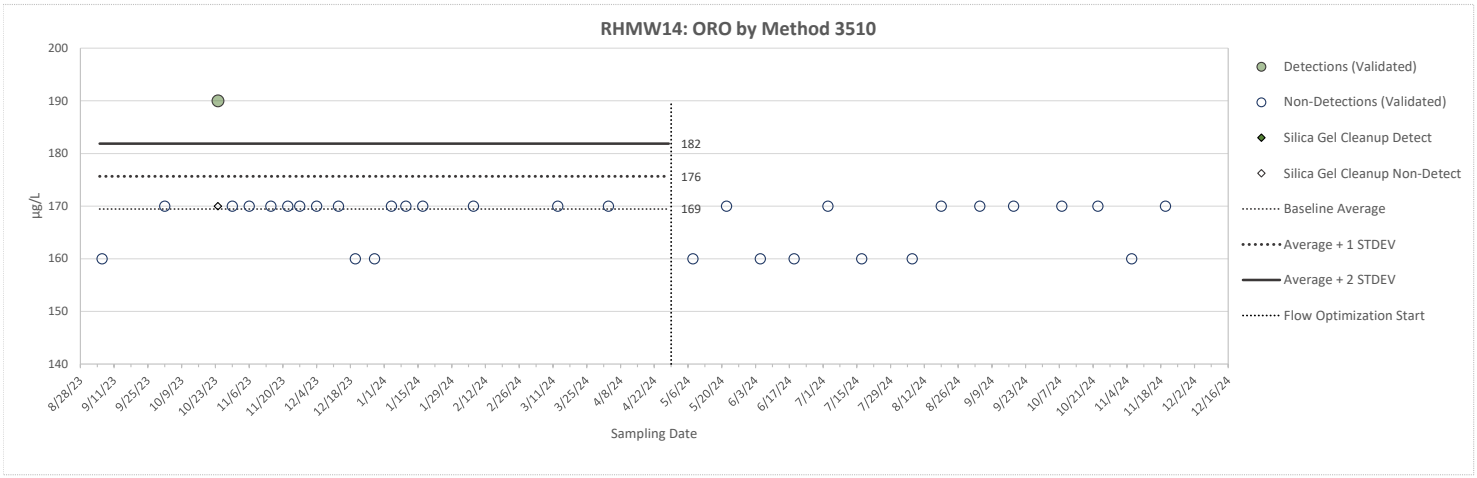


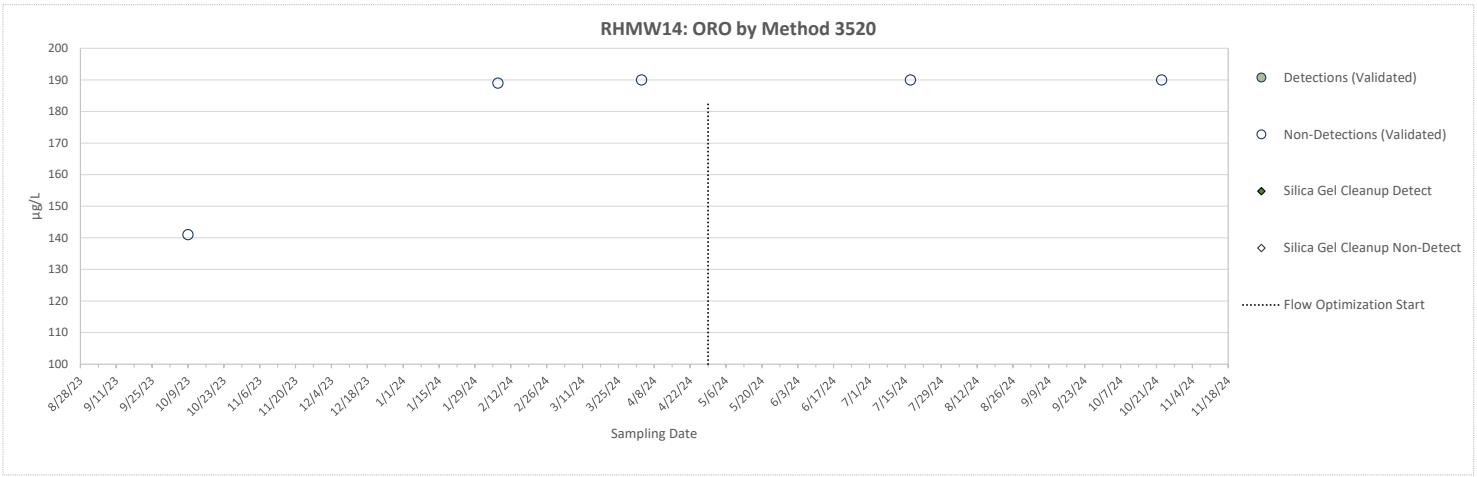
Note: See Data Legend

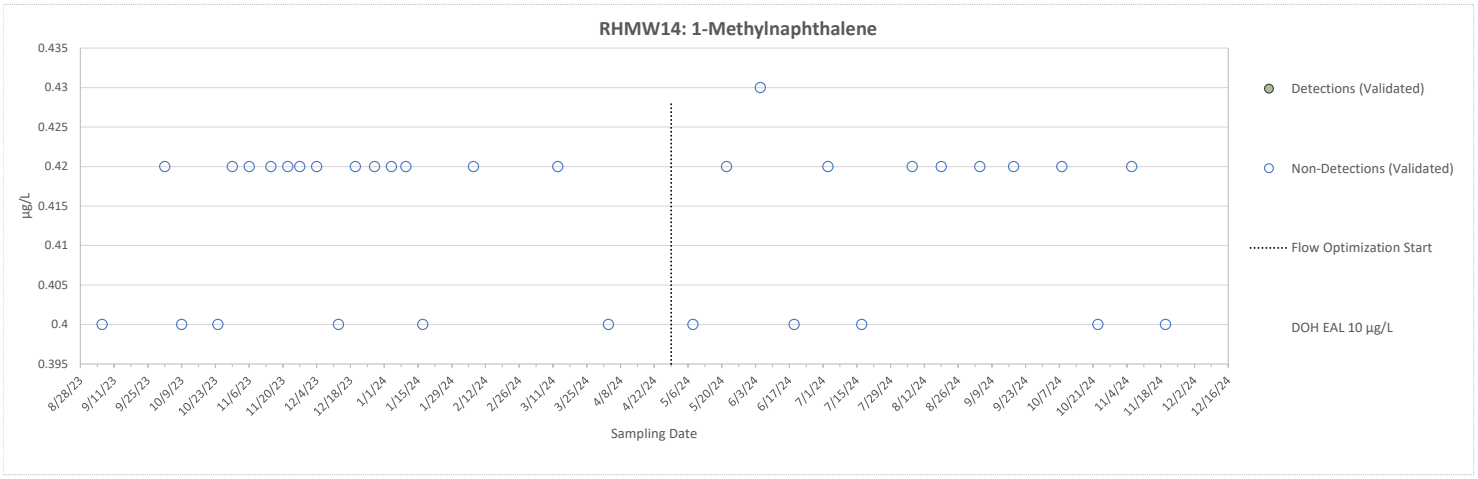

RHMW14: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

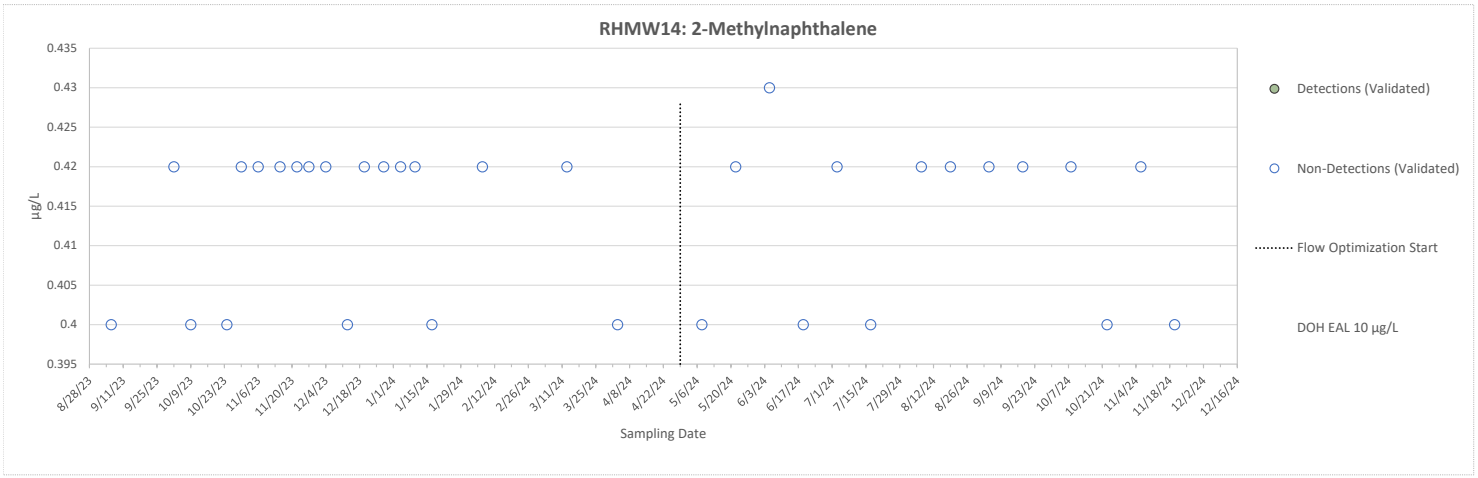

RHMW14: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

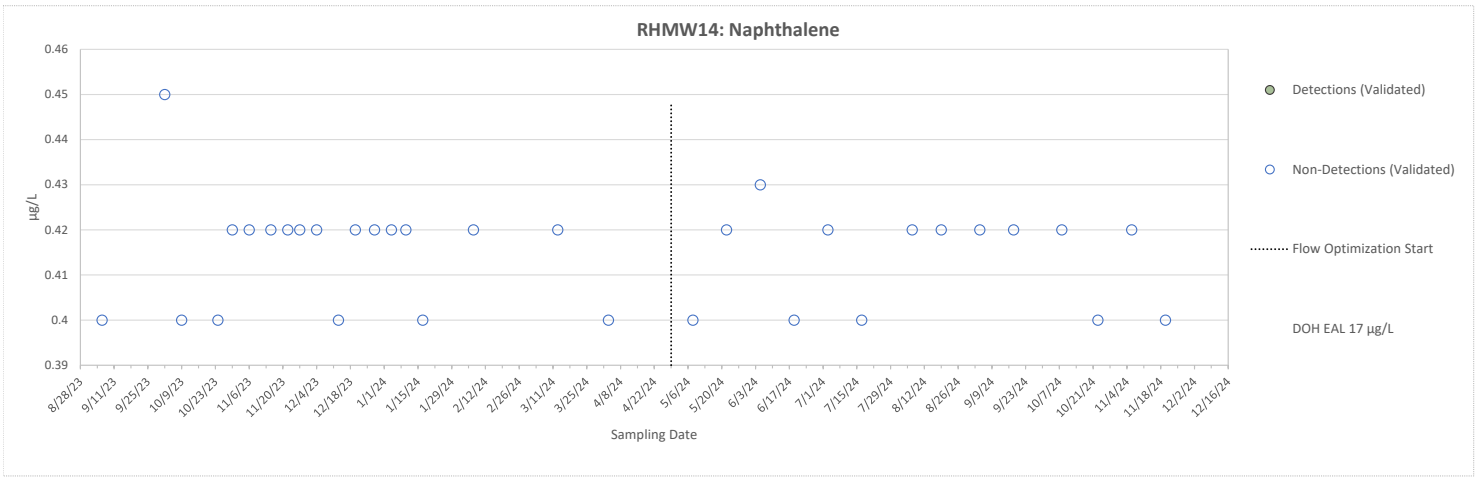

RHMW14: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW14: ORO by Method 3510
µg/L
200
190
180
170
160
150
140
182
176
169
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

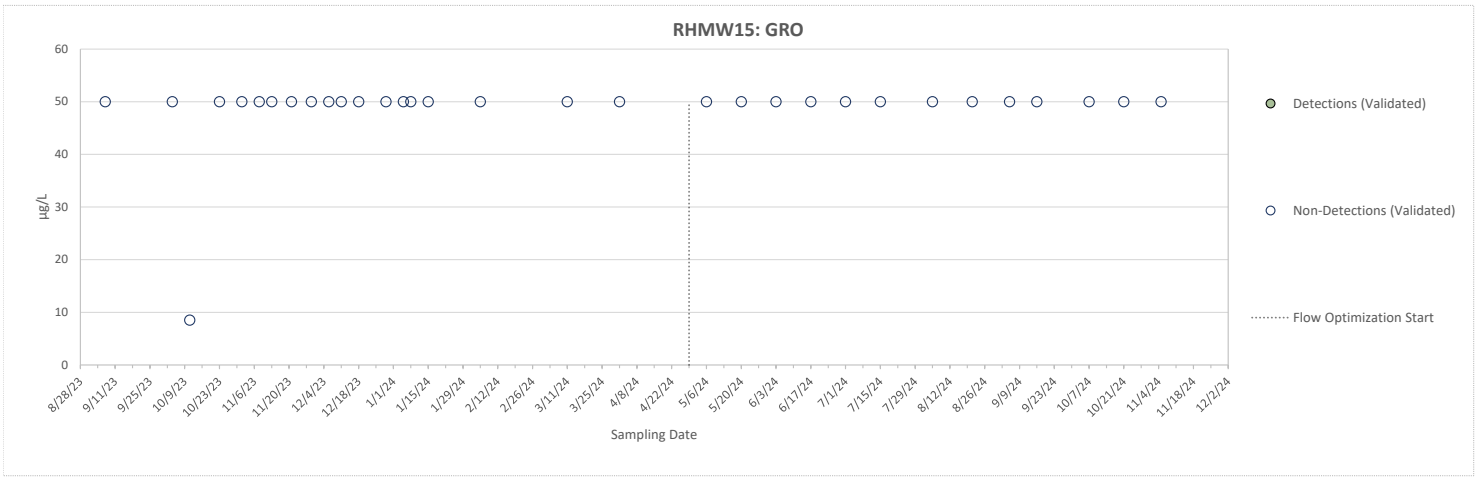

RHMW14: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
120
110
100
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

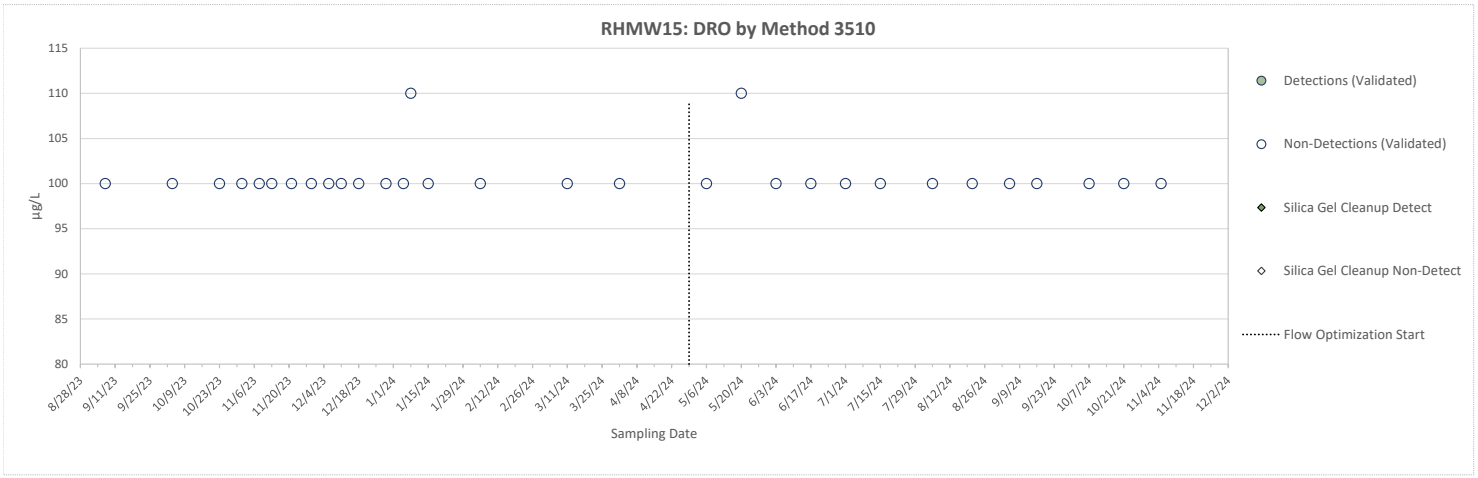


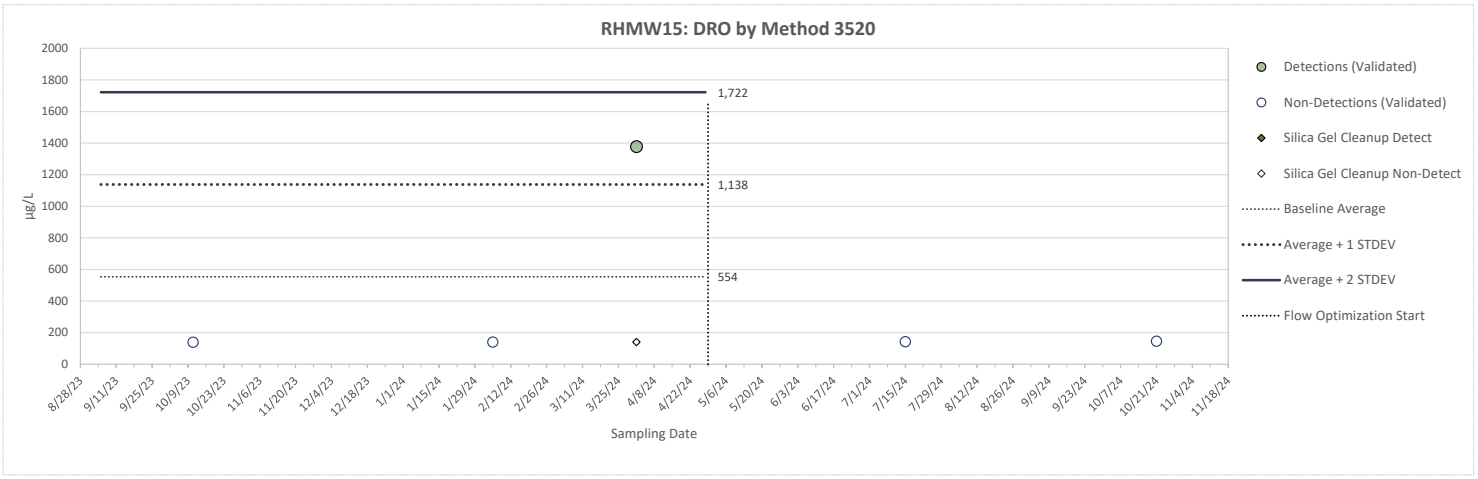


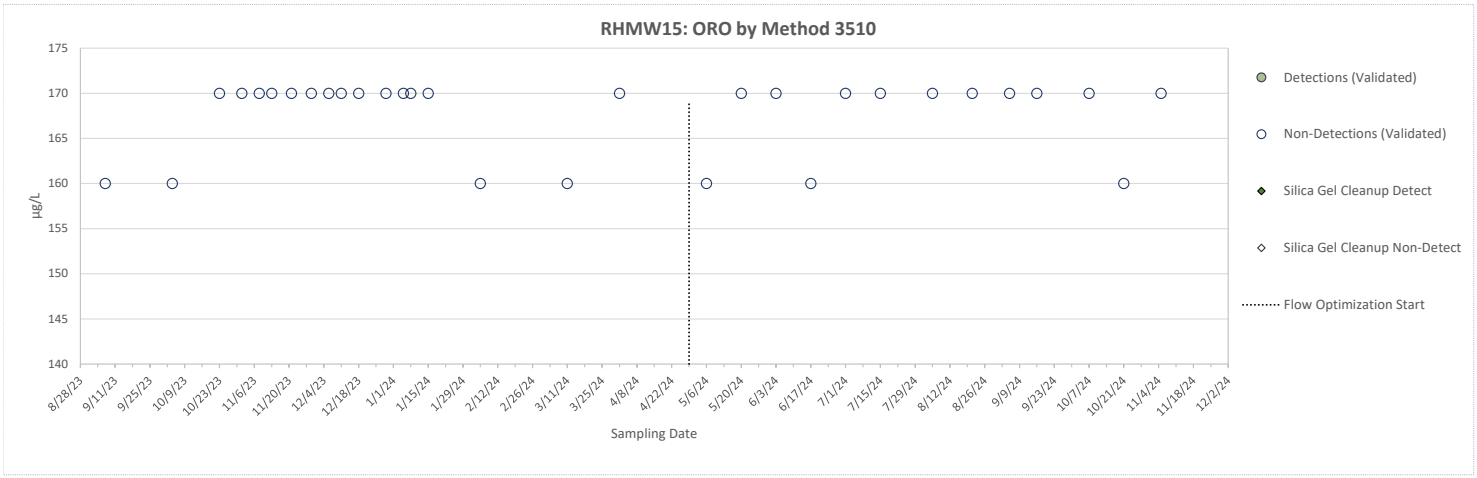


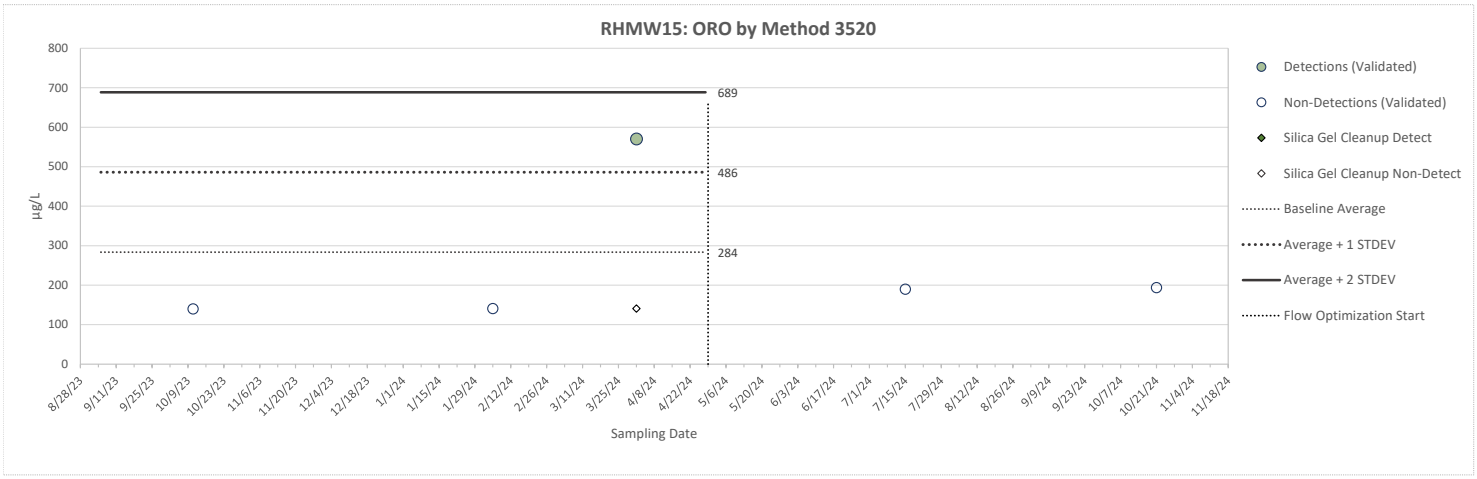
Note: See Data Legend

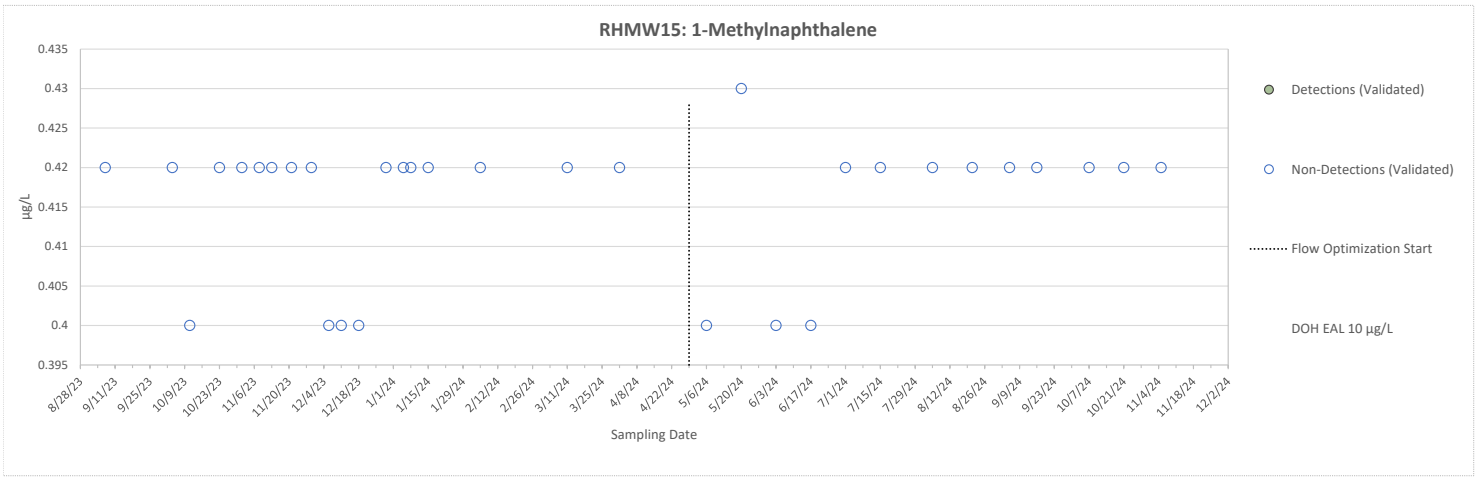

RHMW15: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

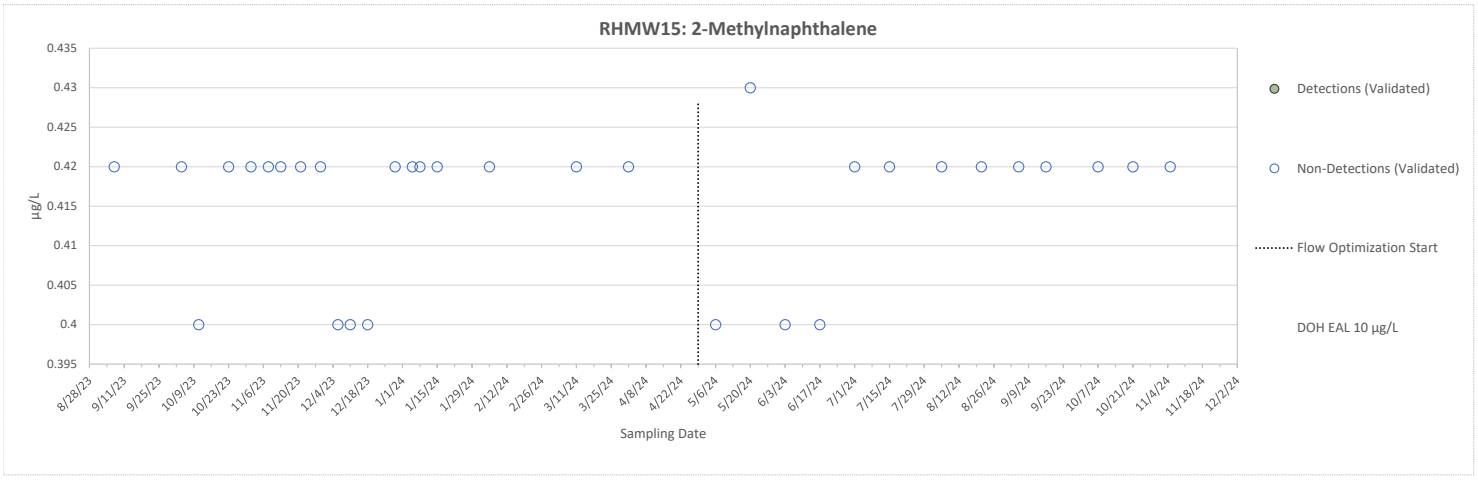

RHMW15: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

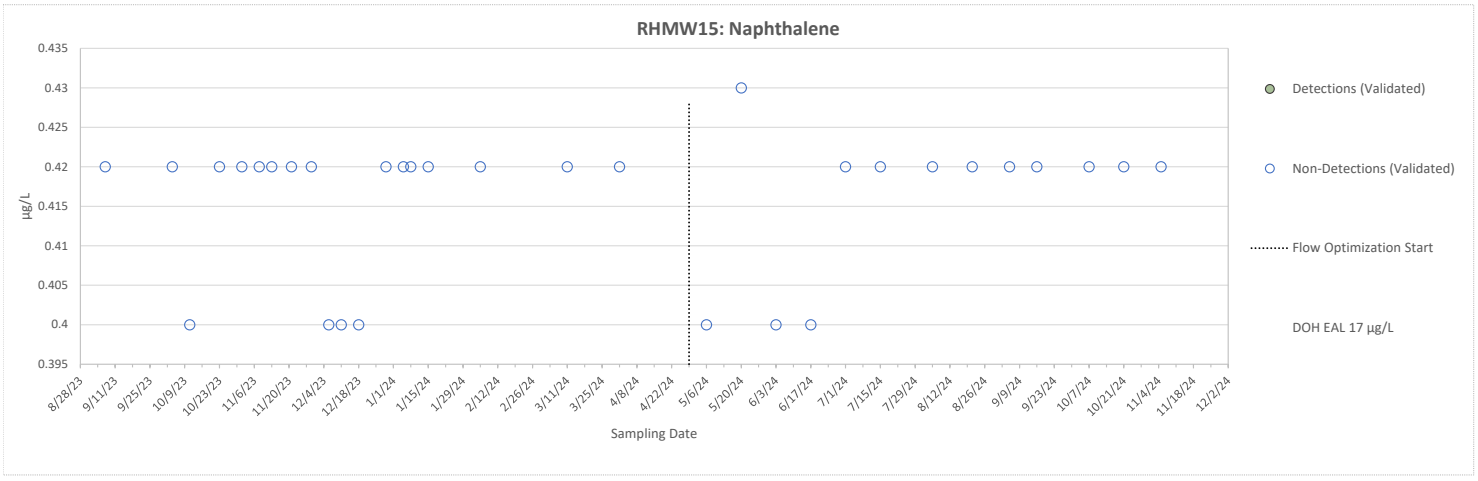

RHMW15: DRO by Method 3520
µg/L
Sampling Date
1,722
1,138
554
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW15: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

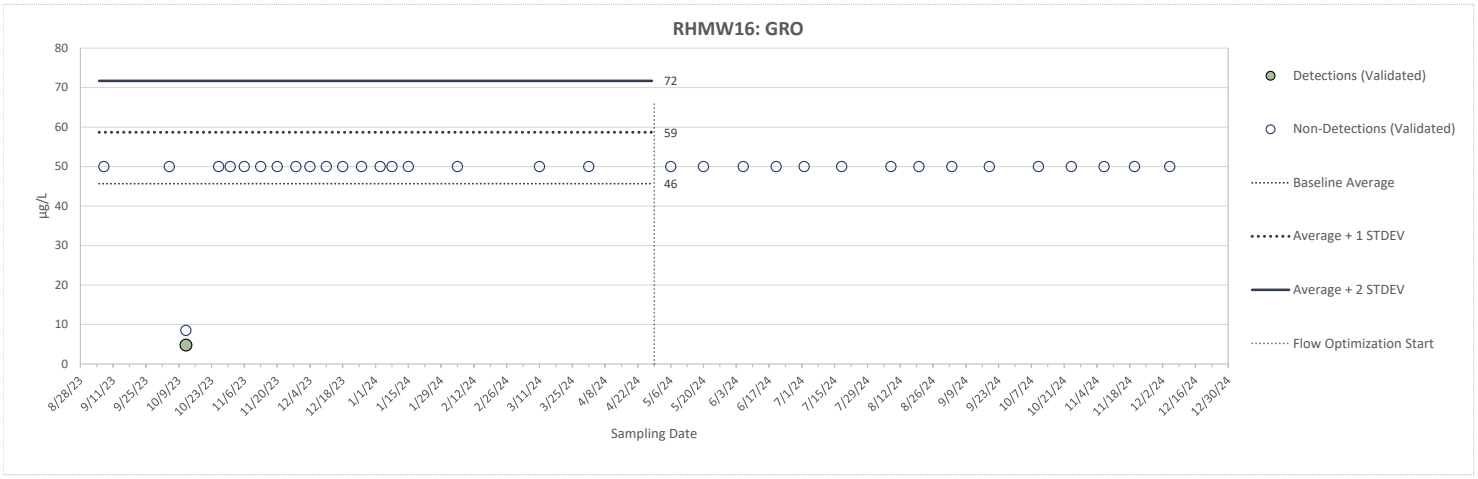

RHMW15: ORO by Method 3520
µg/L
800
700
600
500
400
300
200
100
0
689
486
284
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

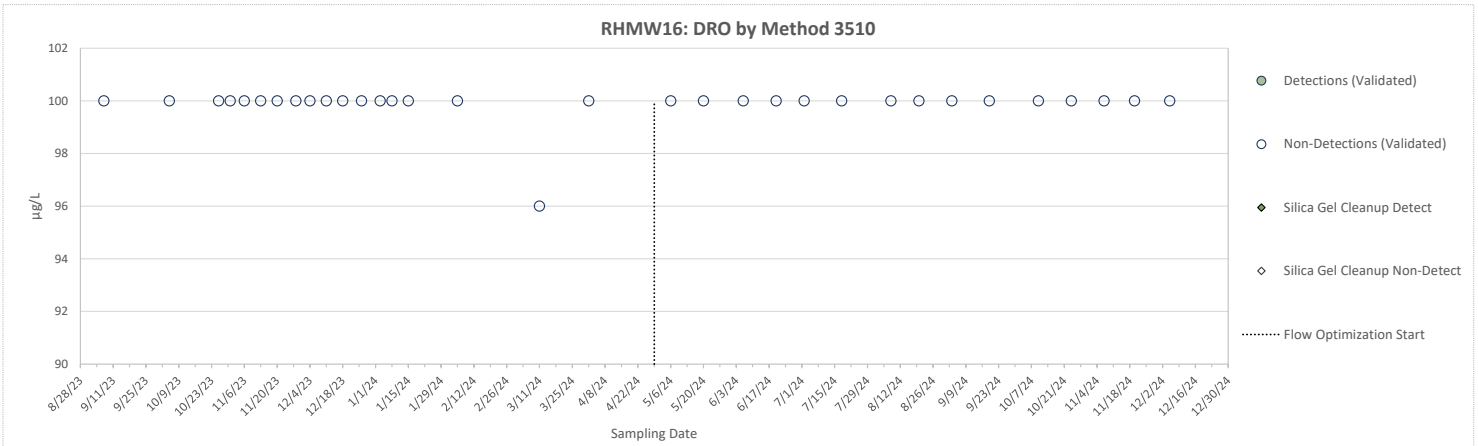


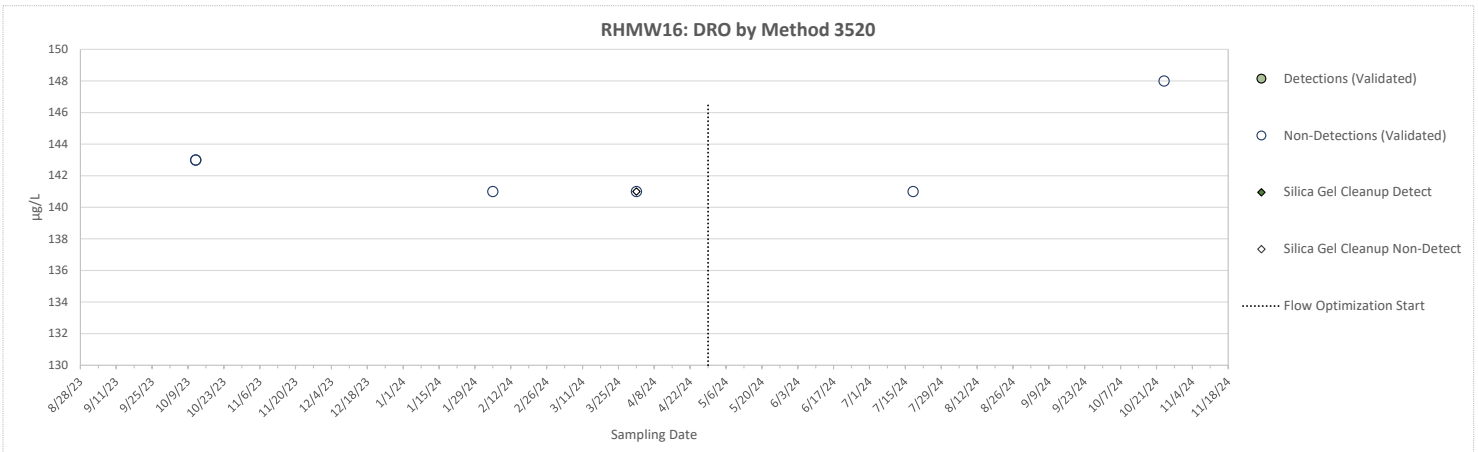


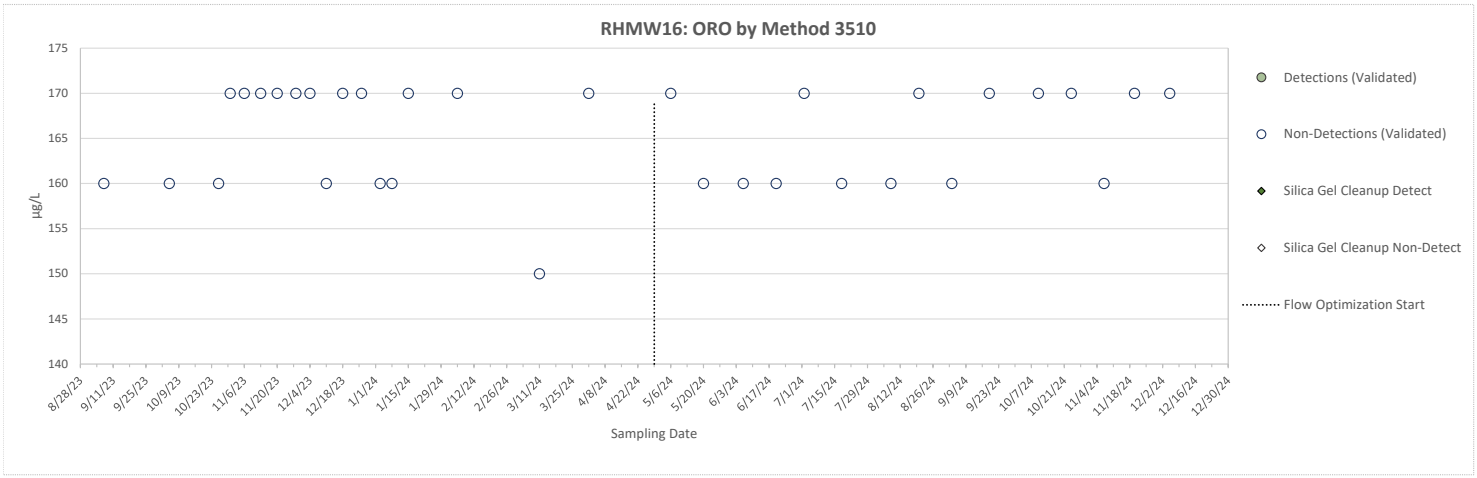


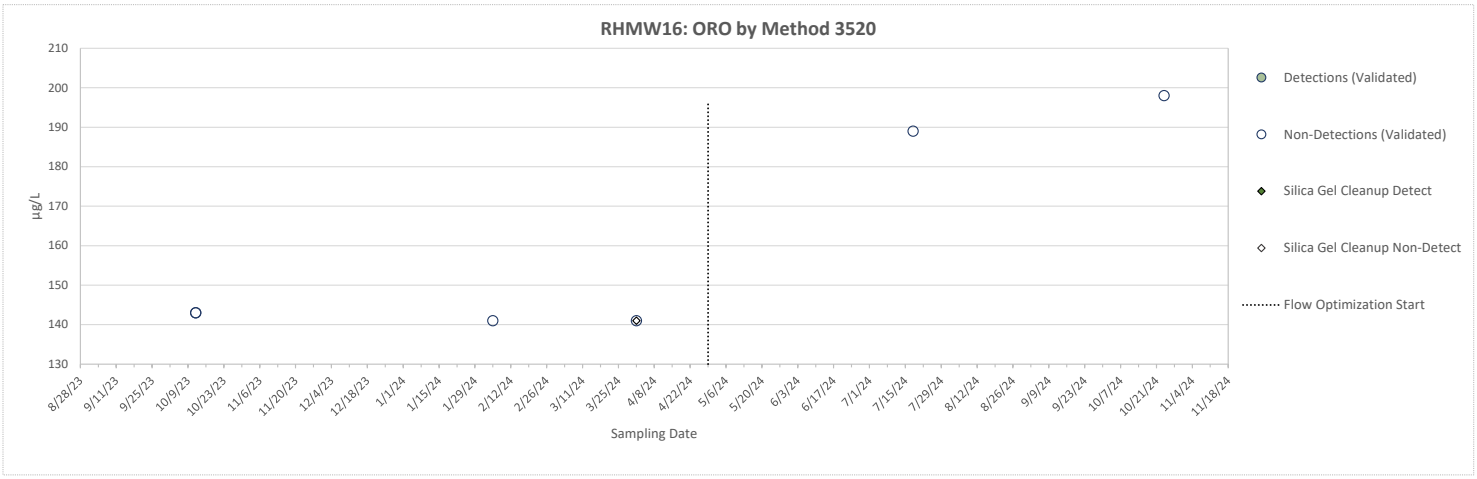
Note: See Data Legend

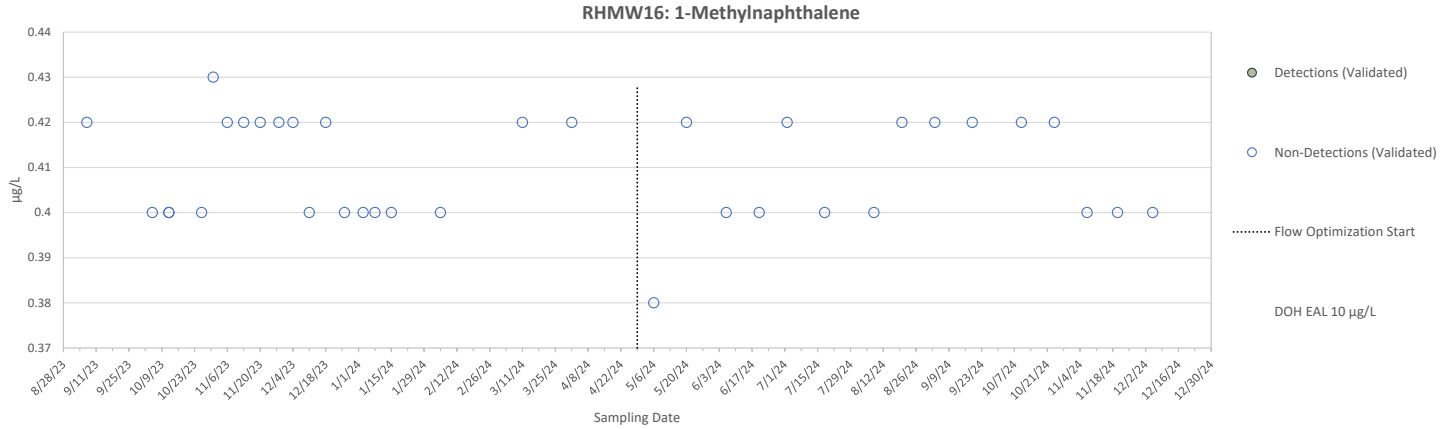

RHMW16: GRO
µg/L
Sampling Date
72
59
46
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

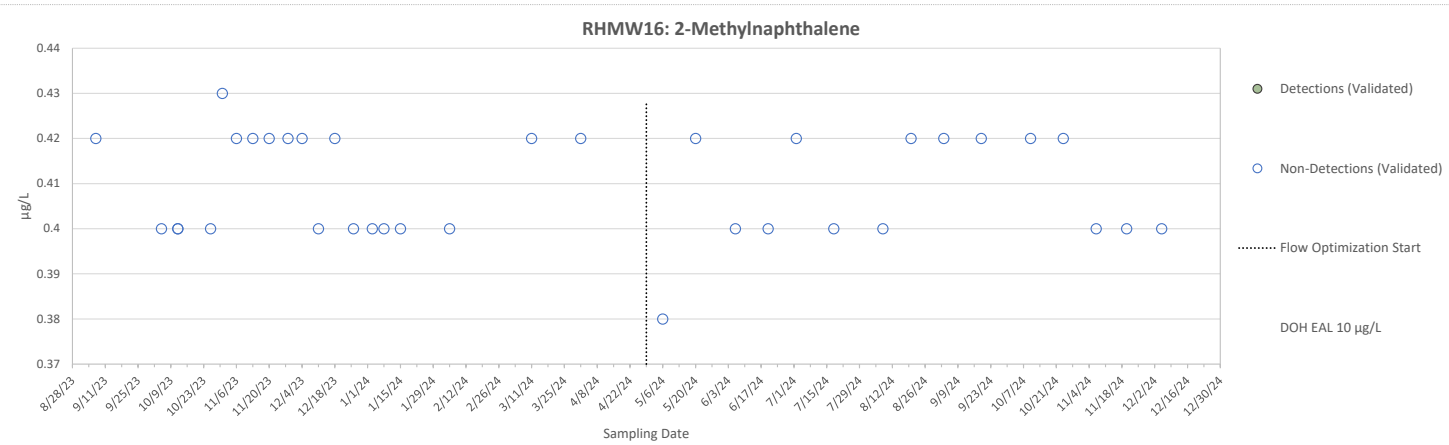

RHMW16: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

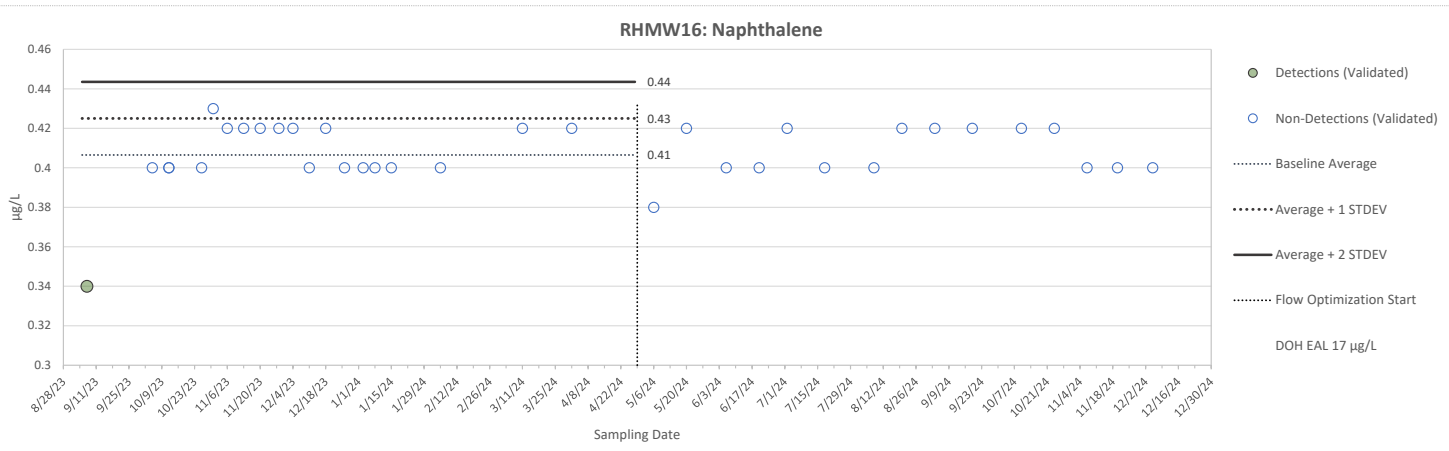

RHMW16: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW16: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

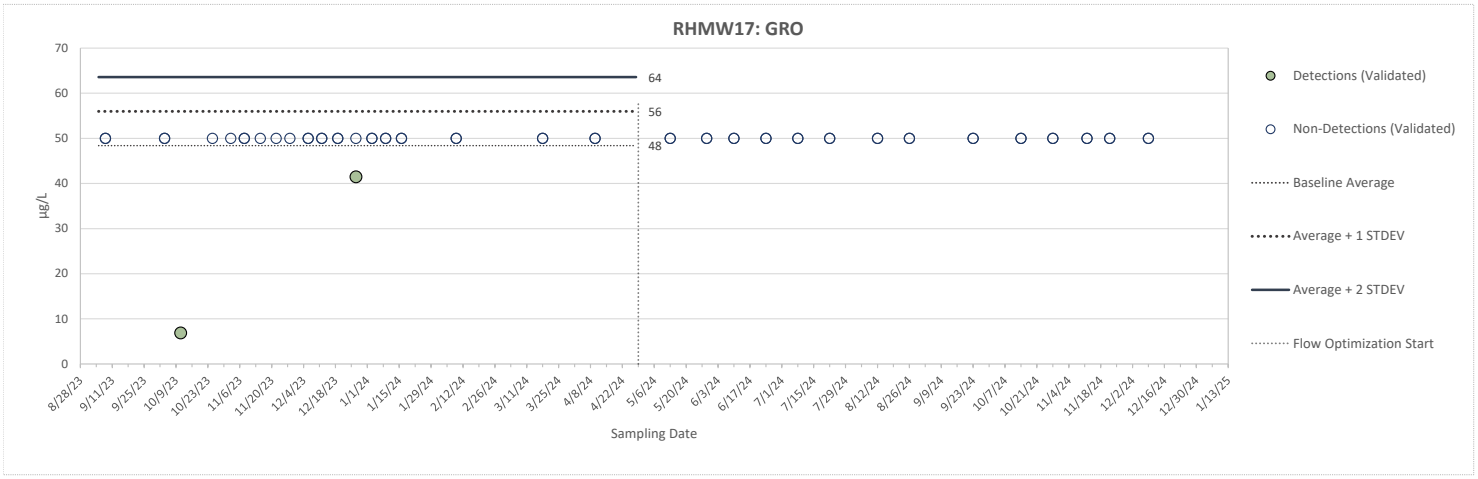

RHMW16: ORO by Method 3520
µg/L
210
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

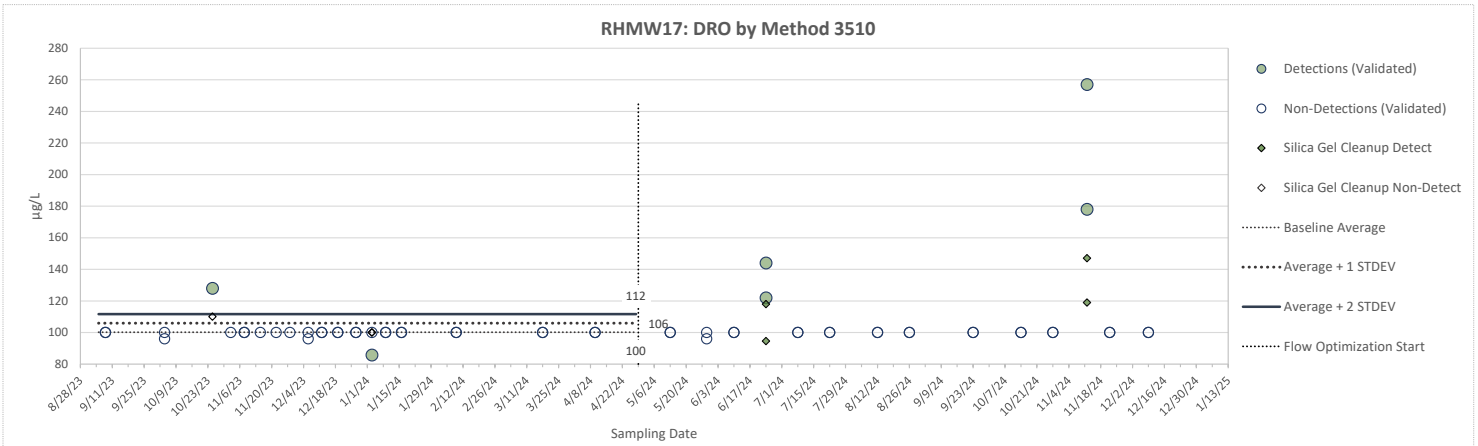


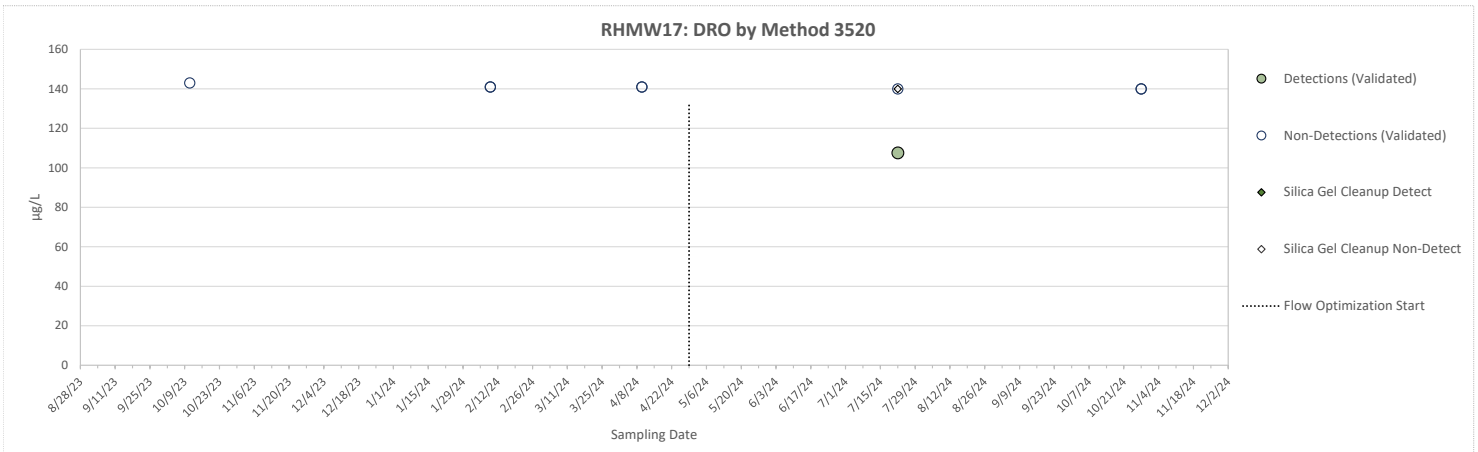


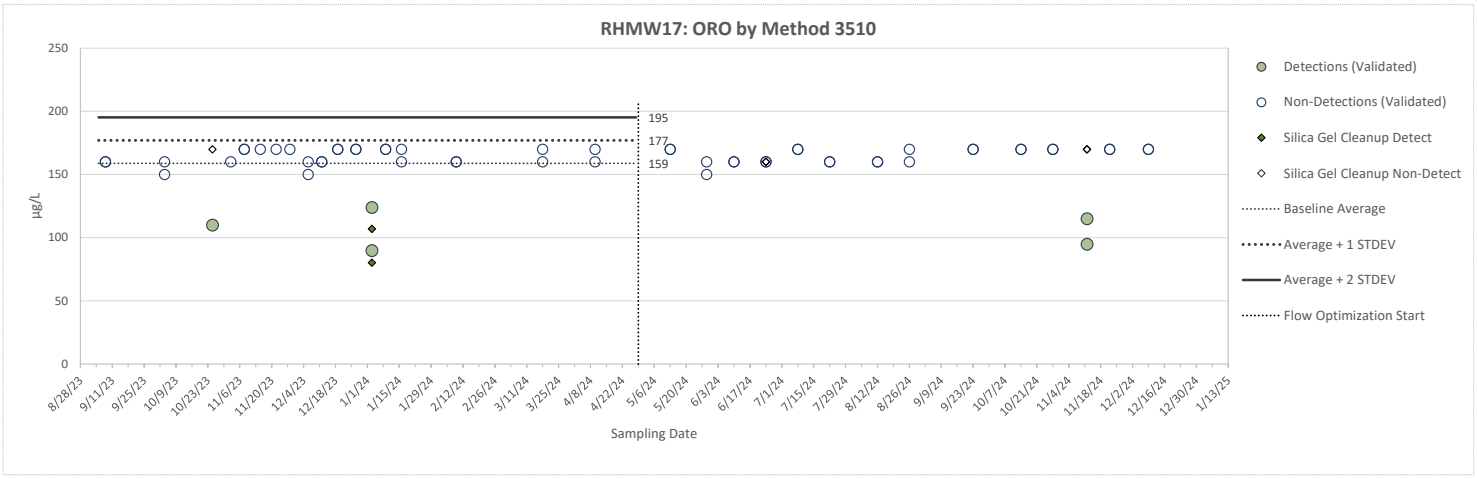


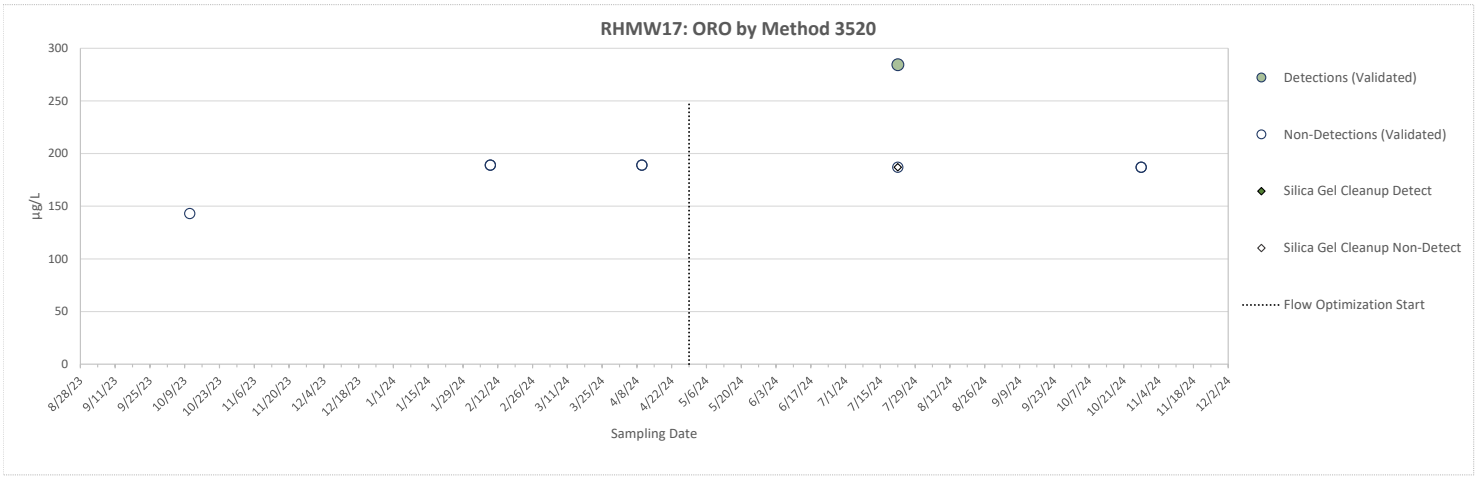
Note: See Data Legend

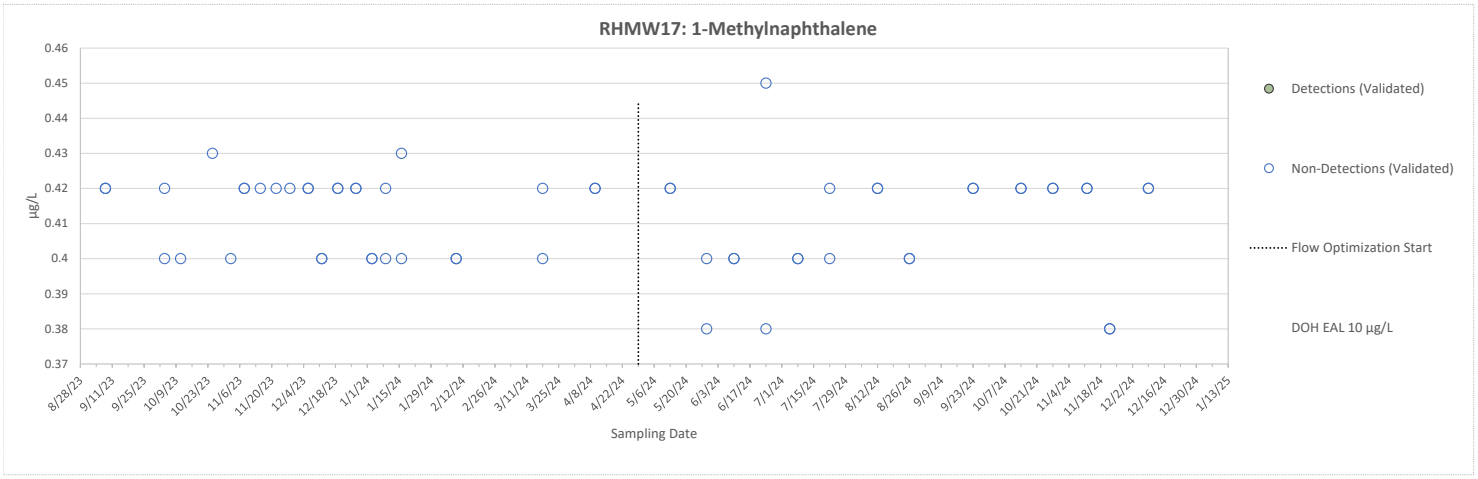

RHMW17: GRO
µg/L
Sampling Date
64
56
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

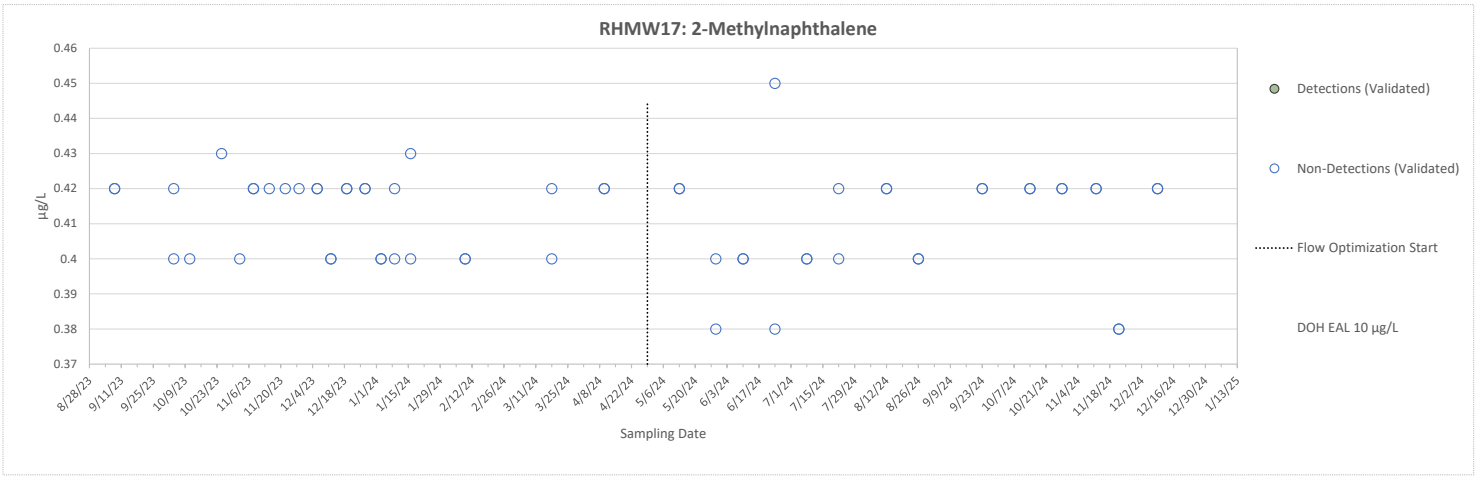

RHMW17: DRO by Method 3510
µg/L
Sampling Date
112
106
100
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

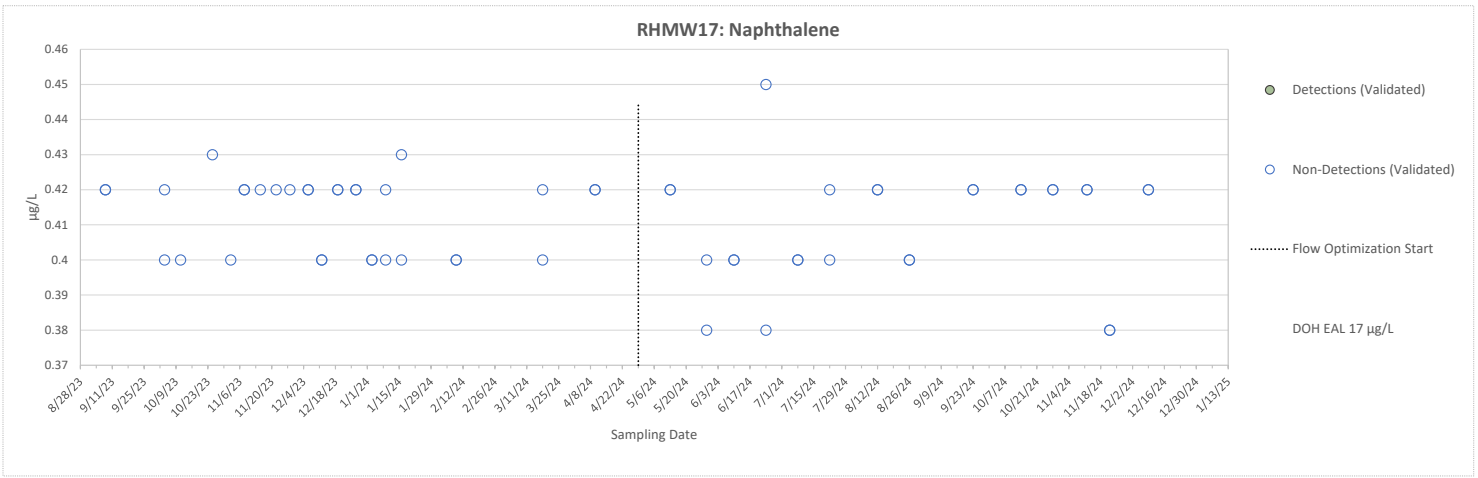

RHMW17: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW17: ORO by Method 3510
µg/L
Sampling Date
195
177
159
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

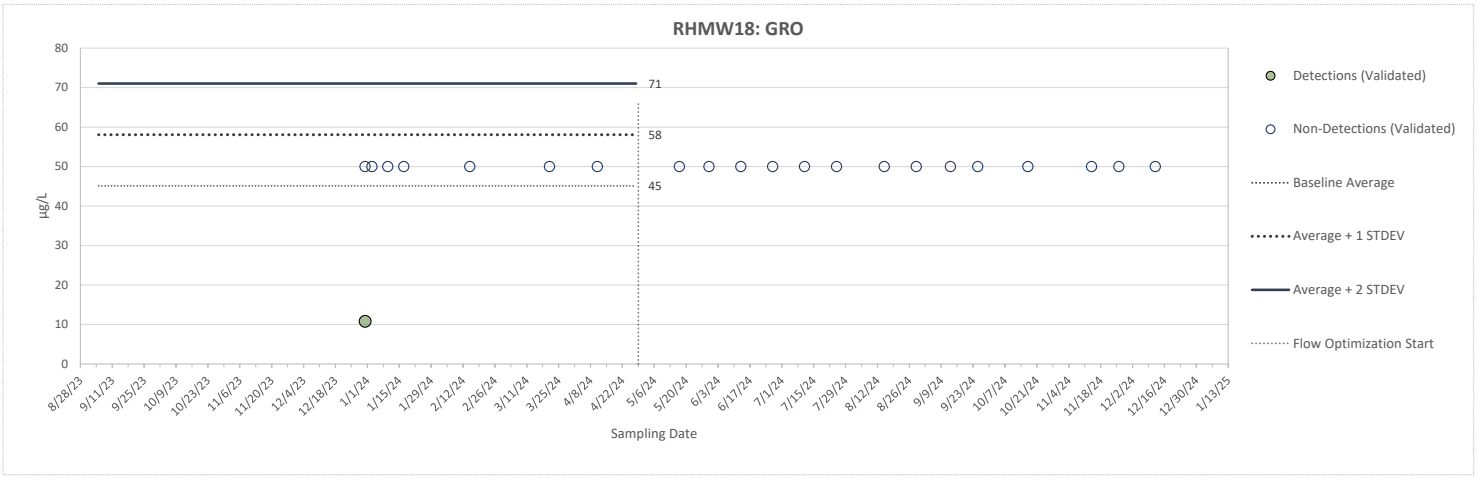

RHMW17: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

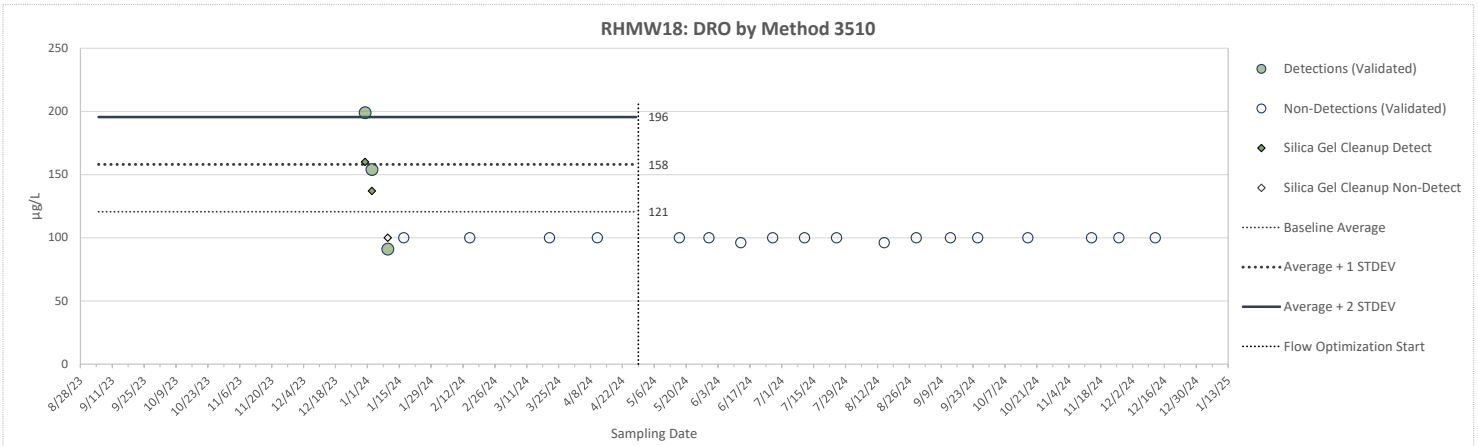


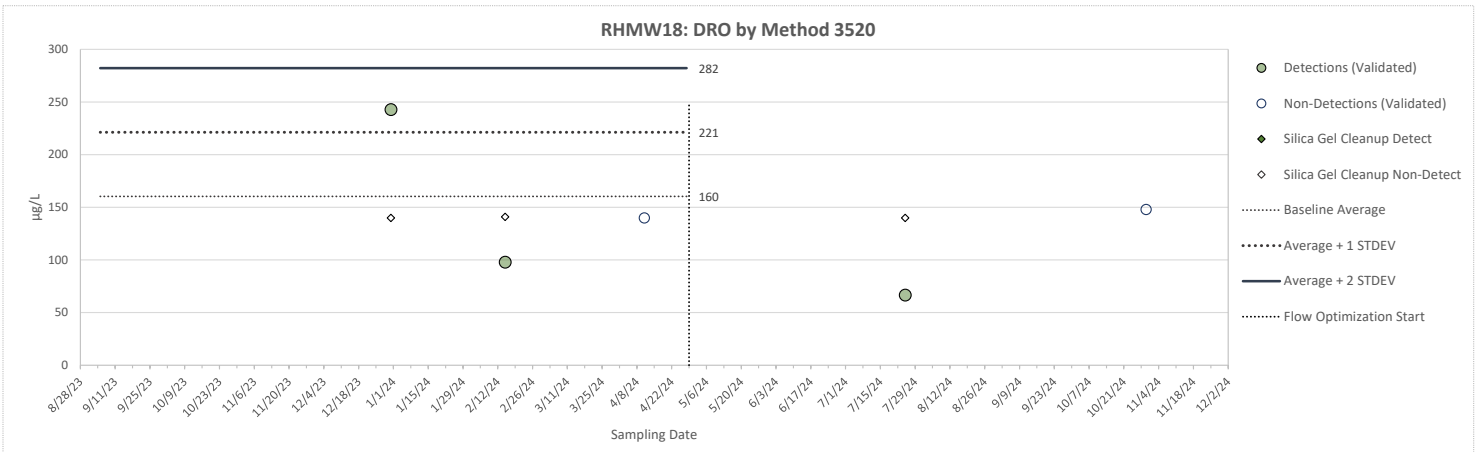


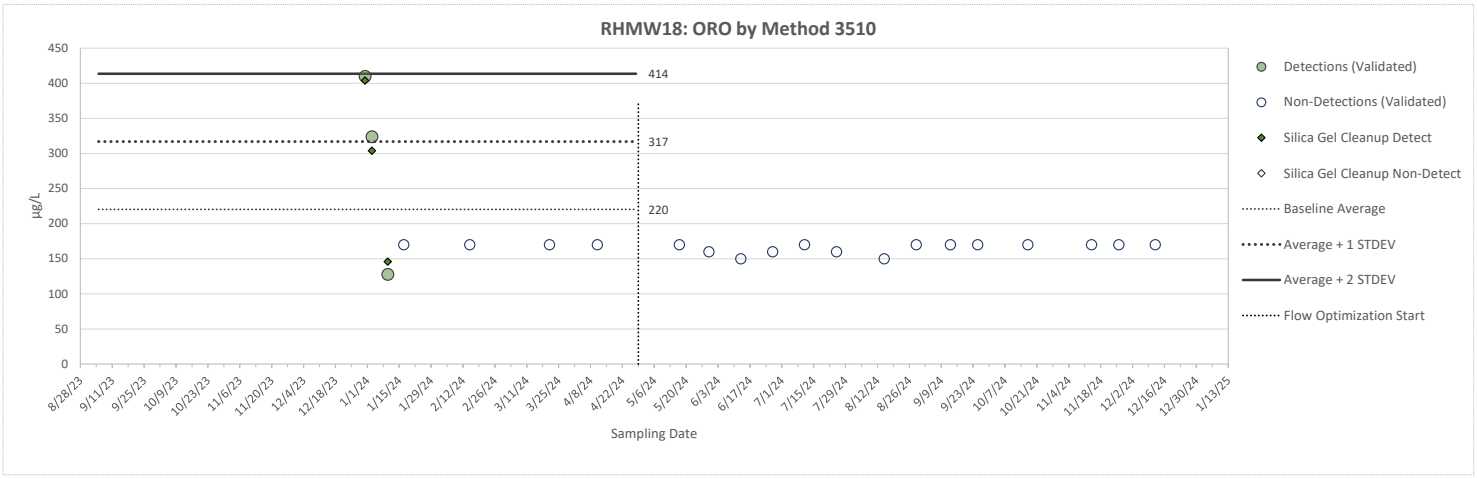


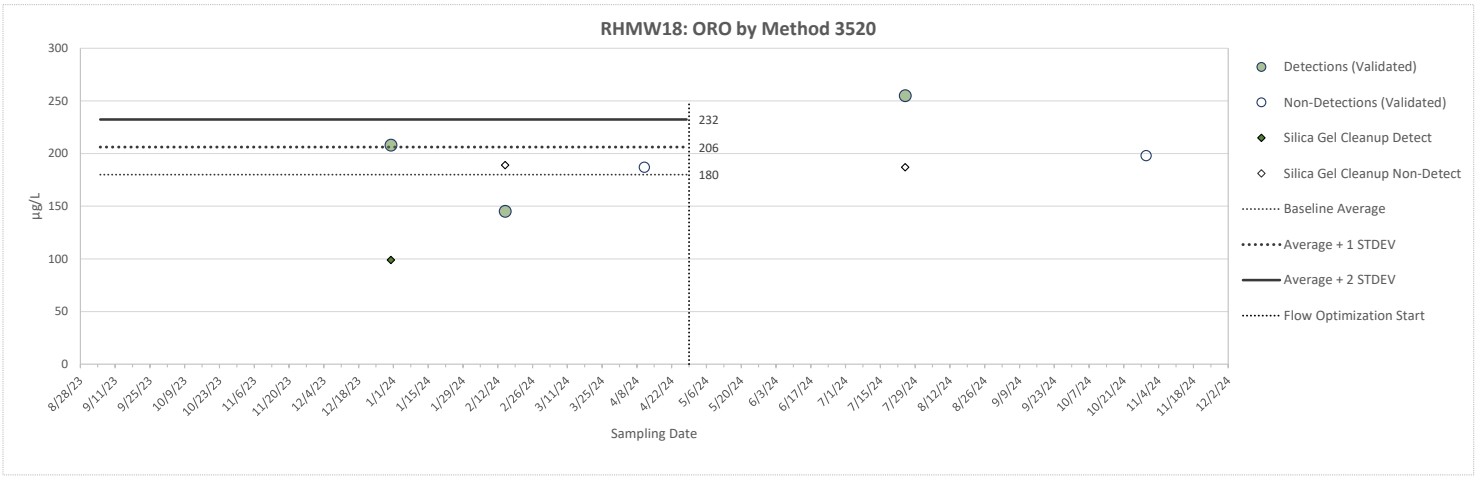
Note: See Data Legend

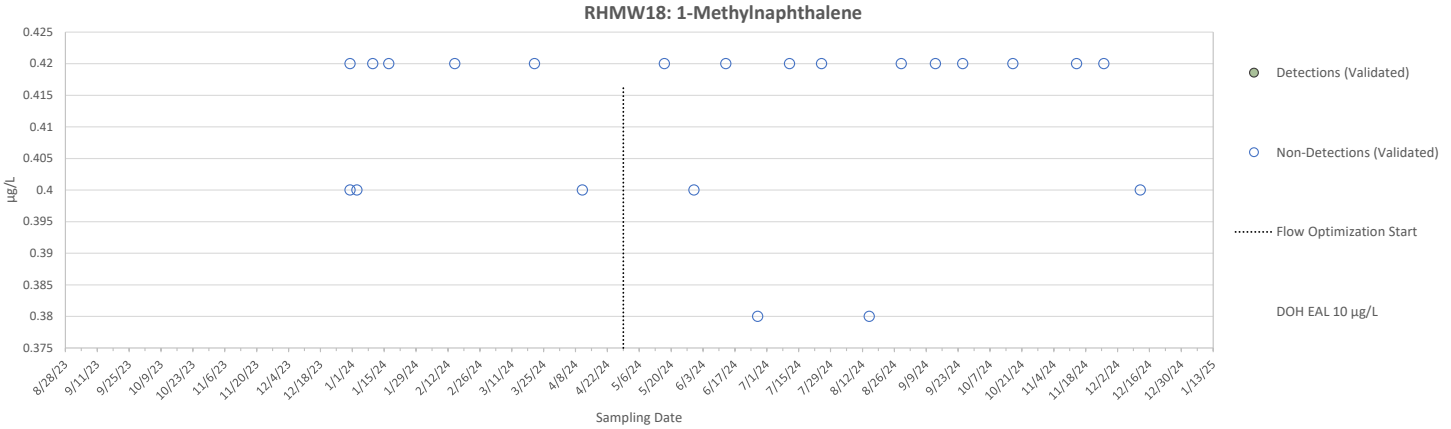

RHMW18: GRO
µg/L
Sampling Date
71
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

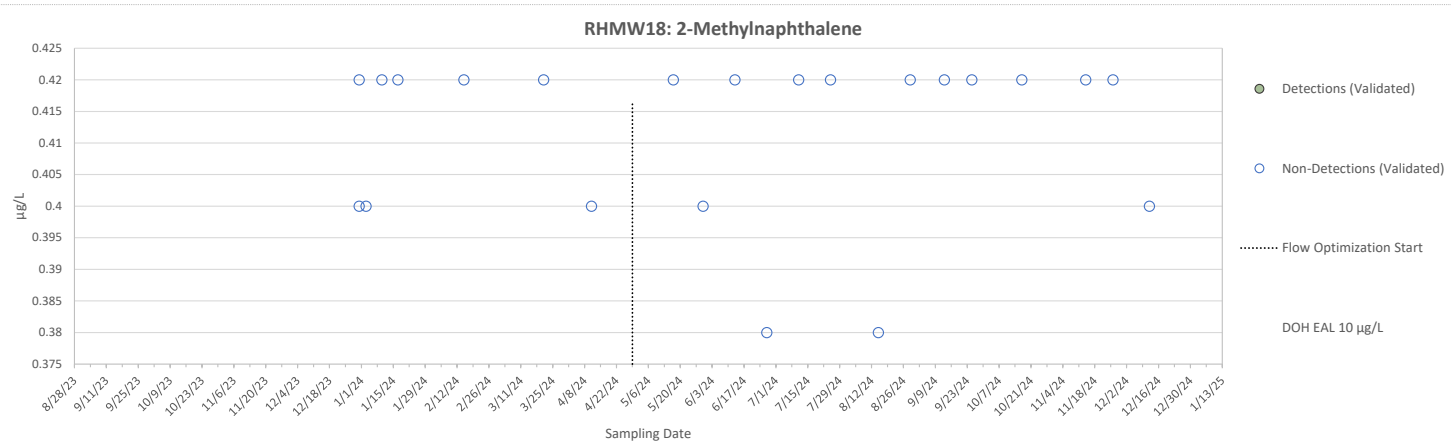

RHMW18: DRO by Method 3510
µg/L
Sampling Date
196
158
121
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

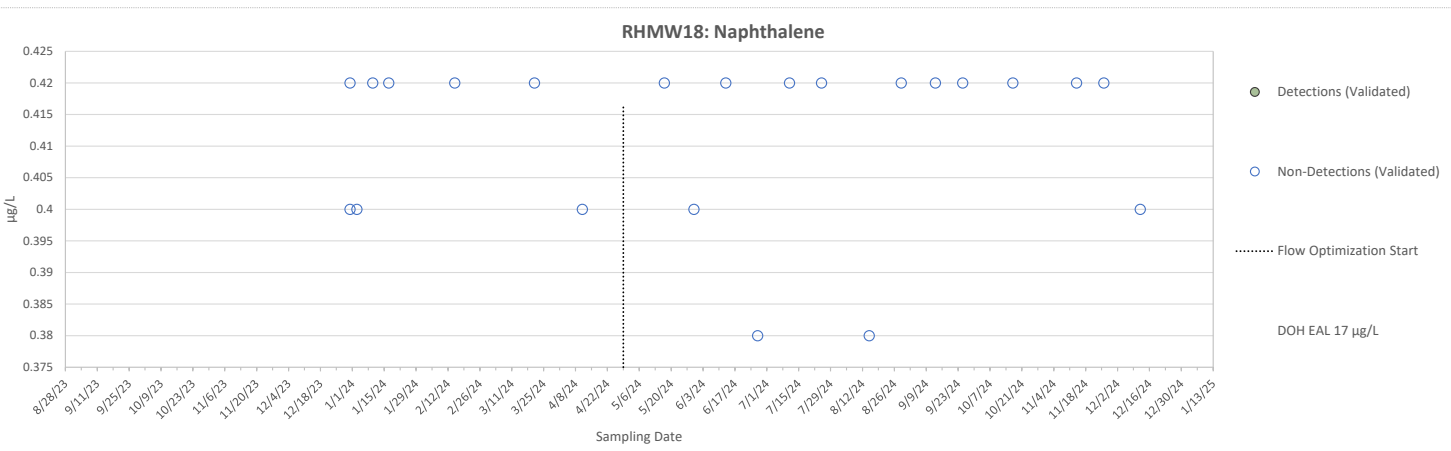

RHMW18: DRO by Method 3520
µg/L
Sampling Date
282
221
160
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW18: ORO by Method 3510
µg/L
Sampling Date
414
317
220
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

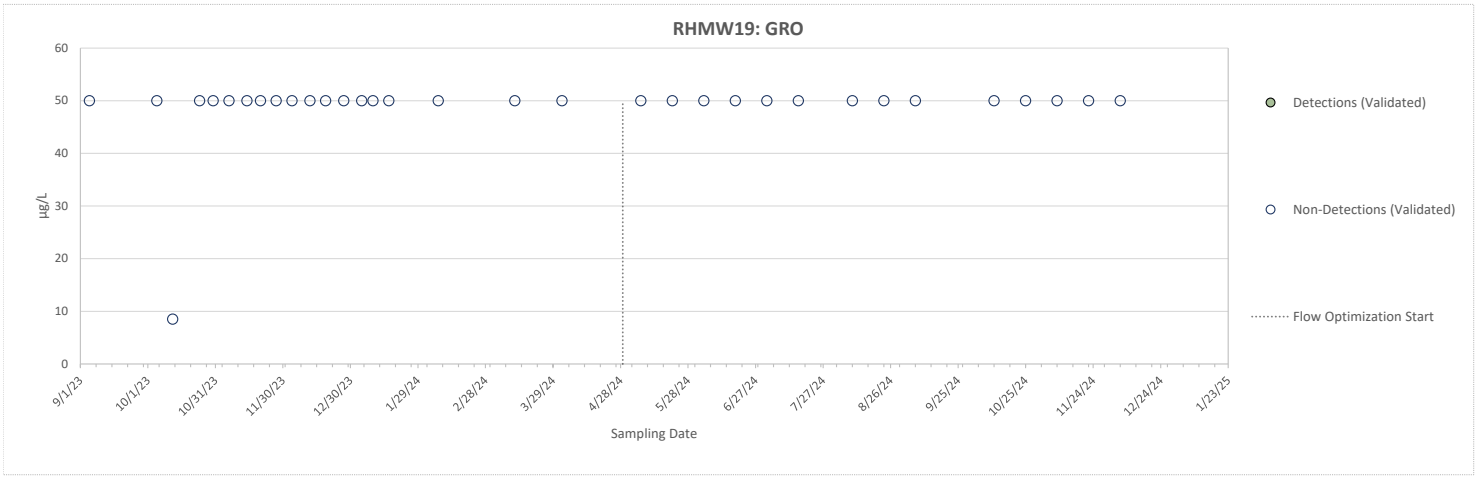

RHMW18: ORO by Method 3520
µg/L
Sampling Date
232
206
180
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

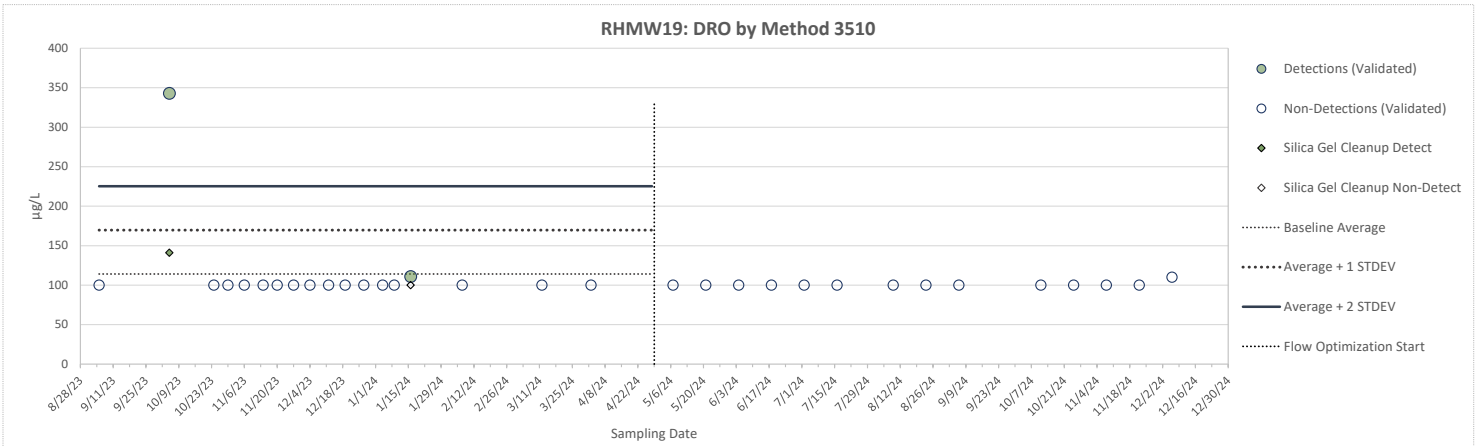


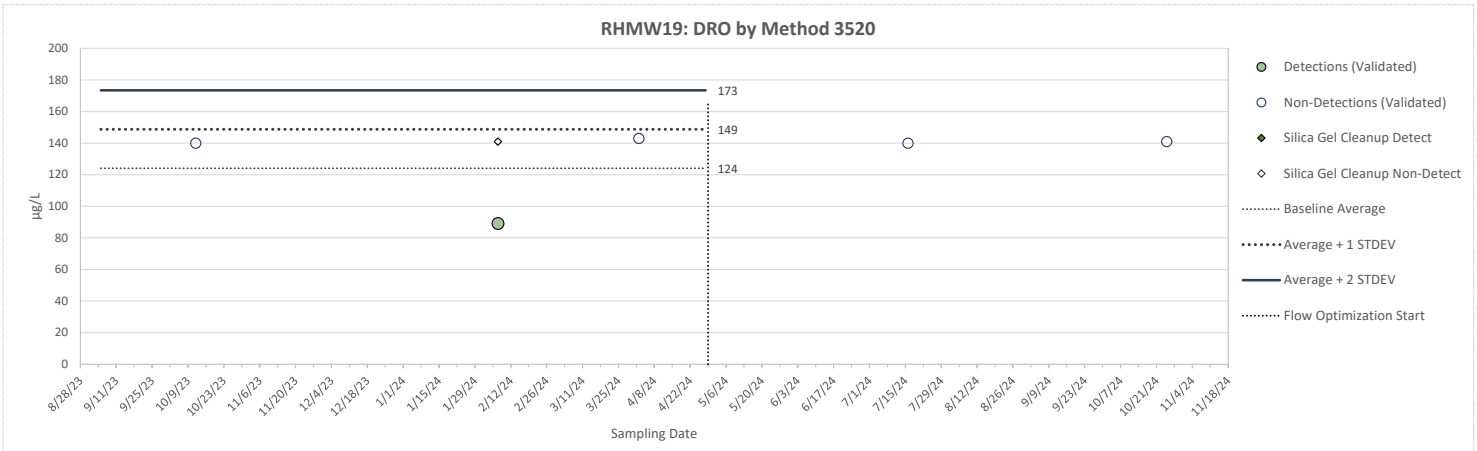


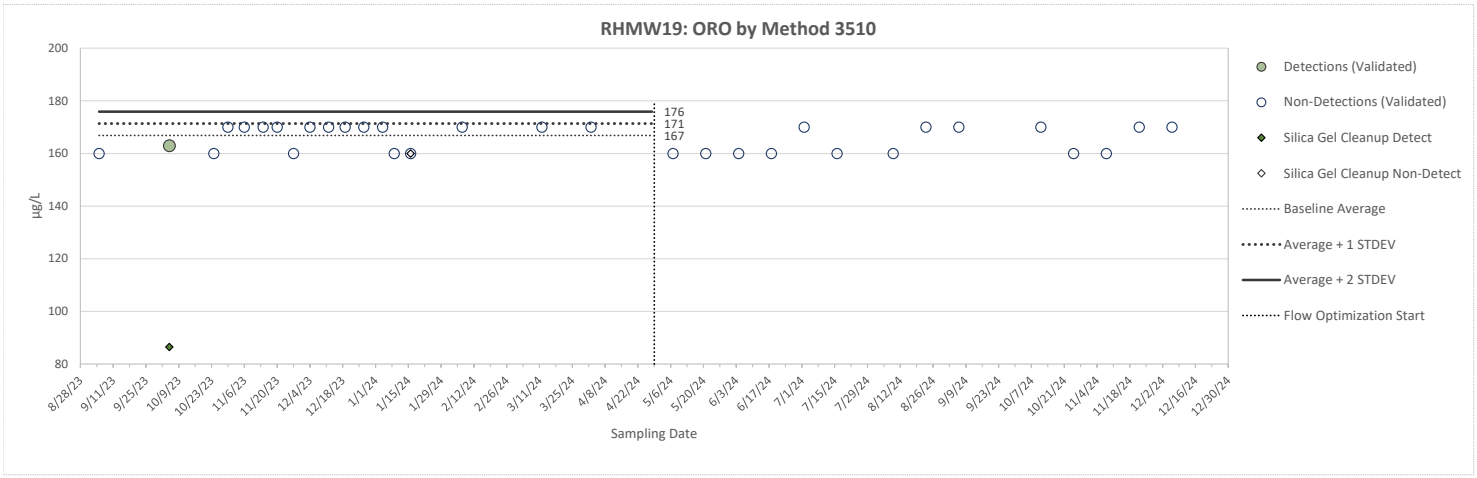


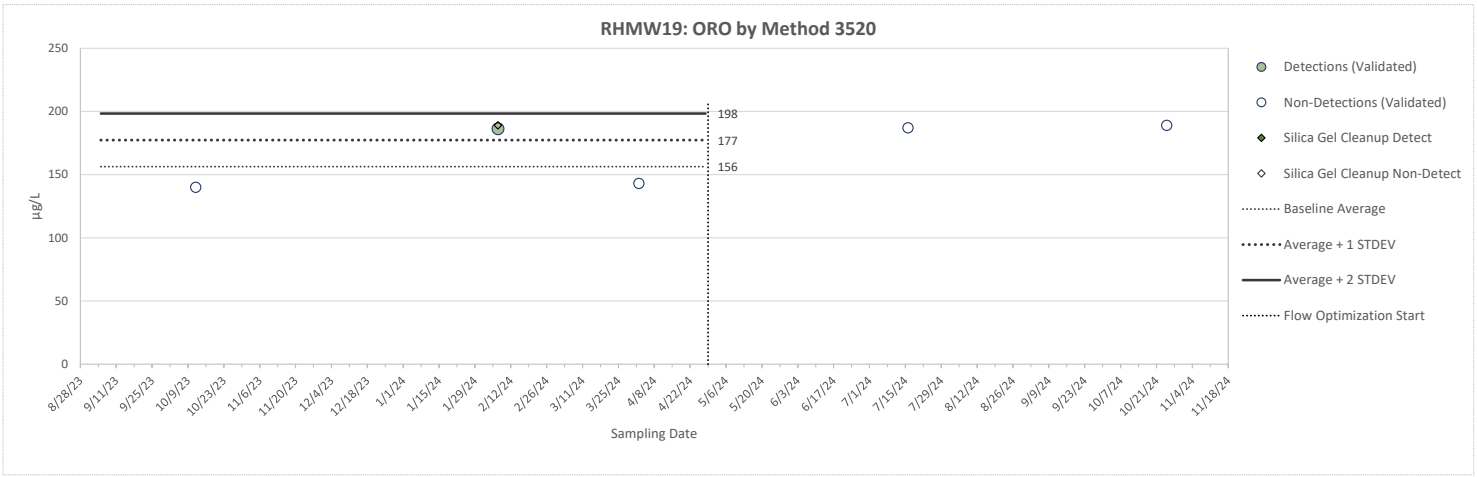
Note: See Data Legend

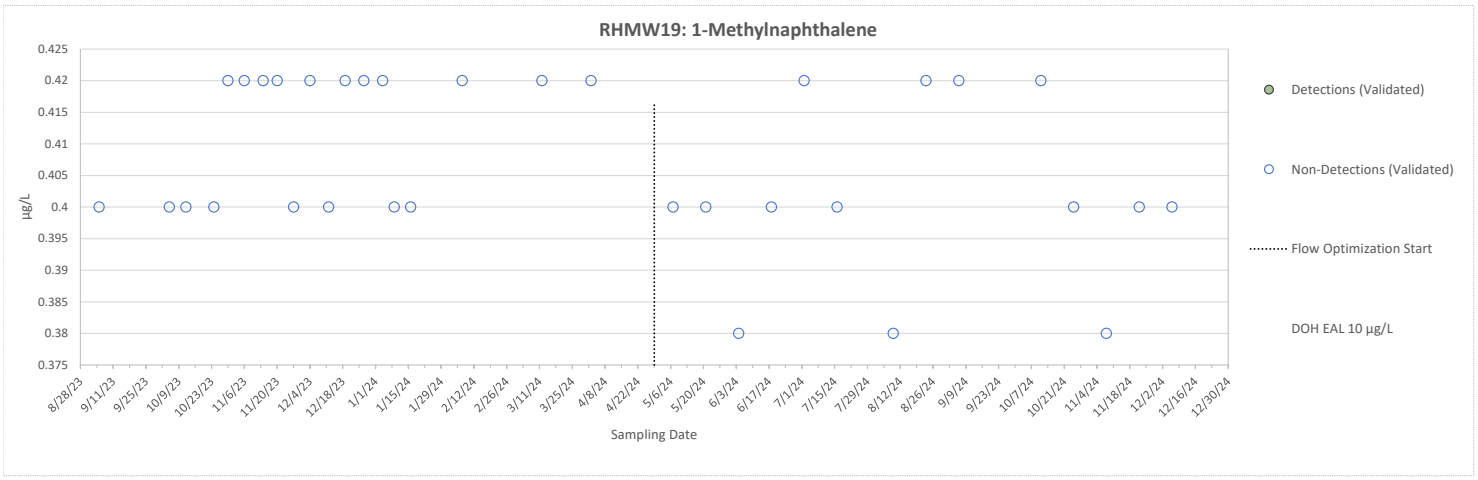

RHMW19: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

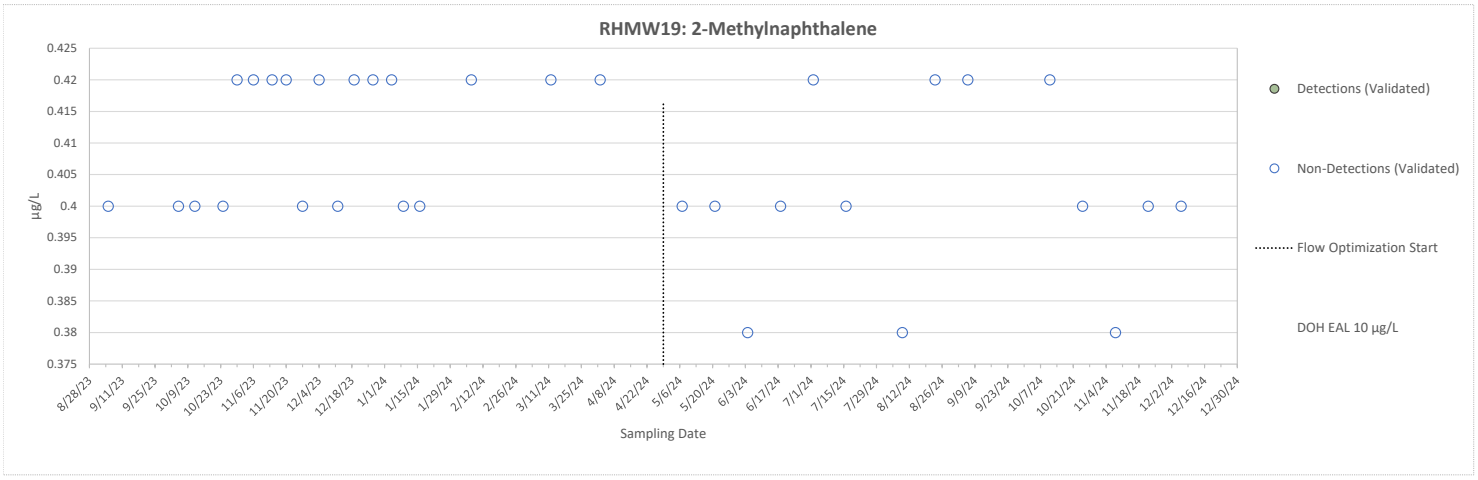

RHMW19: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

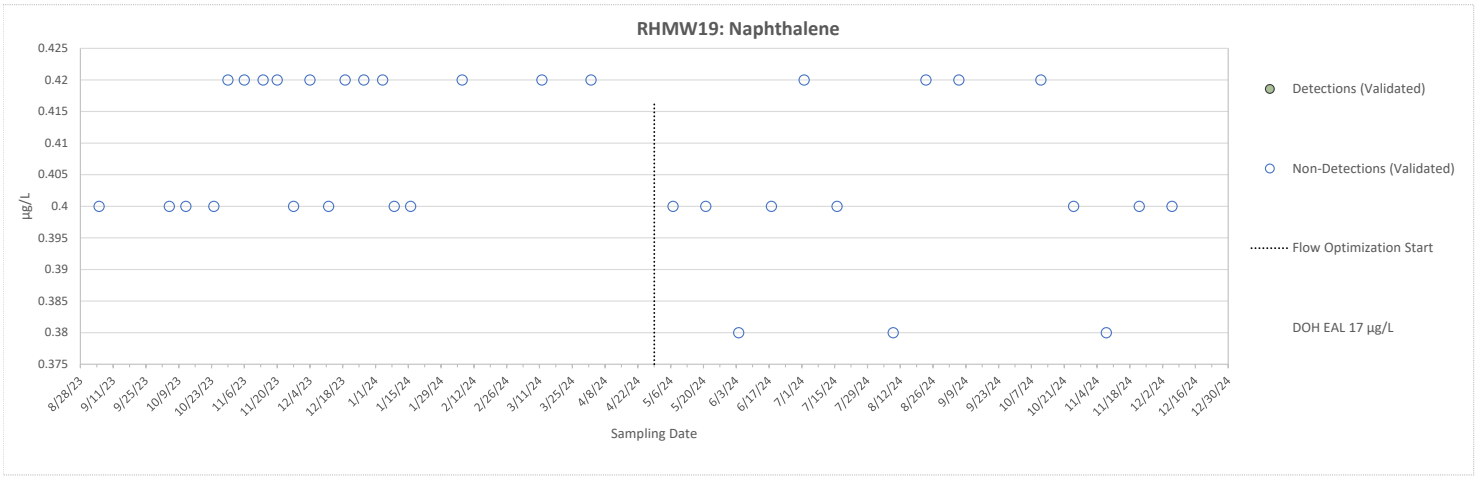

RHMW19: DRO by Method 3520
µg/L
Sampling Date
173
149
124
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW19: ORO by Method 3510
µg/L
Sampling Date
176
171
167
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

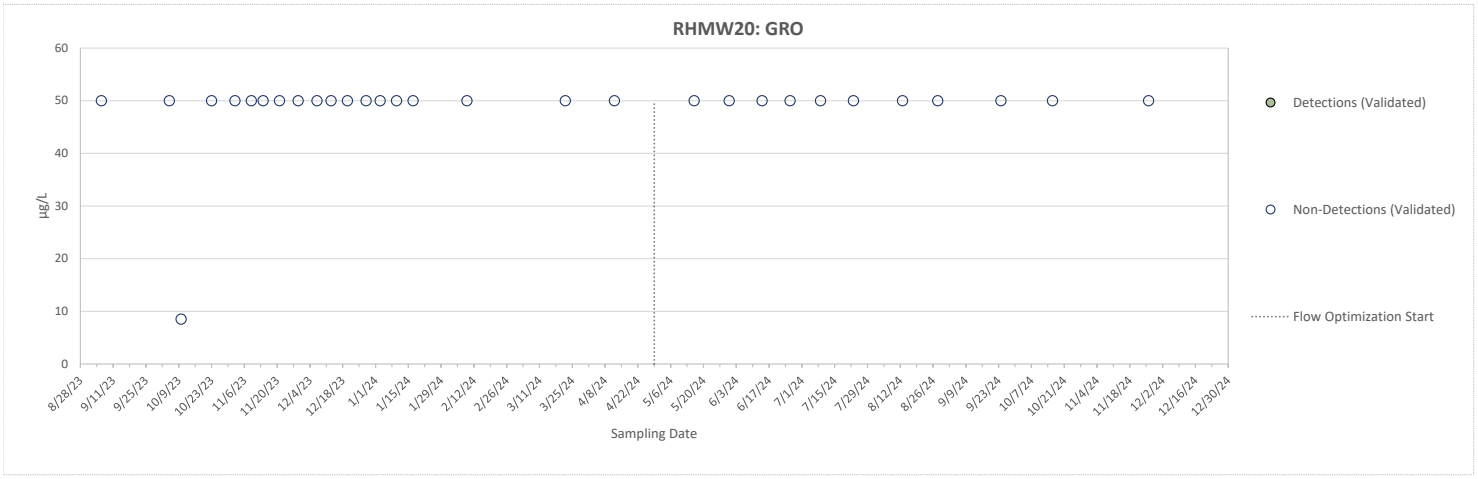

RHMW19: ORO by Method 3520
µg/L
Sampling Date
198
177
156
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

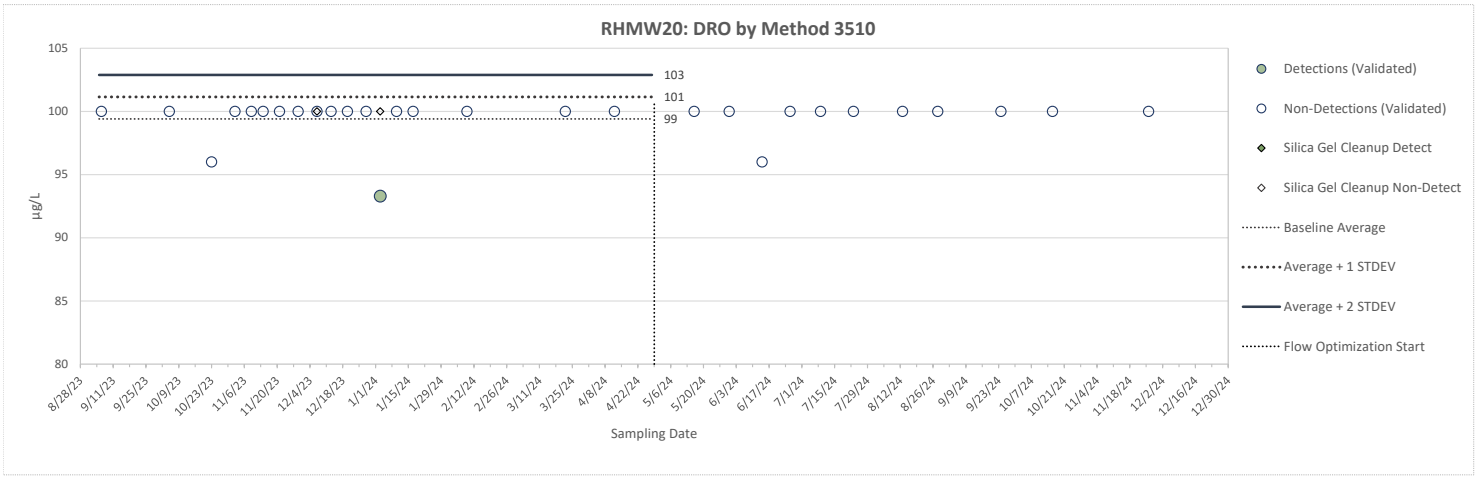


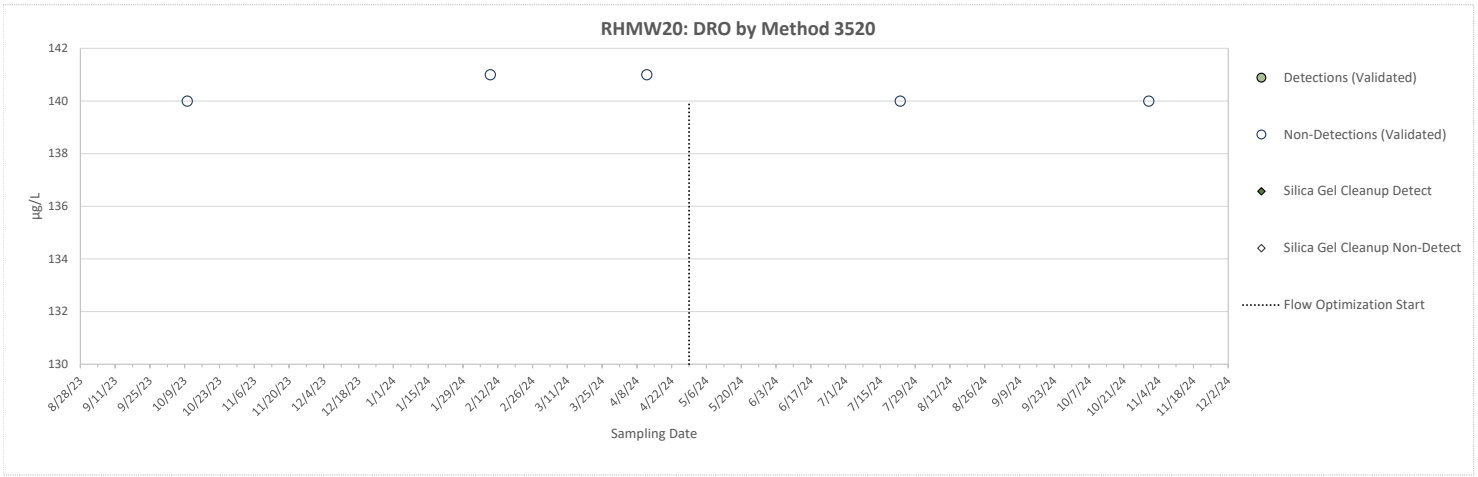


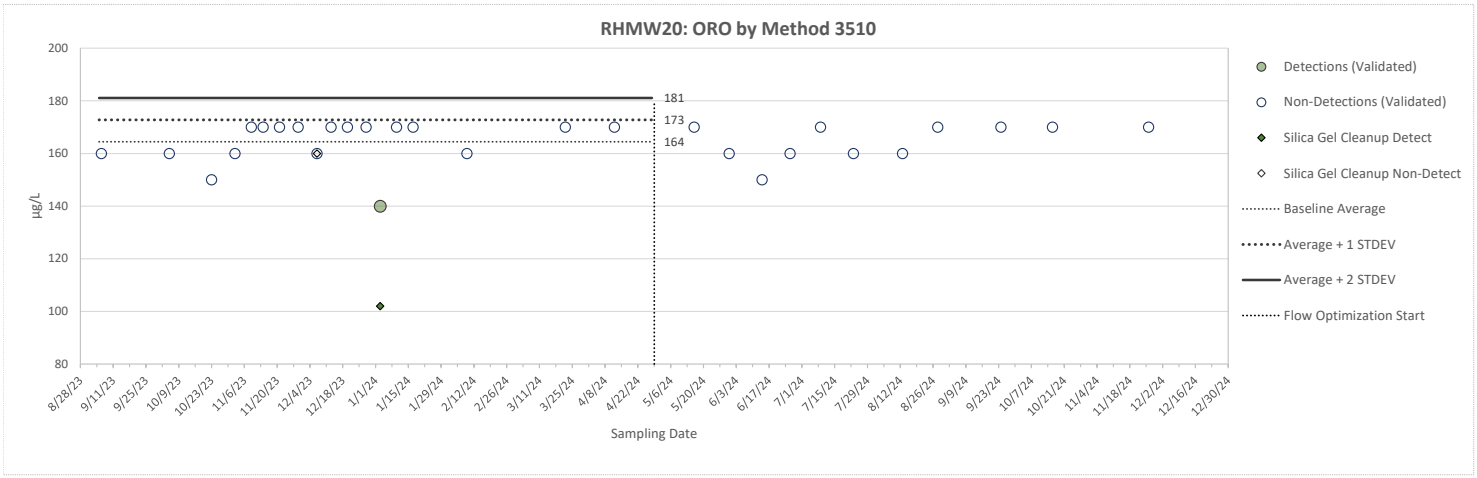


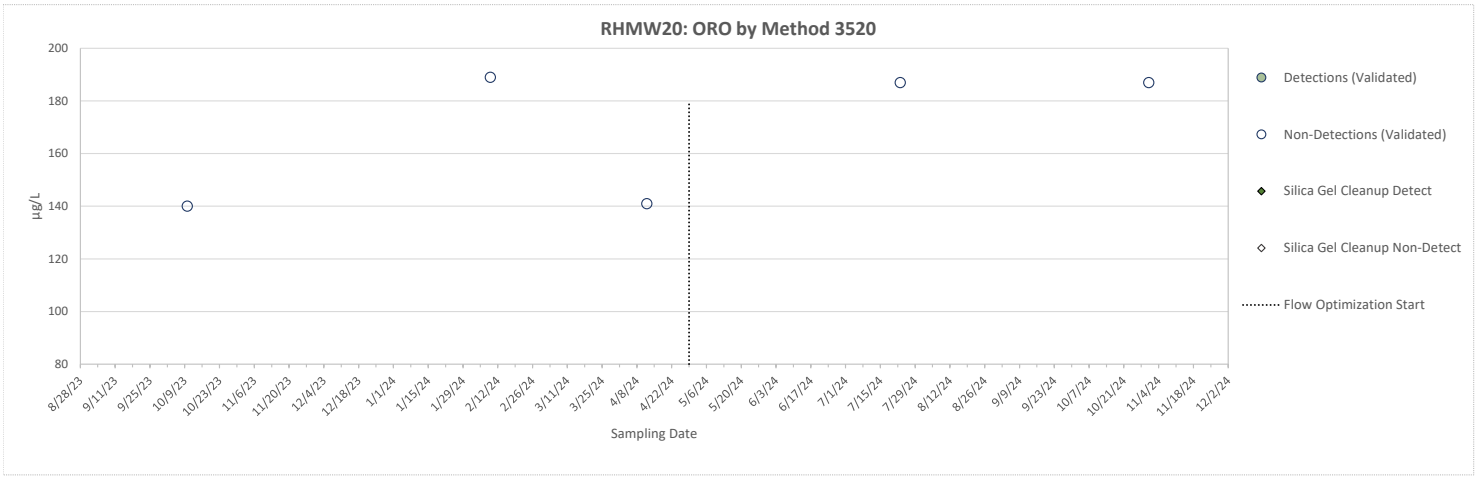
Note: See Data Legend

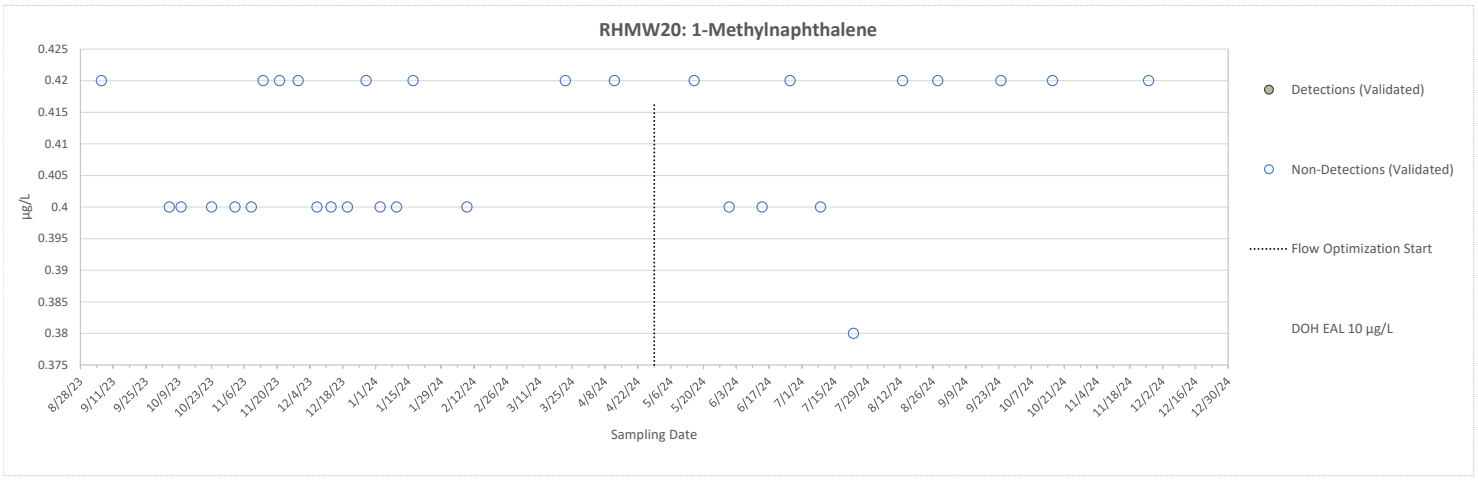

RHMW20: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

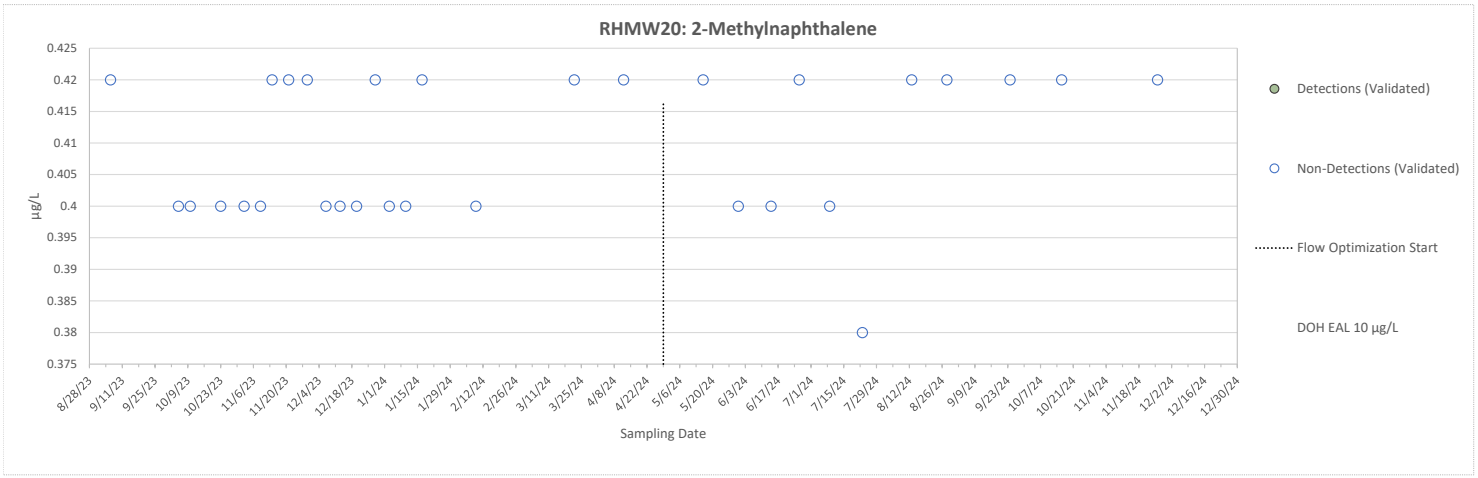

RHMW20: DRO by Method 3510
µg/L
Sampling Date
103
101
99
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

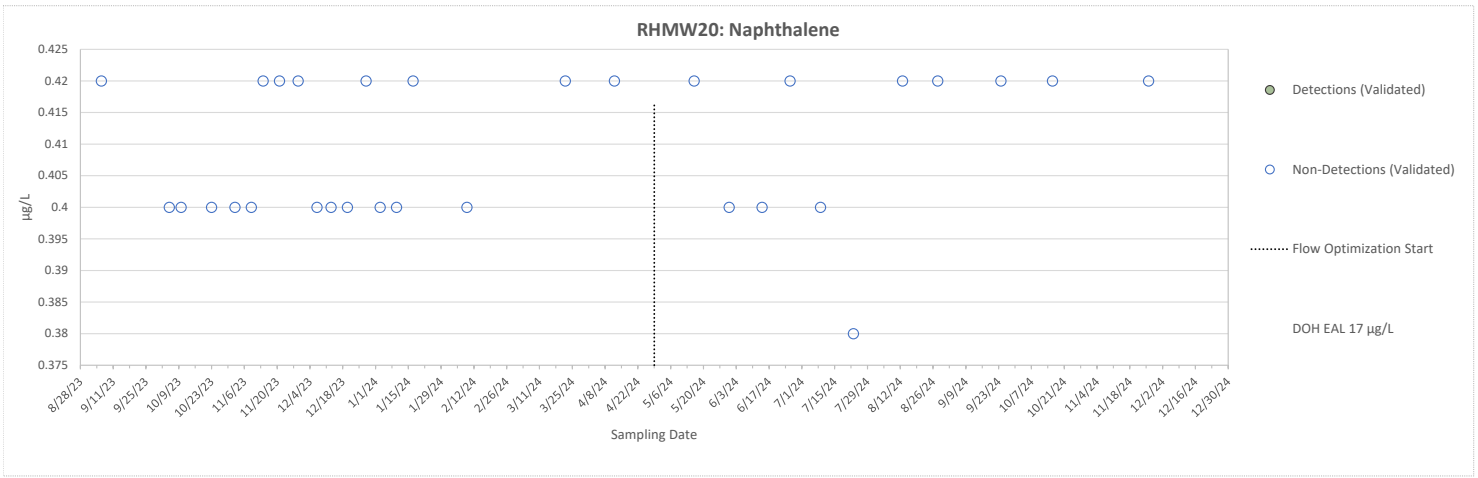

RHMW20: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW20: ORO by Method 3510
200
180
160
140
120
100
80
µg/L
181
173
164
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

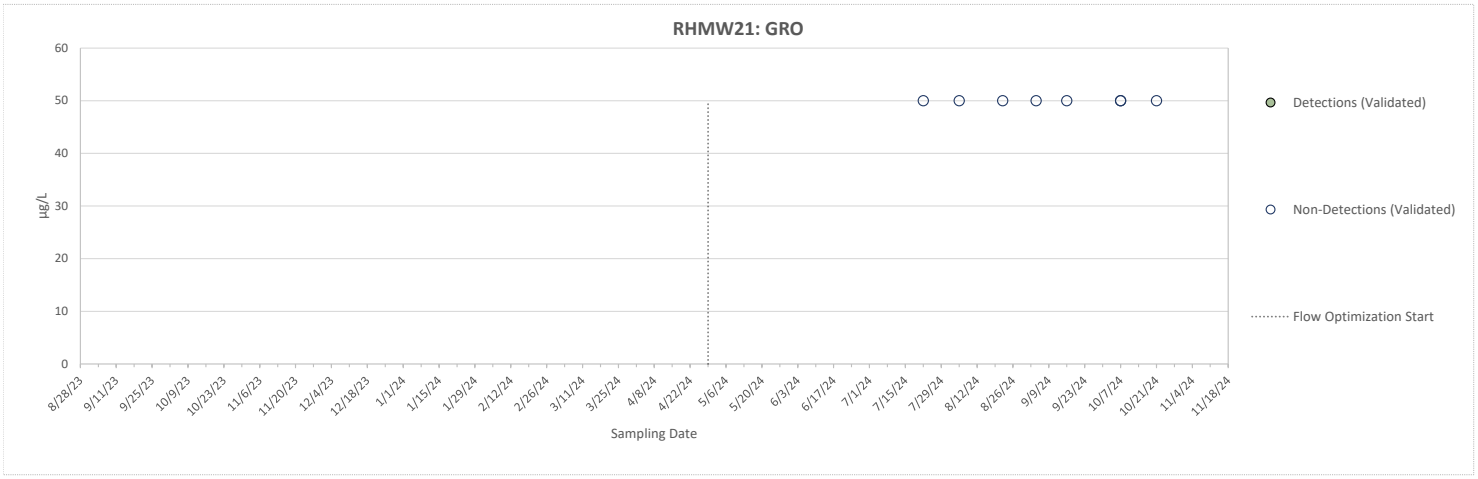

RHMW20: ORO by Method 3520
200
180
160
140
120
100
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

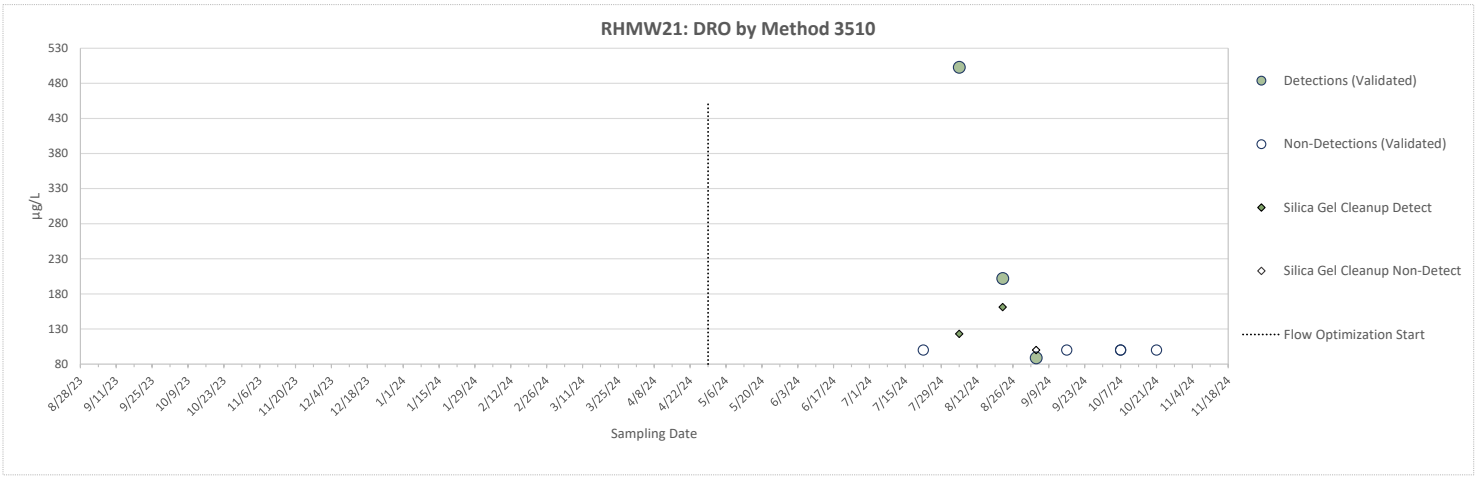


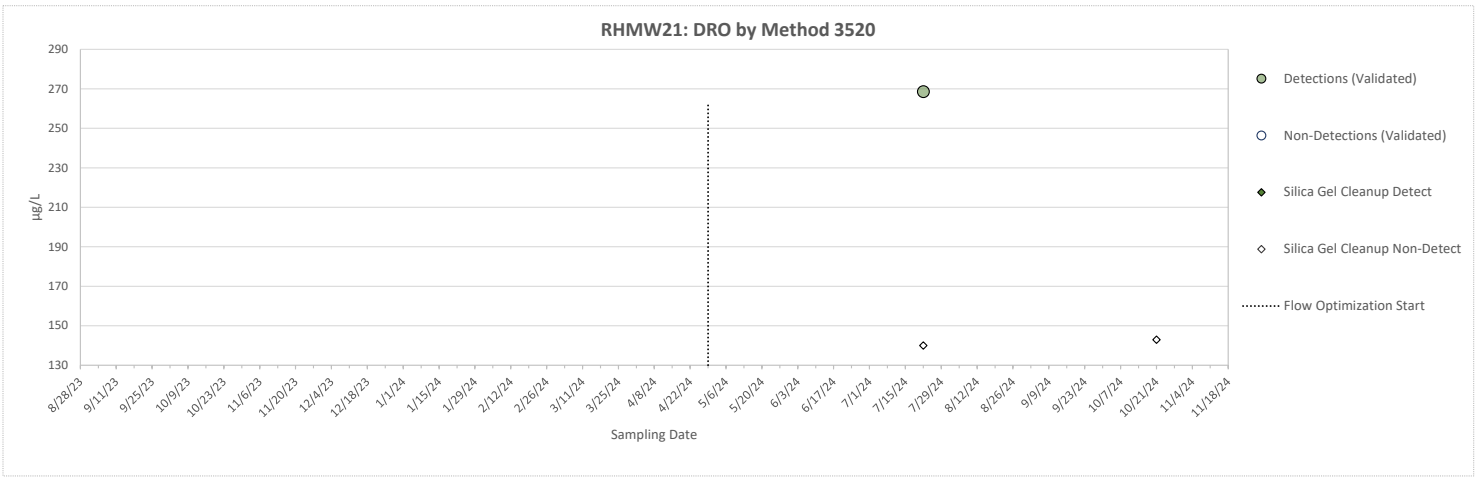


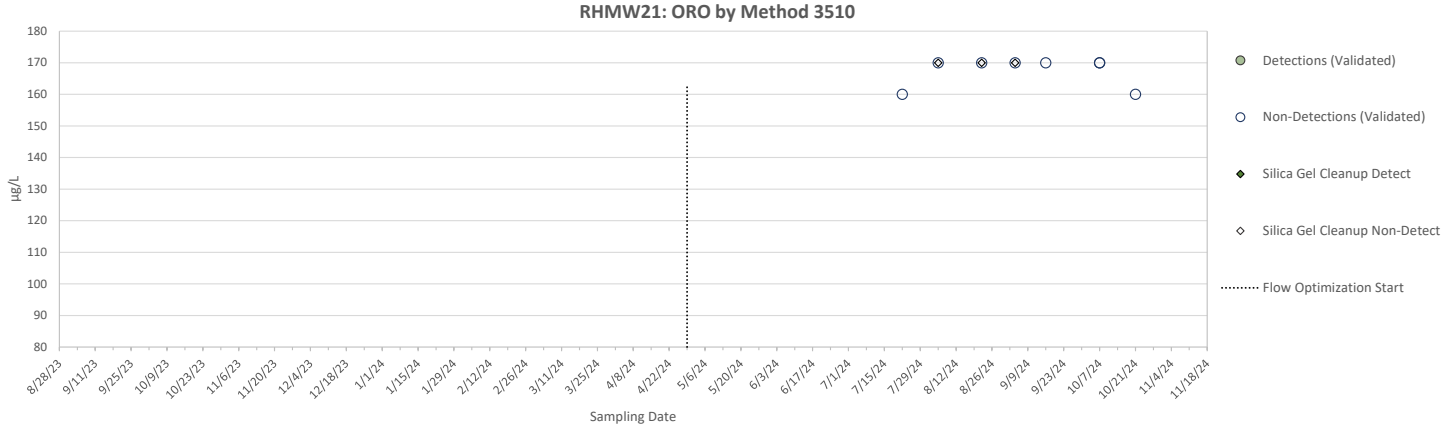


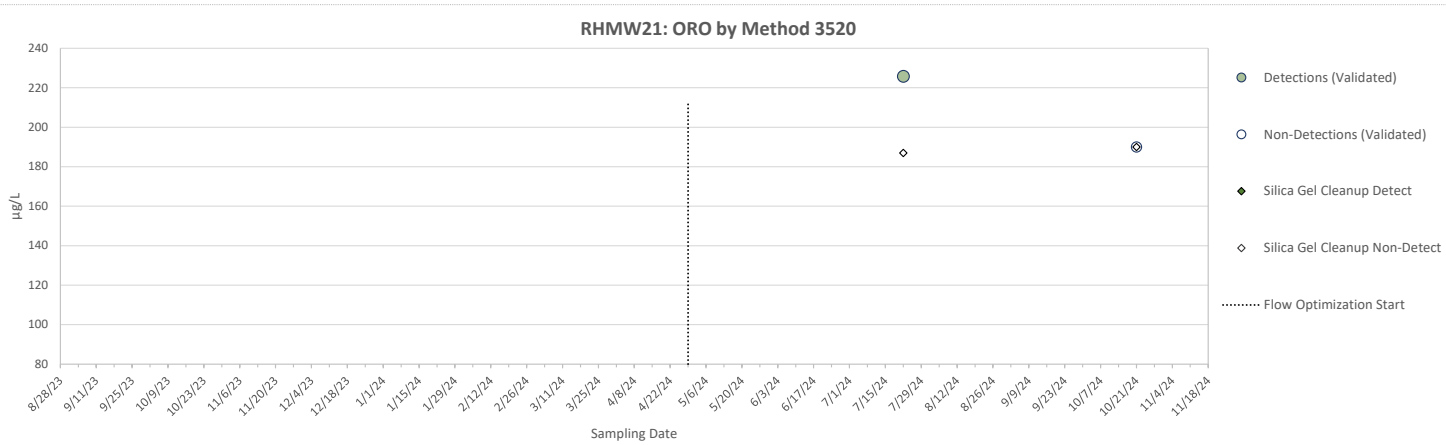
Note: See Data Legend

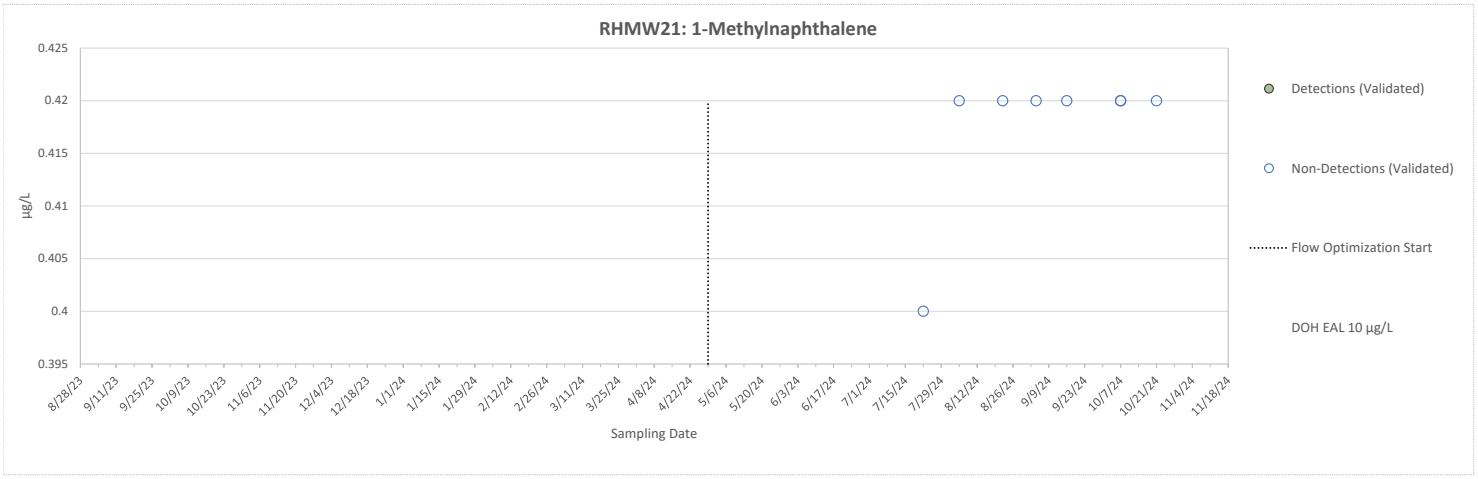

RHMW21: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

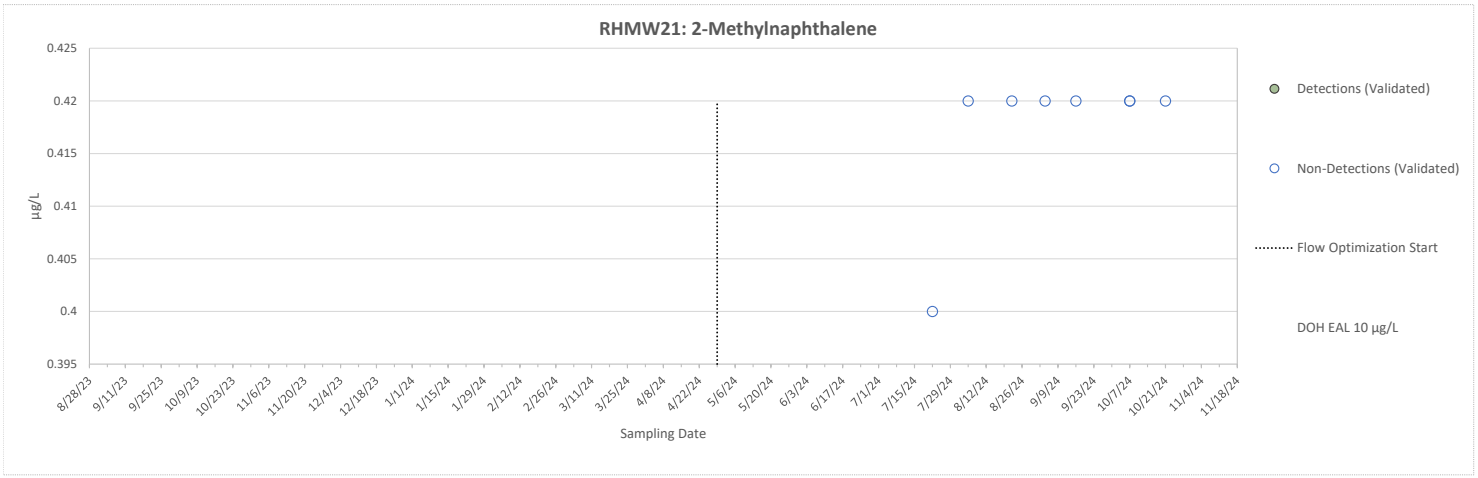

RHMW21: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

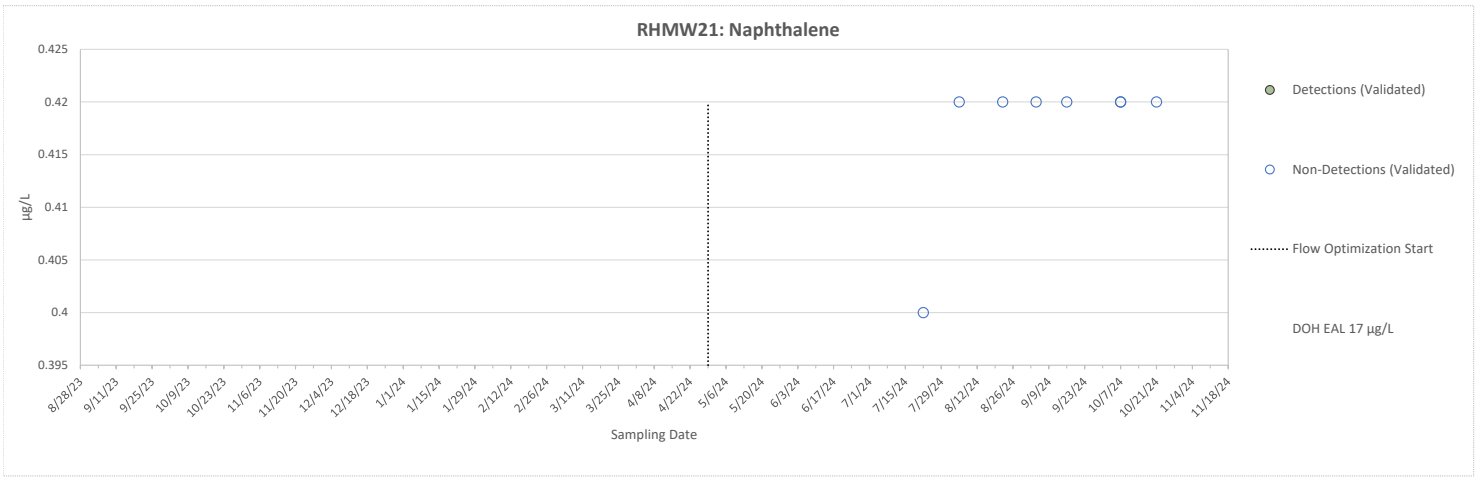

RHMW21: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW21: ORO by Method 3510
µg/L
180
170
160
150
140
130
120
110
100
90
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

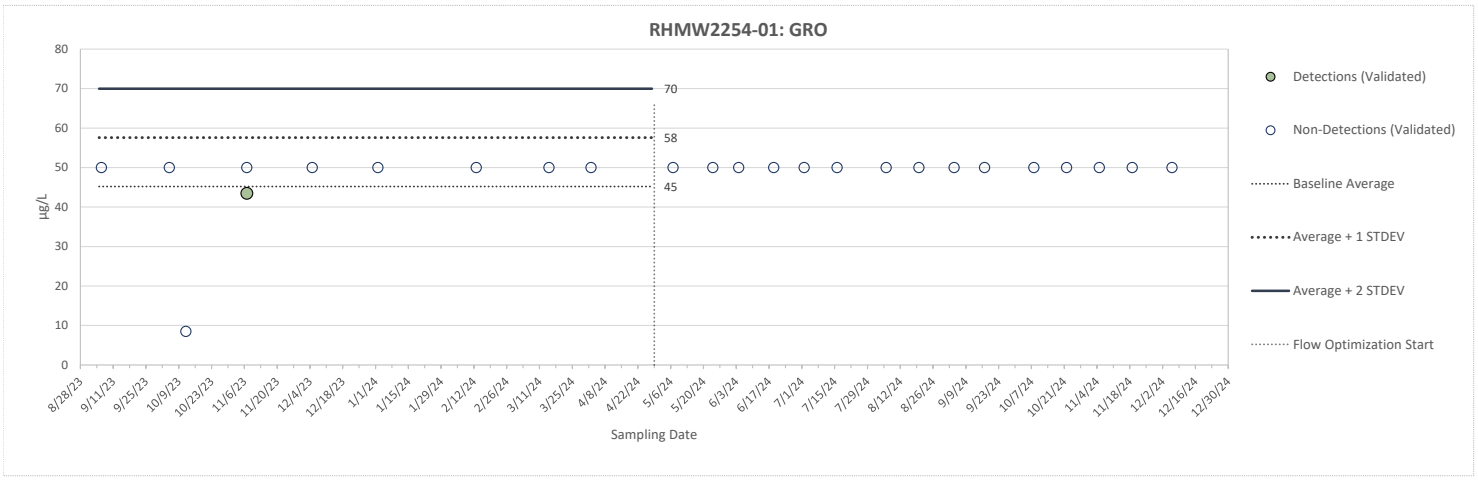

RHMW21: ORO by Method 3520
µg/L
240
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

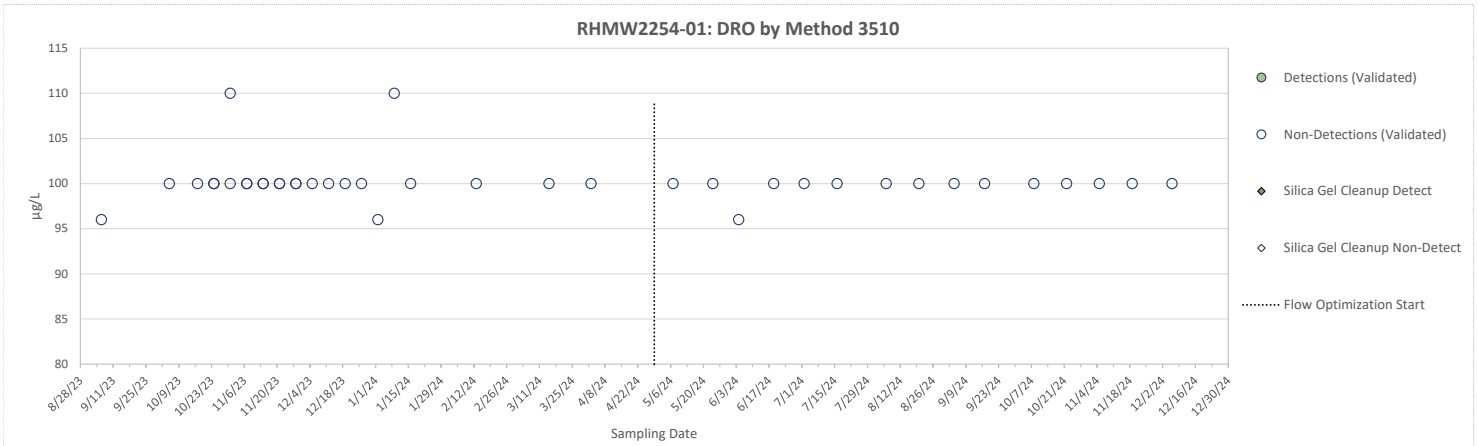


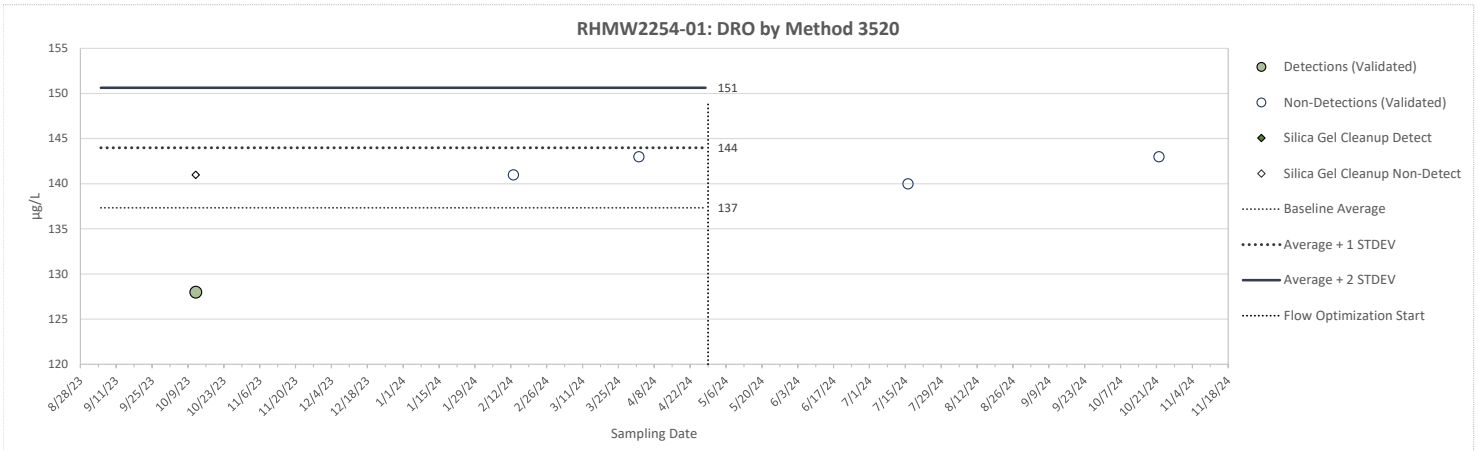


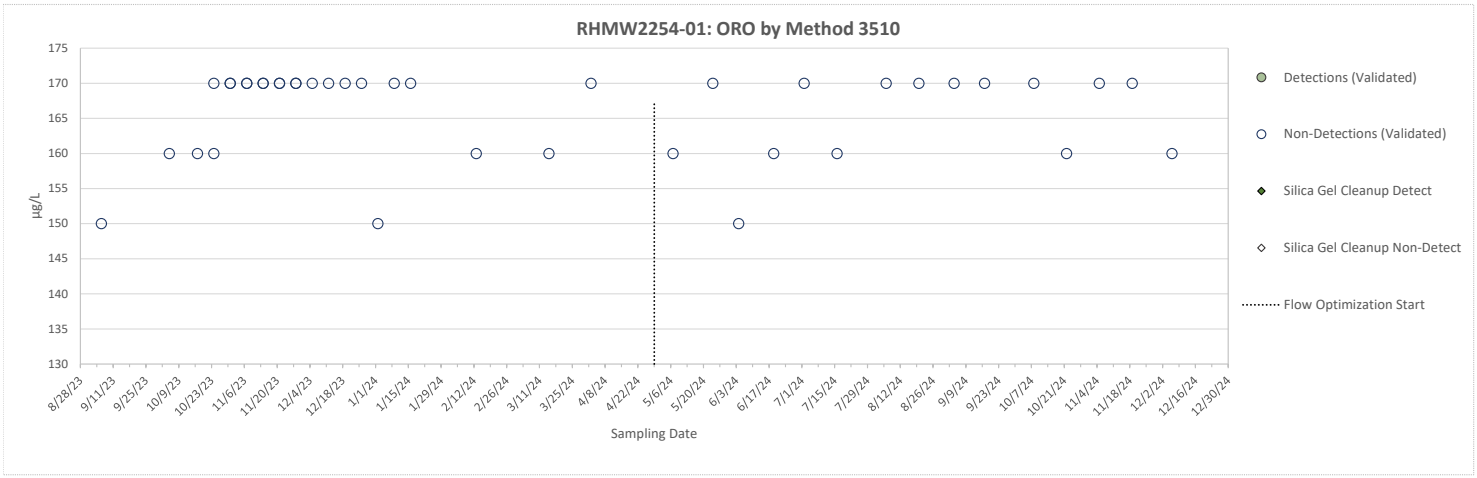


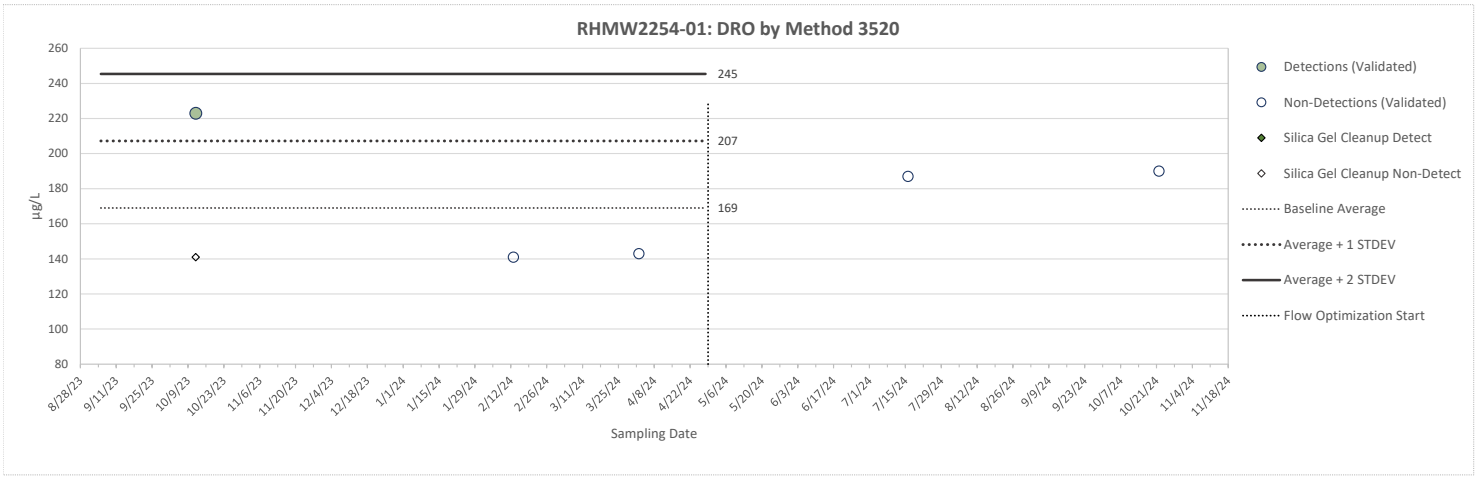
Note: See Data Legend

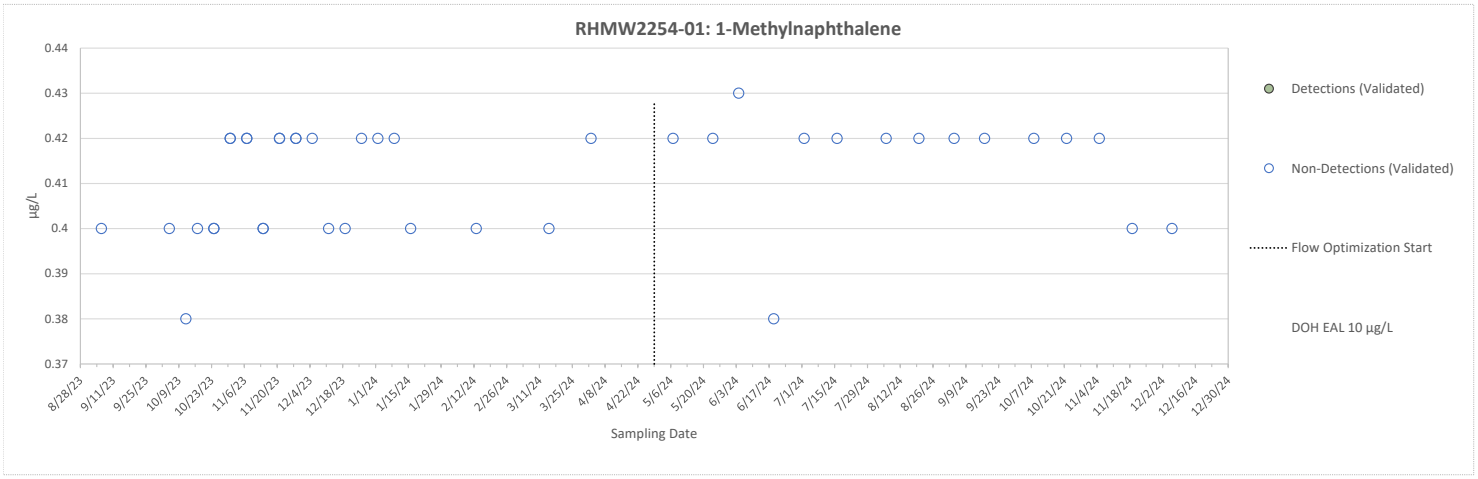

RHMW2254-01: GRO
µg/L
Sampling Date
70
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

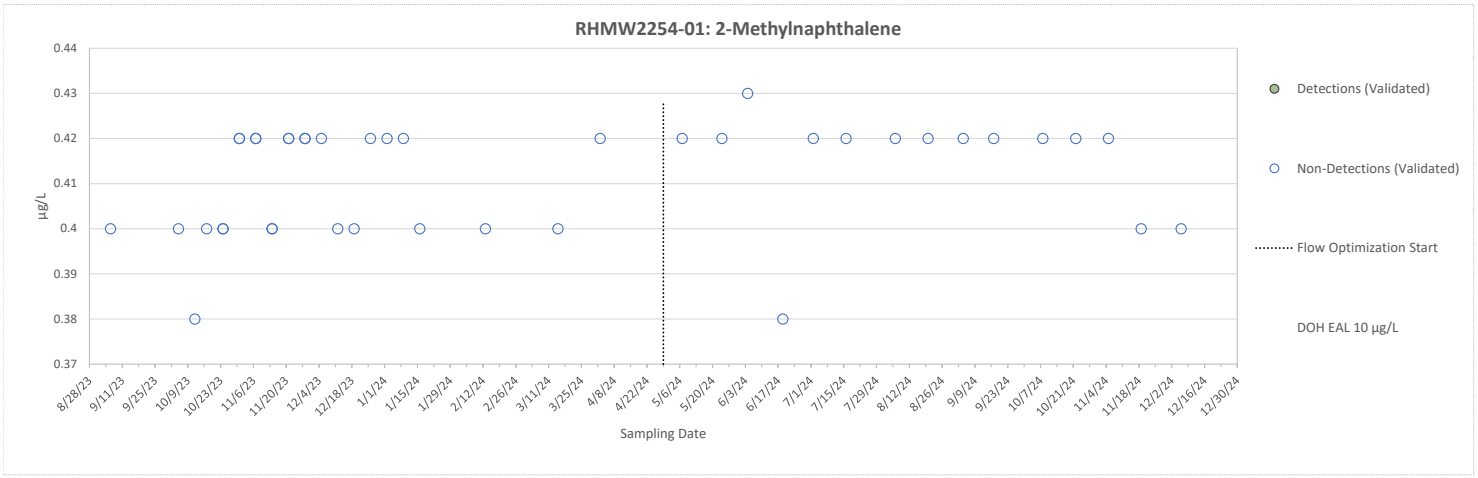

RHMW2254-01: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

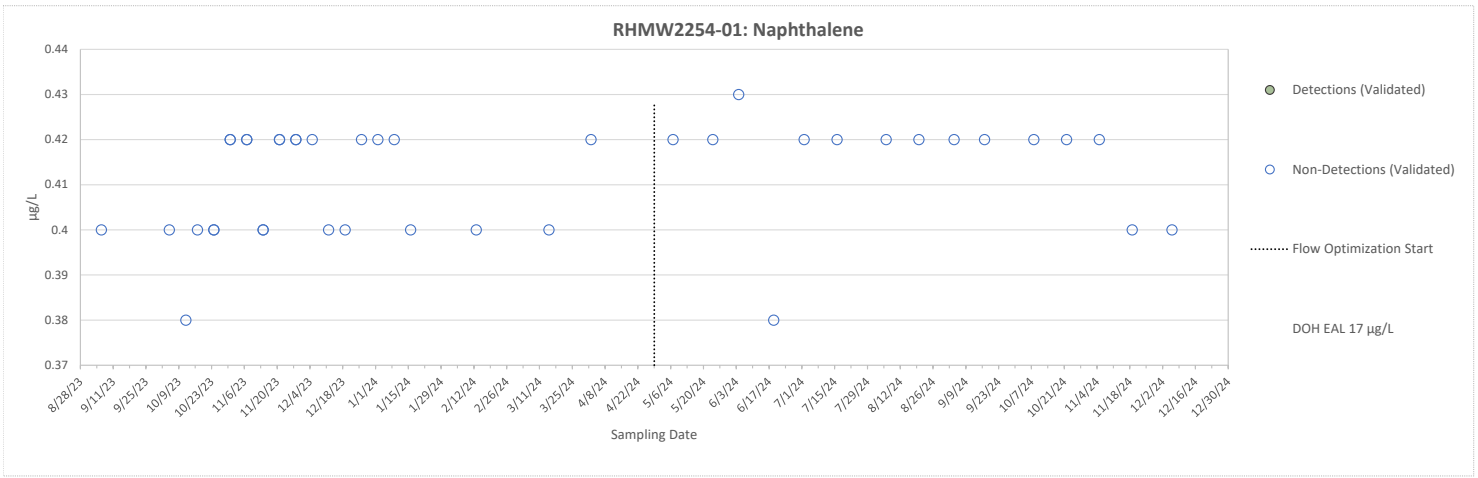

RHMW2254-01: DRO by Method 3520
µg/L
Sampling Date
151
144
137
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW2254-01: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

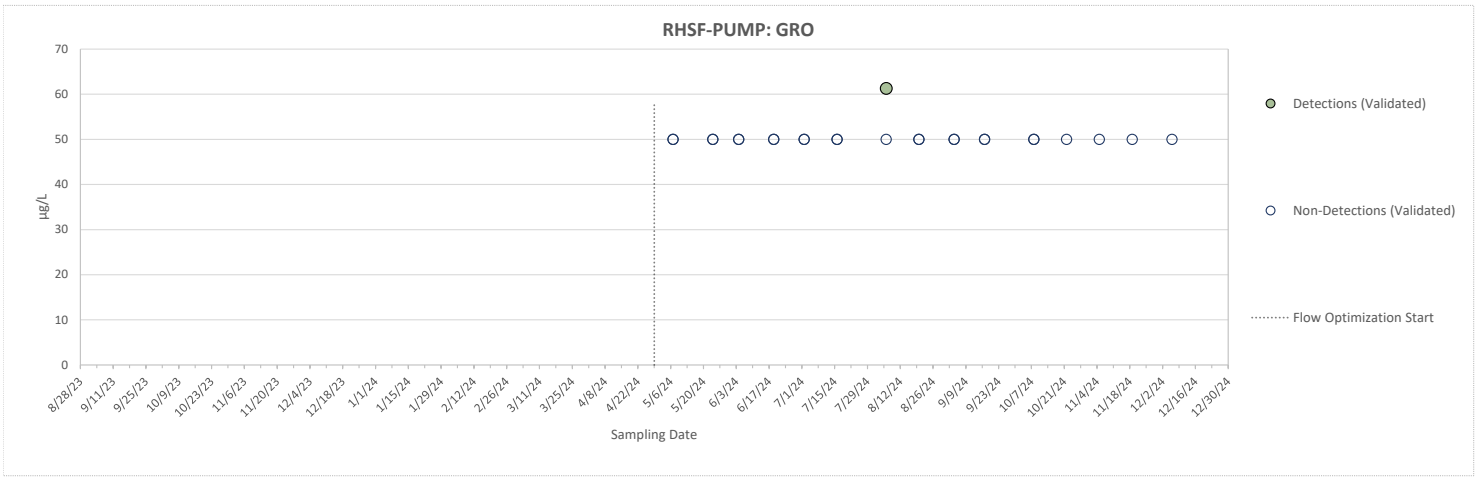

RHMW2254-01: DRO by Method 3520
µg/L
260
240
220
200
180
160
140
120
100
80
245
207
169
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

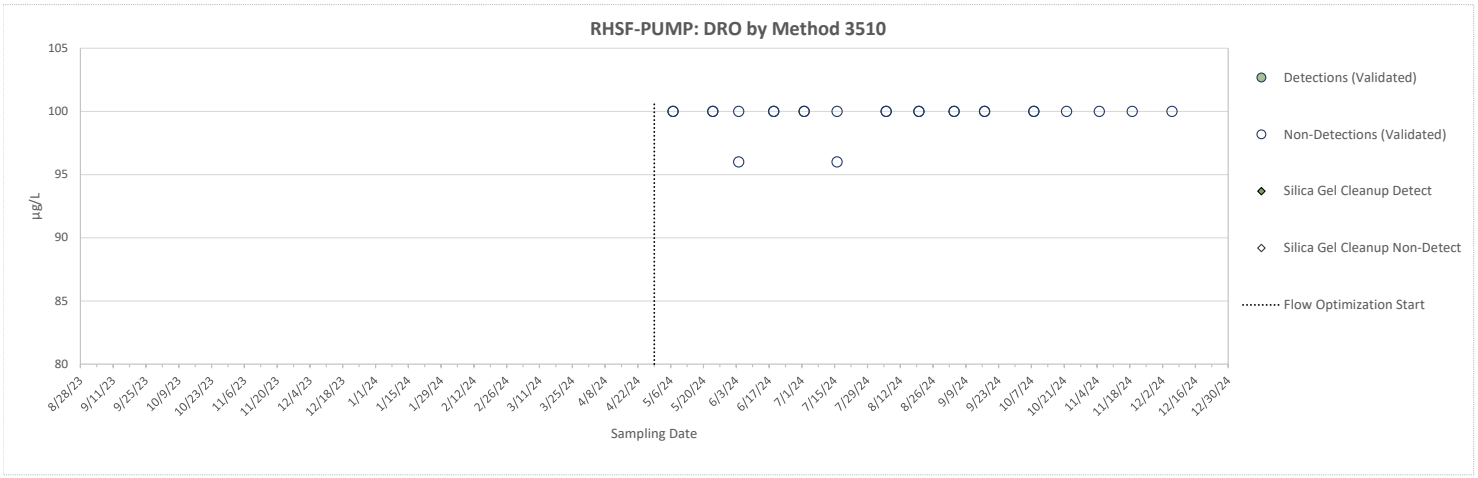


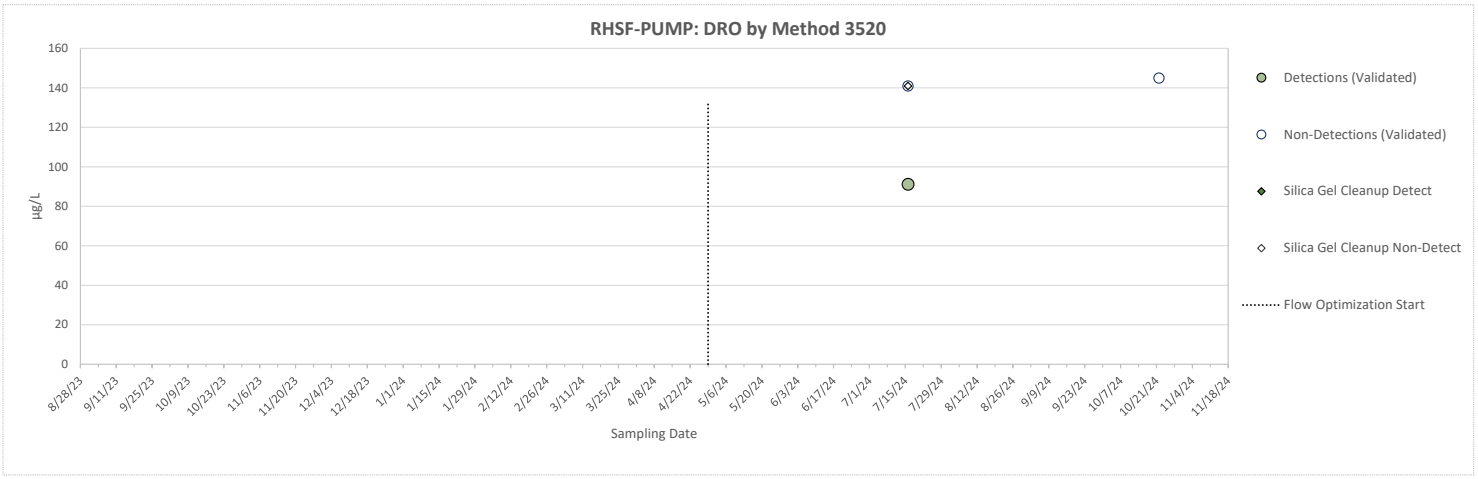


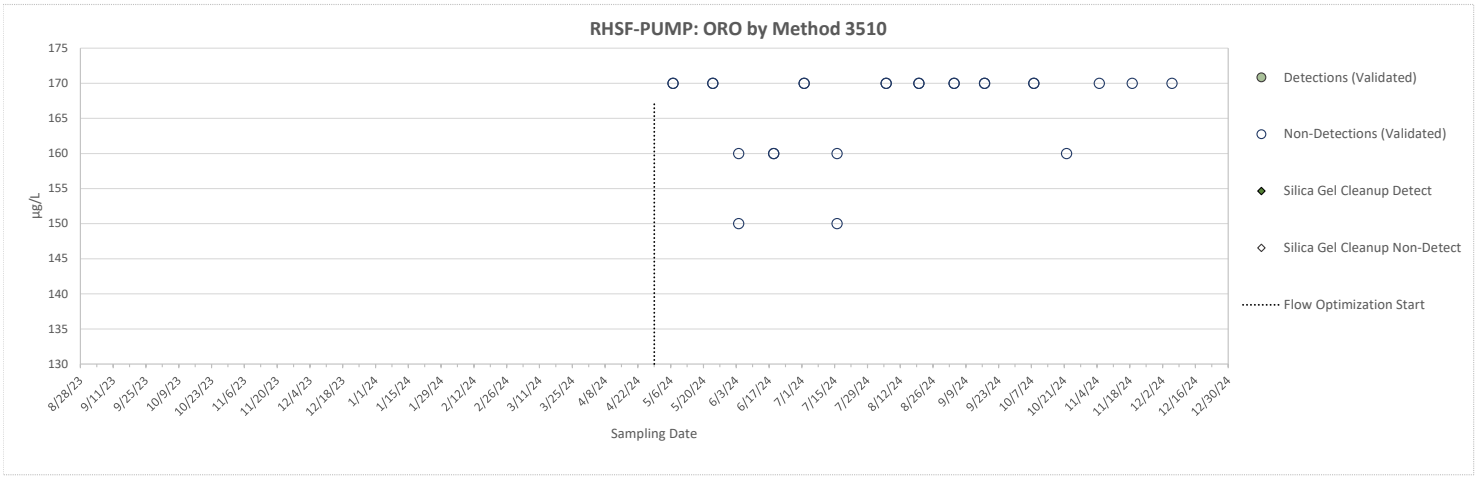


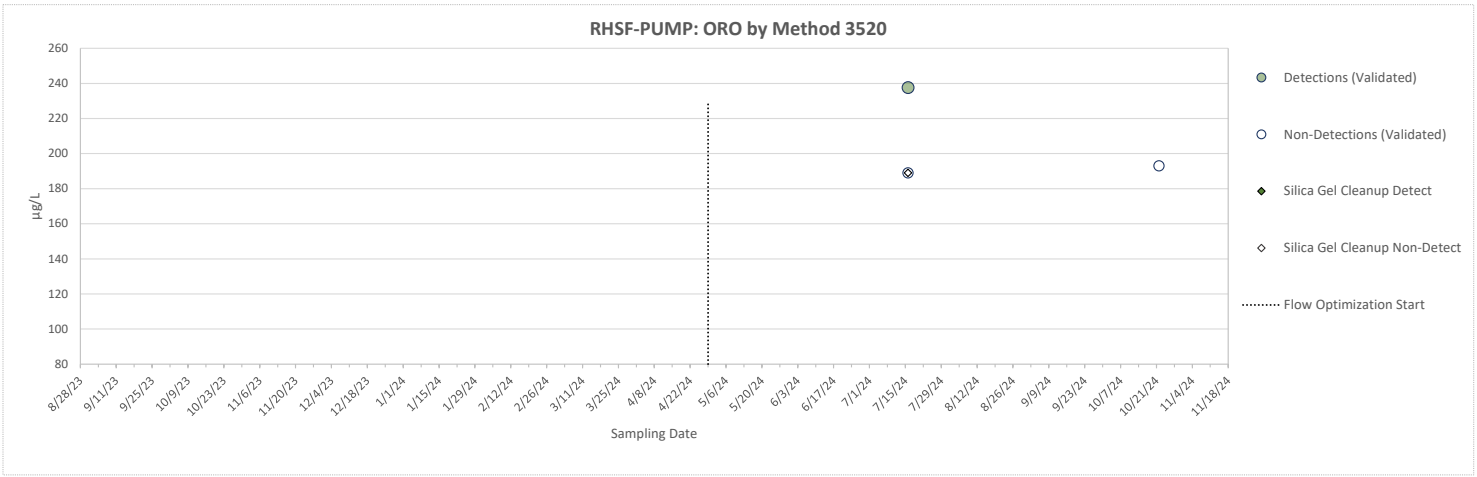
Note: See Data Legend

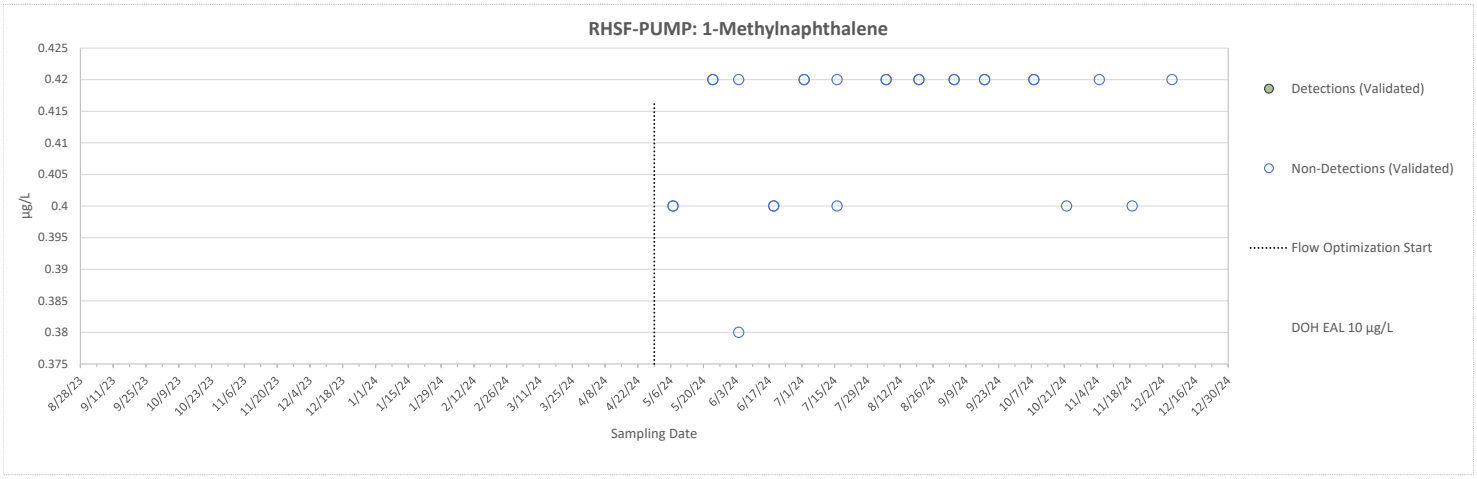

RHSF-PUMP: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

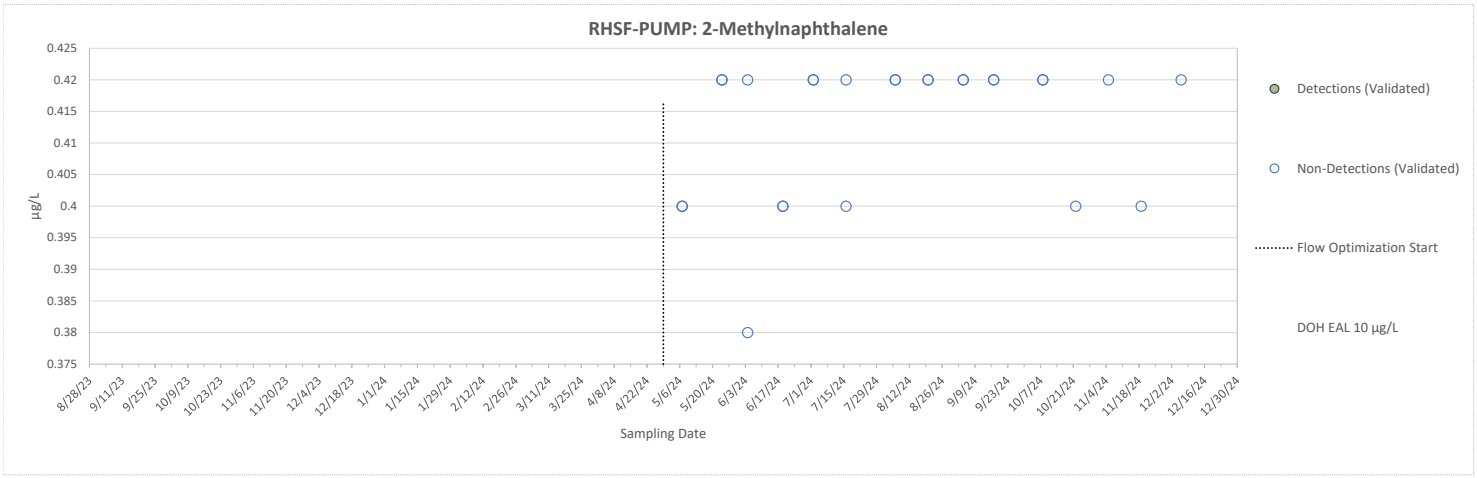

RHSF-PUMP: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

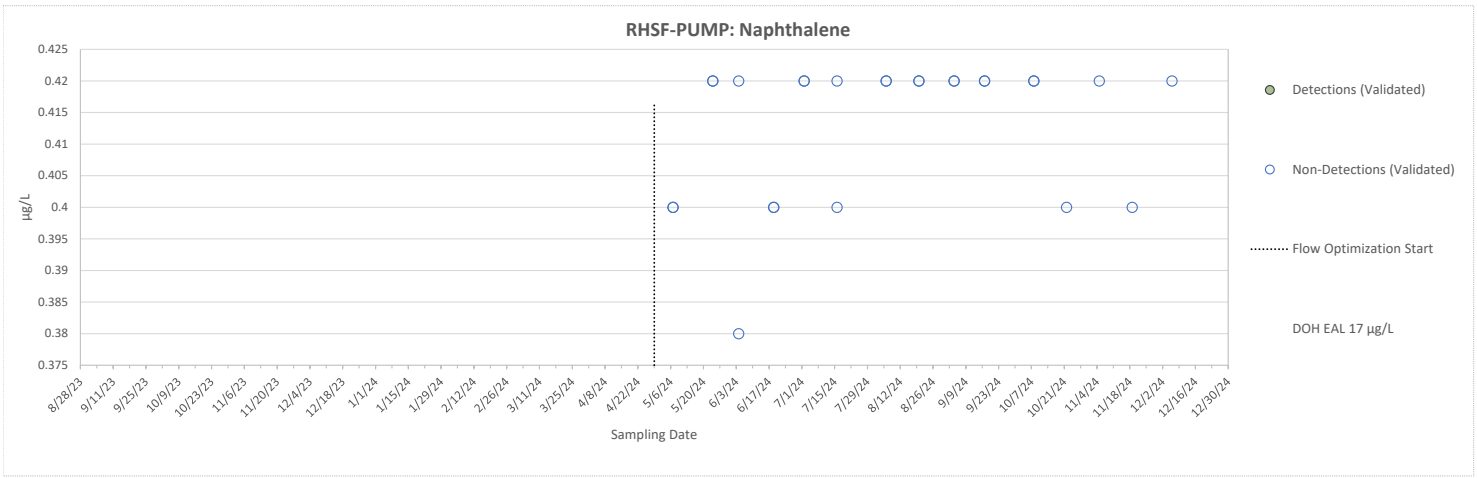

RHSF-PUMP: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHSF-PUMP: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

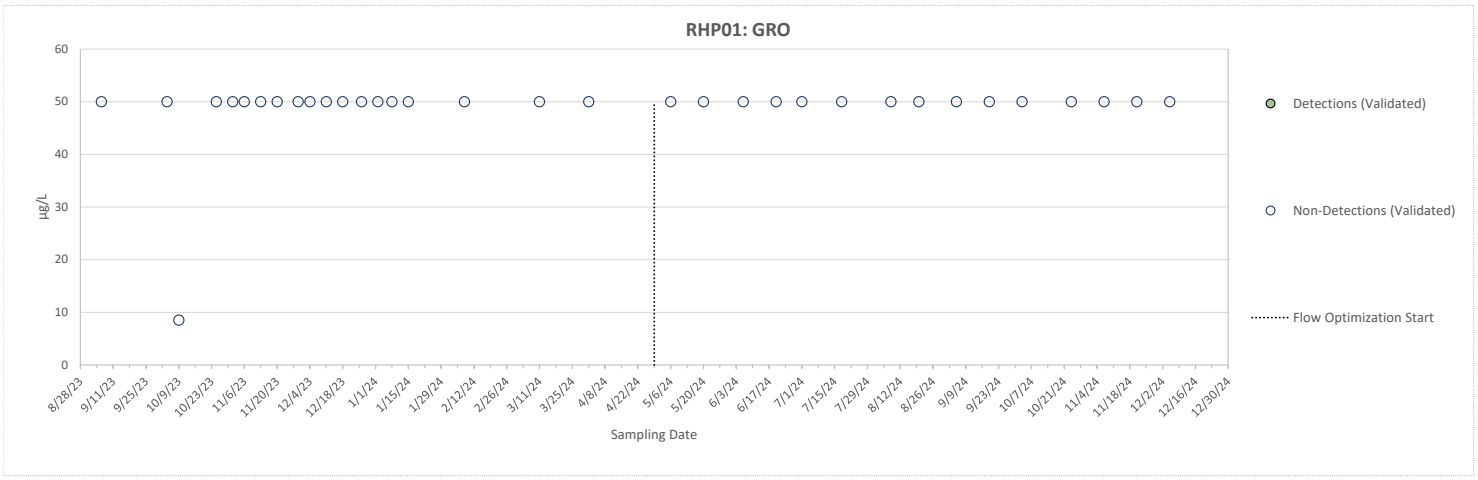

RHSF-PUMP: ORO by Method 3520
µg/L
260
240
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

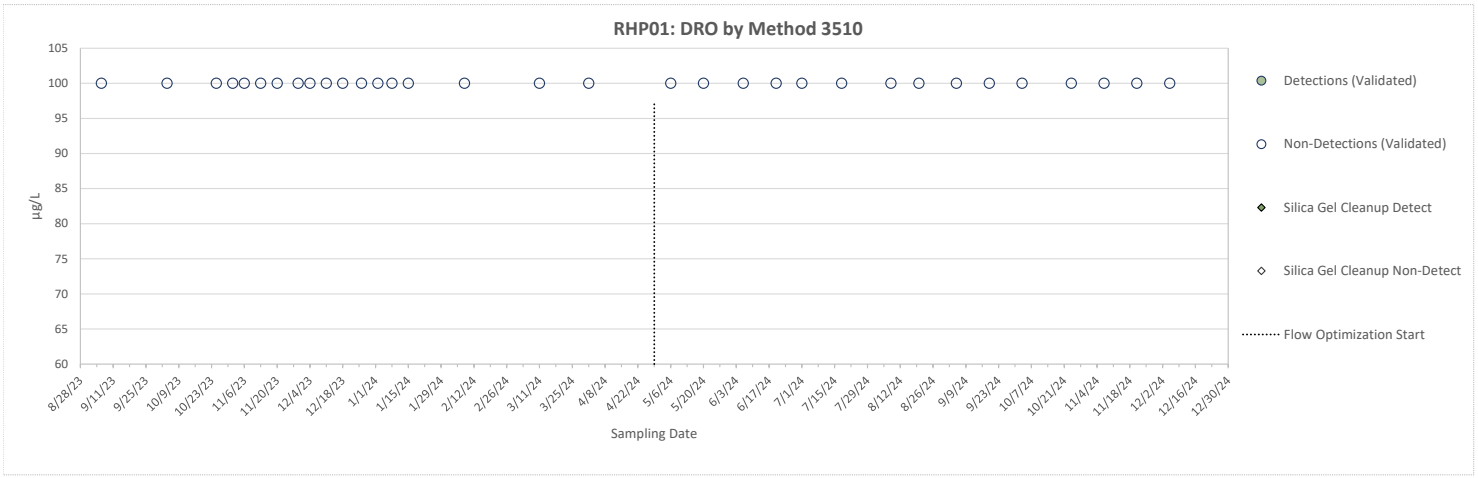


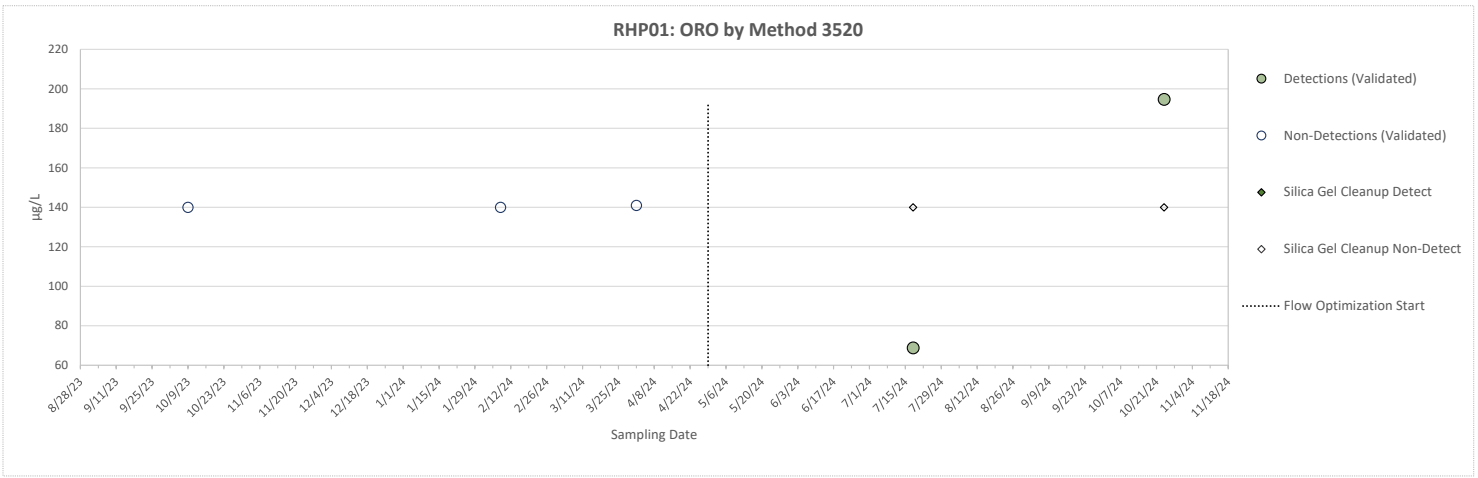


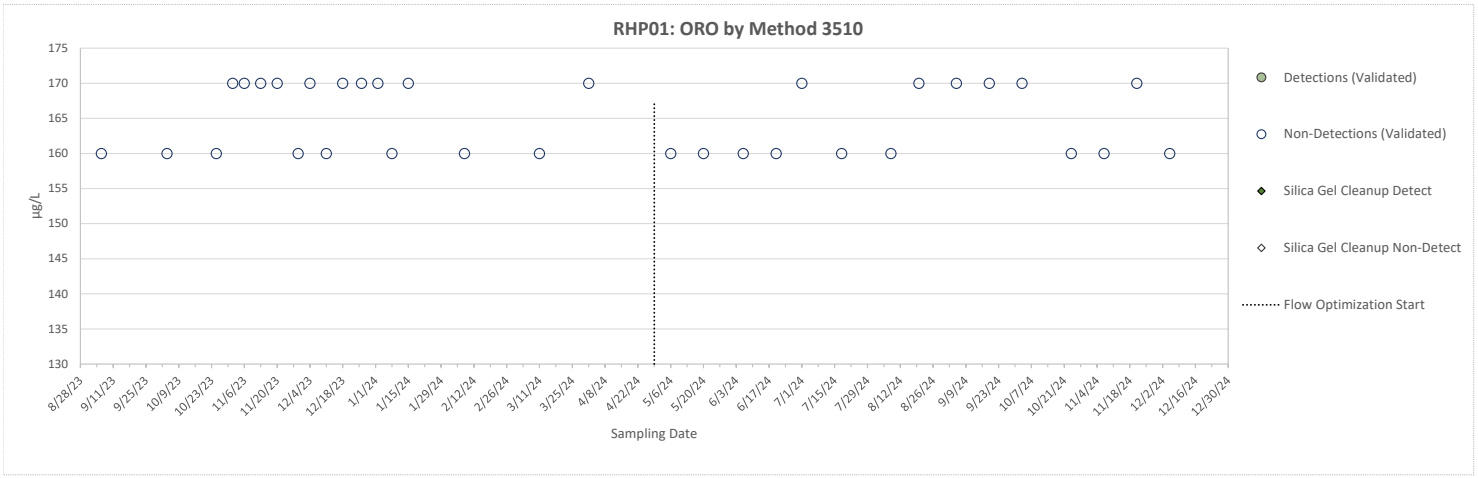


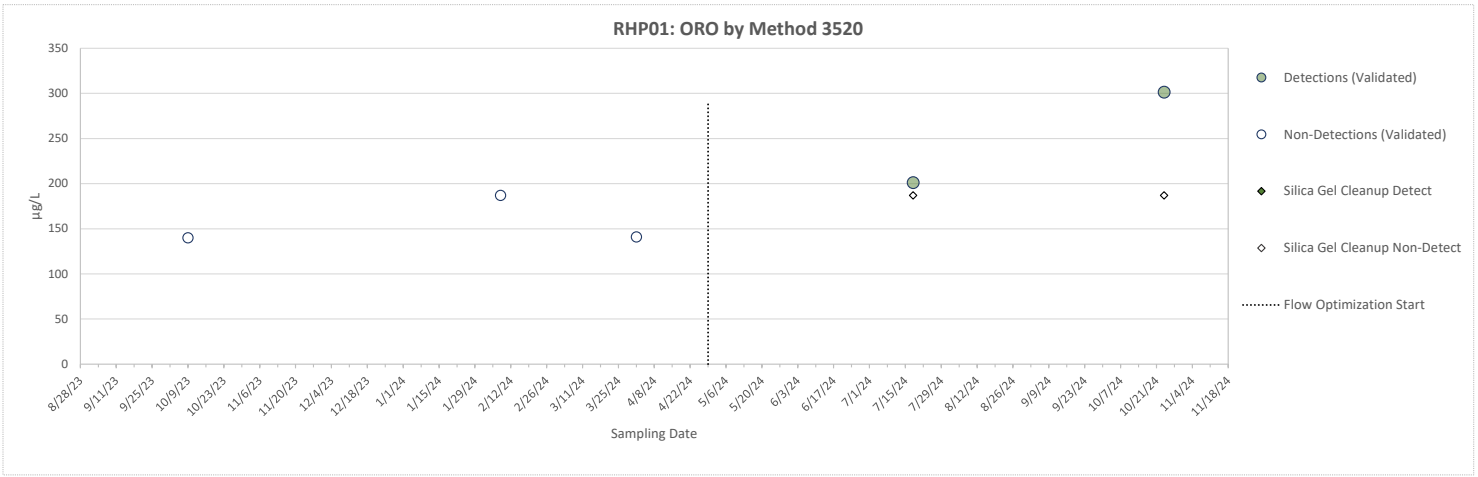
Note: See Data Legend

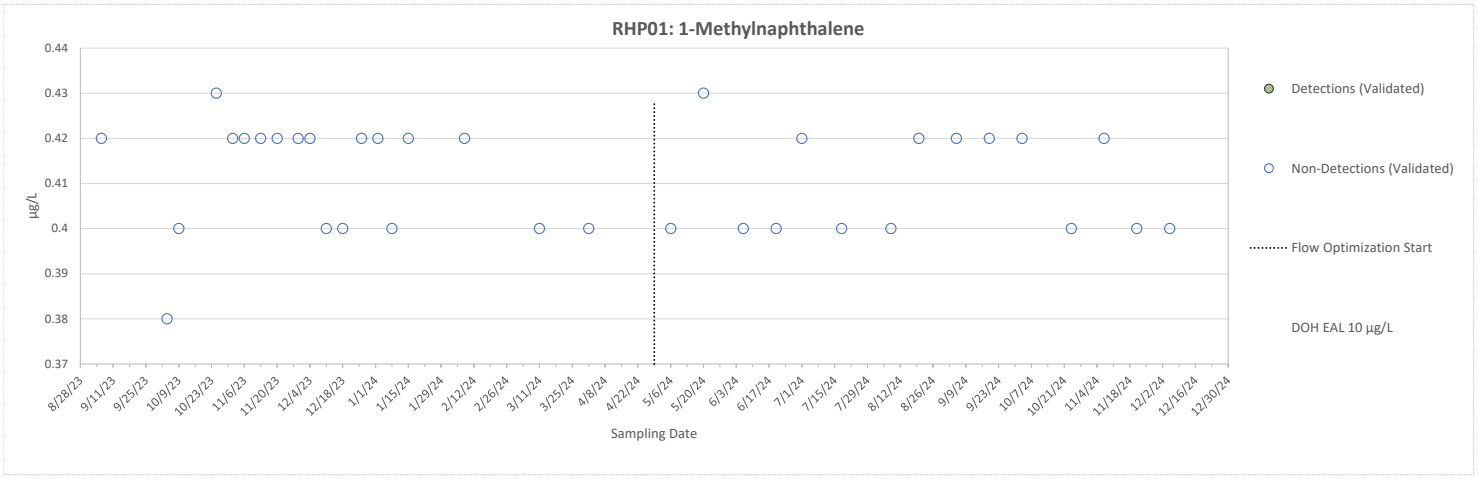

RHP01: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

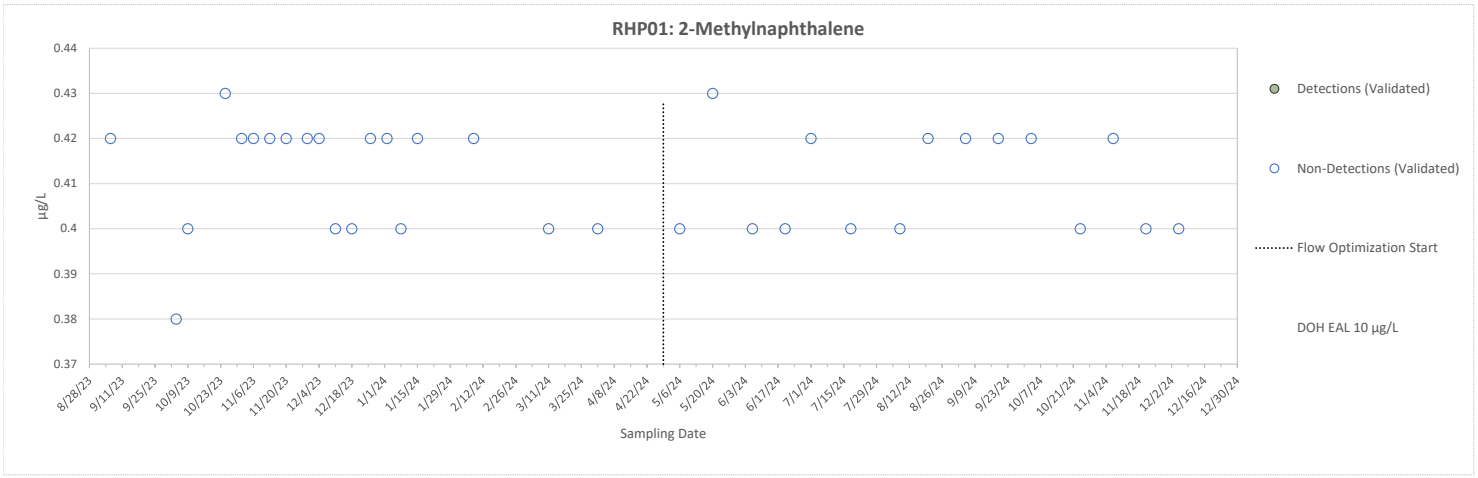

RHP01: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

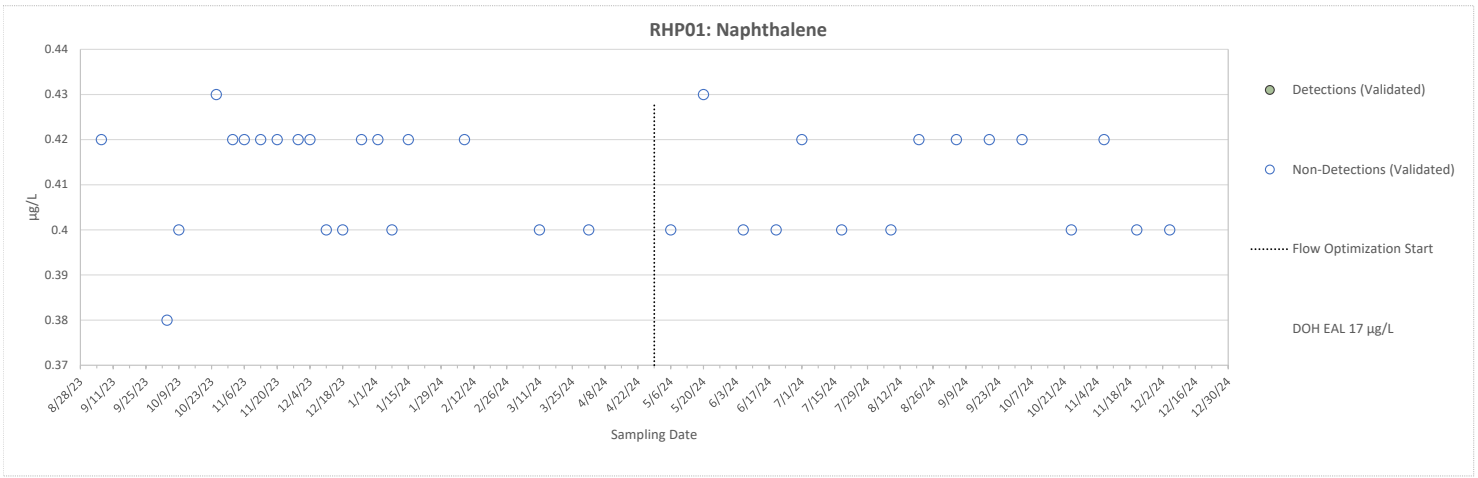

RHP01: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP01: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

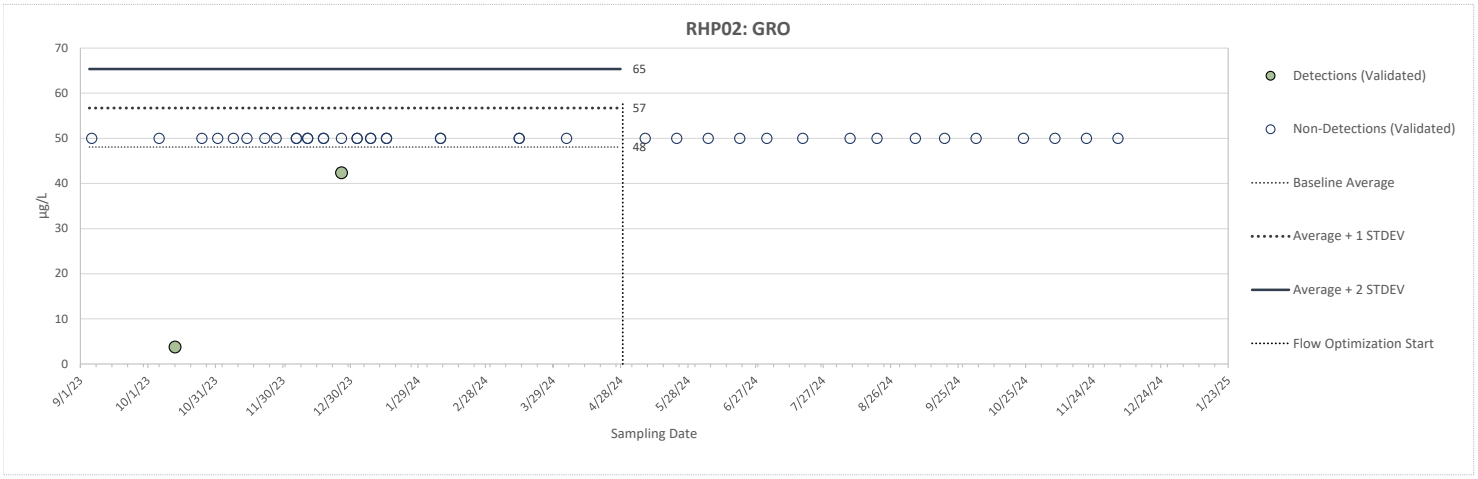

RHP01: ORO by Method 3520
µg/L
350
300
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

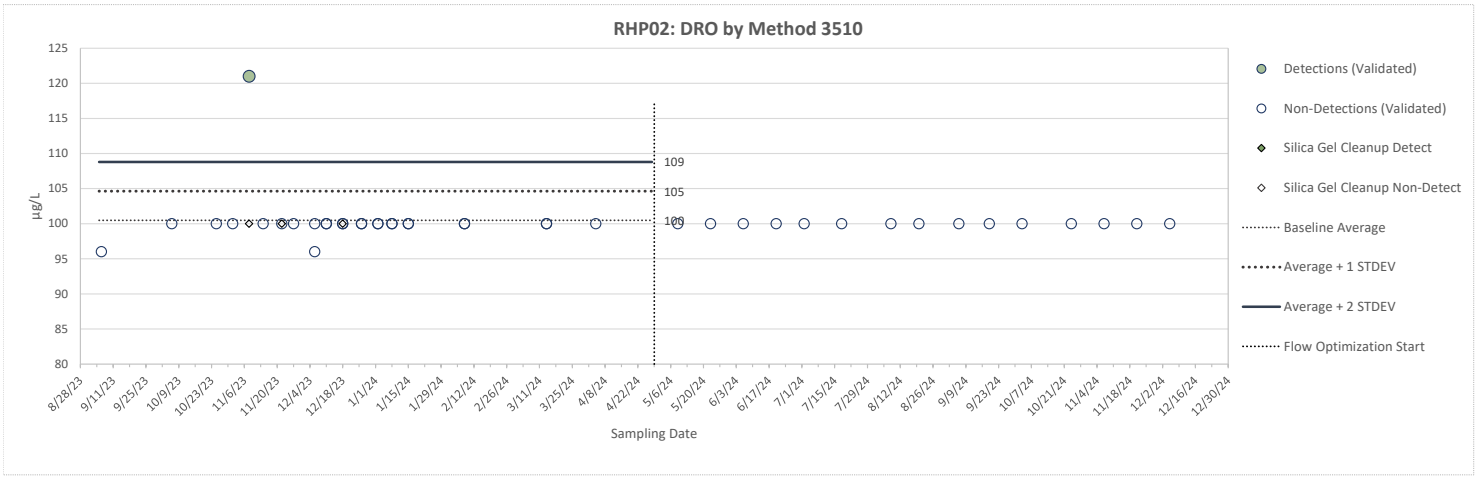


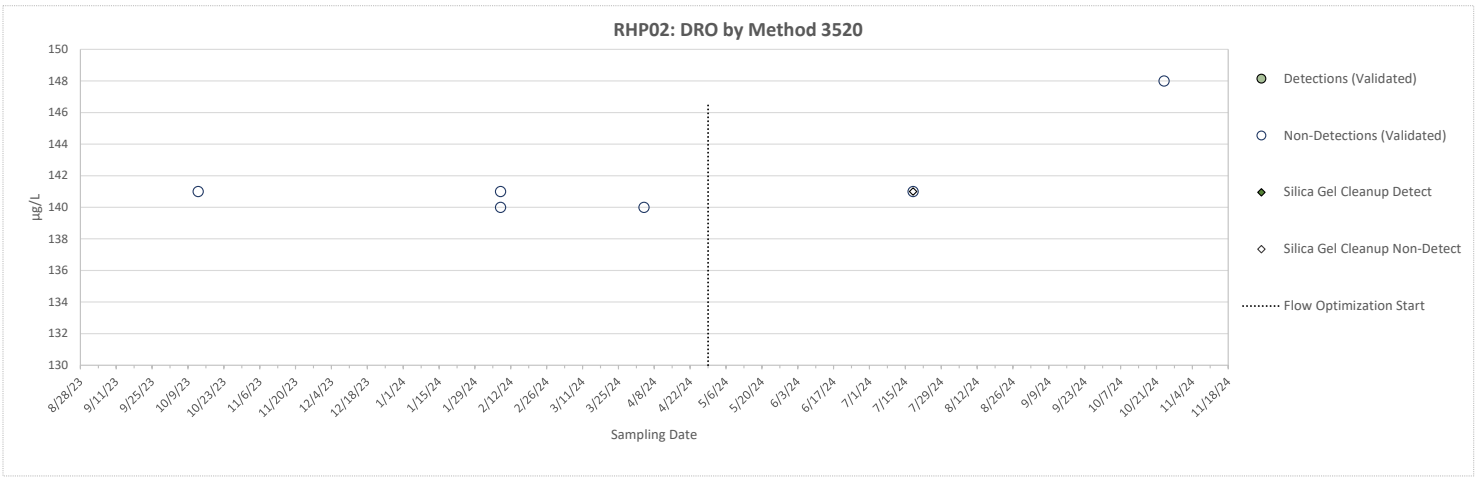


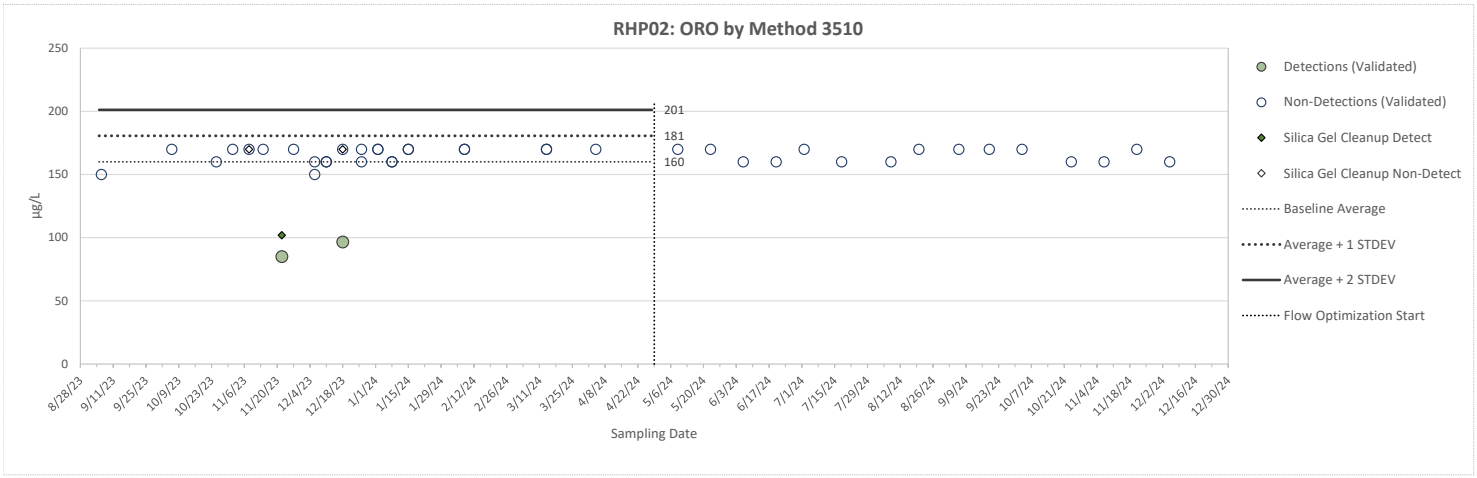


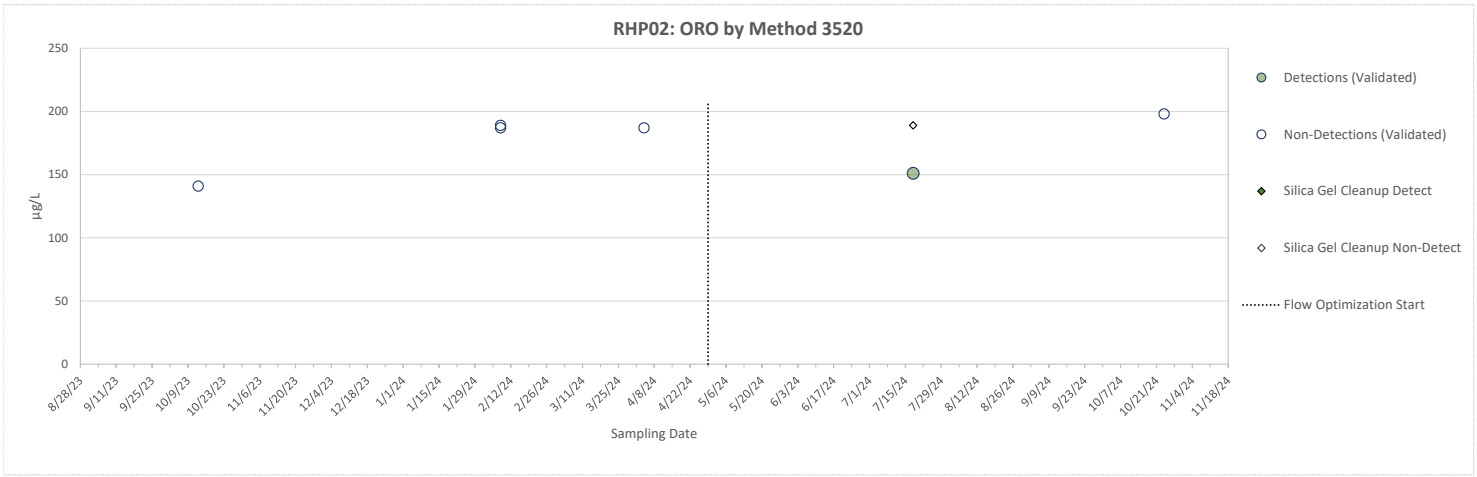
Note: See Data Legend

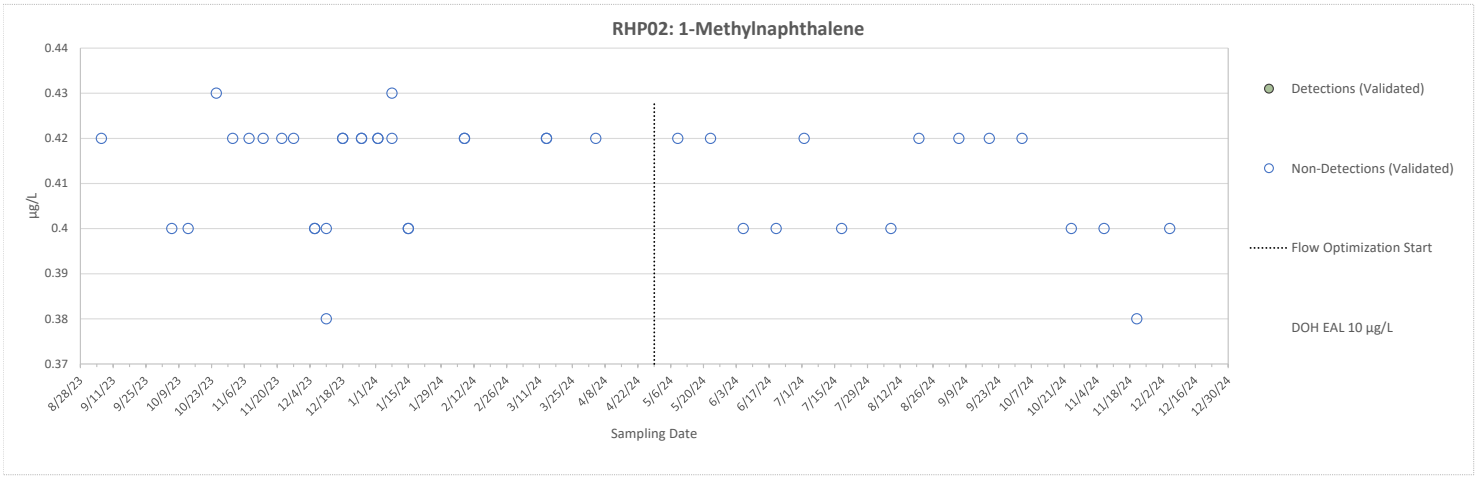

RHP02: GRO
µg/L
Sampling Date
65
57
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

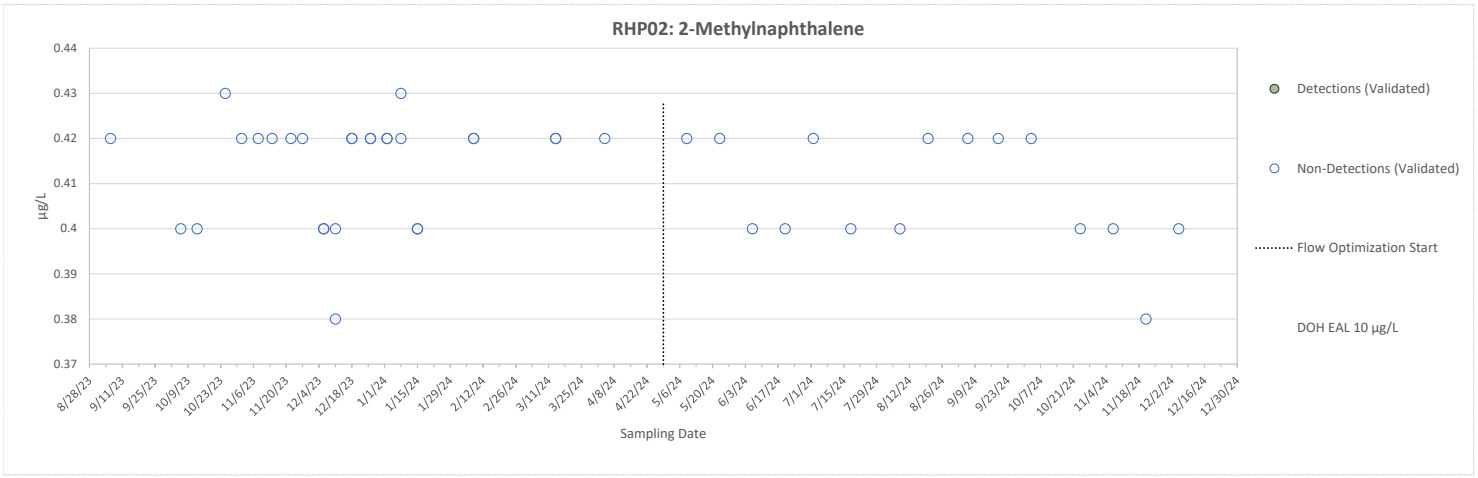

RHP02: DRO by Method 3510
µg/L
Sampling Date
109
105
101
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

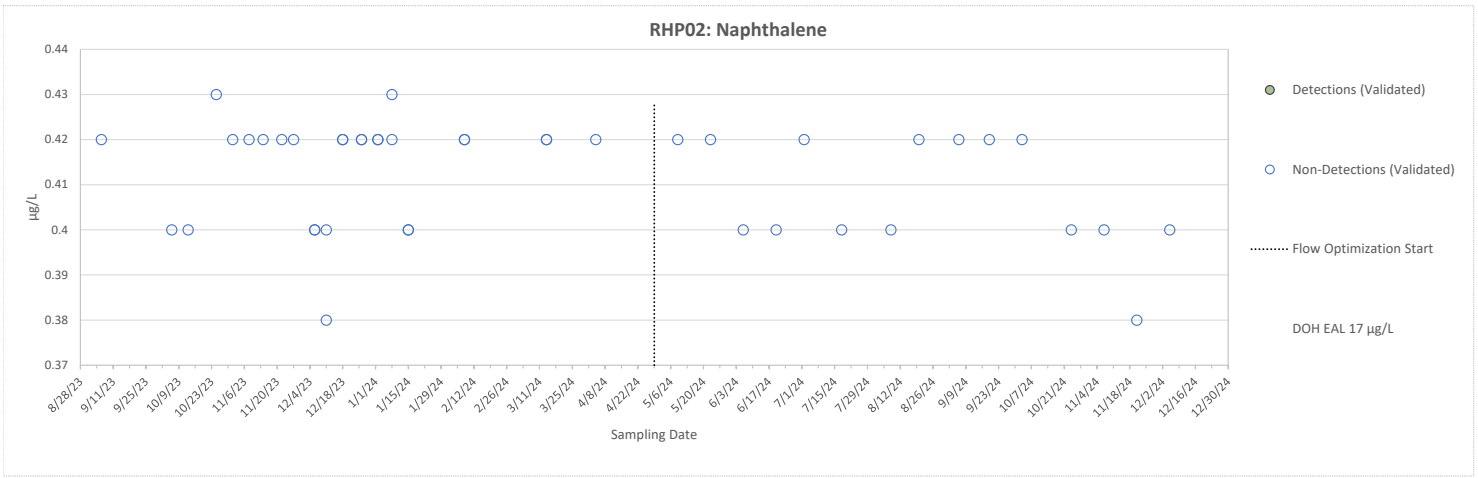

RHP02: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP02: ORO by Method 3510
µg/L
250
200
150
100
50
0
201
181
160
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

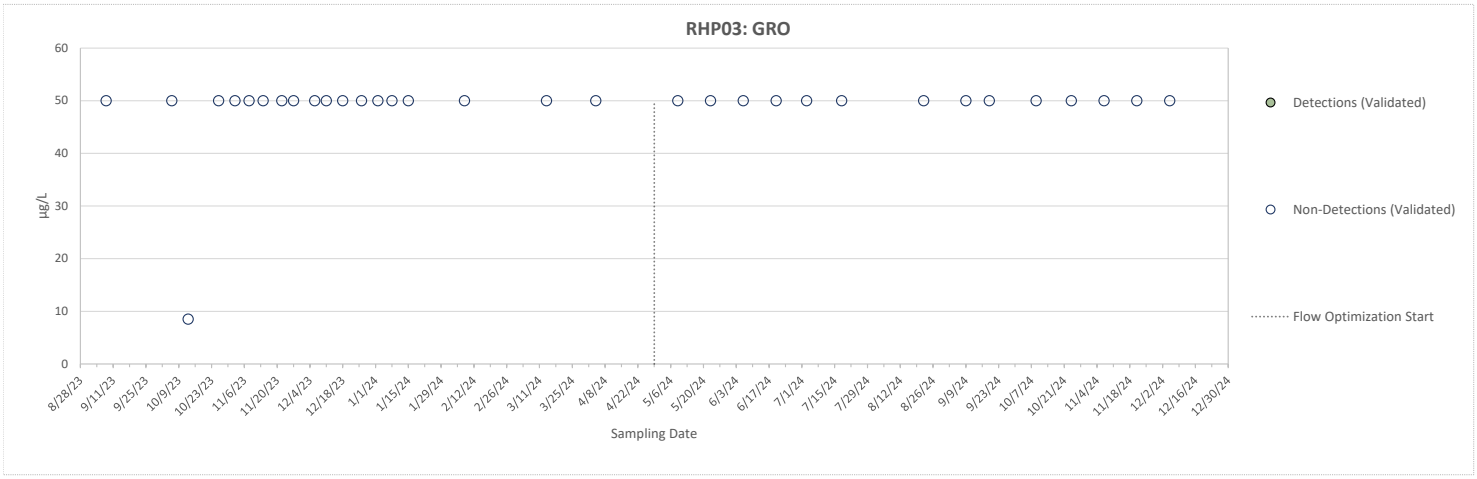

RHP02: ORO by Method 3520
µg/L
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

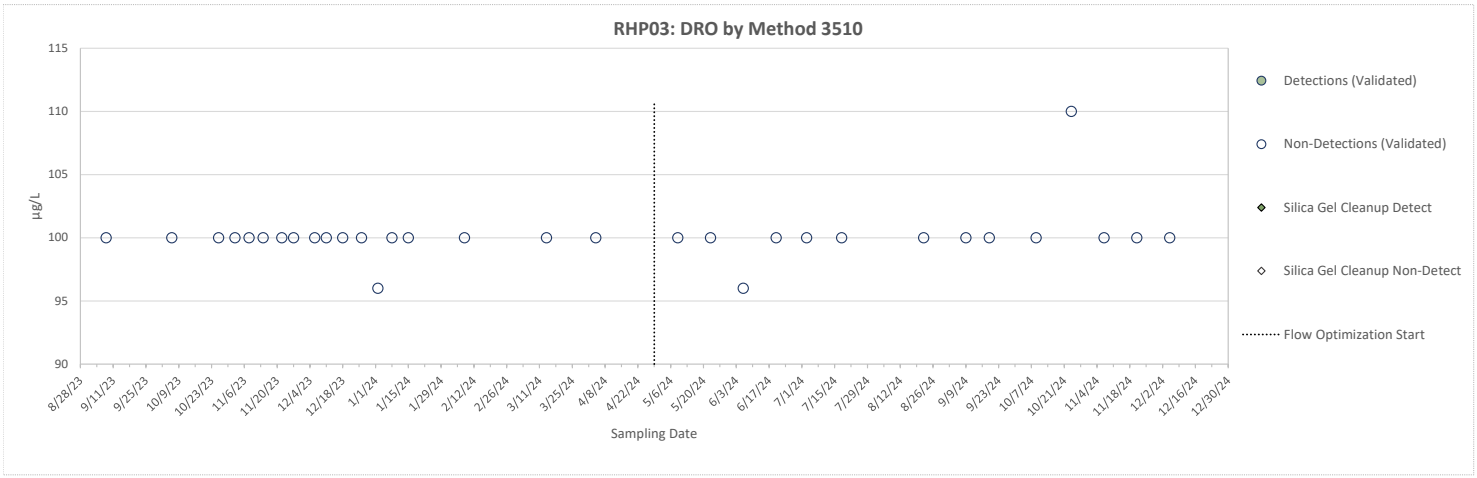


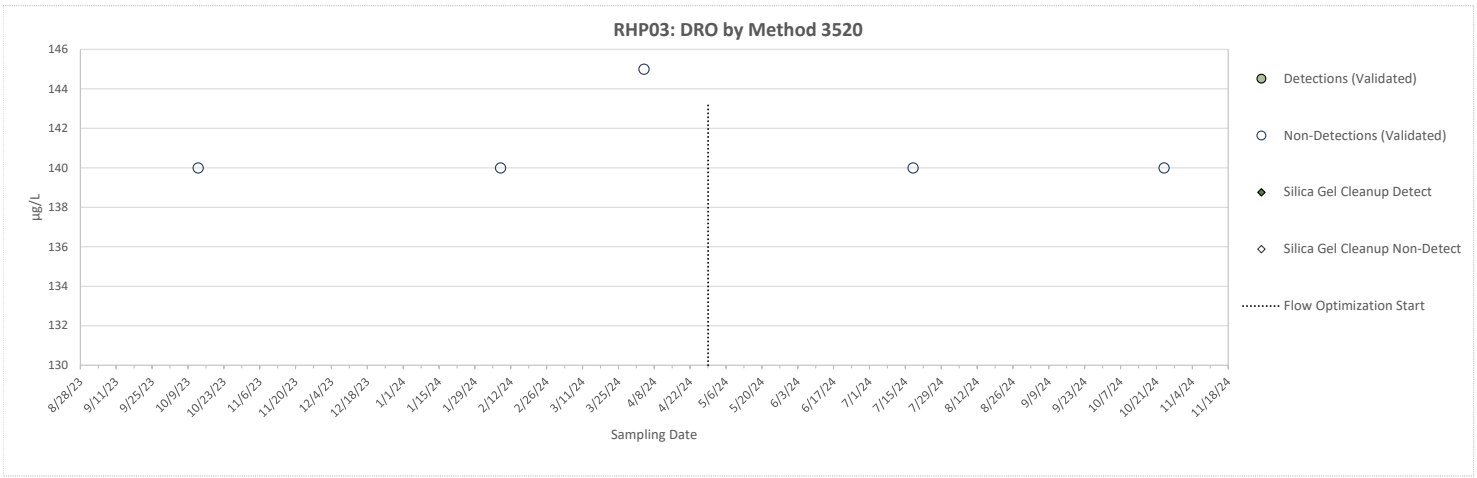


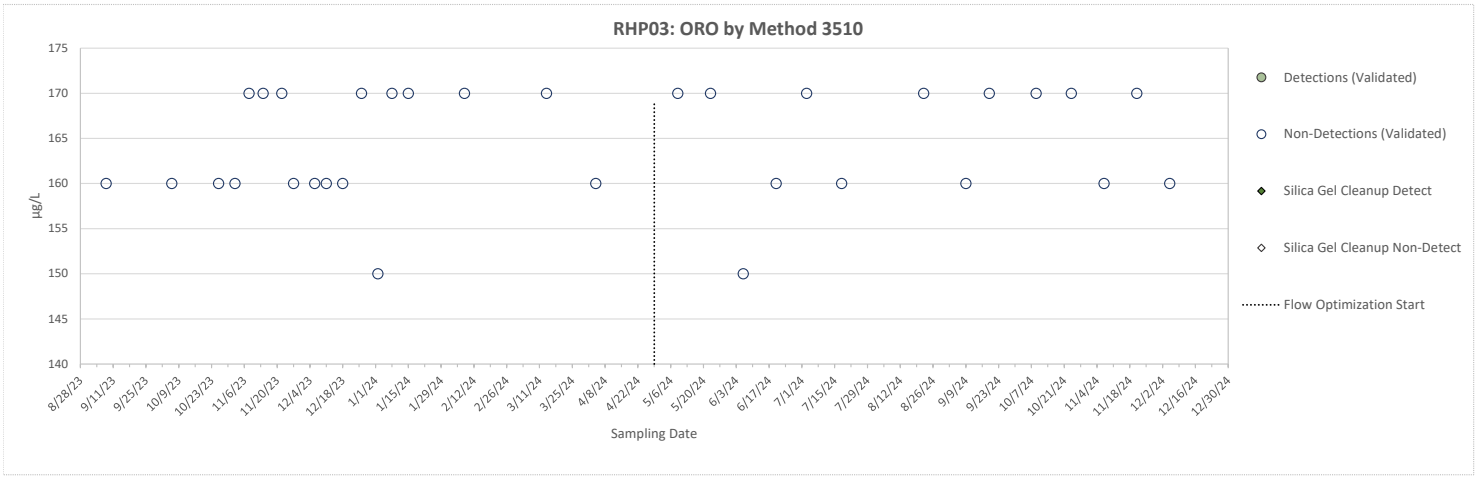


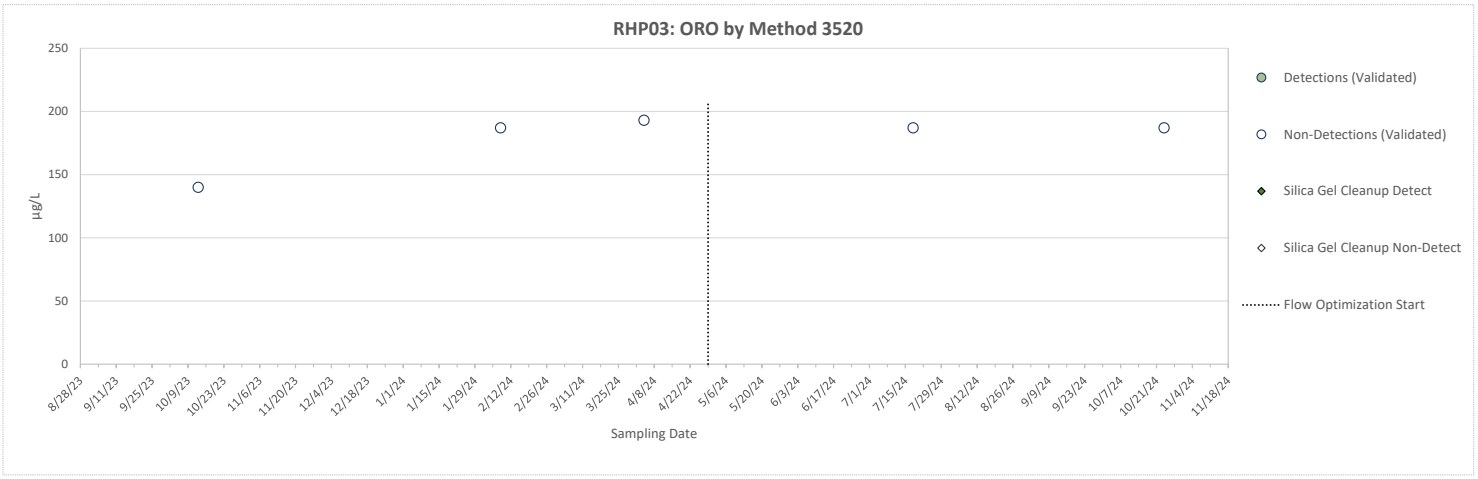
Note: See Data Legend

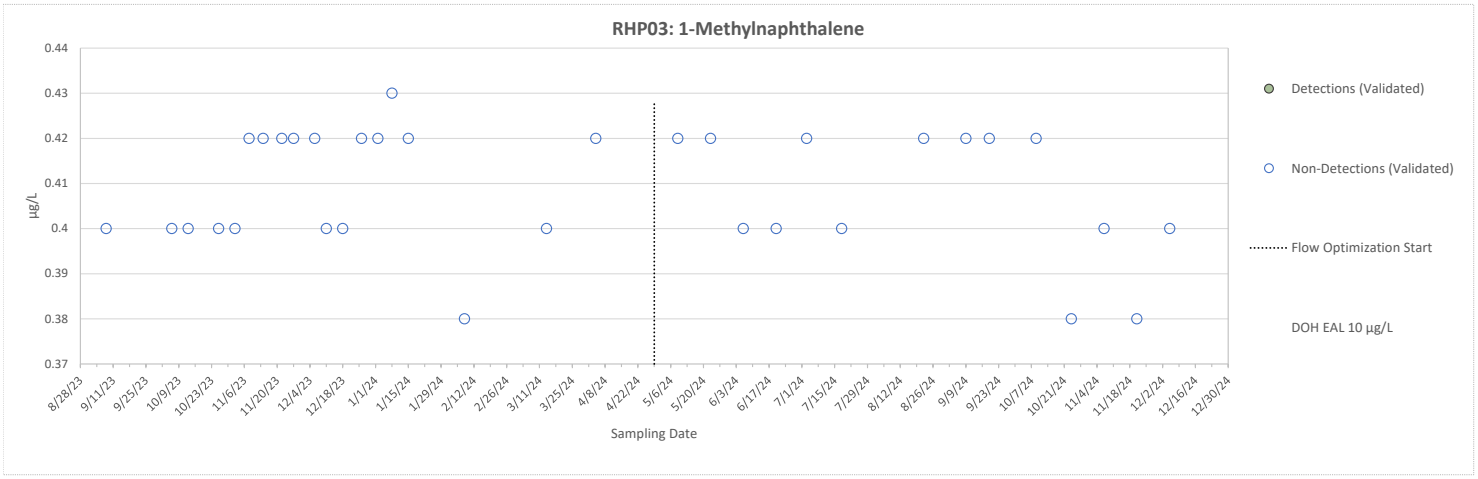

RHP03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

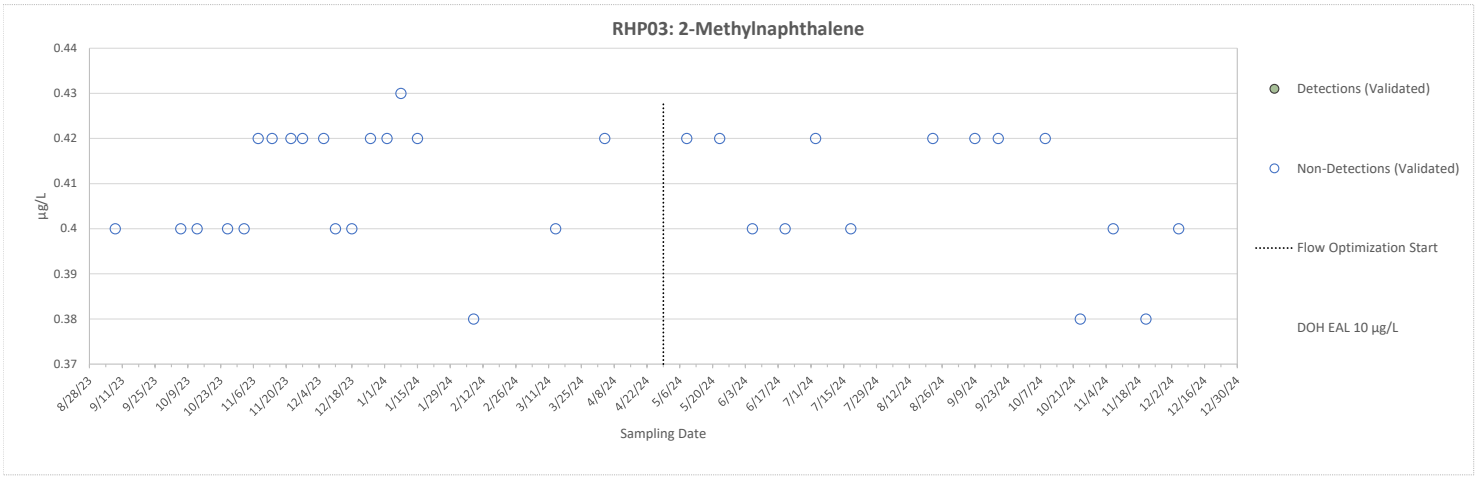

RHP03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

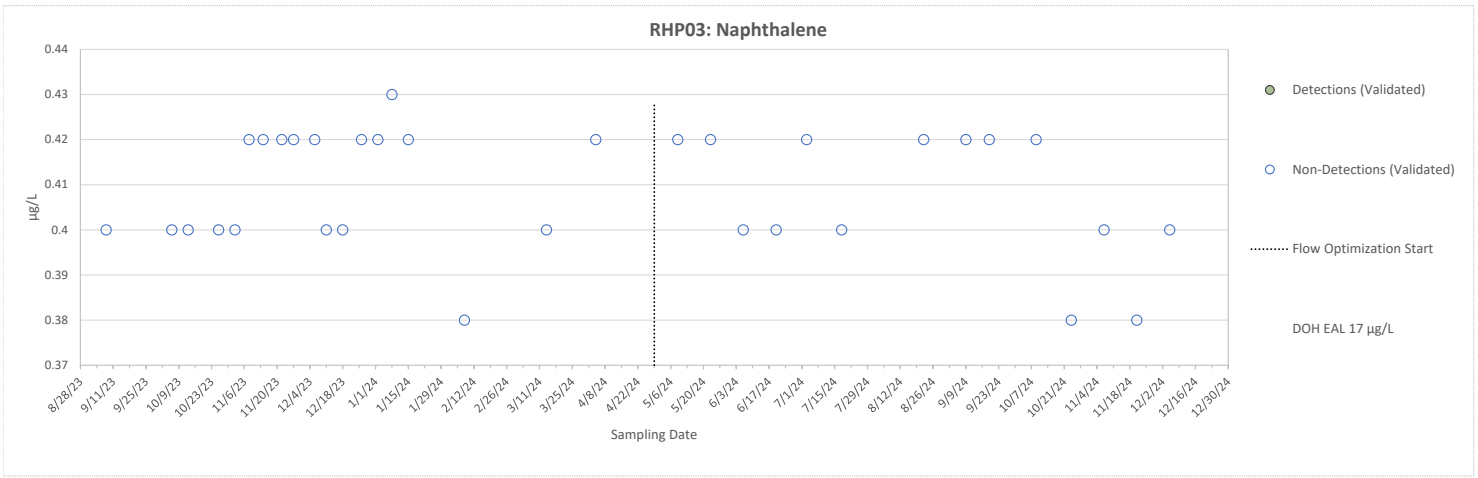

RHP03: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP03: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

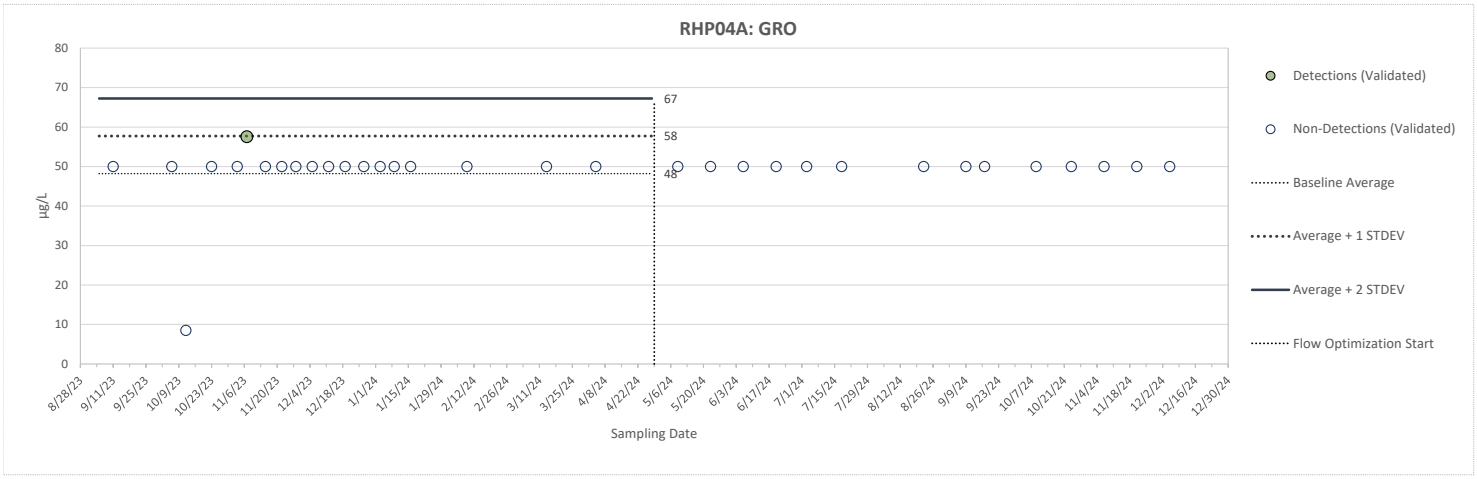

RHP03: ORO by Method 3520
µg/L
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

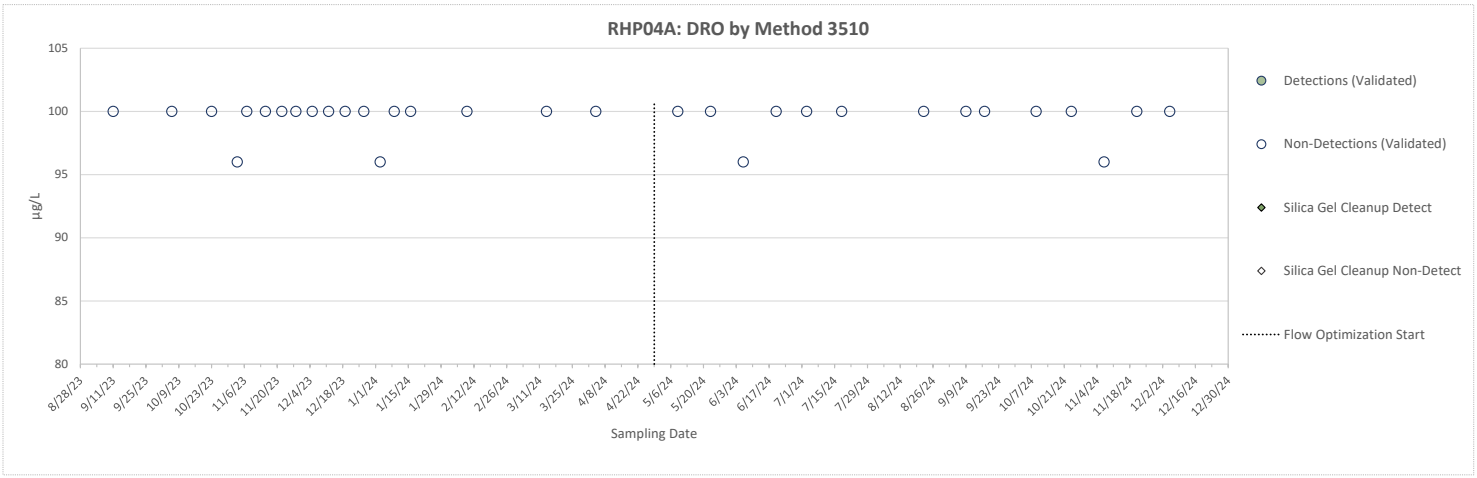


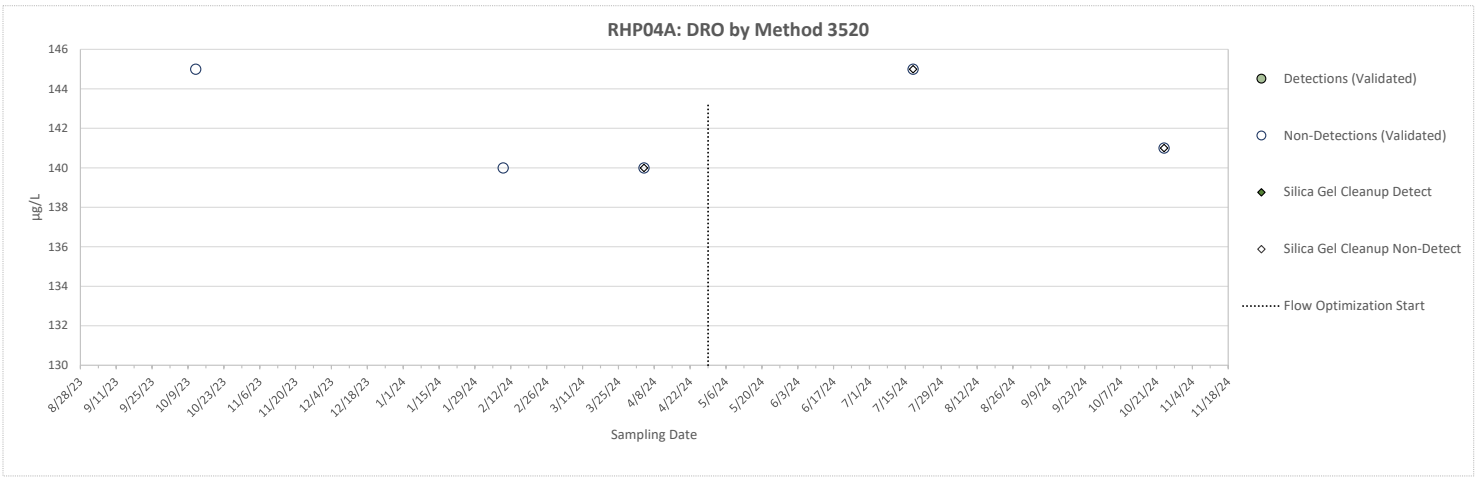


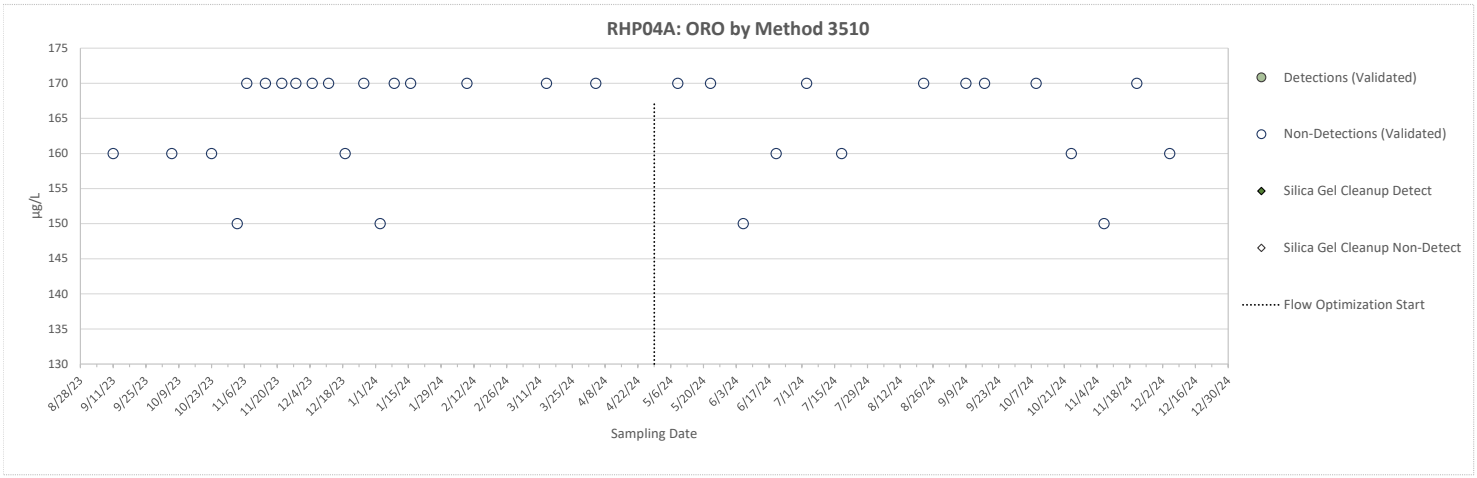


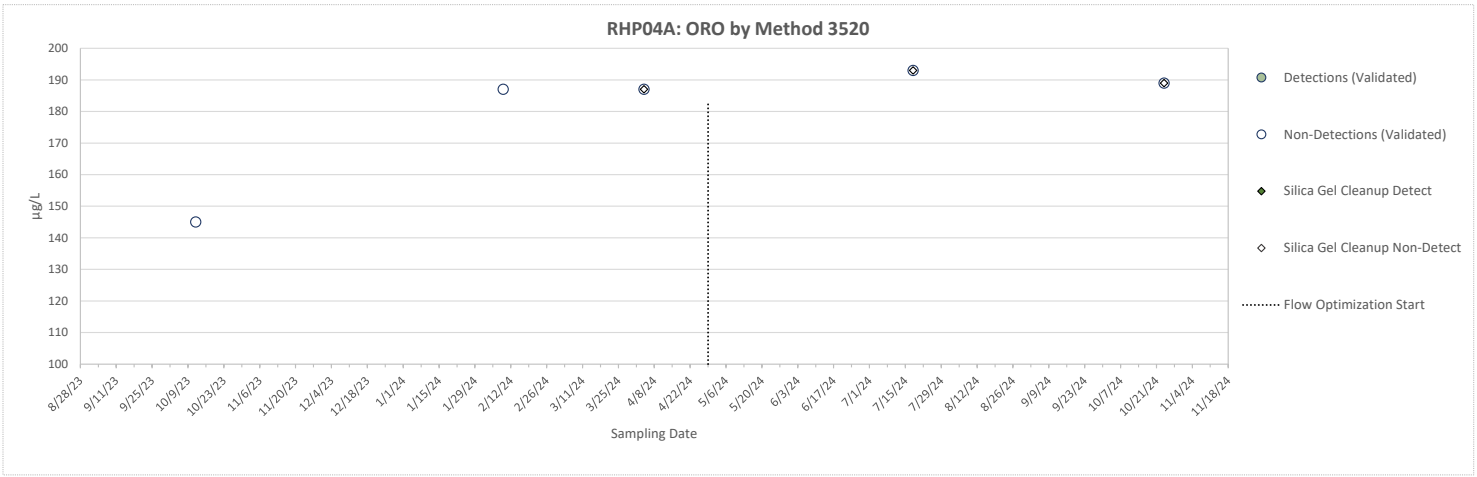
Note: See Data Legend

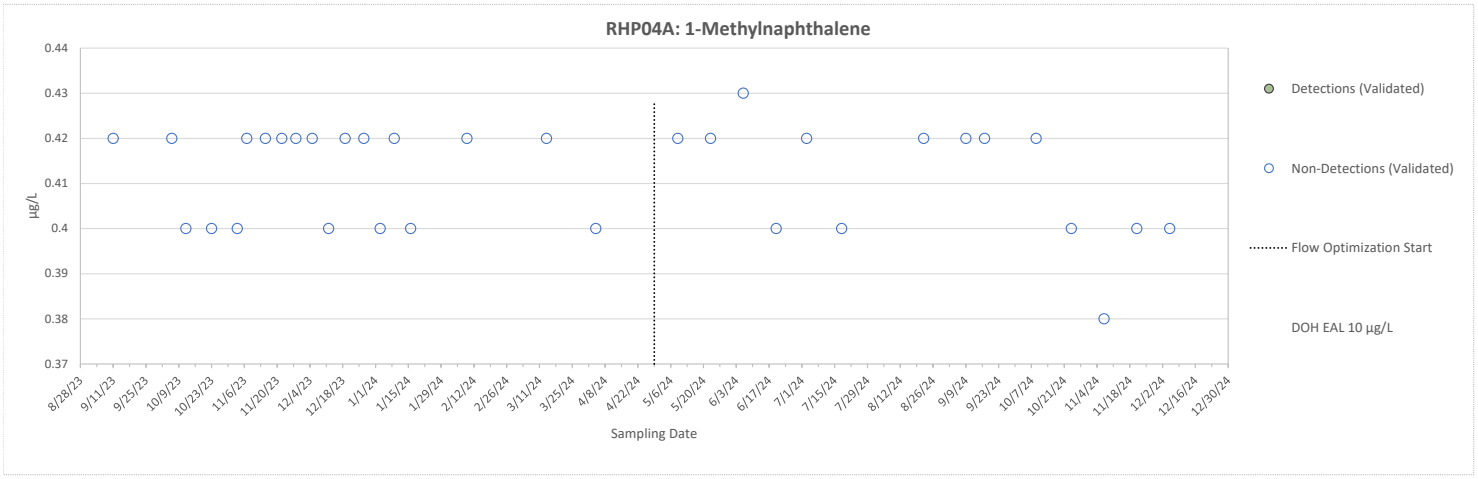

RHP04A: GRO
µg/L
Sampling Date
67
58
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

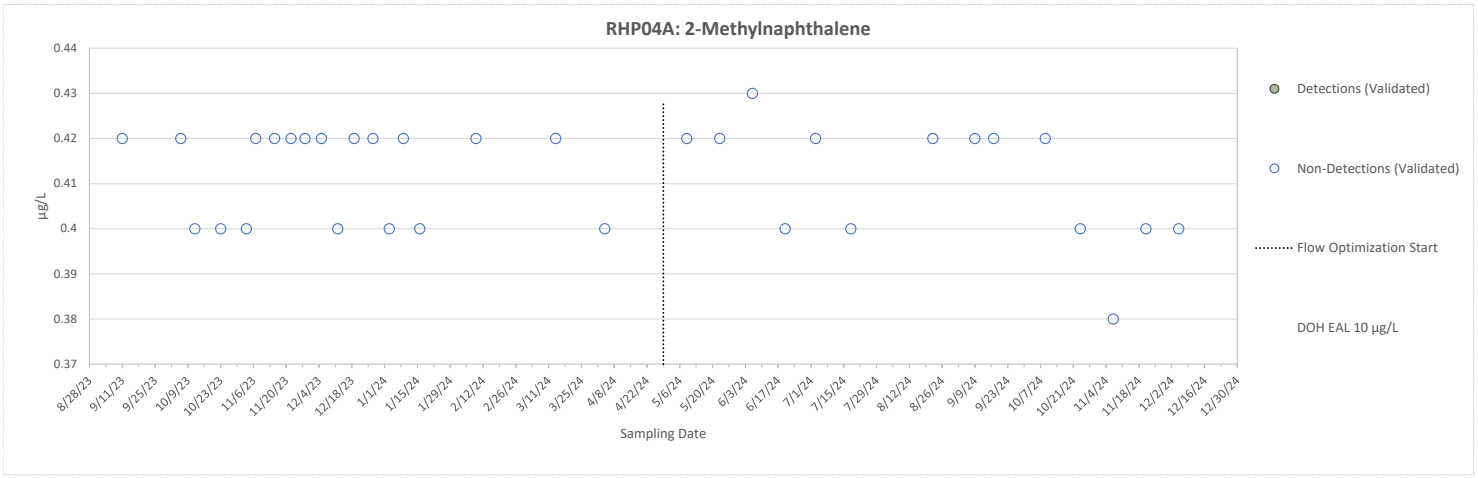

RHP04A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

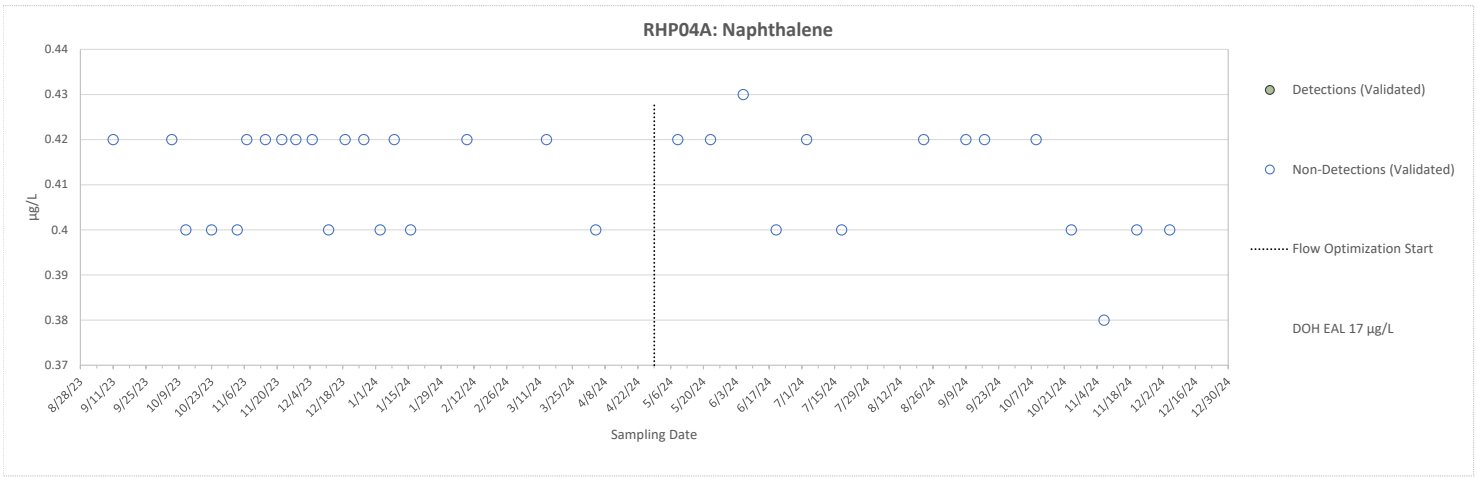

RHP04A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP04A: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

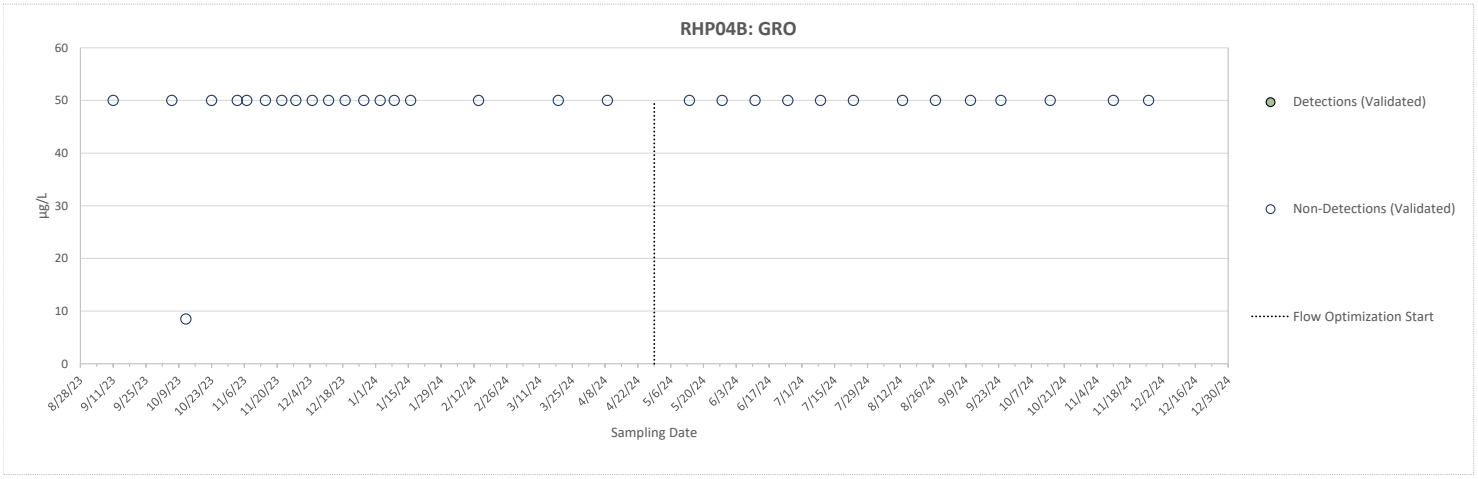

RHP04A: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
120
110
100
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

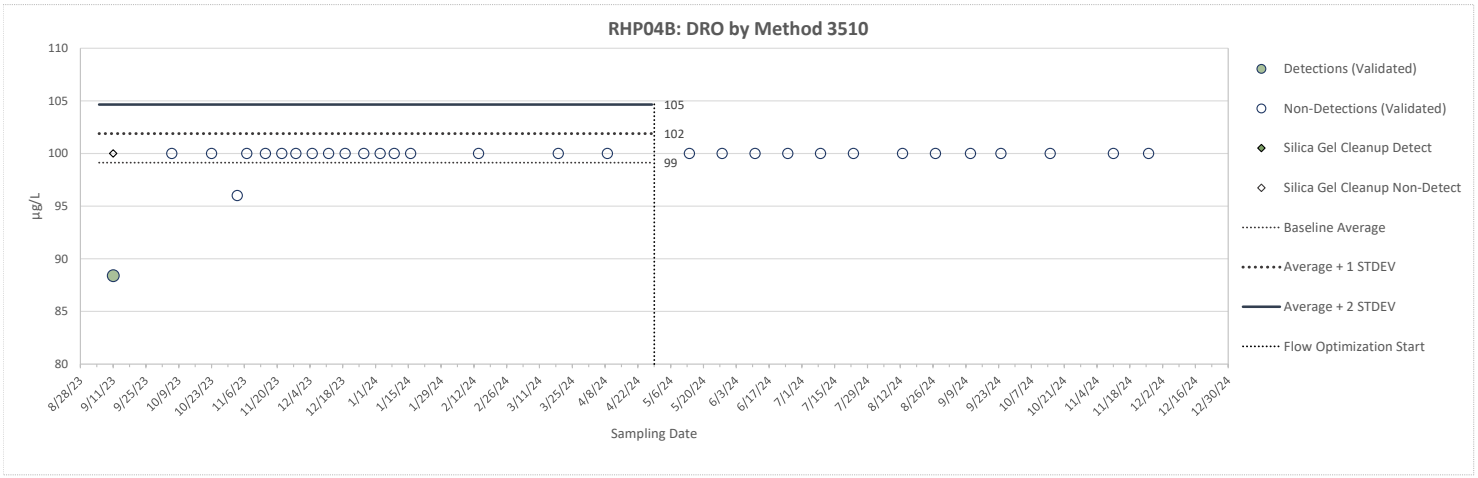


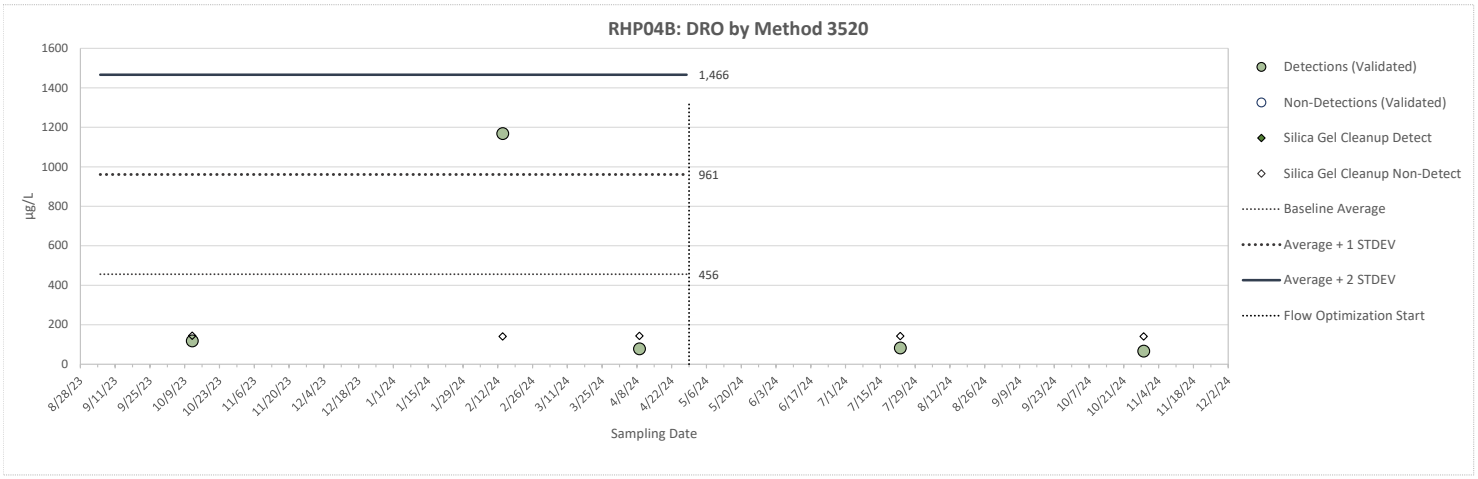


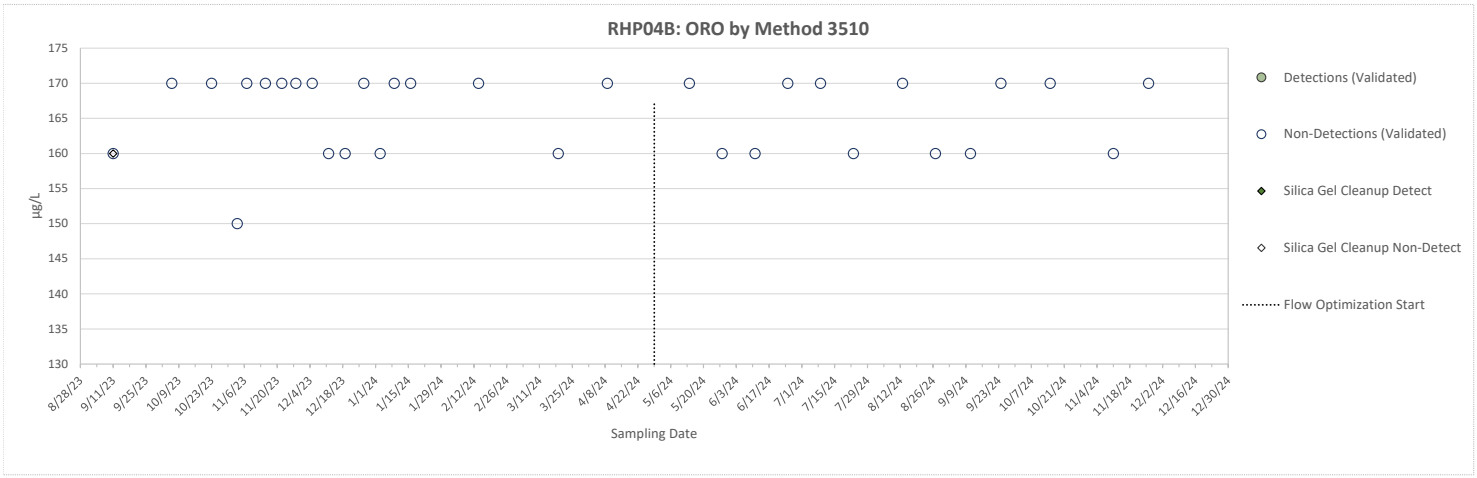


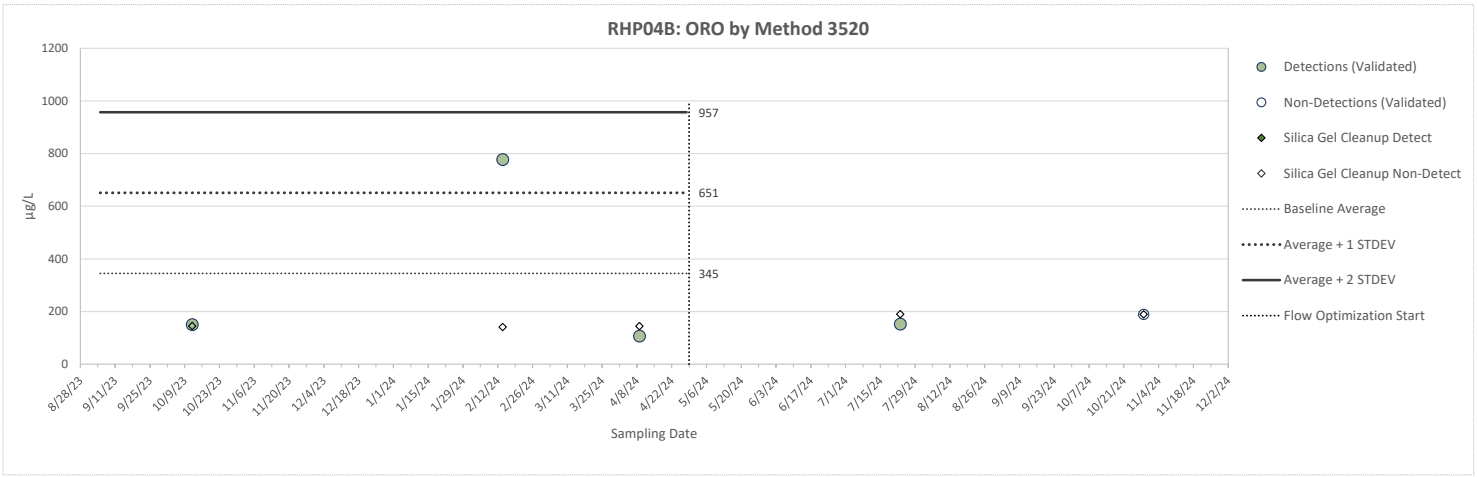
Note: See Data Legend

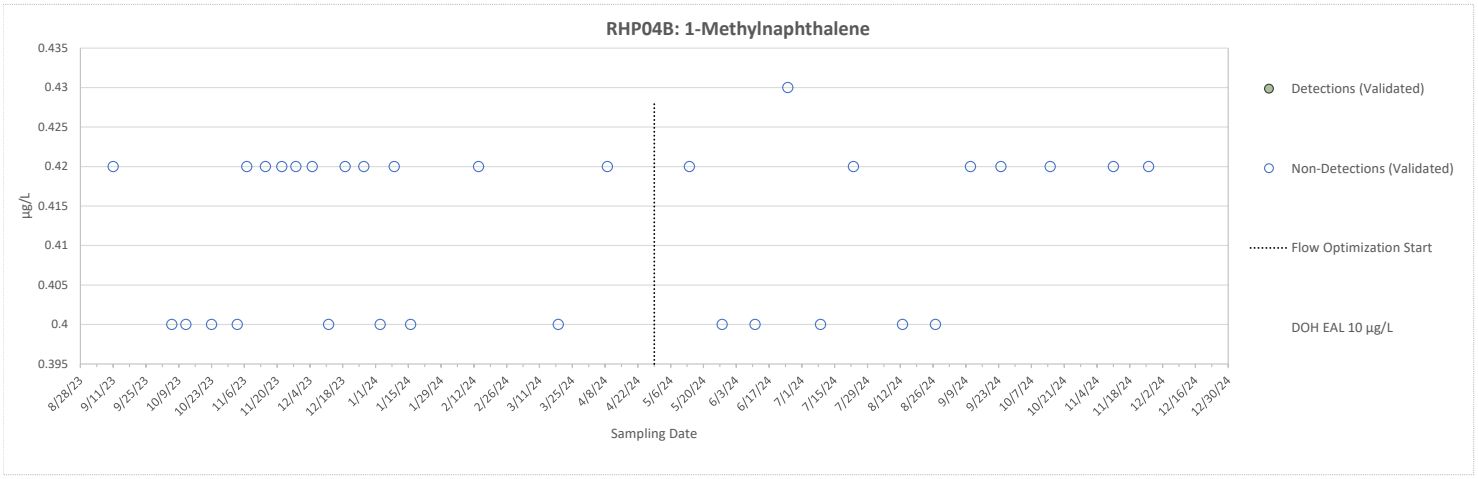

RHP04B: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

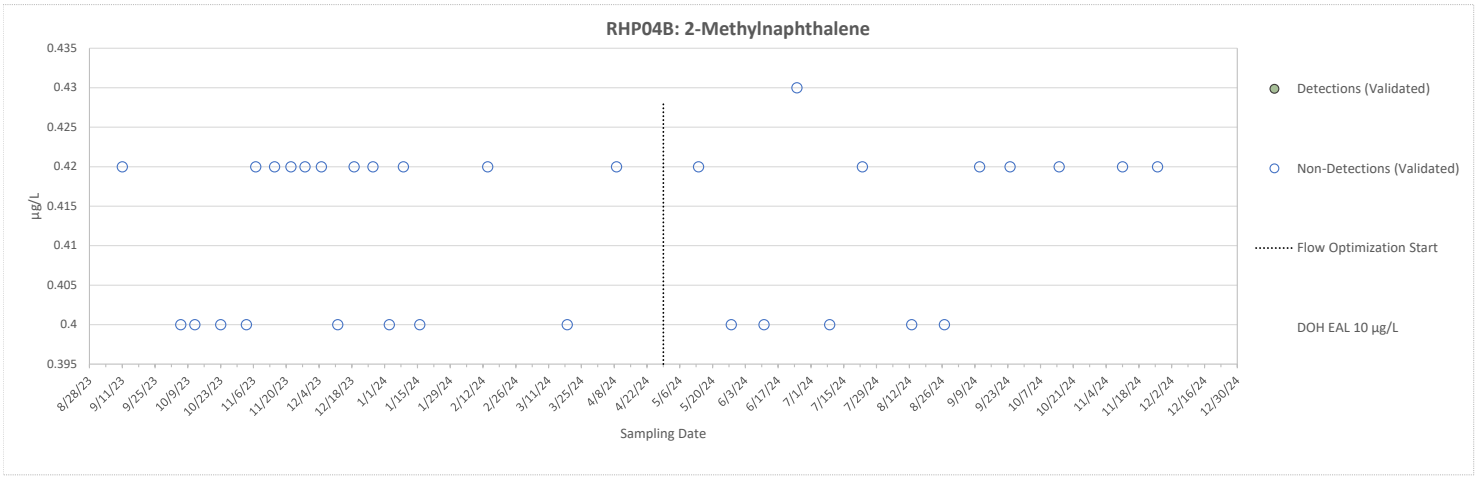

RHP04B: DRO by Method 3510
µg/L
105
102
99
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

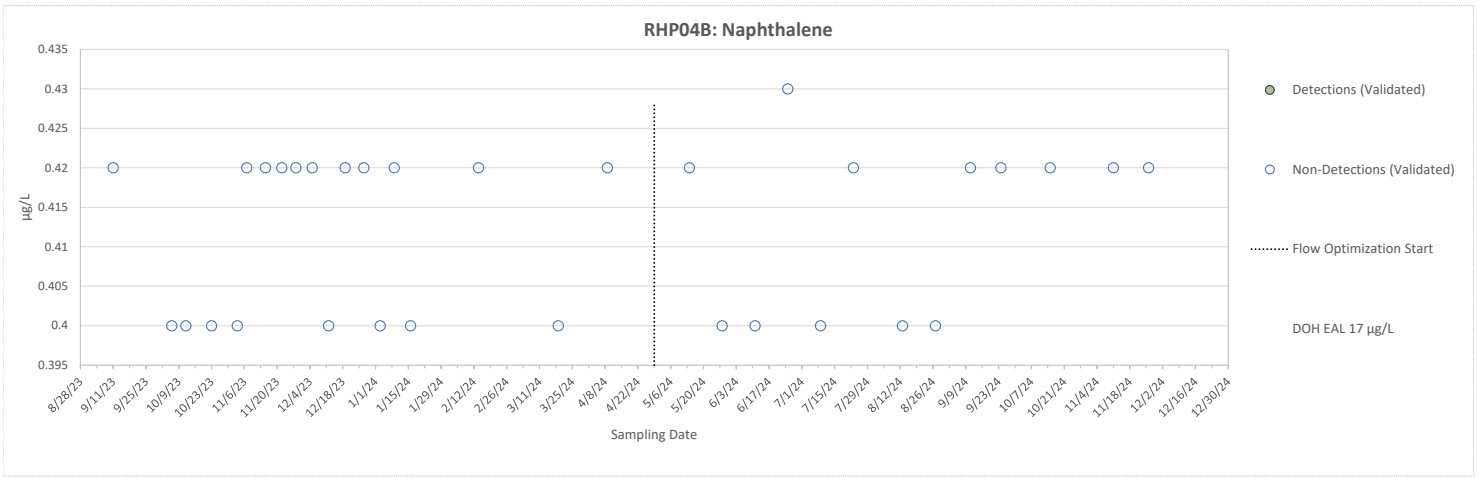

RHP04B: DRO by Method 3520
µg/L
1,466
961
456
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHP04B: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

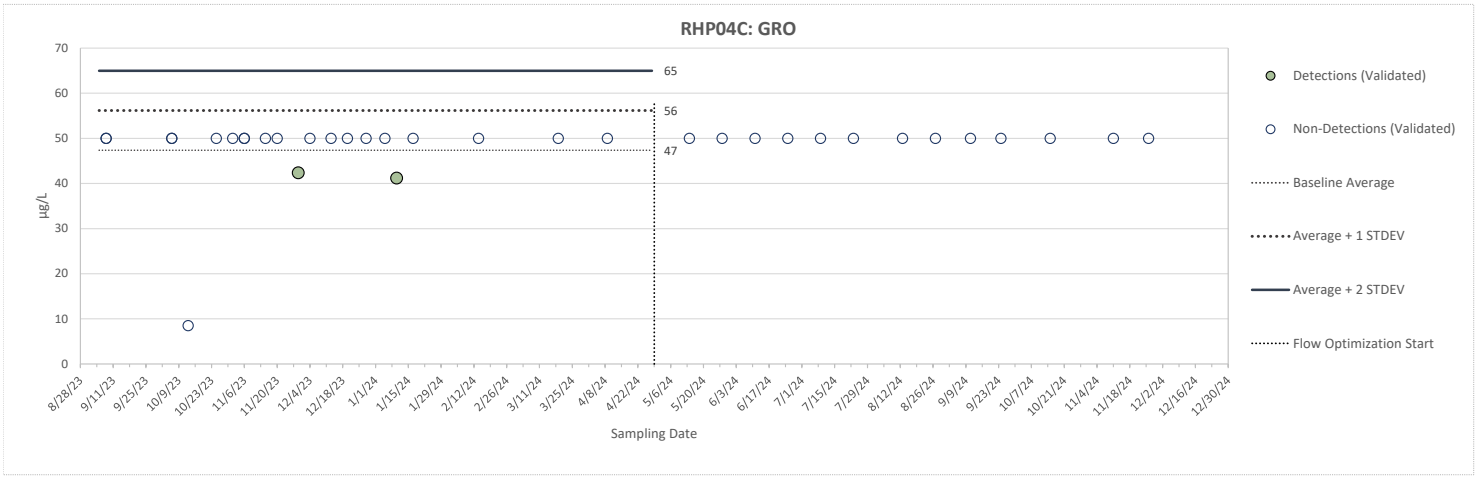

RHP04B: ORO by Method 3520
µg/L
1200
1000
800
600
400
200
0
957
651
345
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

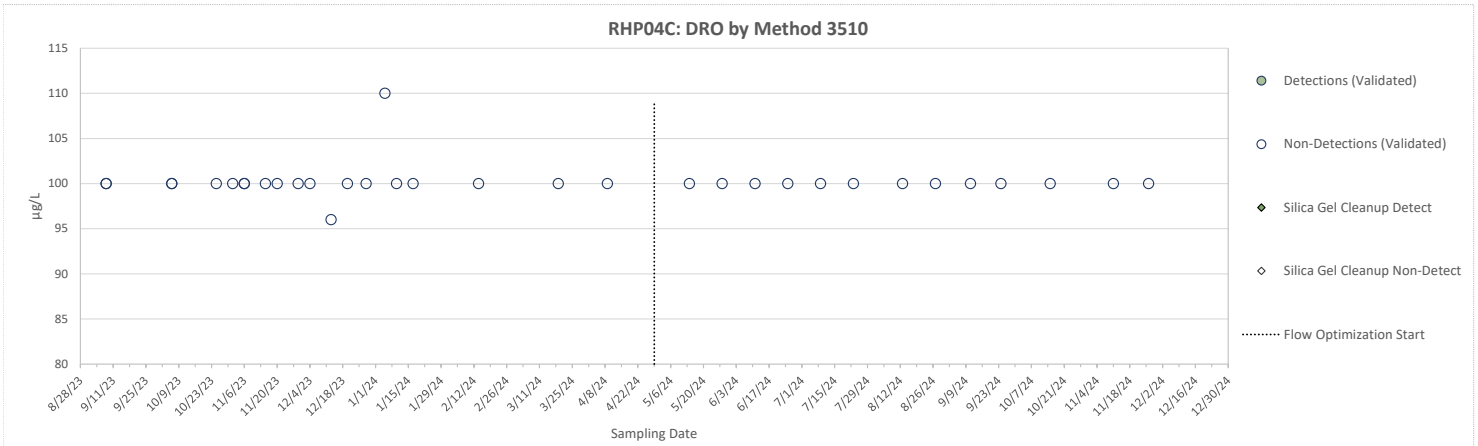


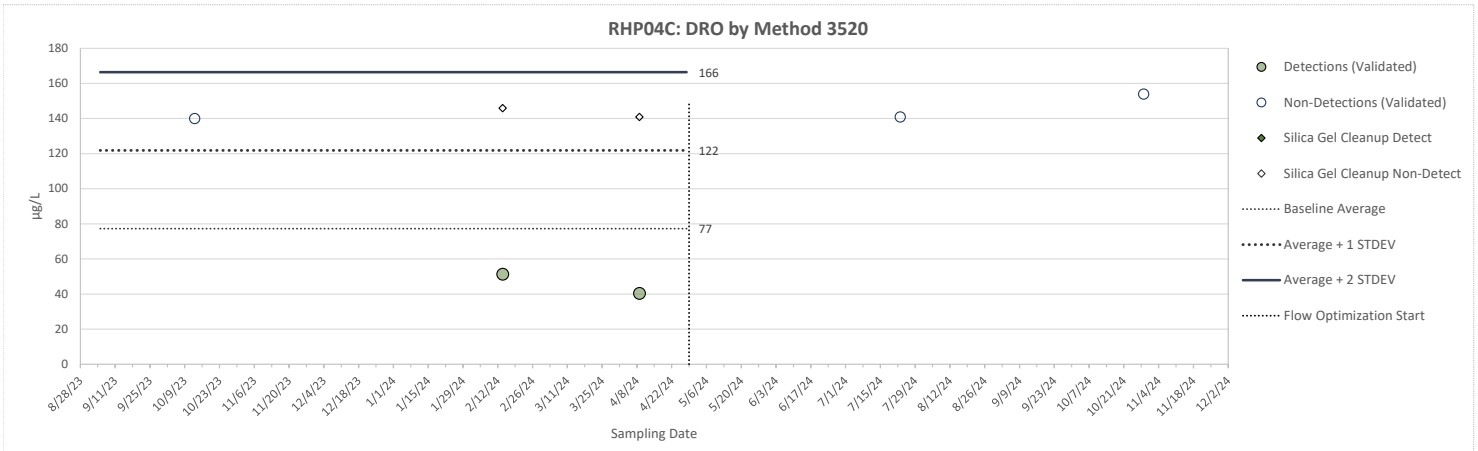


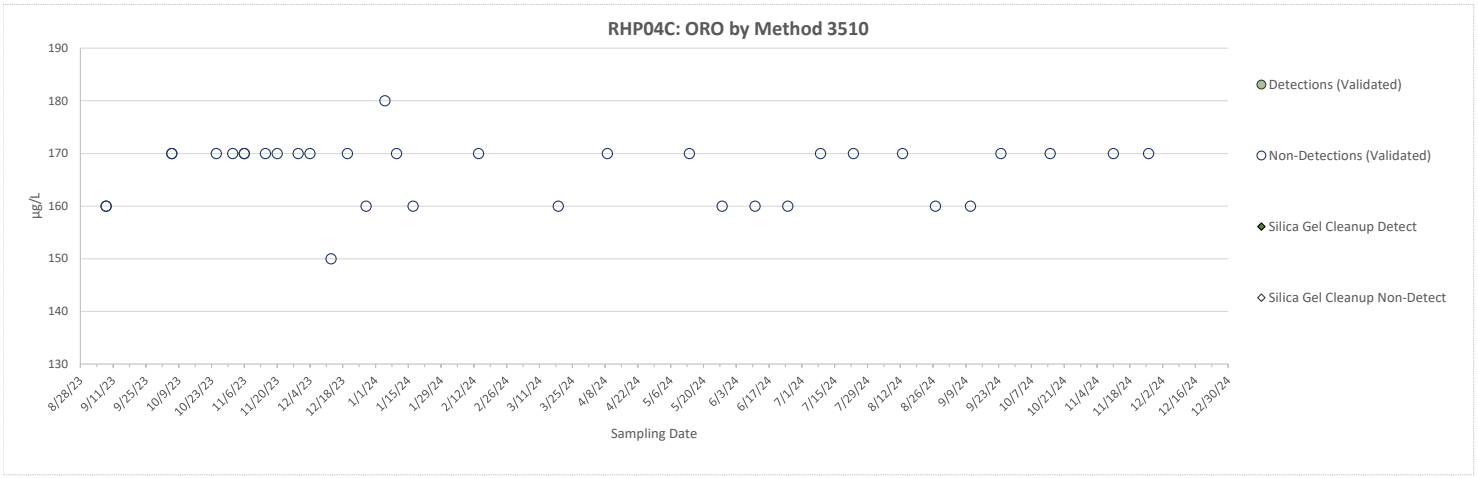


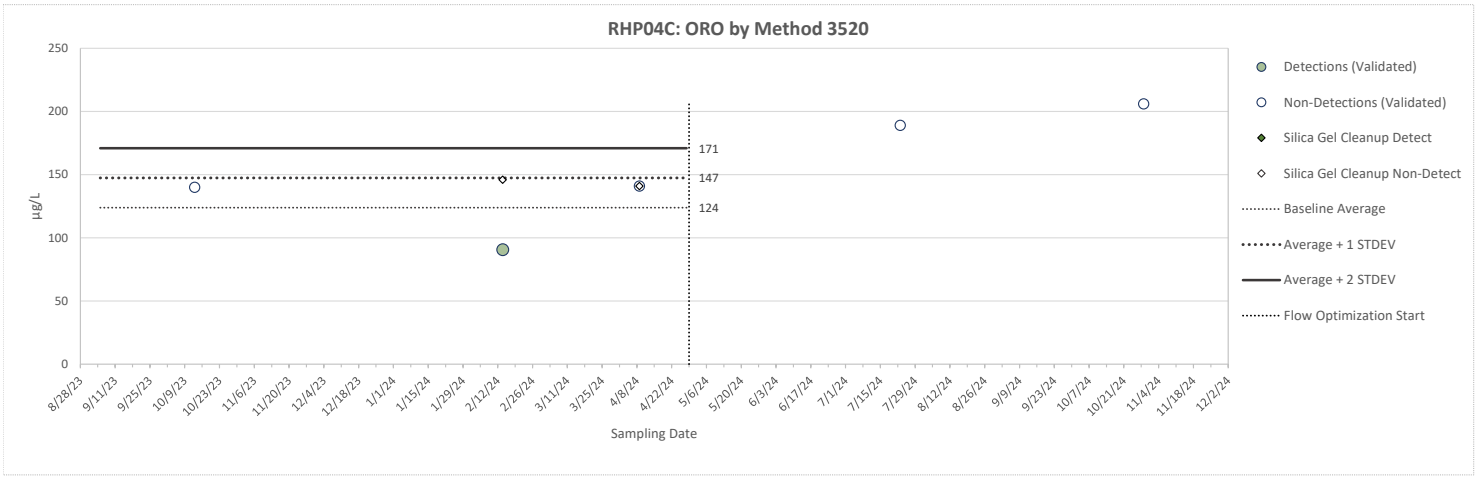
Note: See Data Legend

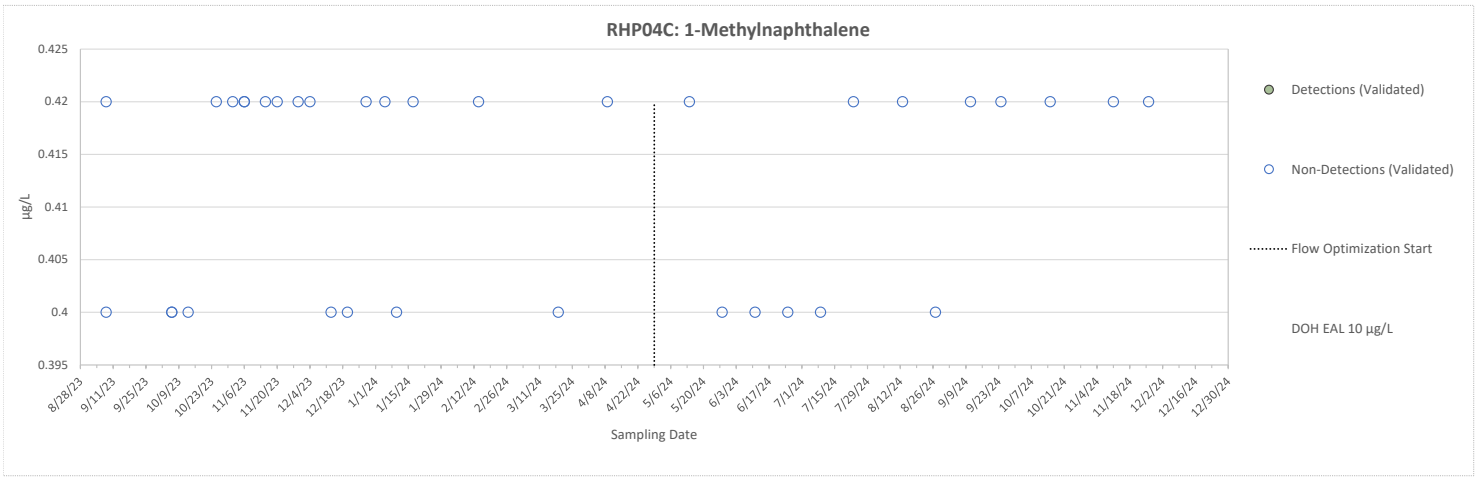

RHP04C: GRO
µg/L
Sampling Date
65
56
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

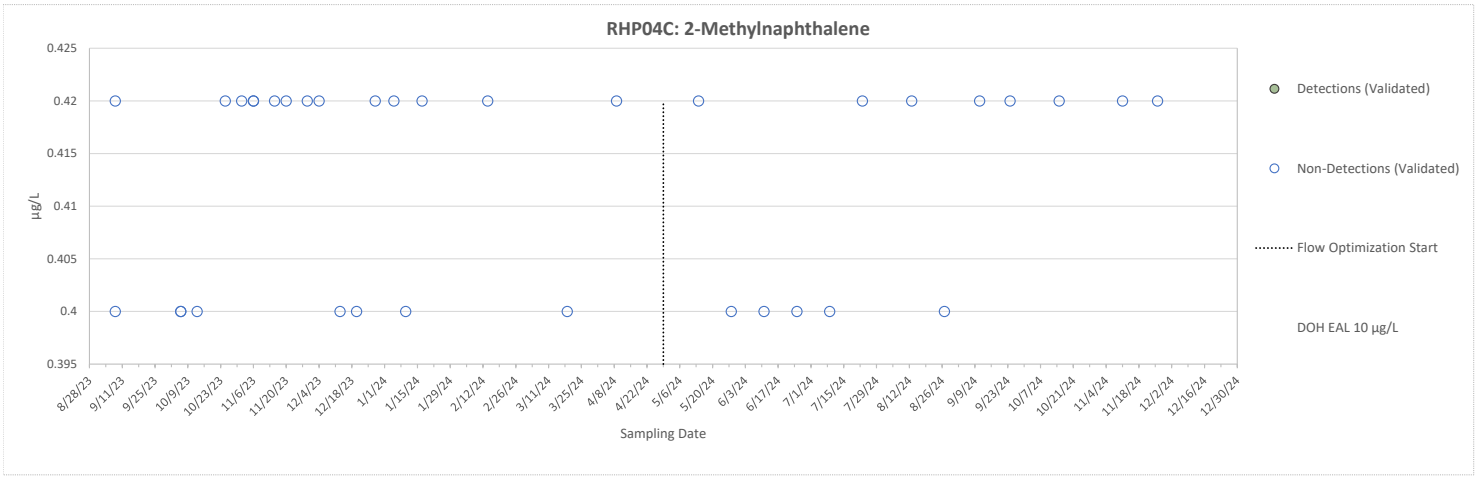

RHP04C: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

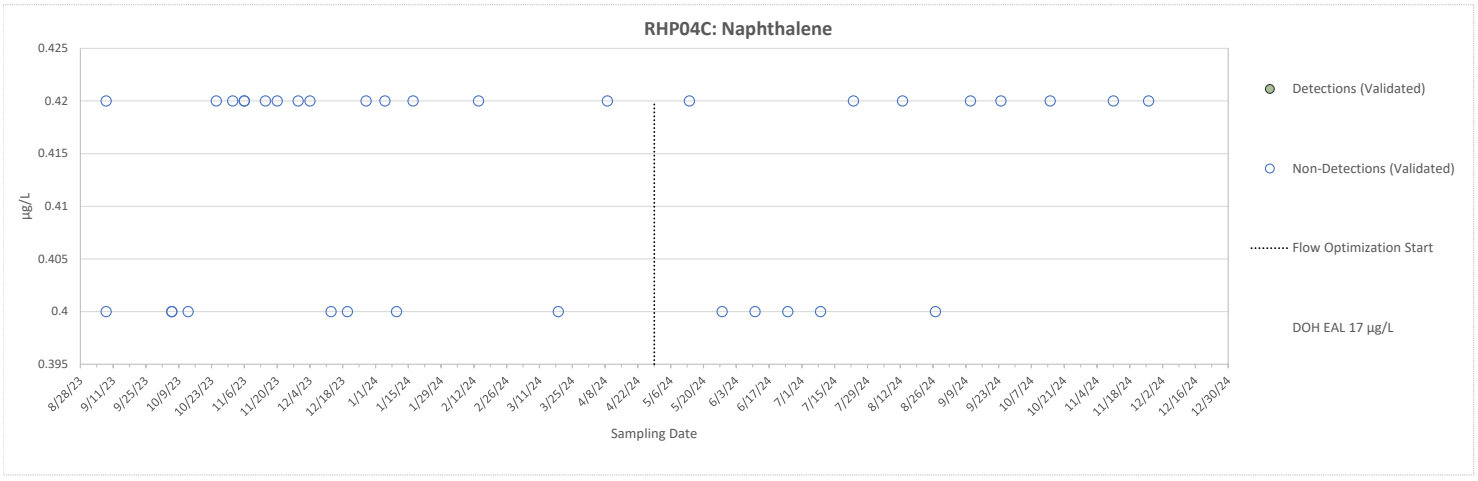

RHP04C: DRO by Method 3520
µg/L
Sampling Date
166
122
77
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHP04C: ORO by Method 3510
µg/L
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

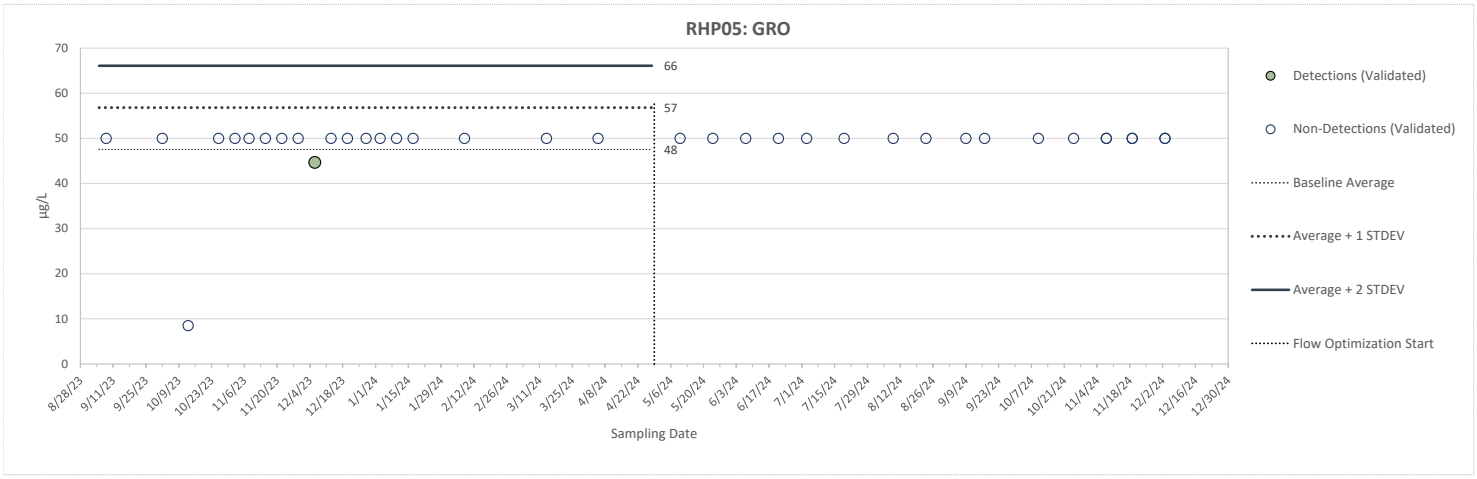

RHP04C: ORO by Method 3520
µg/L
250
200
150
100
50
0
171
147
124
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

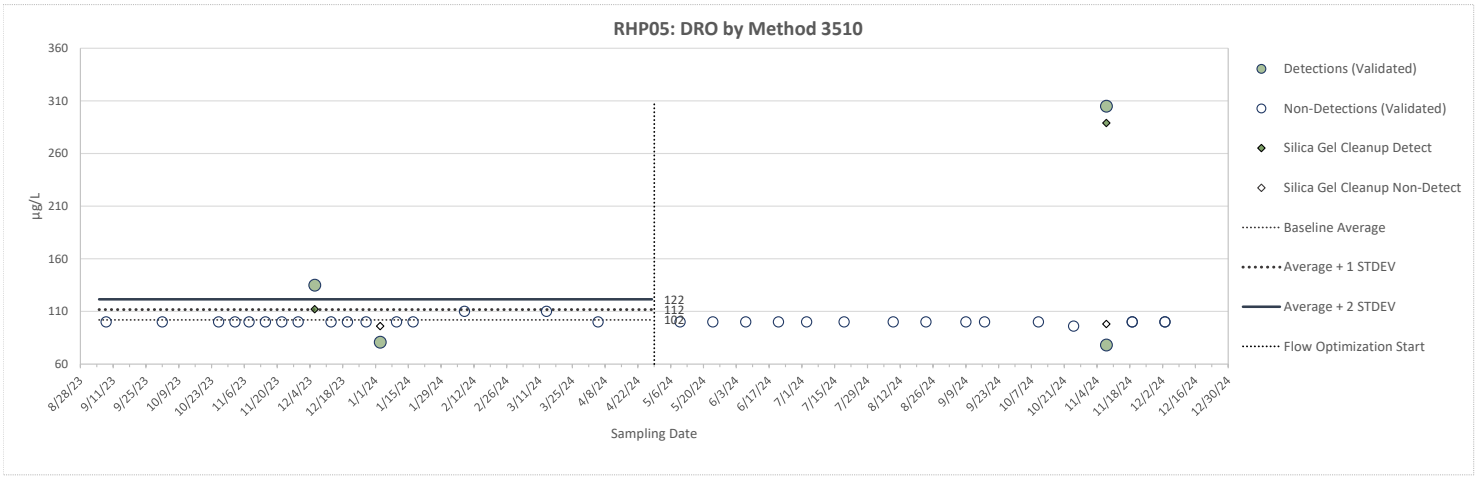


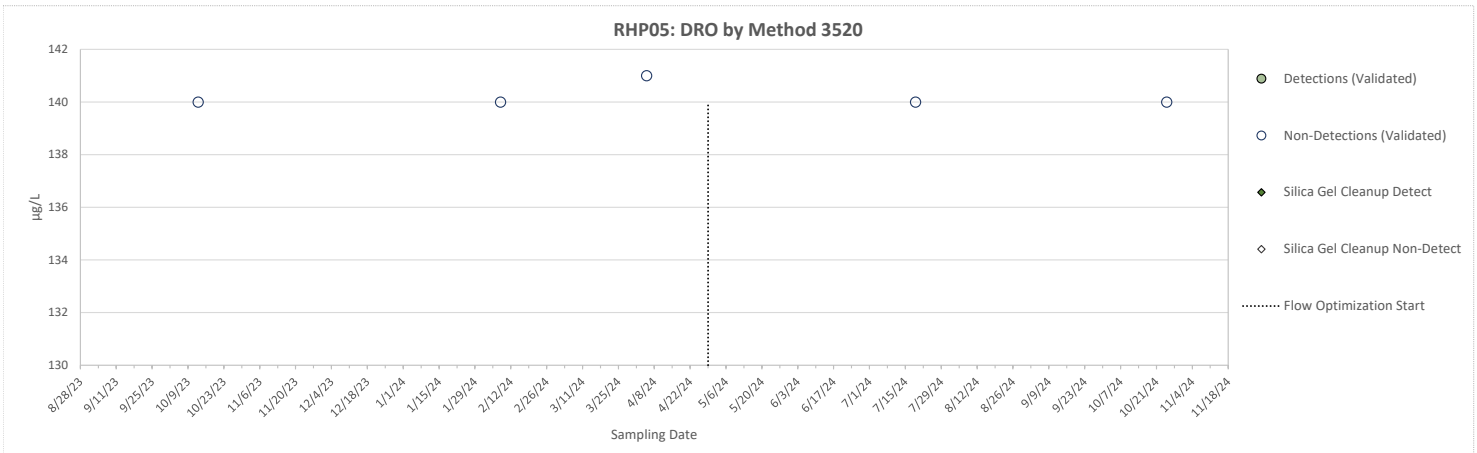


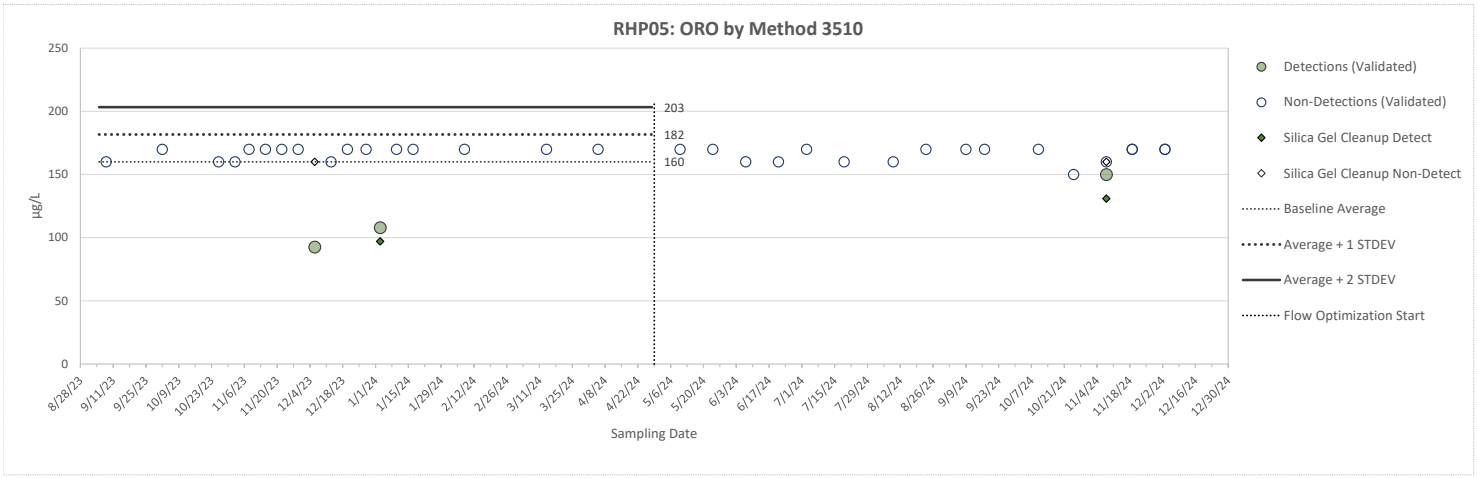


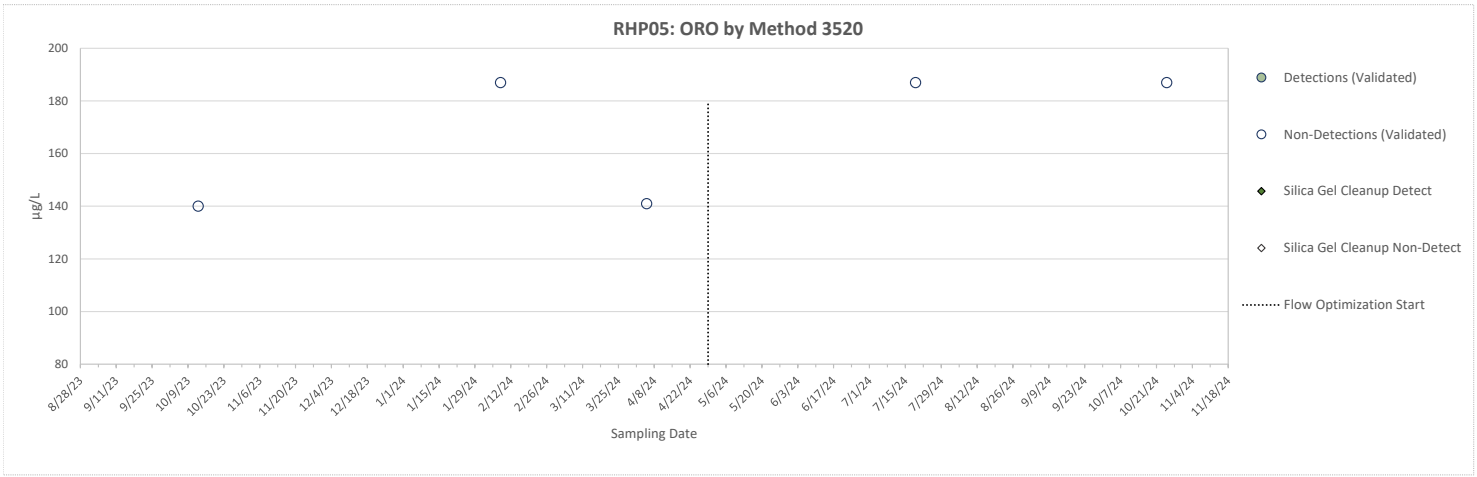
Note: See Data Legend

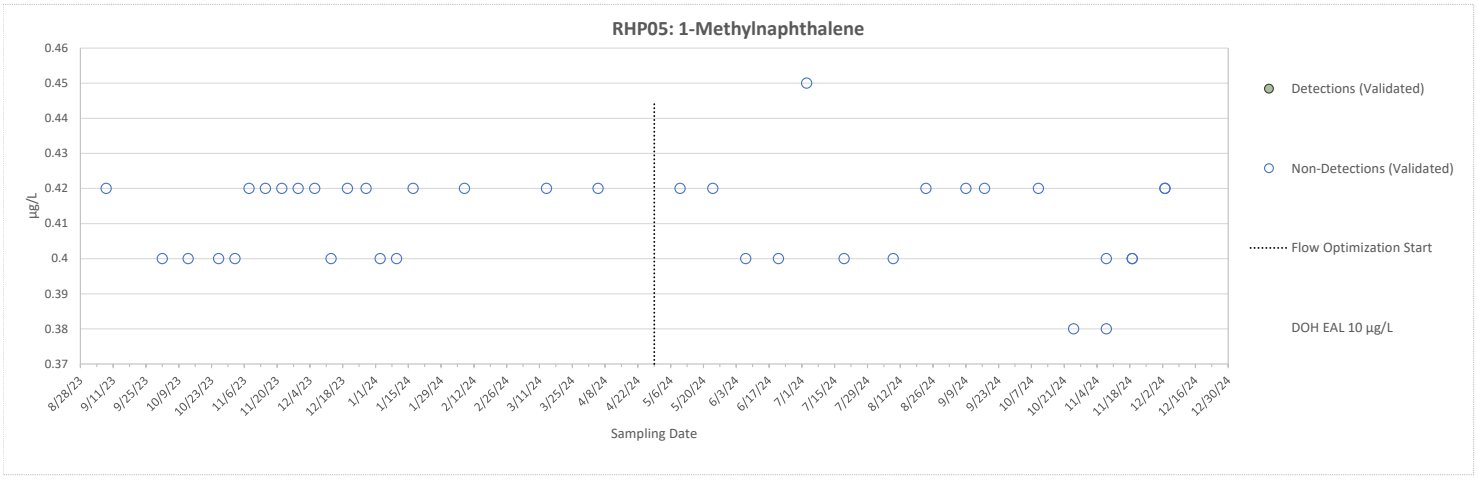

RHP05: GRO
70
60
50
40
30
20
10
0
µg/L
66
57
48
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

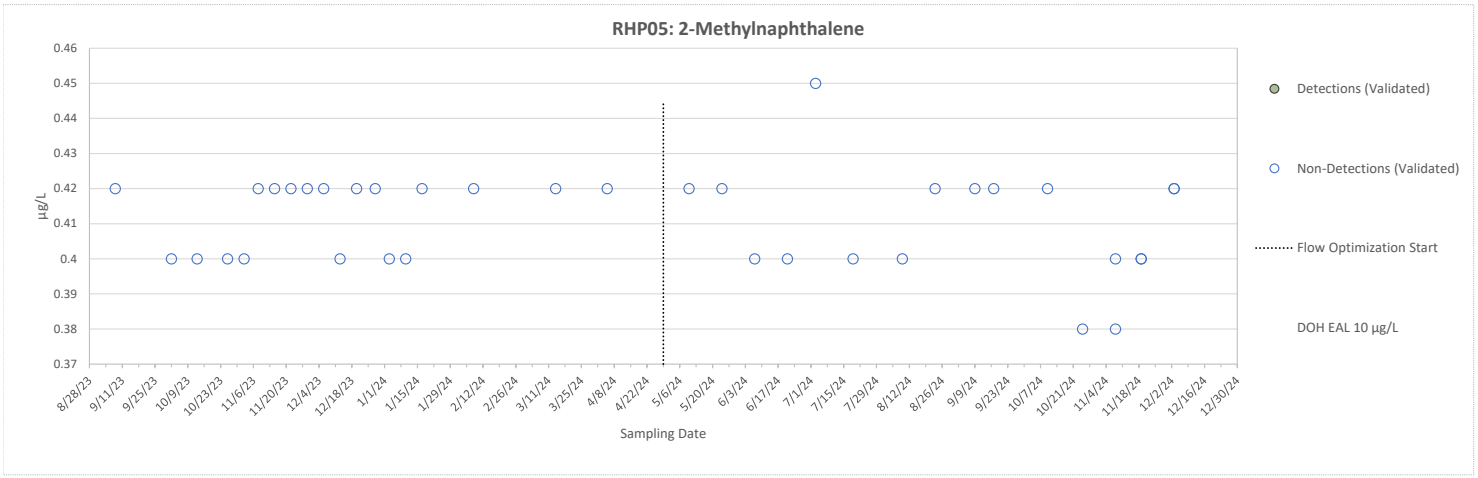

RHP05: DRO by Method 3510
360
310
260
210
160
110
60
µg/L
122
112
102
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

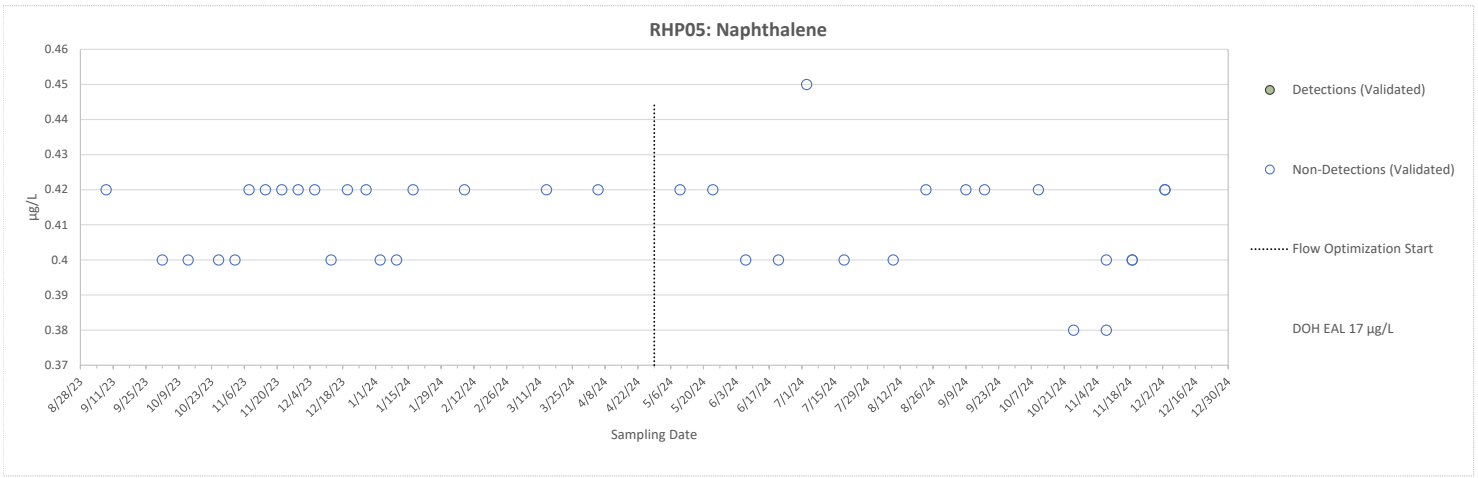

RHP05: DRO by Method 3520
142
140
138
136
134
132
130
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP05: ORO by Method 3510
µg/L
Sampling Date
203
182
160
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

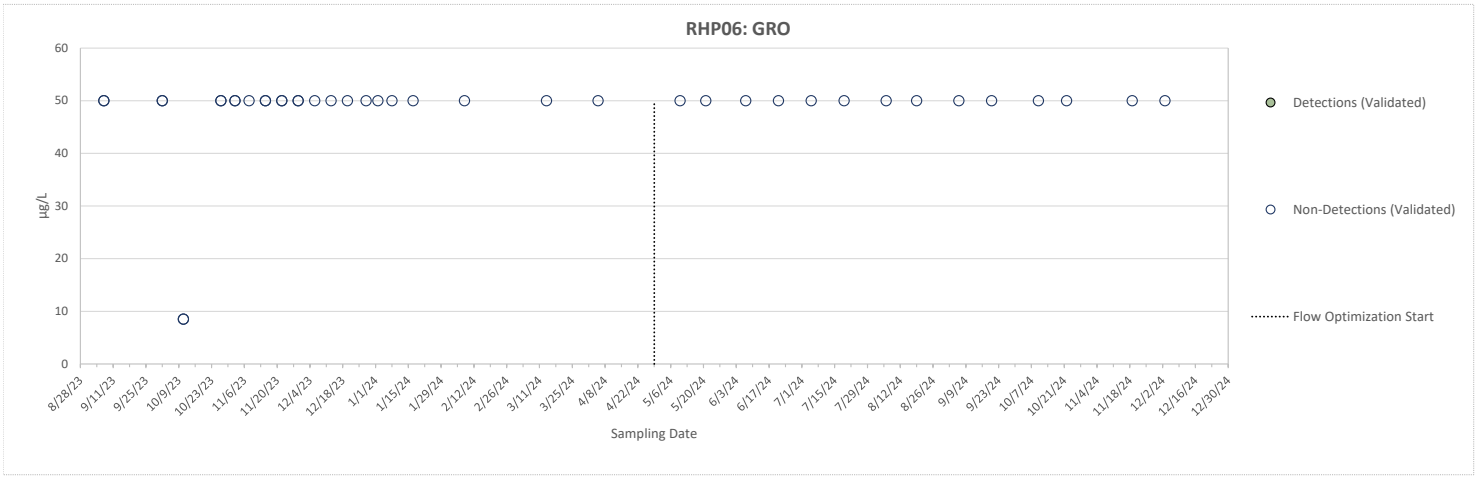

RHP05: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

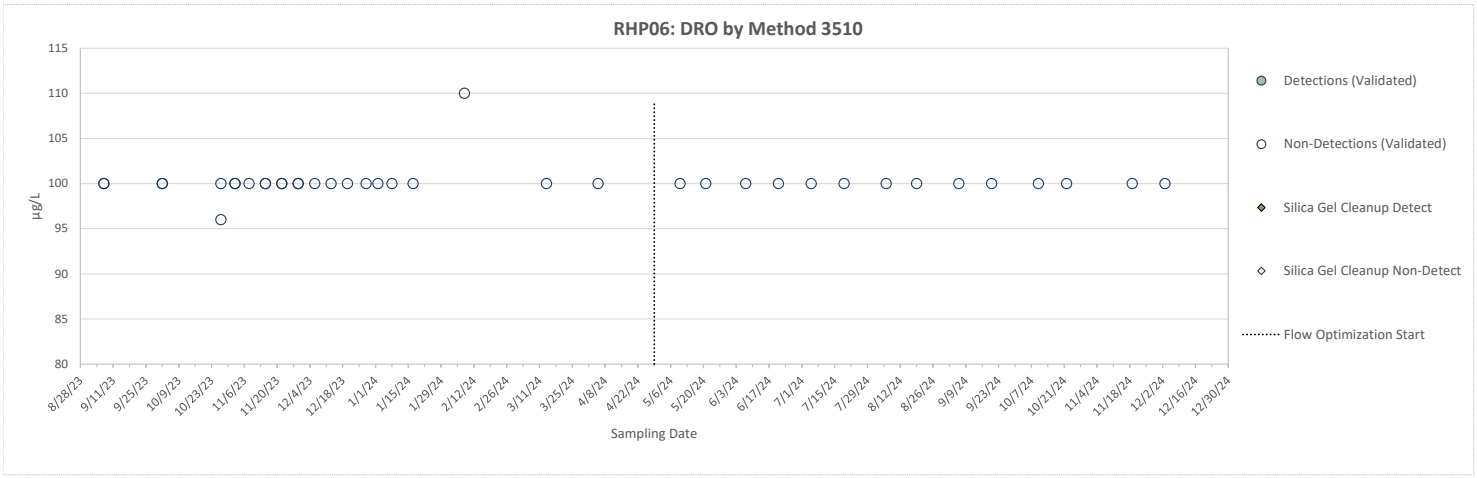


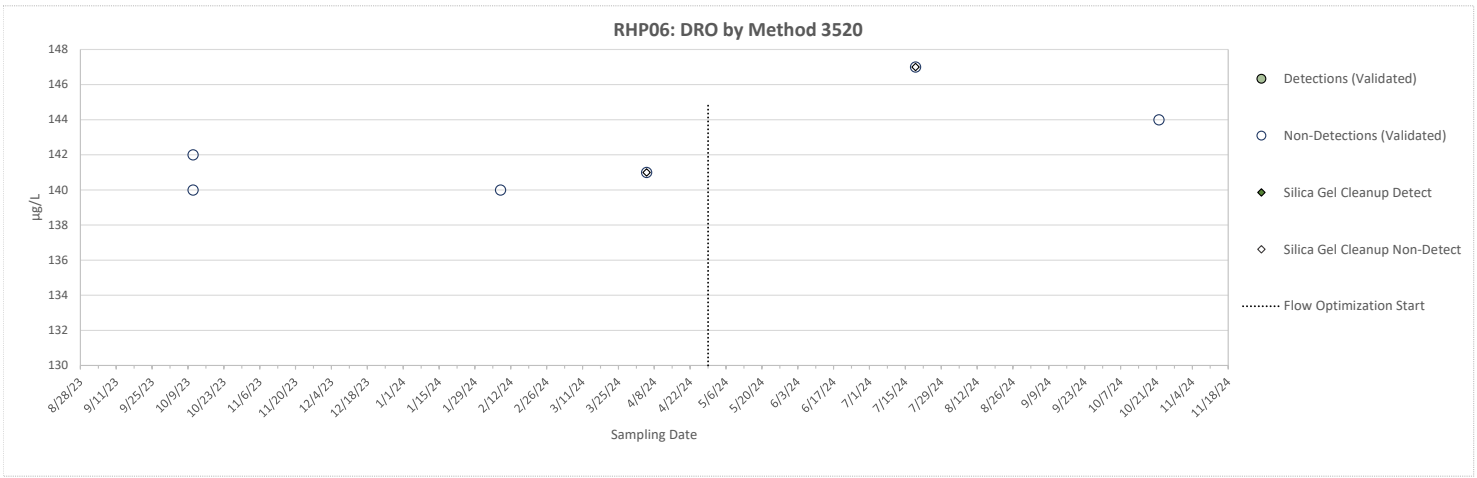


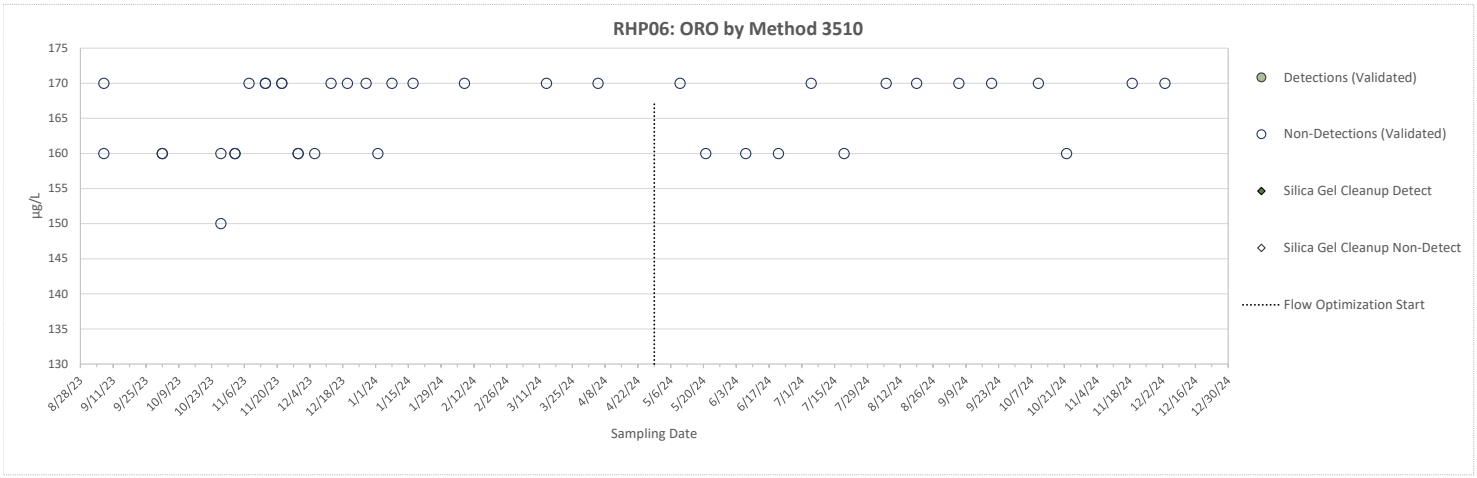


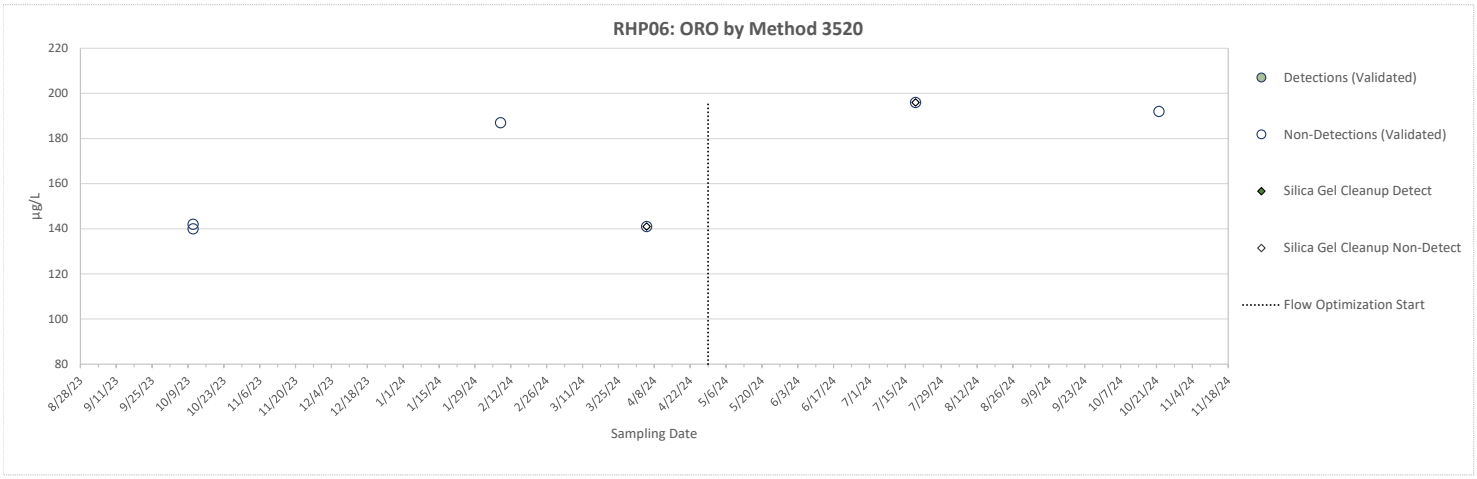
Note: See Data Legend

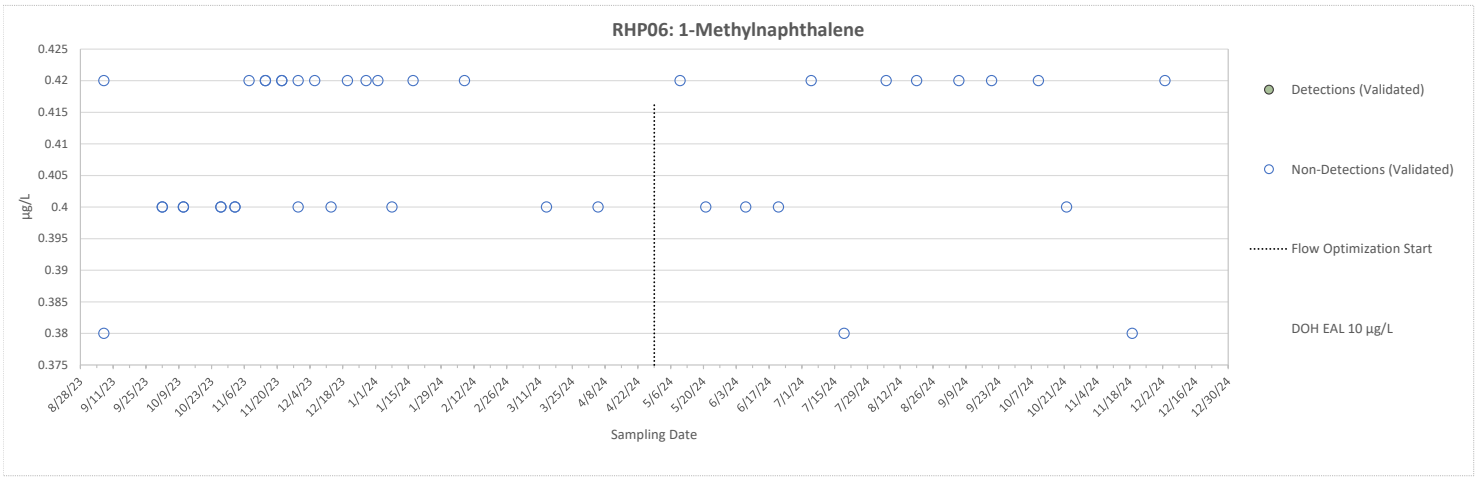

RHP06: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

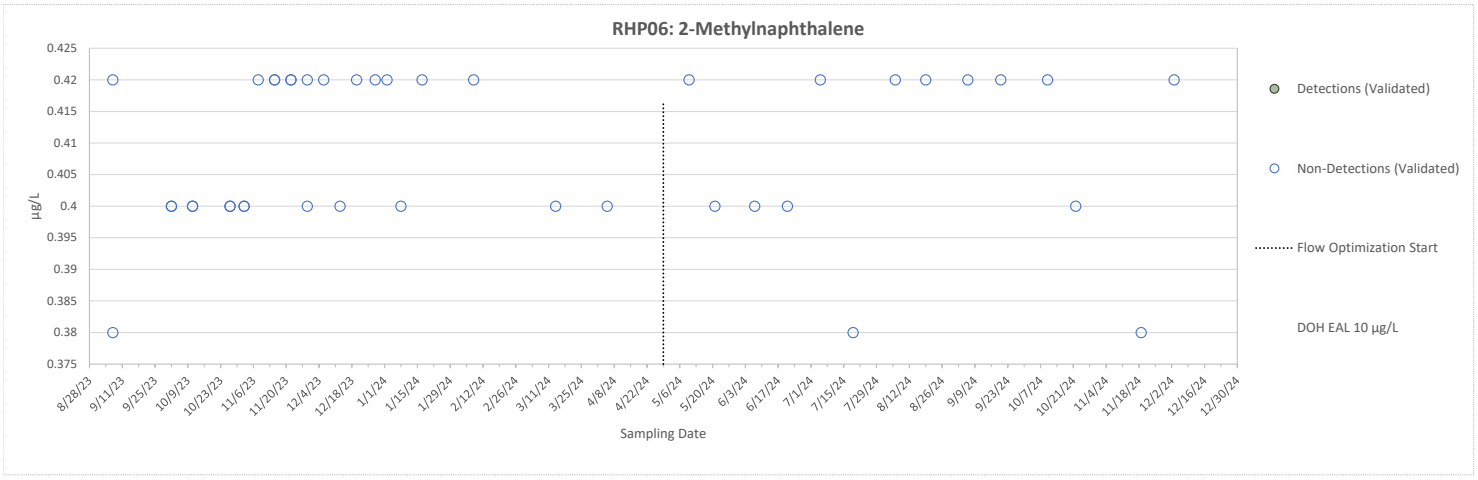

RHP06: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

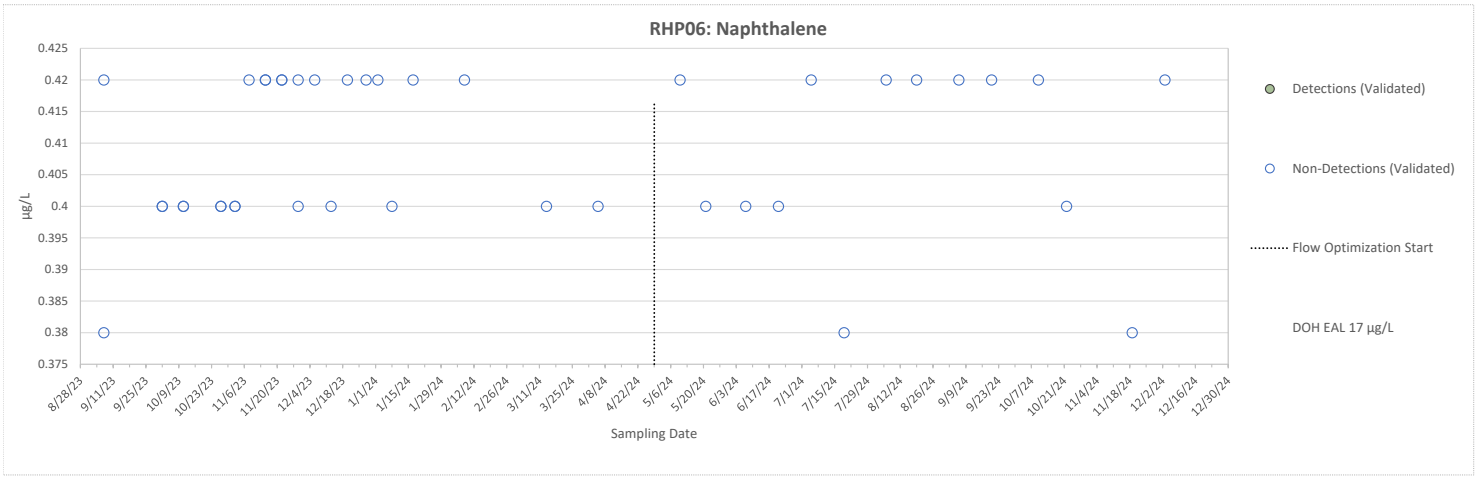

RHP06: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP06: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

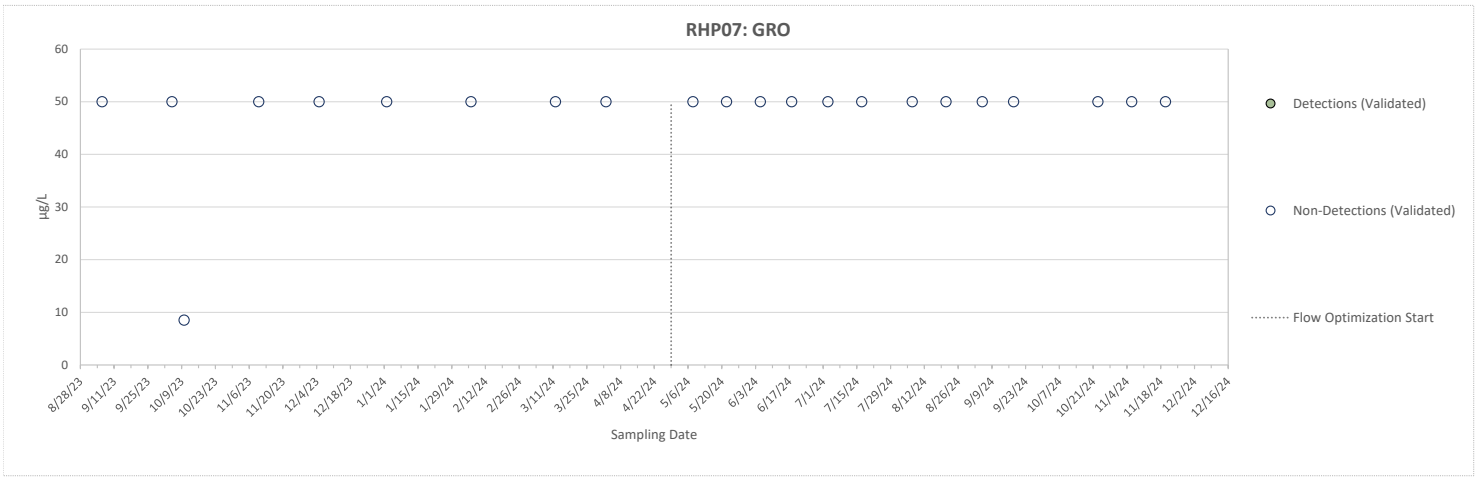

RHP06: ORO by Method 3520
µg/L
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

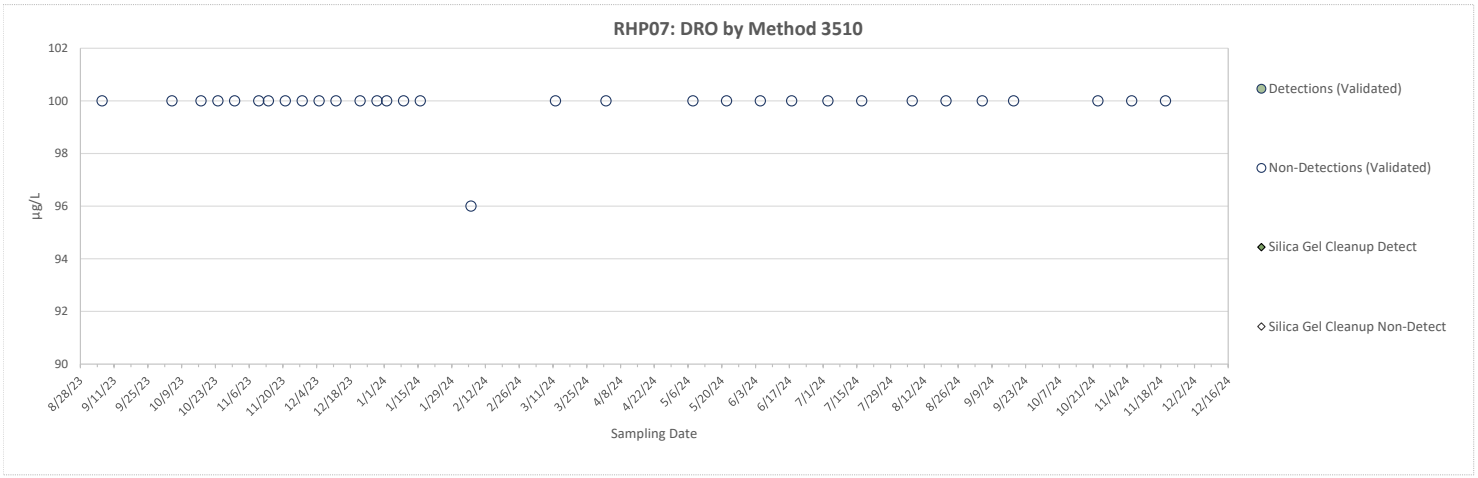


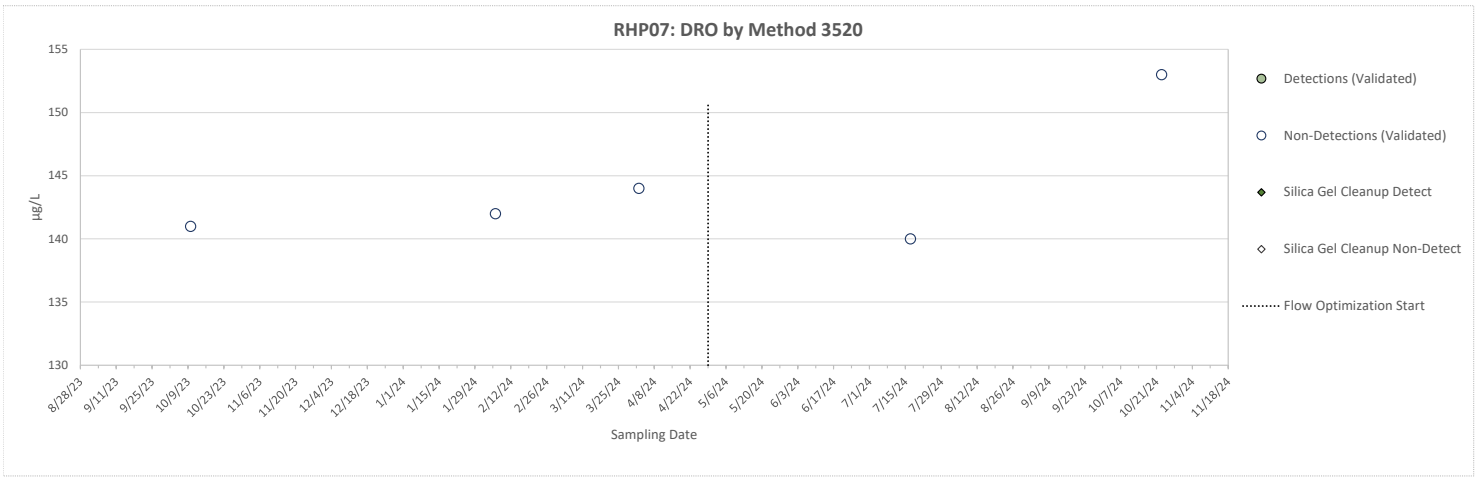


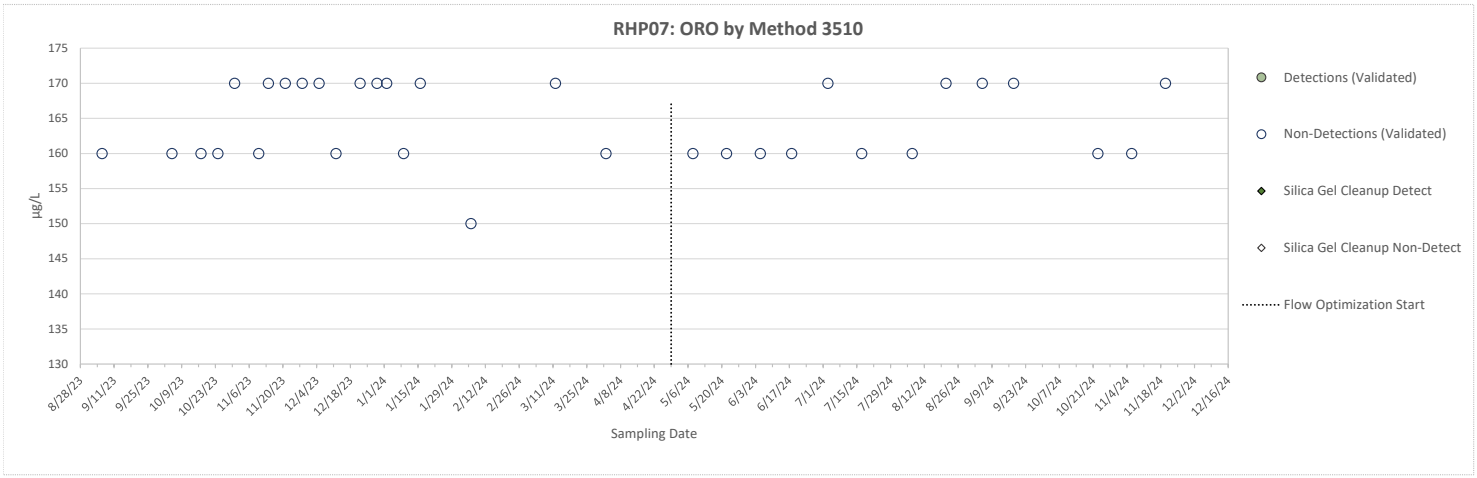


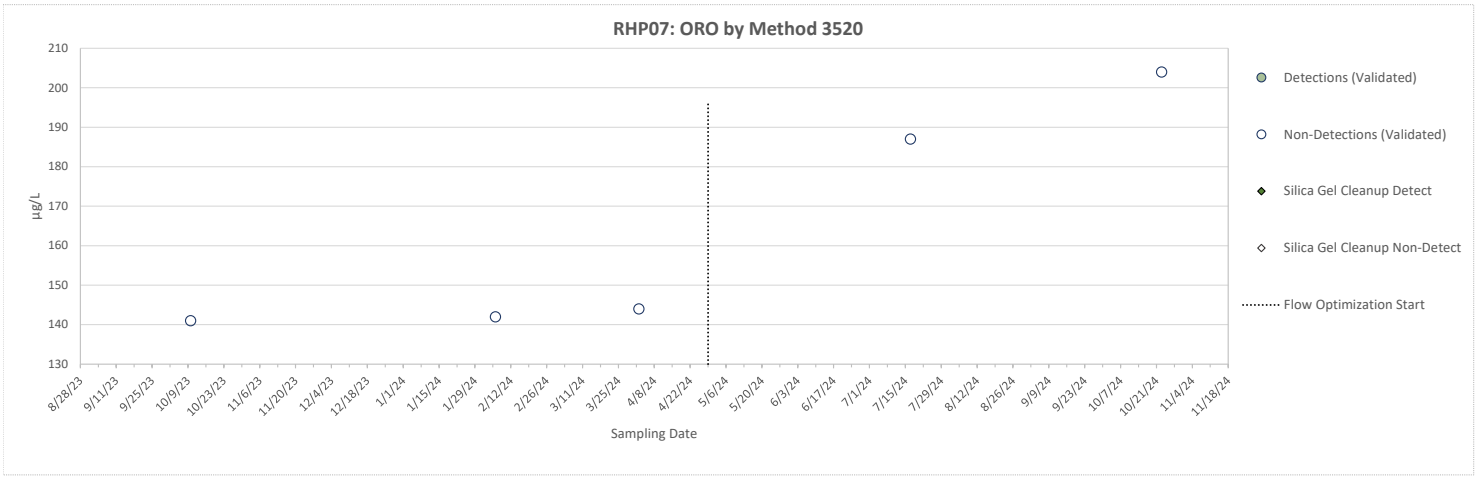
Note: See Data Legend

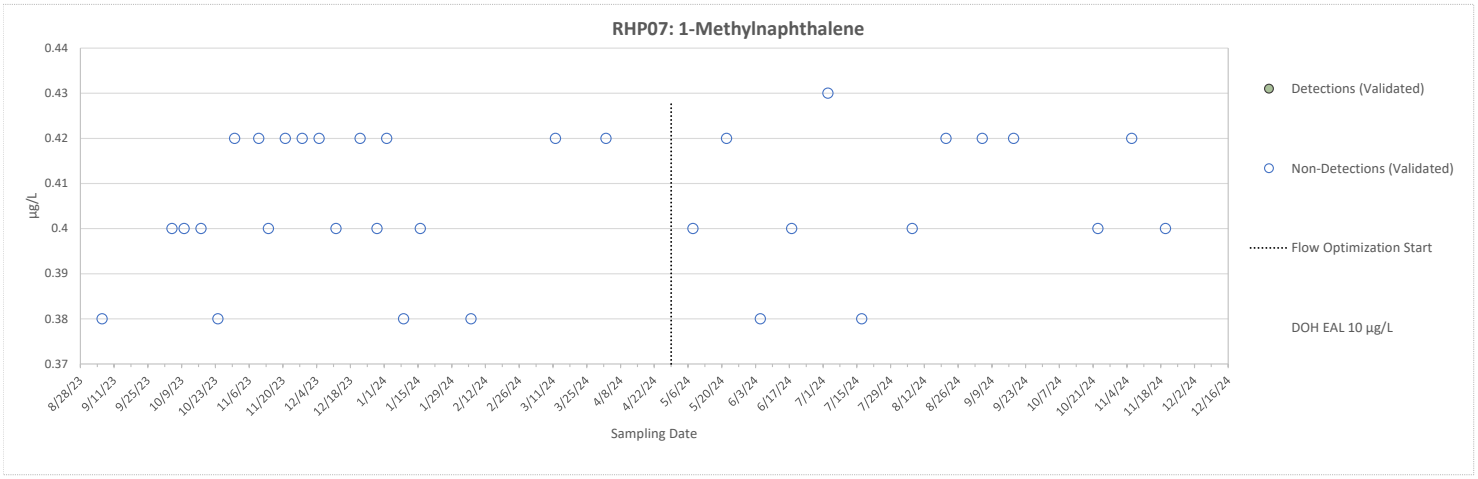

RHP07: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

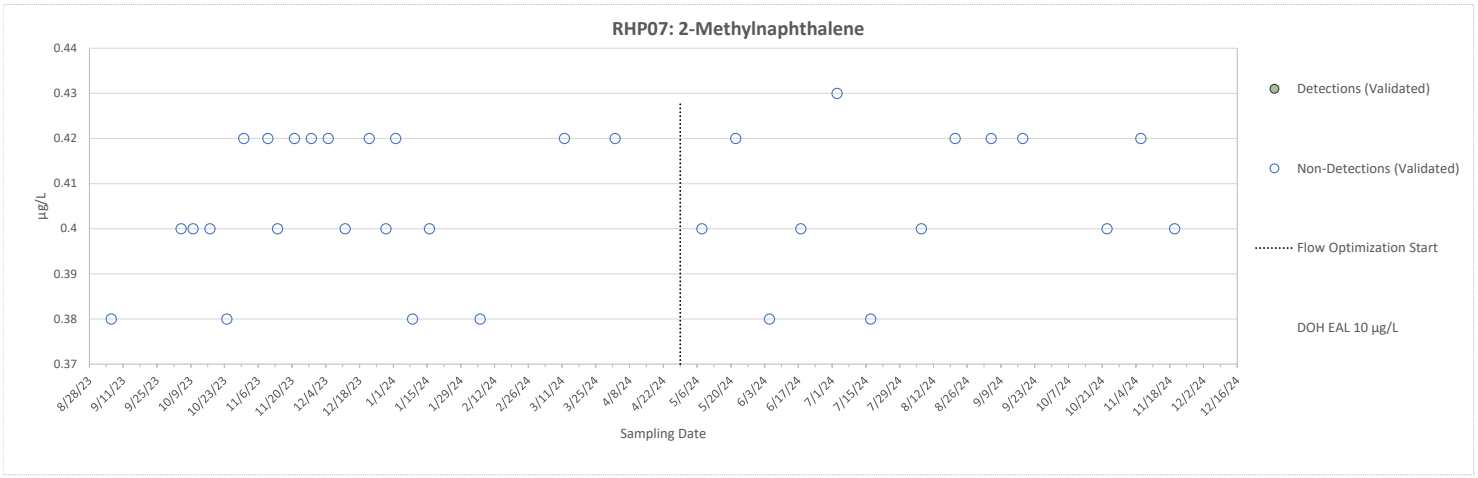

RHP07: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

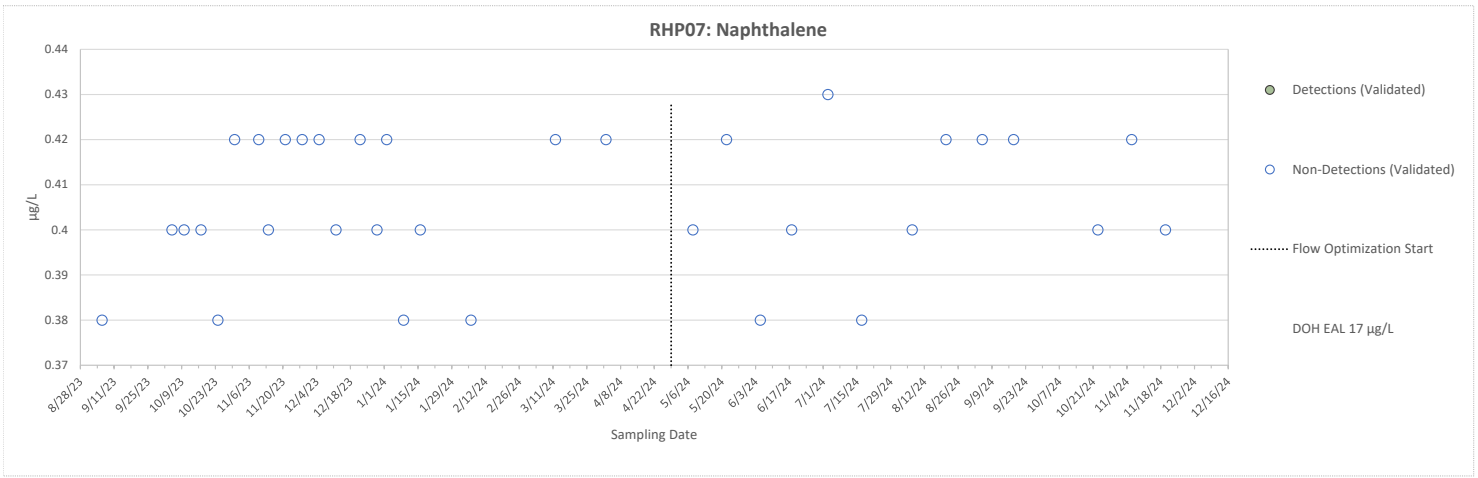

RHP07: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP07: ORO by Method 3510
µg/L
175
170
165
160
155
150
145
140
135
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

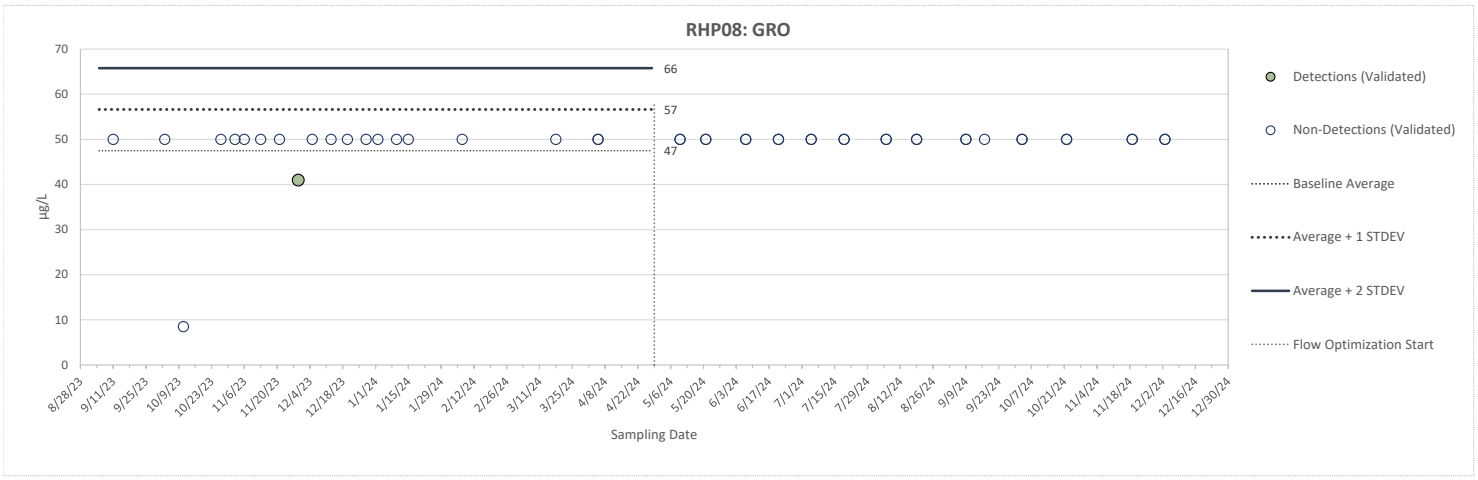

RHP07: ORO by Method 3520
µg/L
210
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

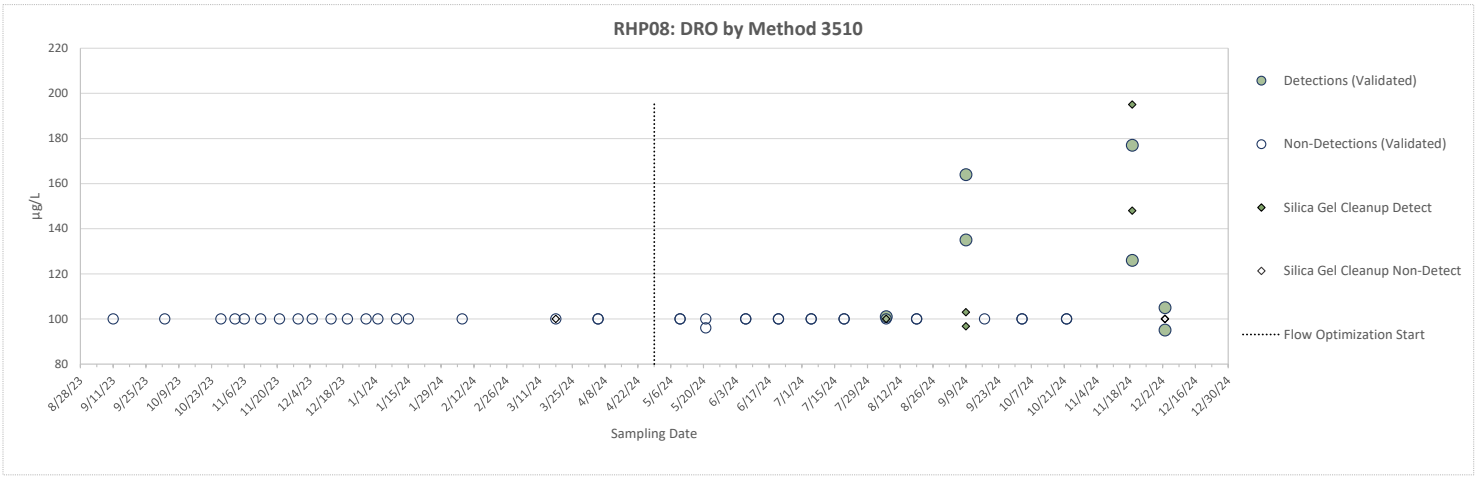


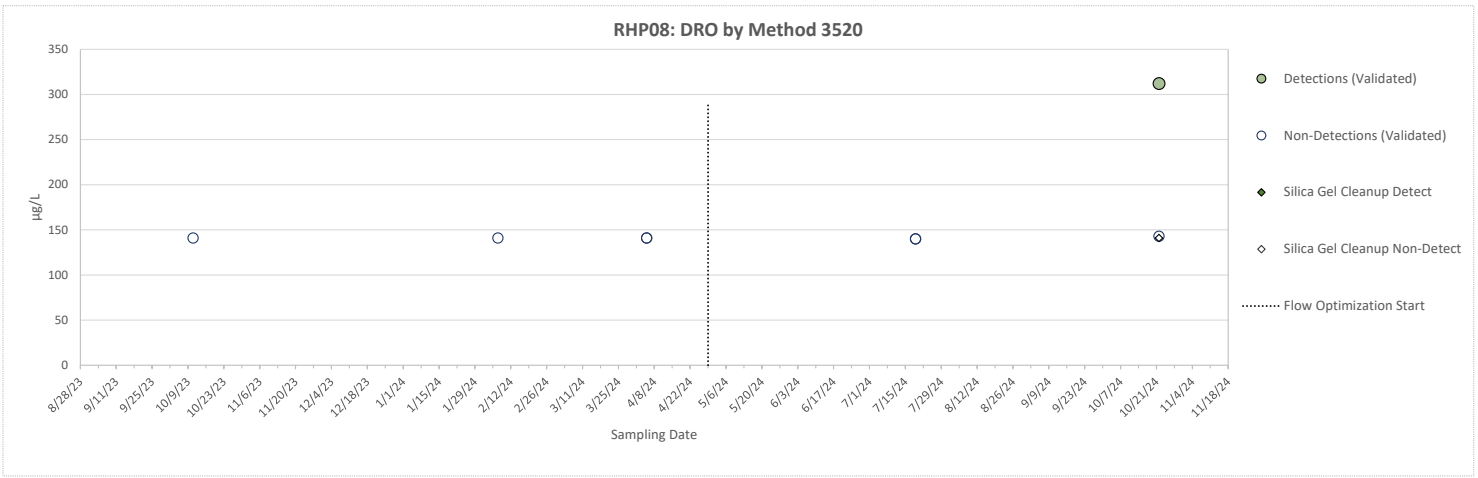


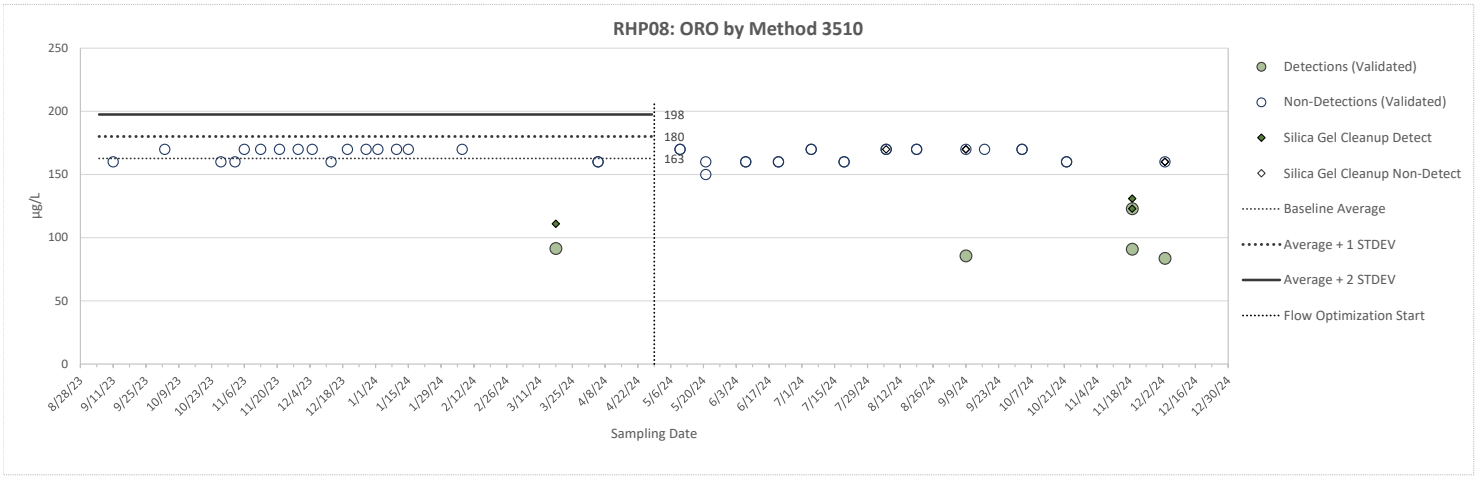


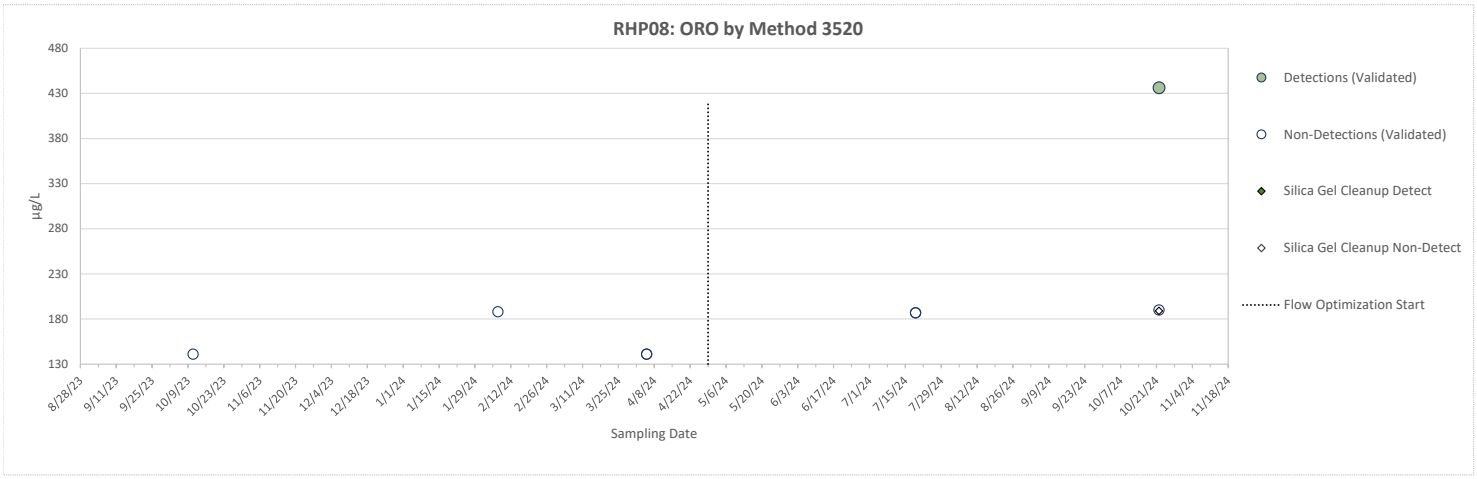
Note: See Data Legend

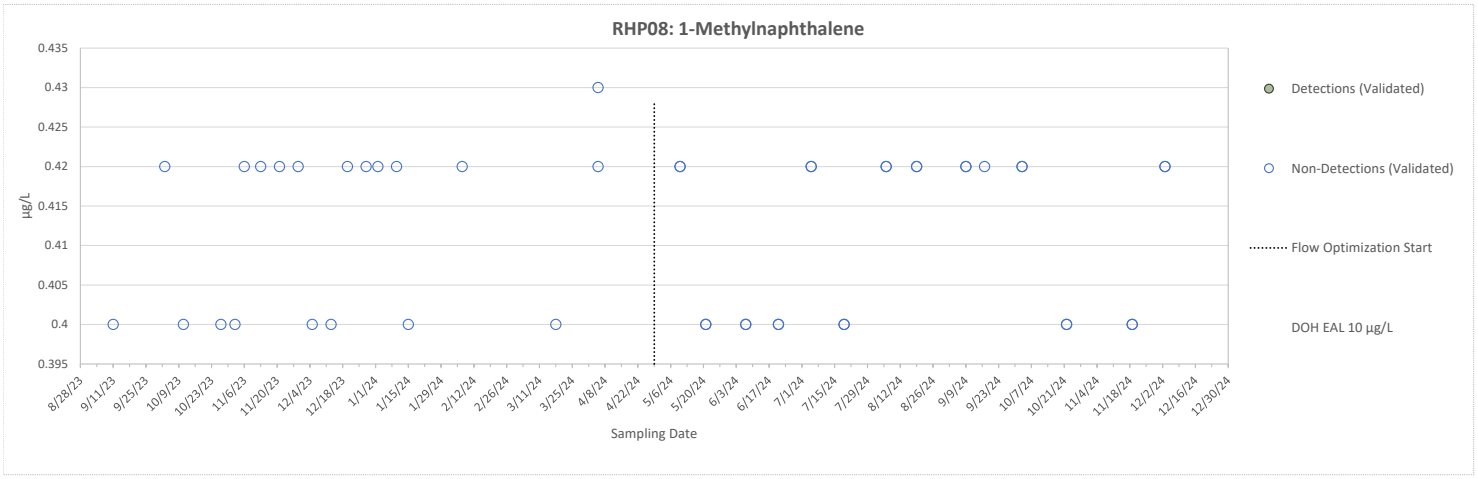

RHP08: GRO
µg/L
Sampling Date
66
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

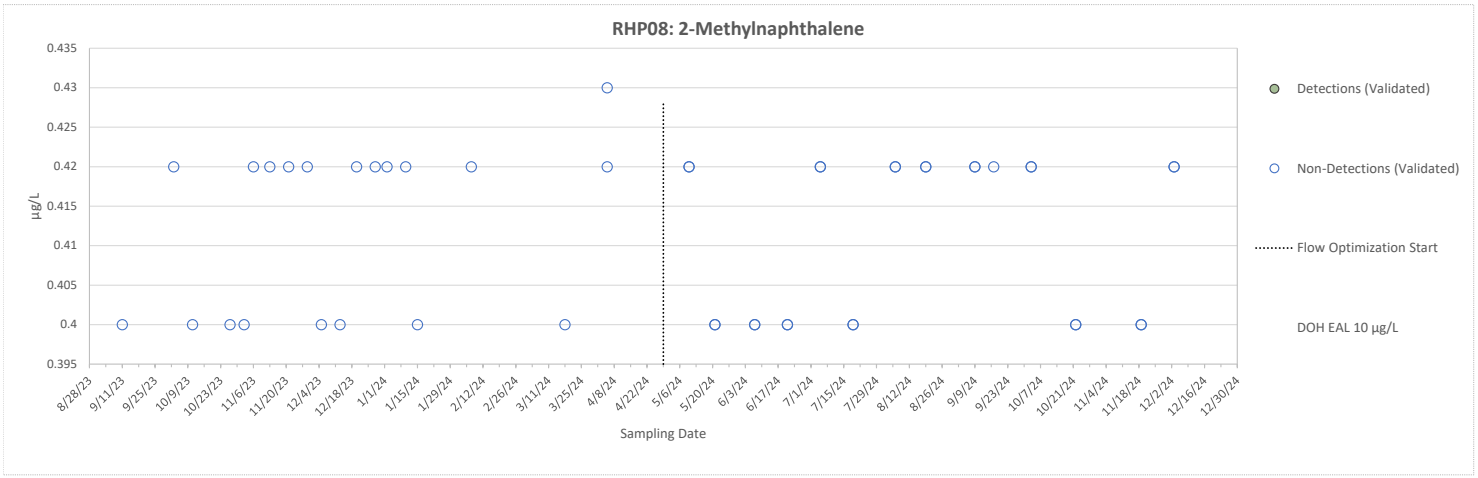

RHP08: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

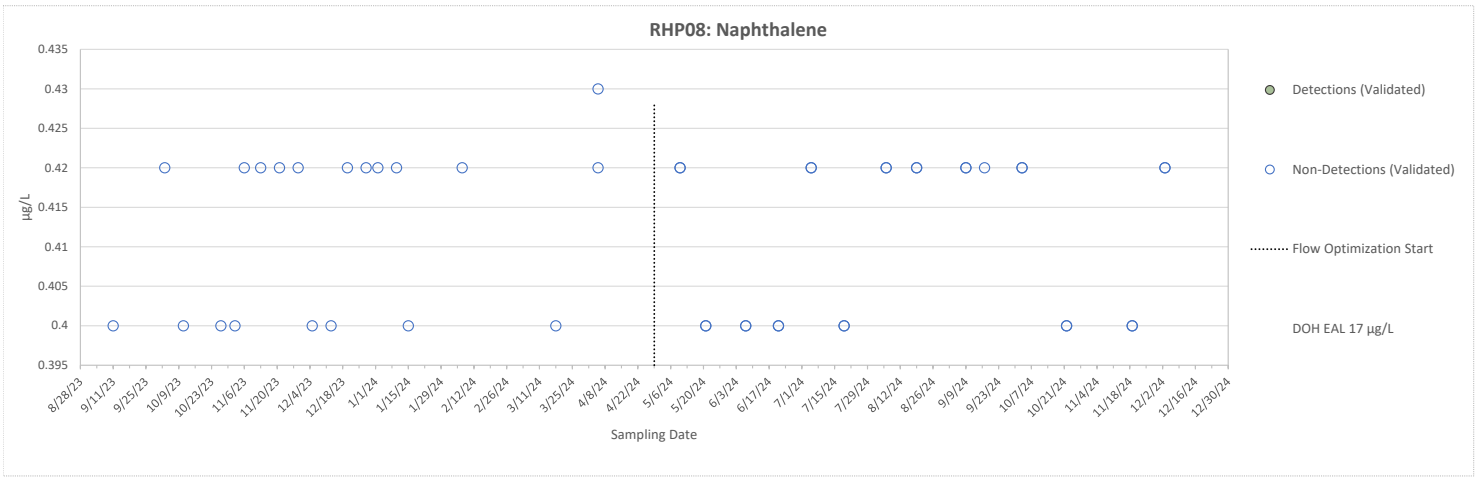

RHP08: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP08: ORO by Method 3510
µg/L
250
200
150
100
50
0
198
180
163
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
12/2/24
12/16/24
12/30/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

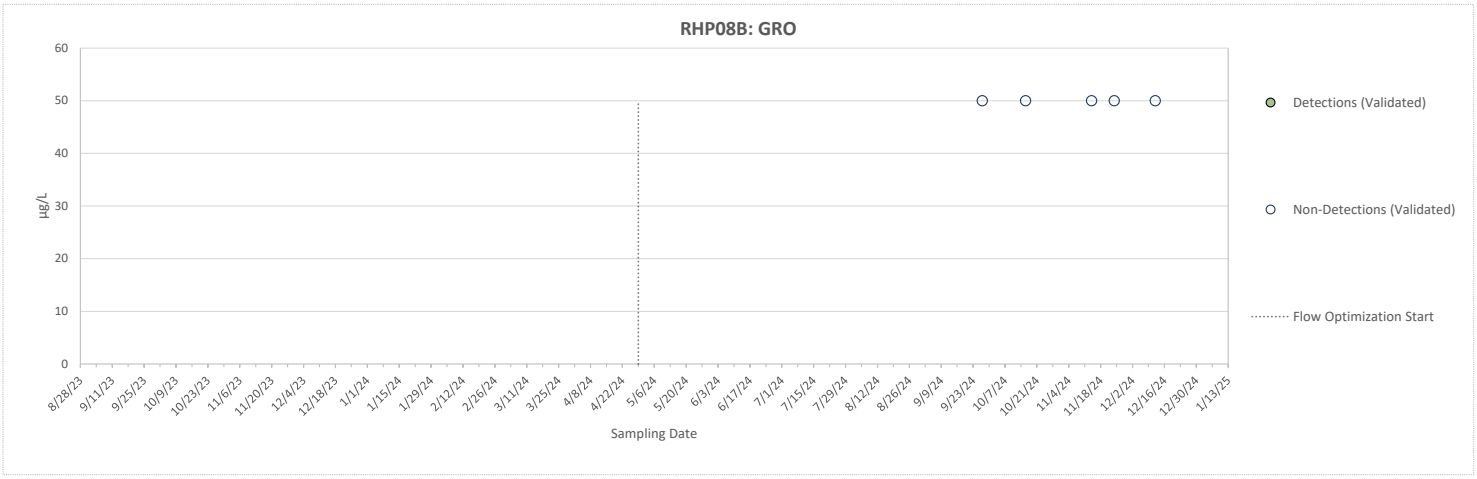

RHP08: ORO by Method 3520
µg/L
480
430
380
330
280
230
180
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
11/4/24
11/18/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

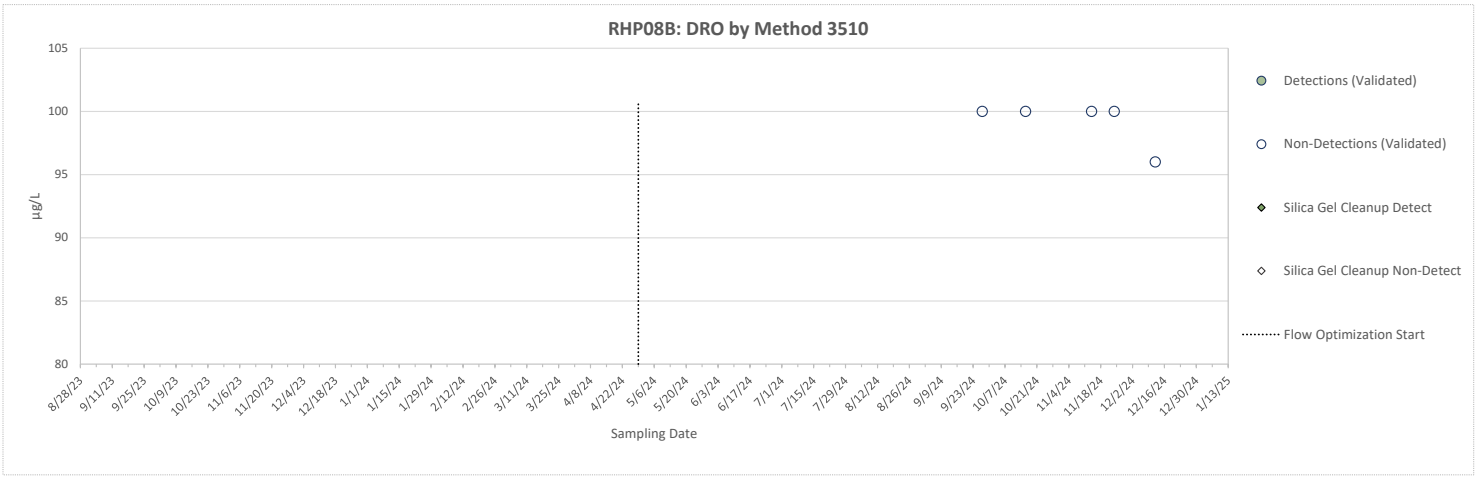


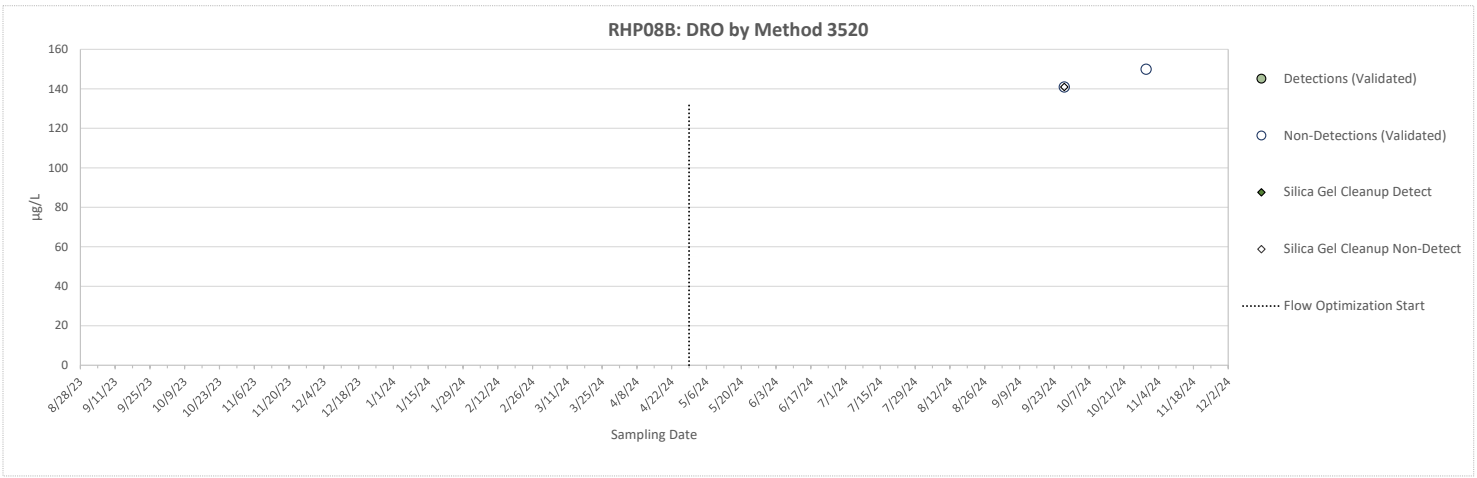


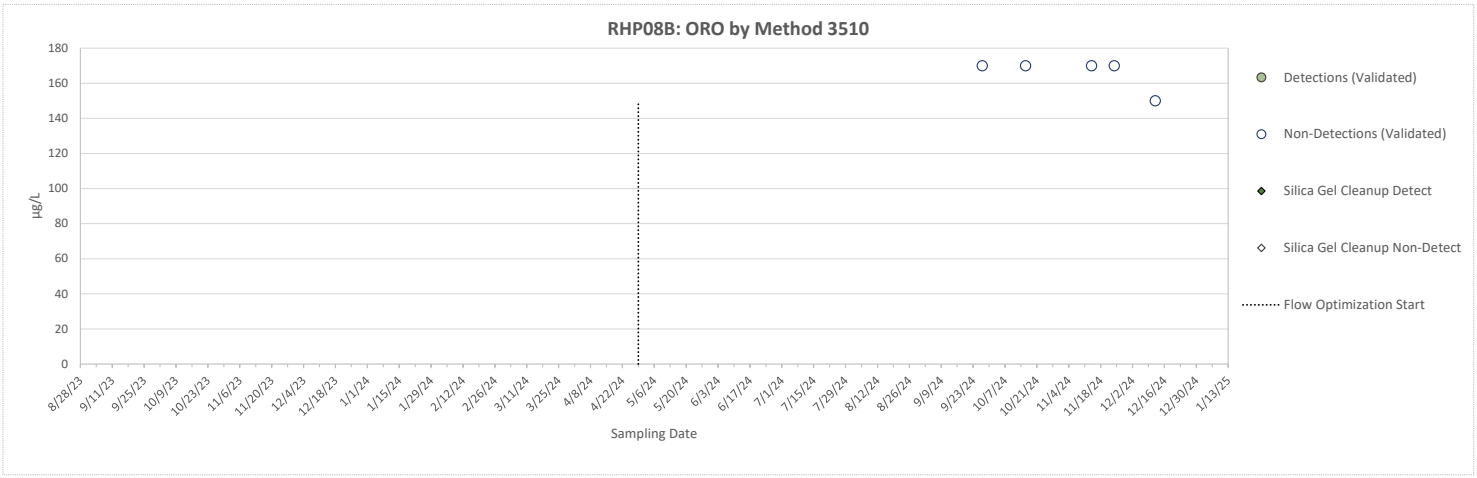


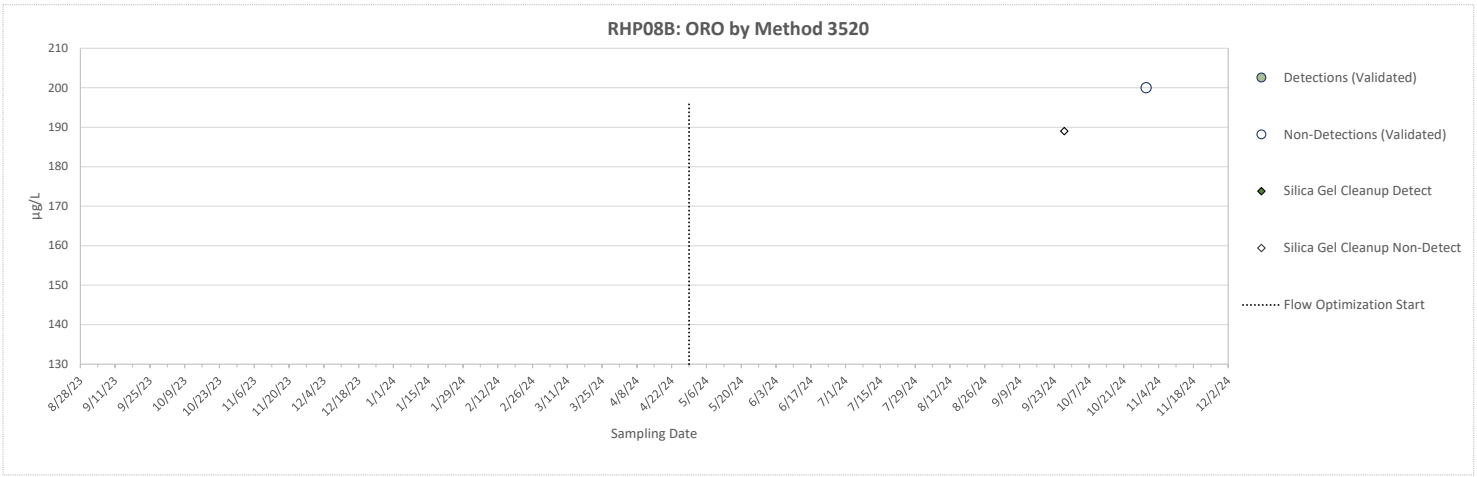
Note: See Data Legend

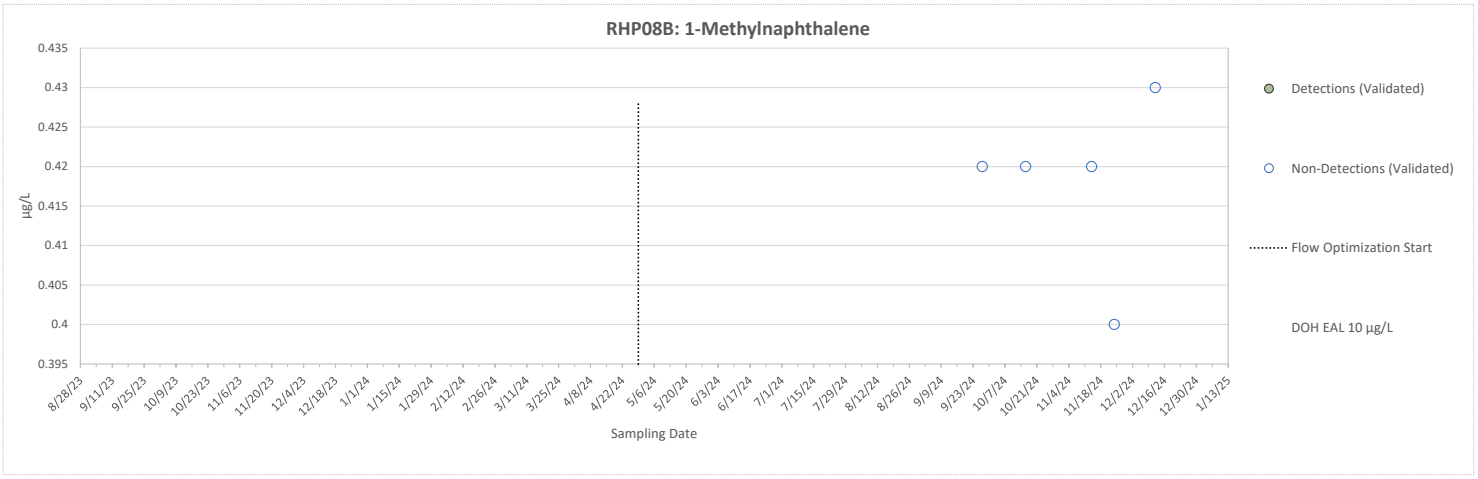

RHP08B: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

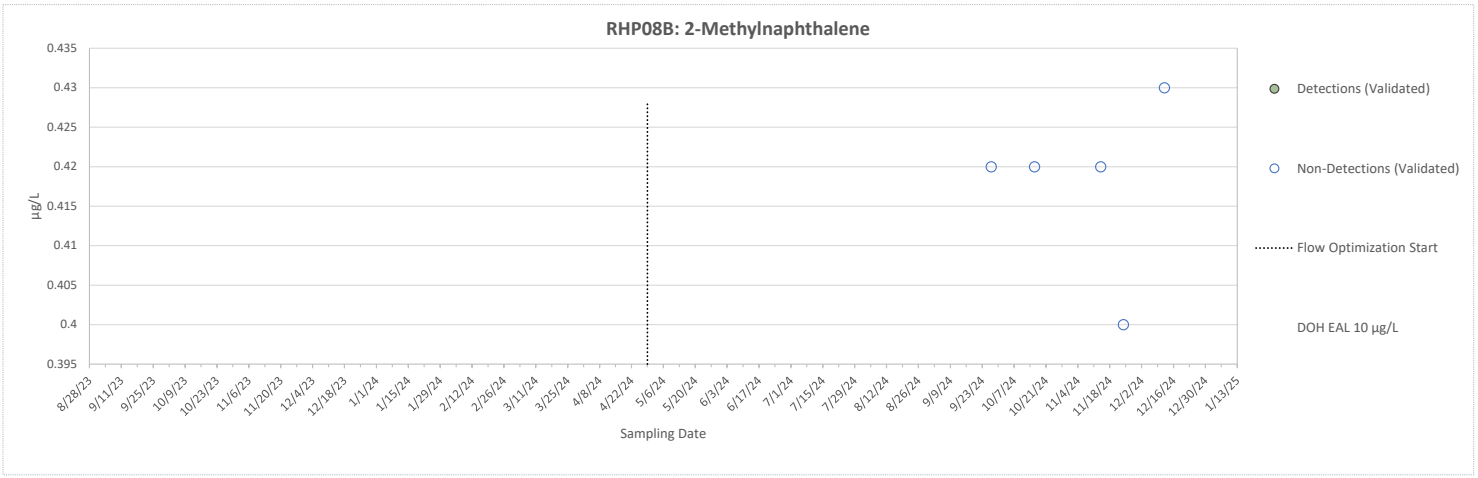

RHP08B: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

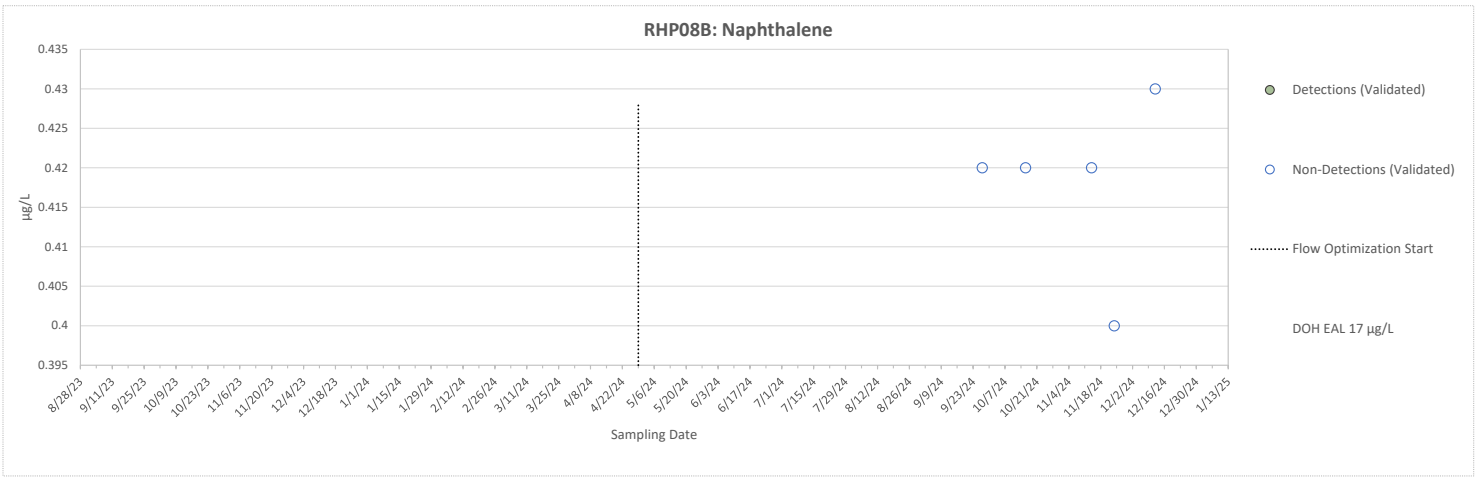

RHP08B: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP08B: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

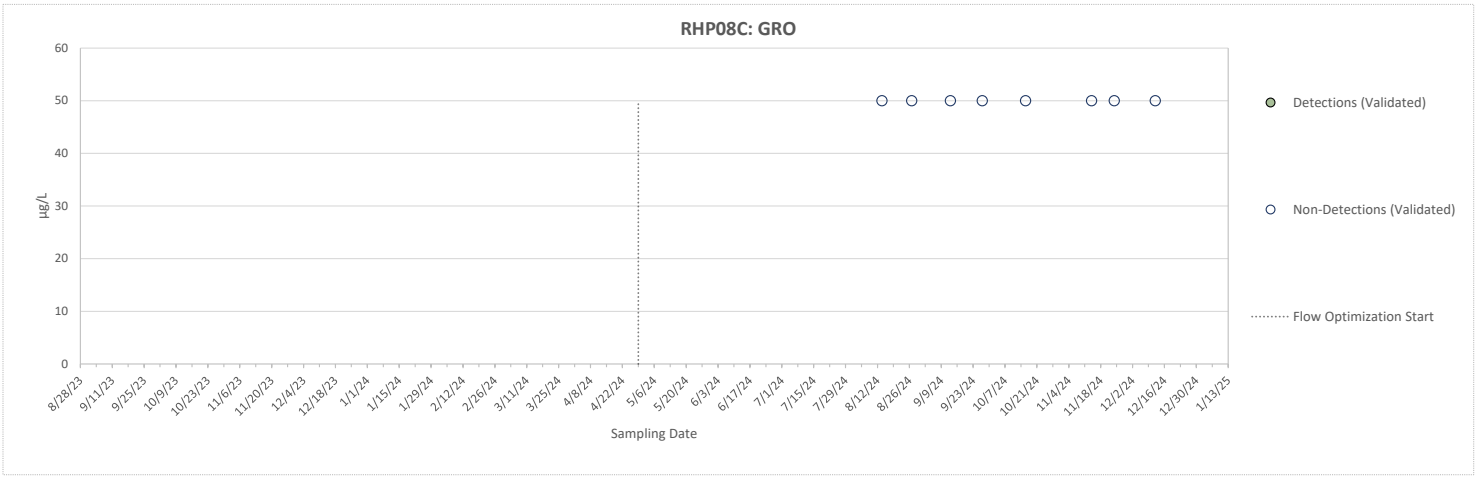

RHP08B: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

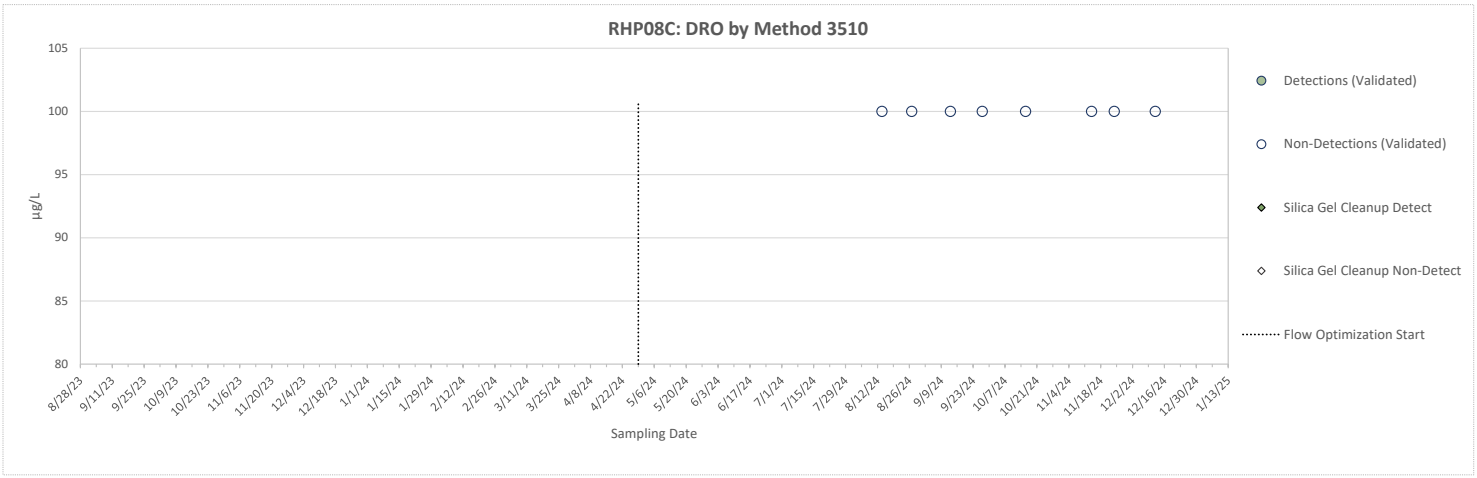


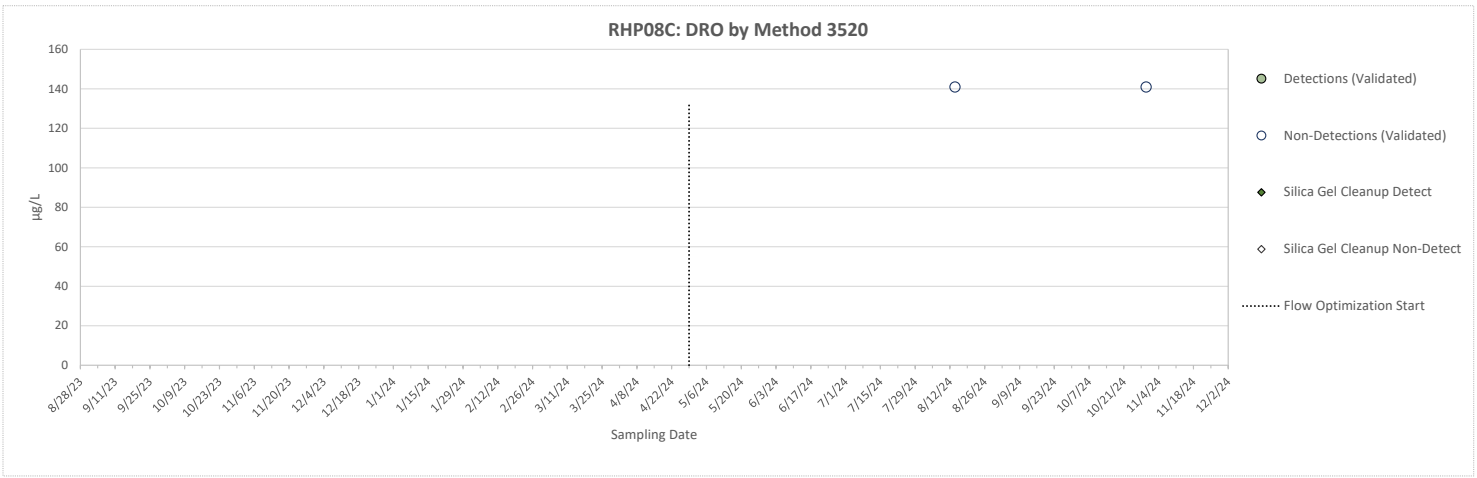


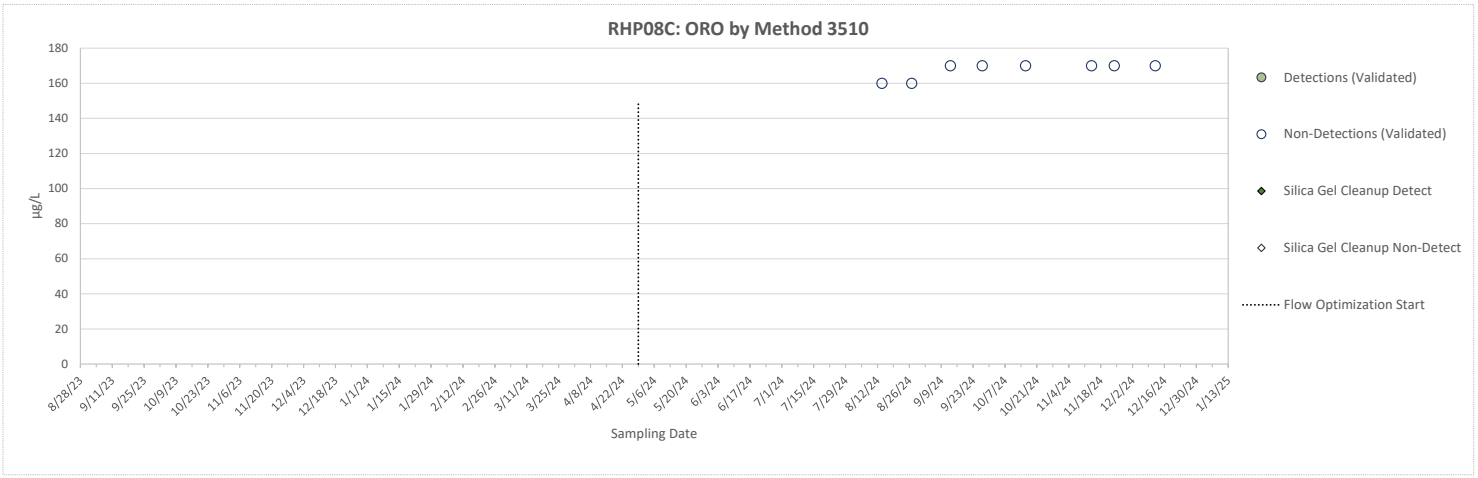


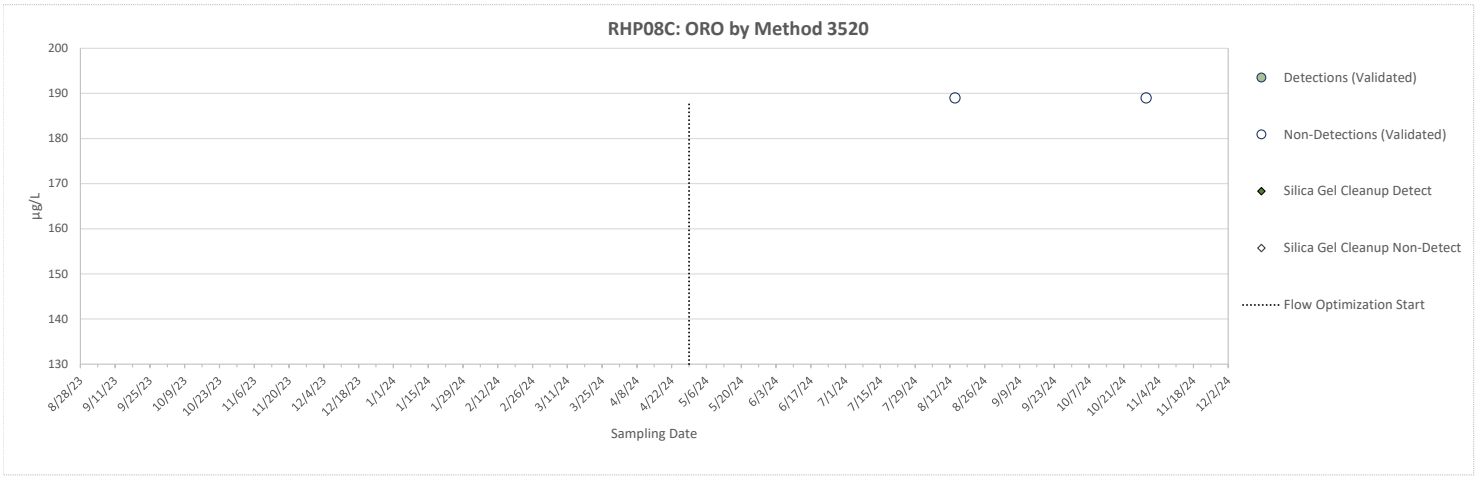
Note: See Data Legend

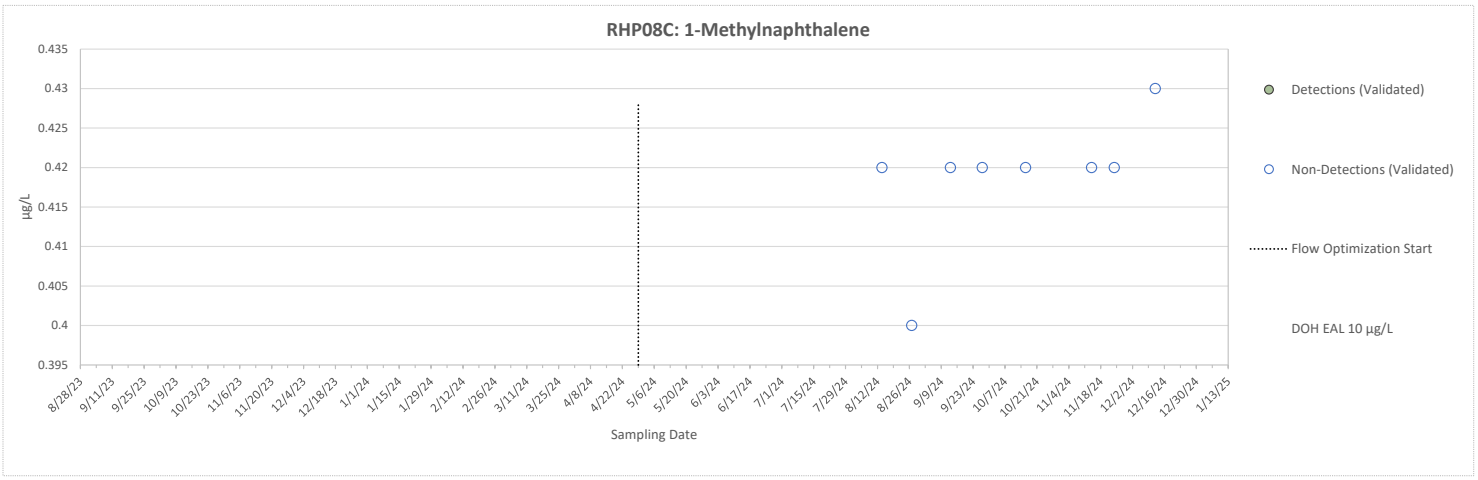

RHP08C: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

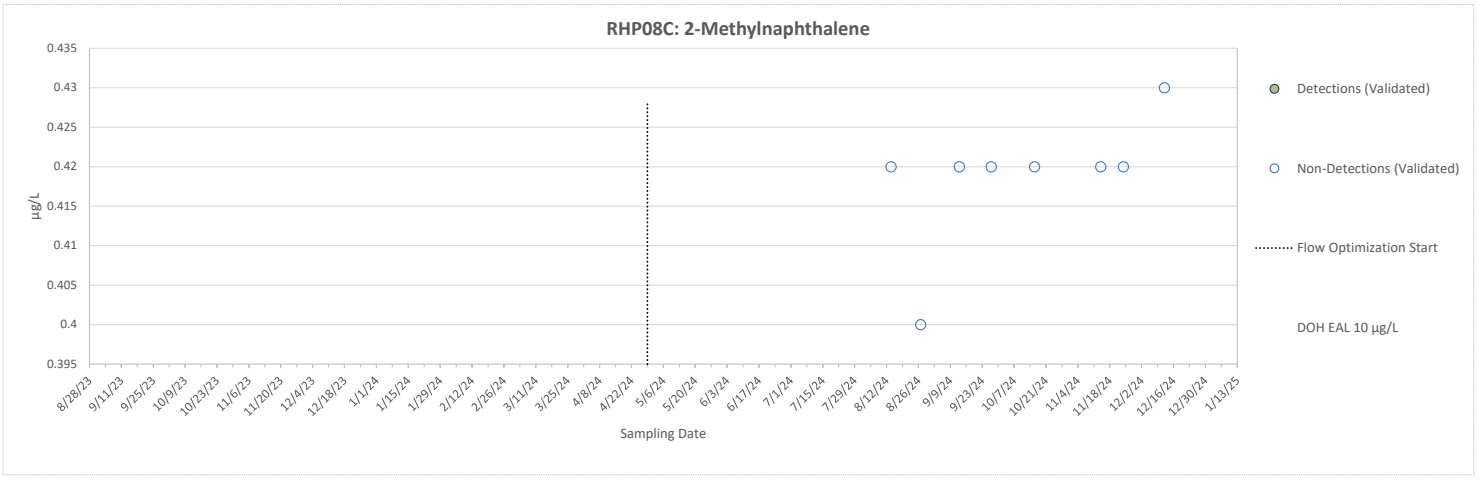

RHP08C: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

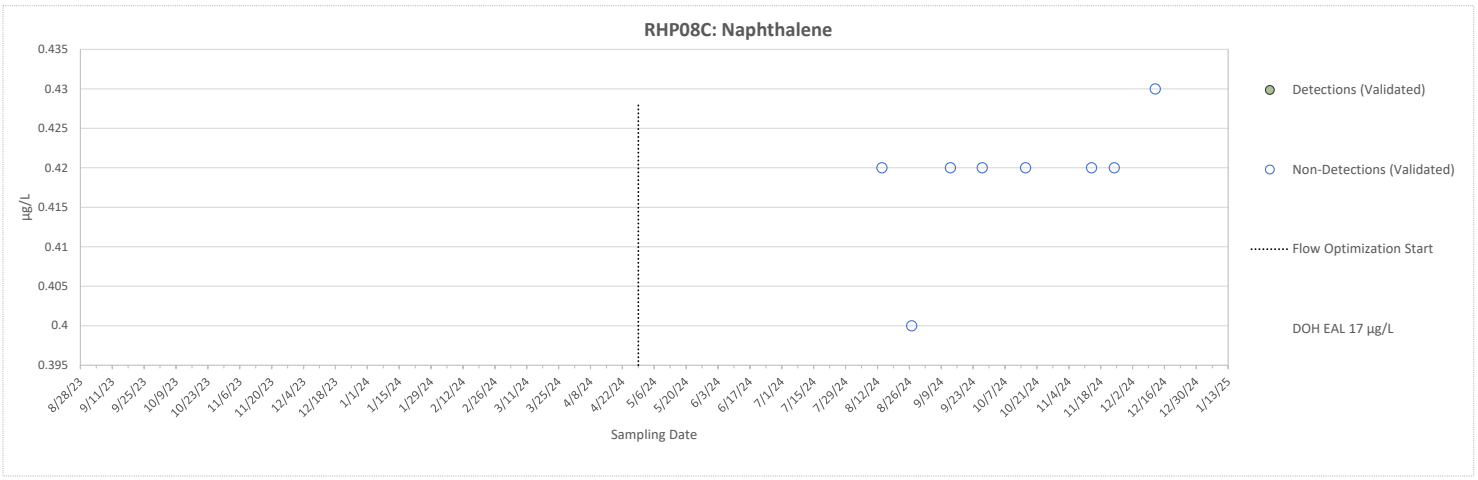

RHP08C: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP08C: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP08C: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start







Note: See Data Legend

Appendix B.4 – Chromatograms for Groundwater Detections and Exceedances

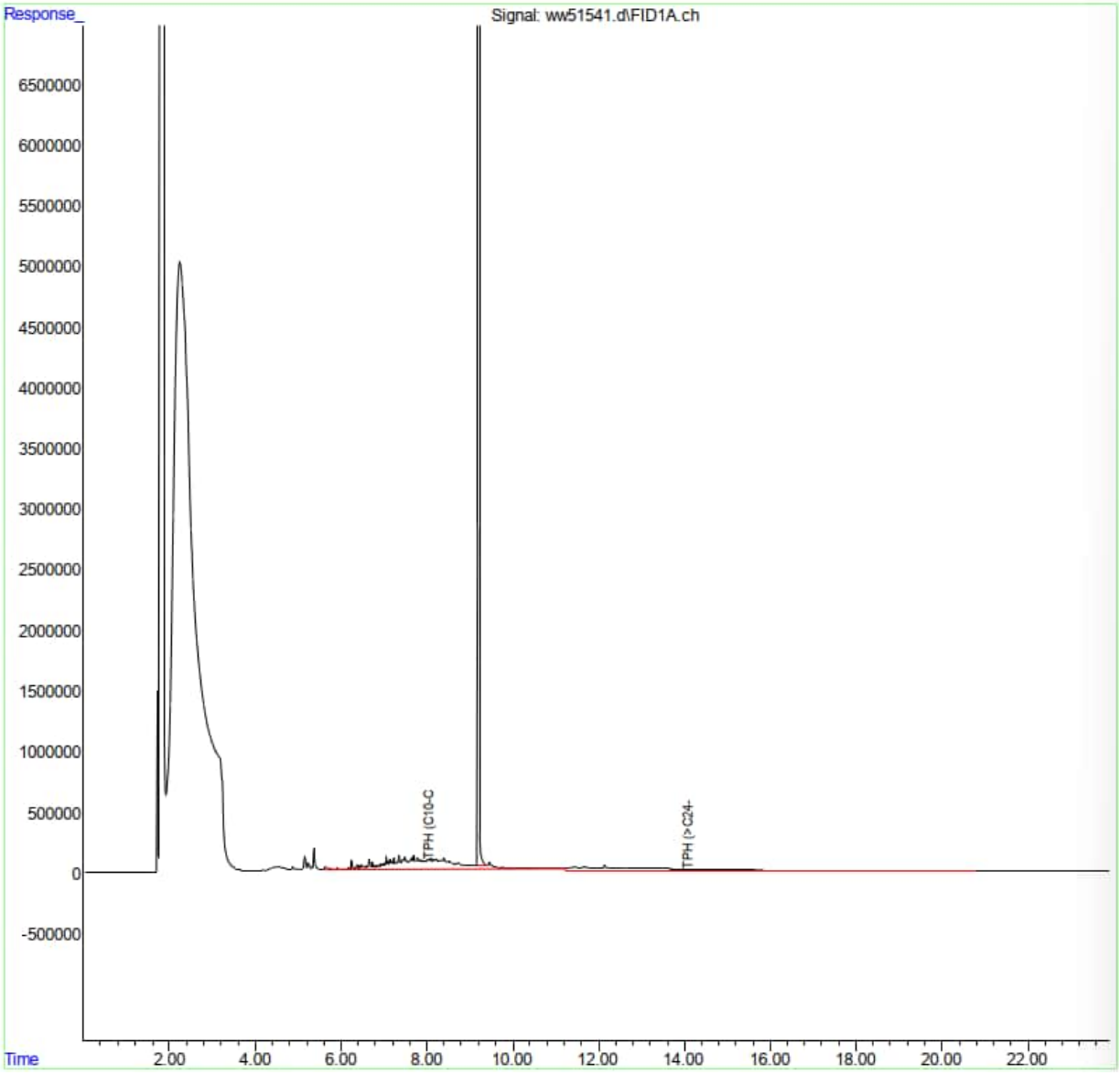
Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2410B Sample Date: 10/21/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 92.6 J** **TPH-o (C24 to C40) <150 U**

```
Quant Time: Oct 29 09:42:03 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

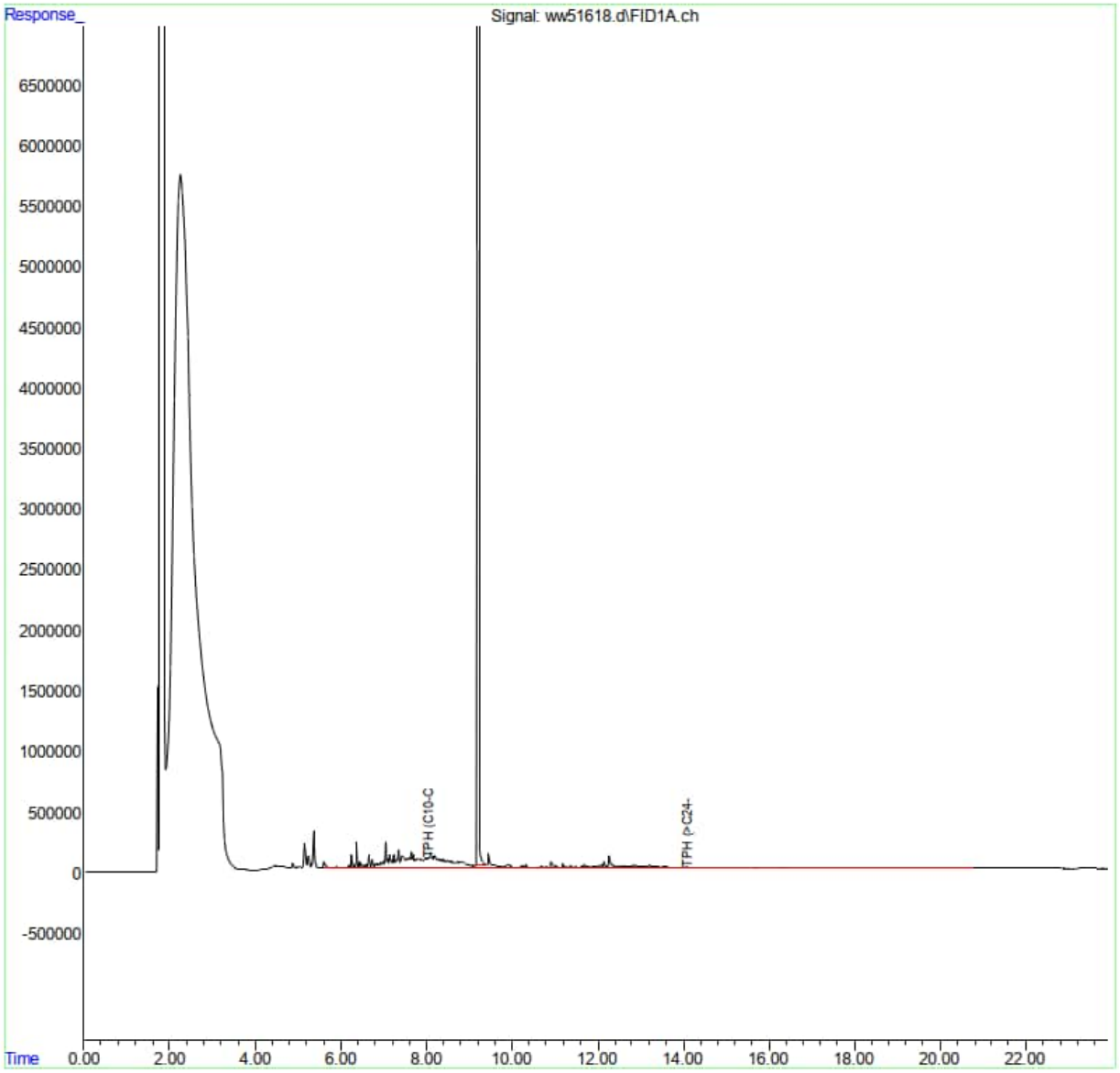
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 105 J** **TPH-o SGC (C24 to C40) <150 U**

```
Quant Time: Oct 30 13:36:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



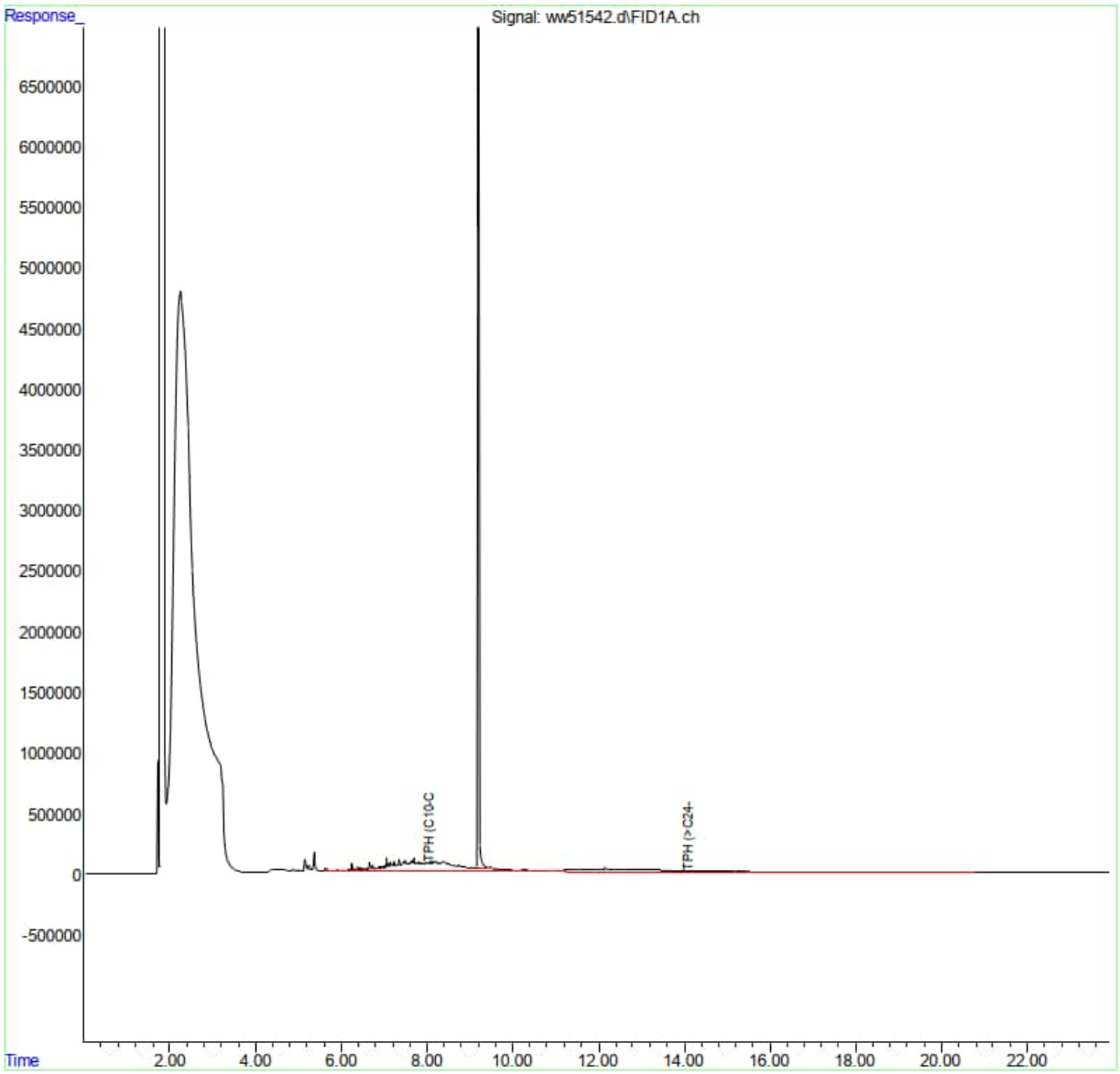
Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2410B Sample Date: 10/21/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 91.9 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Oct 29 09:42:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

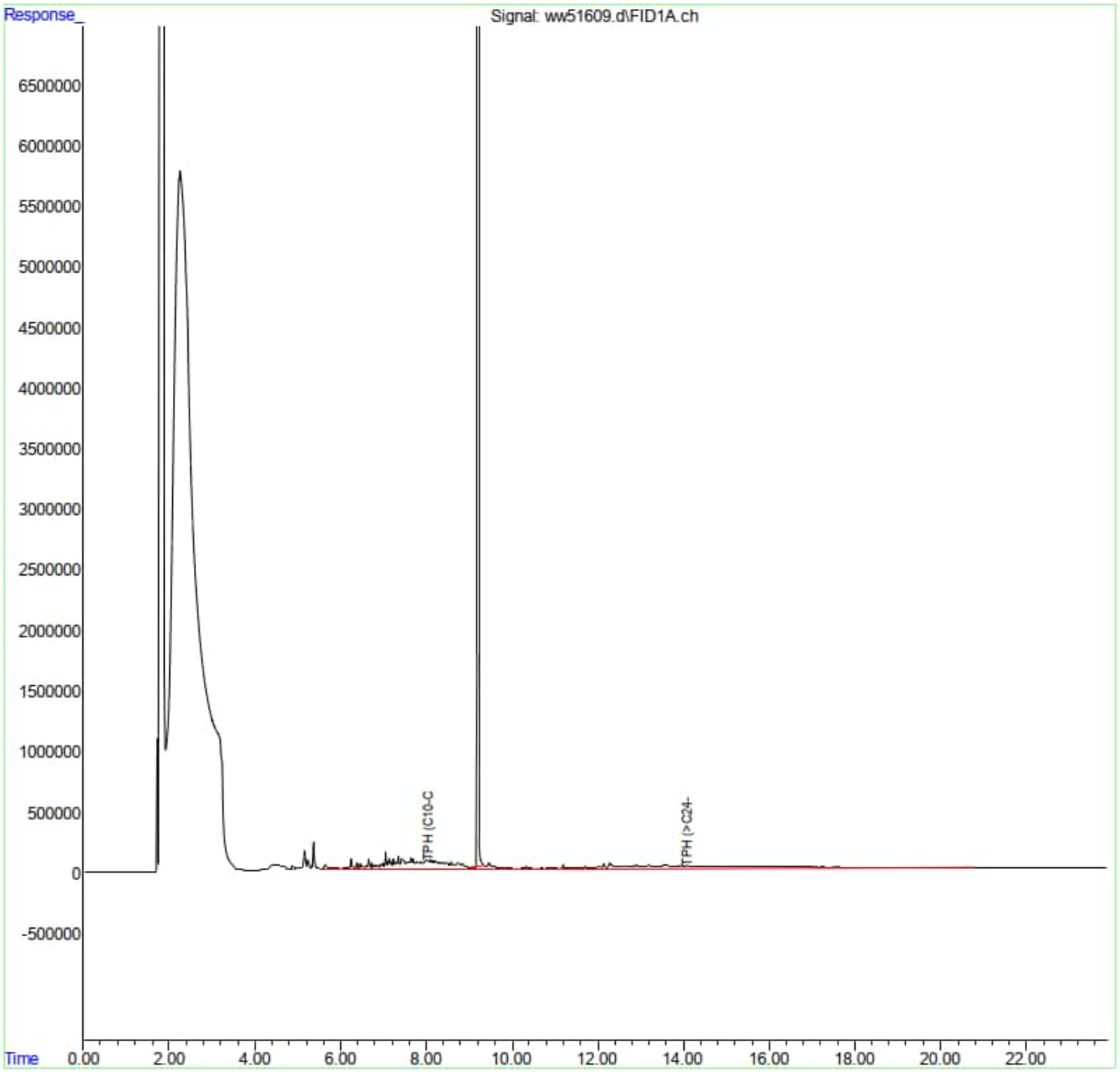
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 85.2 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Oct 30 11:44:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

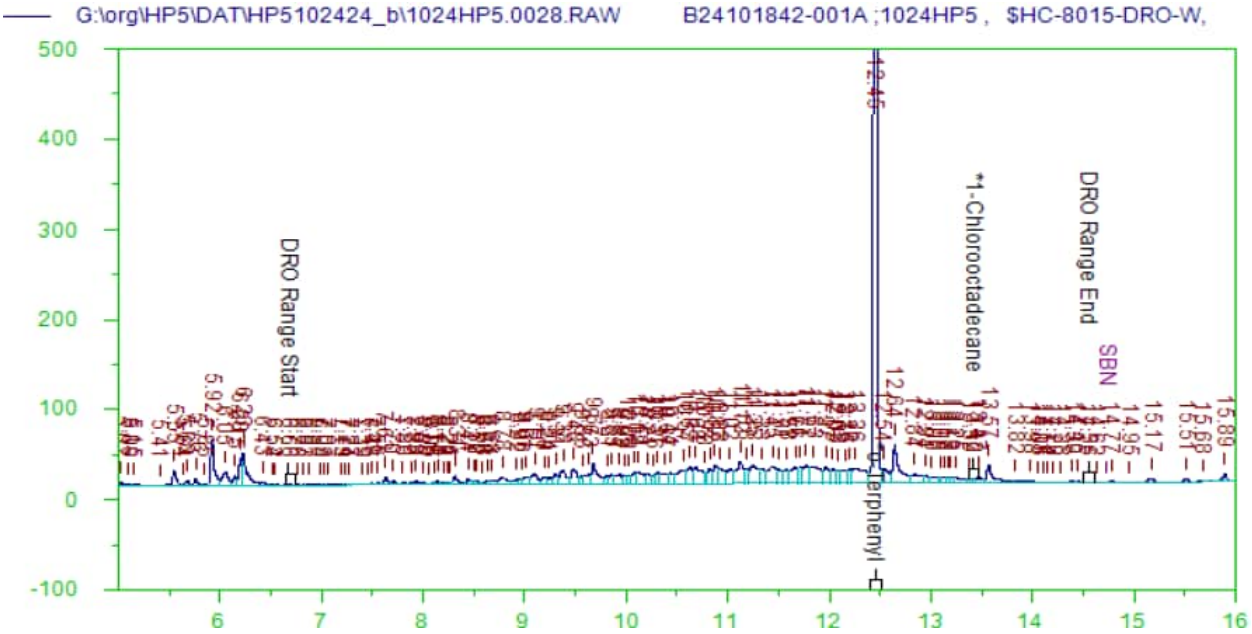
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

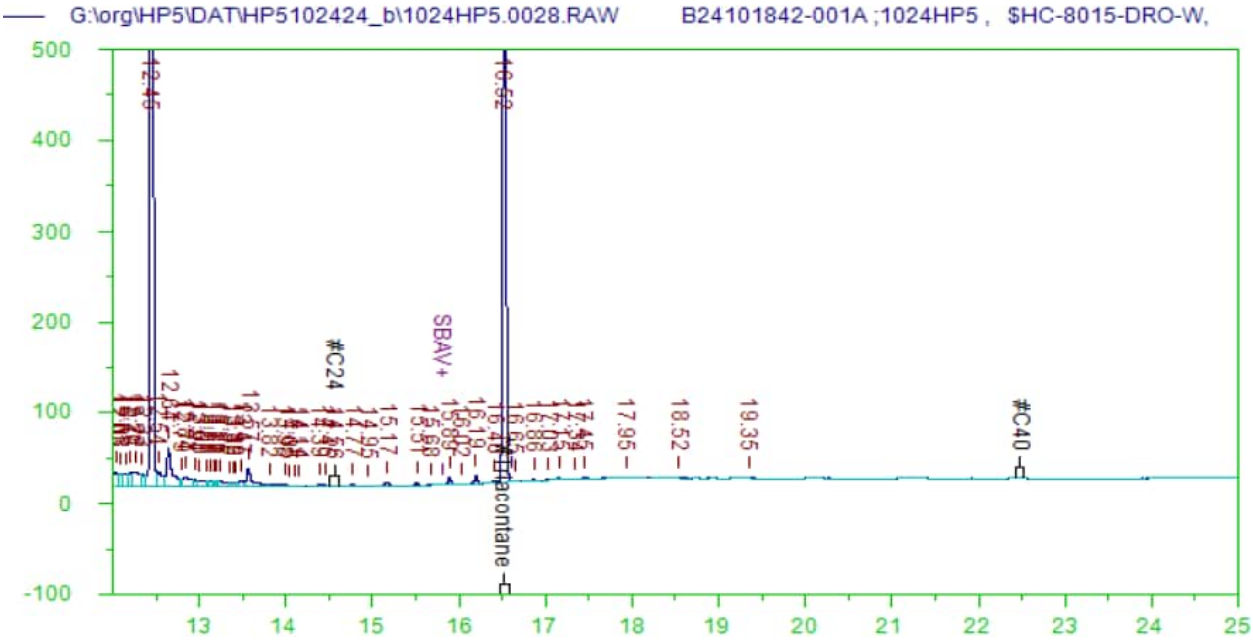


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2410B Sample Date: 10/21/2024

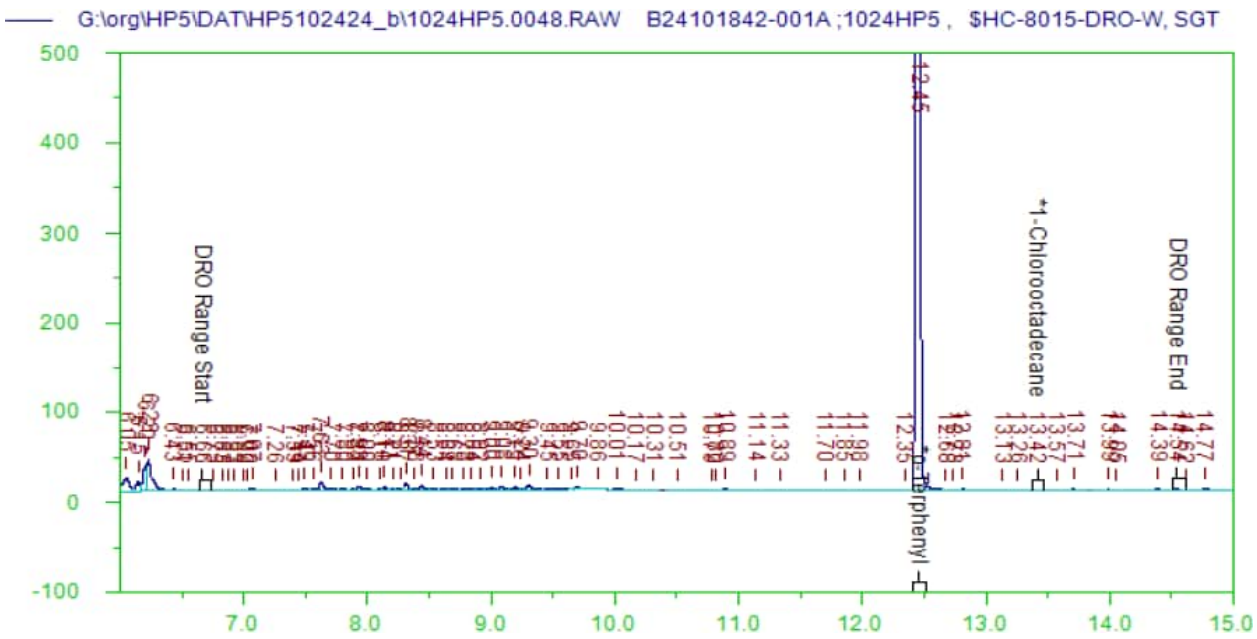
Lab: (b) (4)

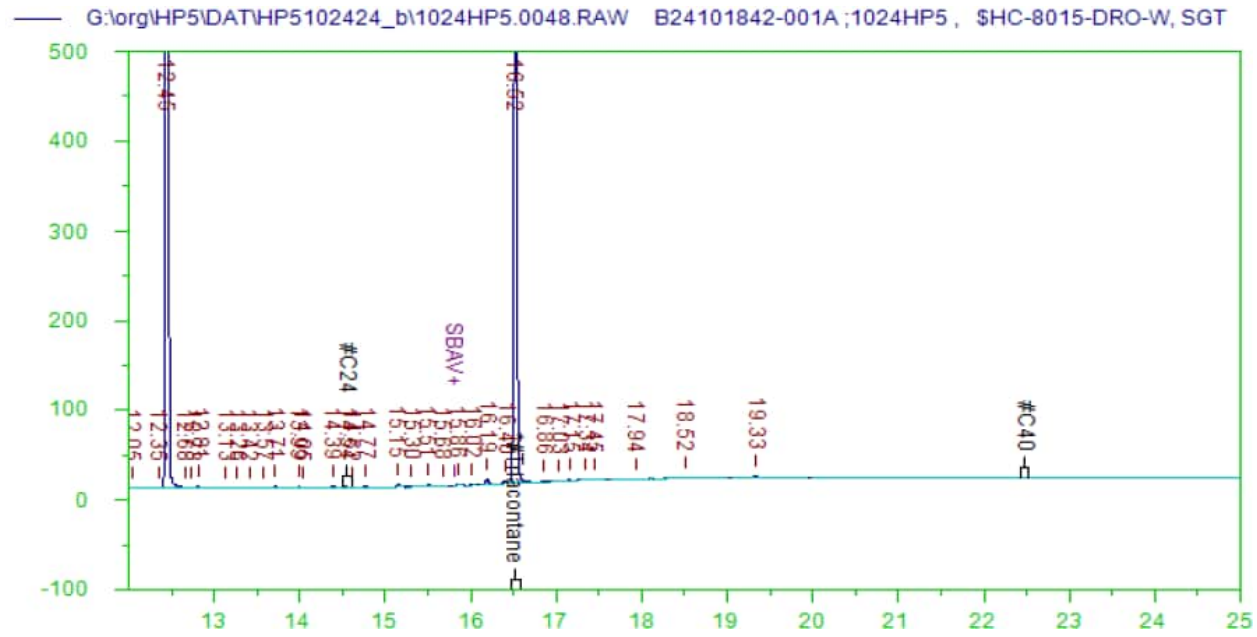
Results (ug/L): **TPH-d (C10 to C24) 149.7 J** **TPH-o (C24 to C40) <189 U**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**

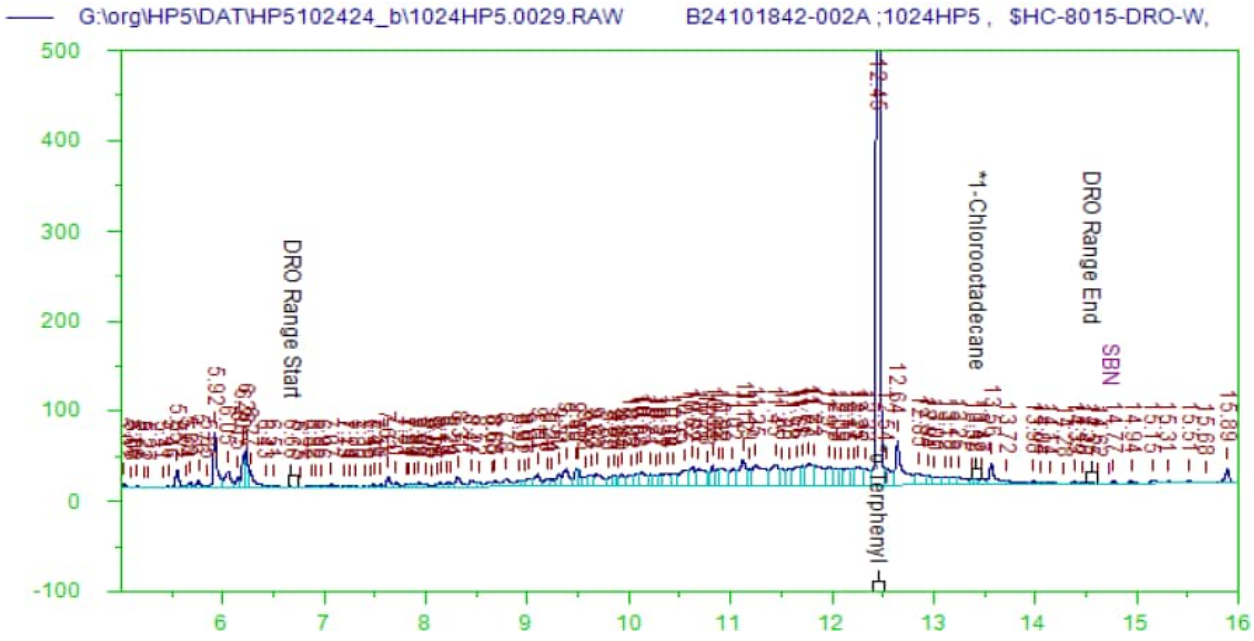


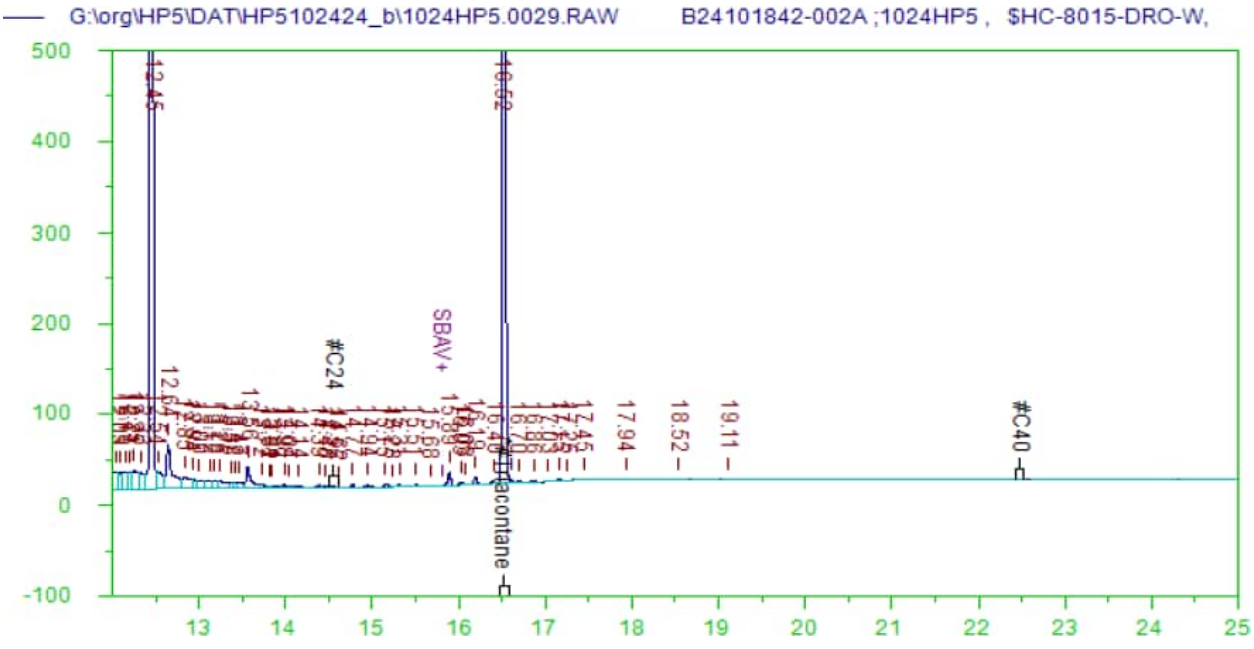


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2410B Sample Date: 10/21/2024

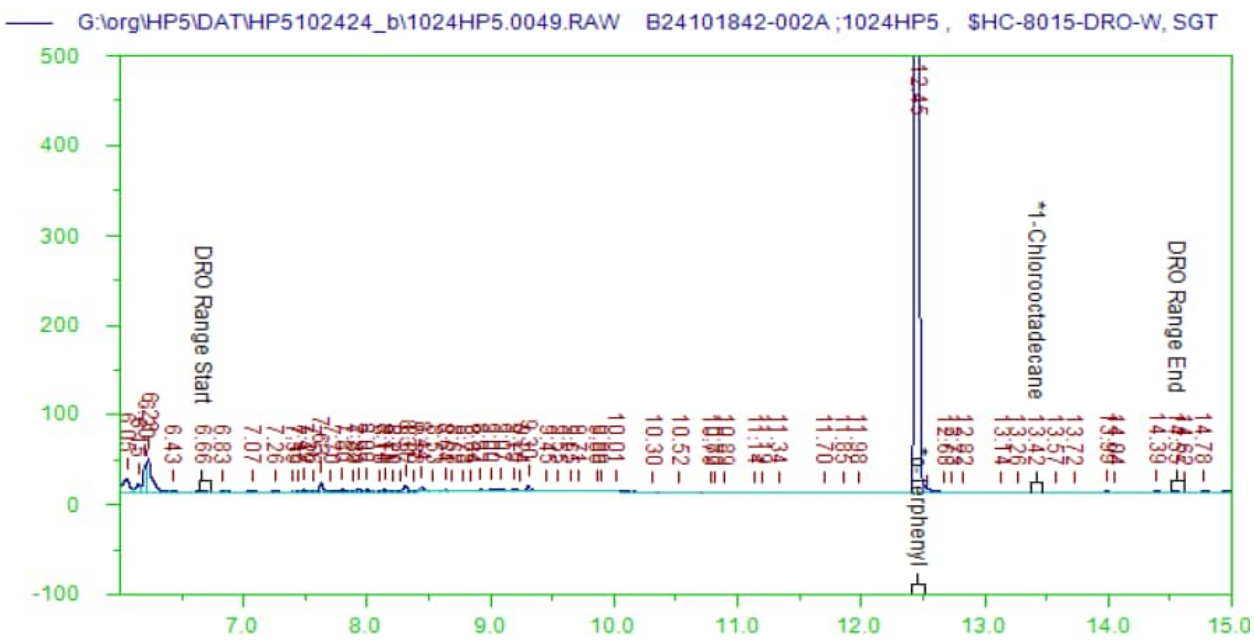
Lab: (b) (4)

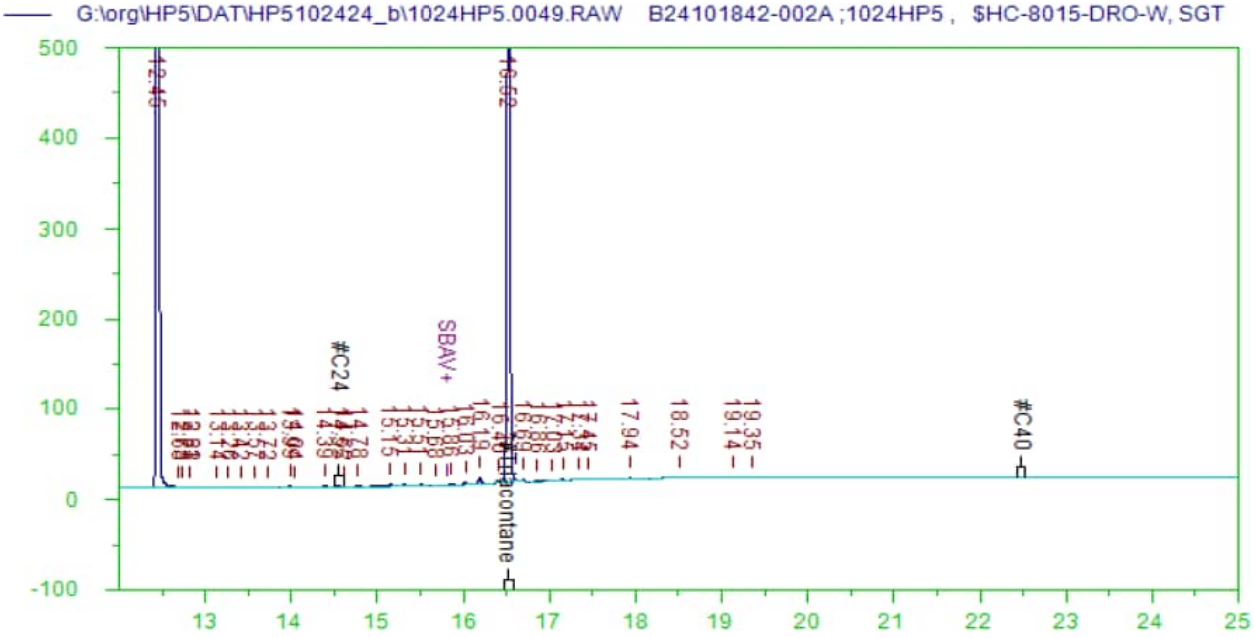
Results (ug/L): **TPH-d (C10 to C24) 170 J** **TPH-o (C24 to C40) <189 U**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**





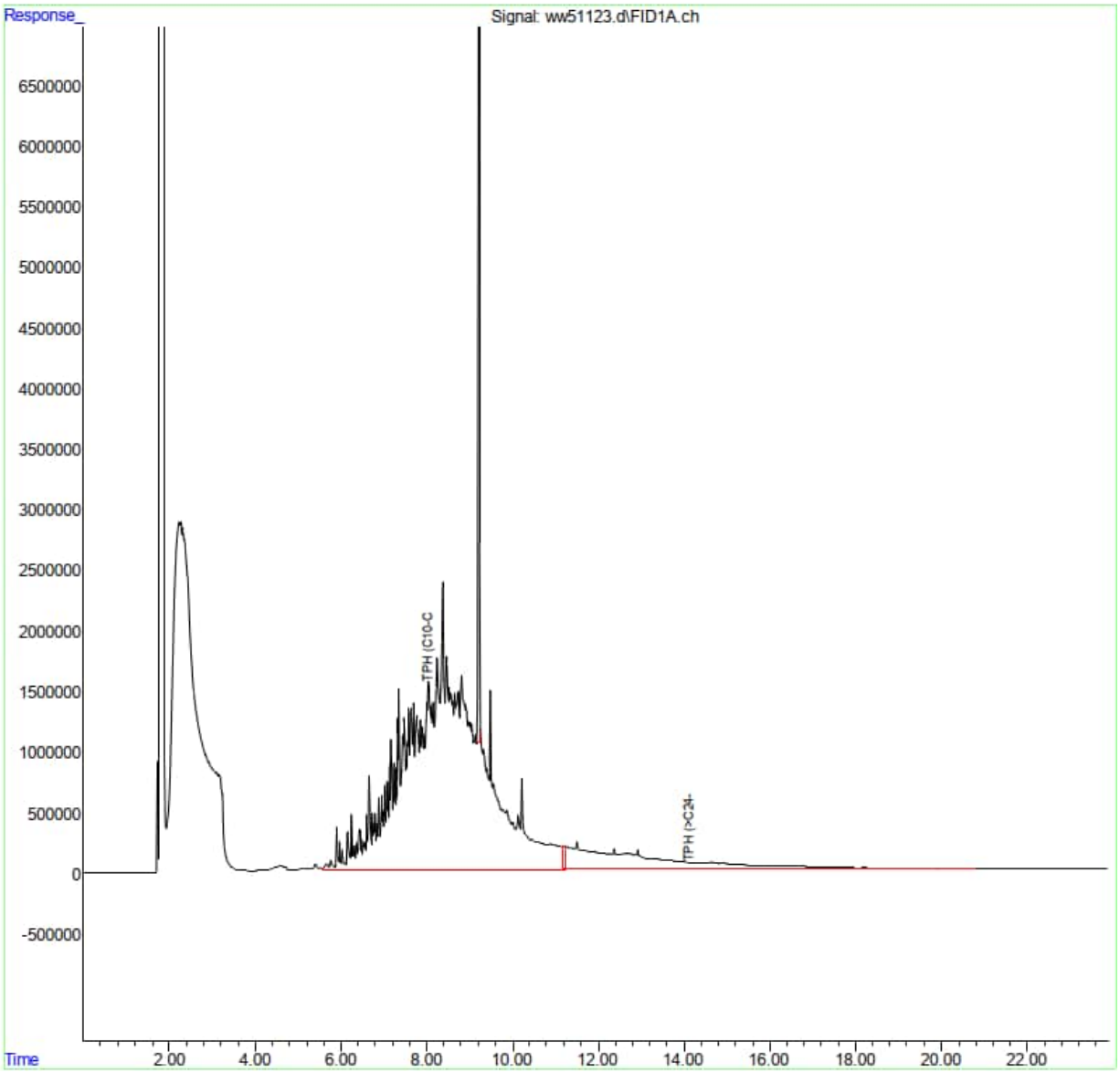
Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2409B Sample Date: 9/26/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 2,020** **TPH-o (C24 to C40) 299**

```
Quant Time: Oct 01 09:44:27 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

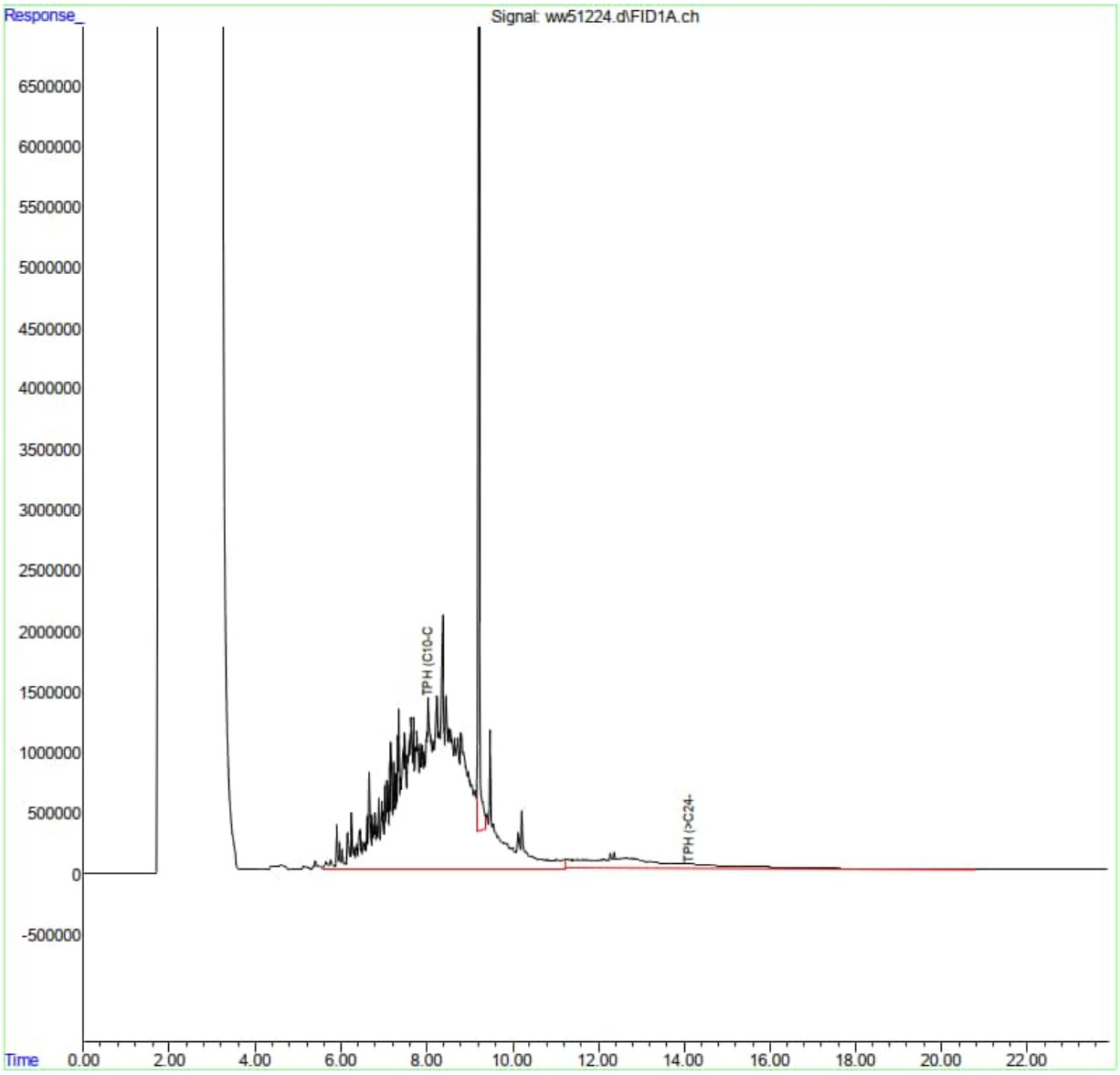
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,480** **TPH-o SGC (C24 to C40) 134 J**

```
Quant Time: Oct 04 16:27:15 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



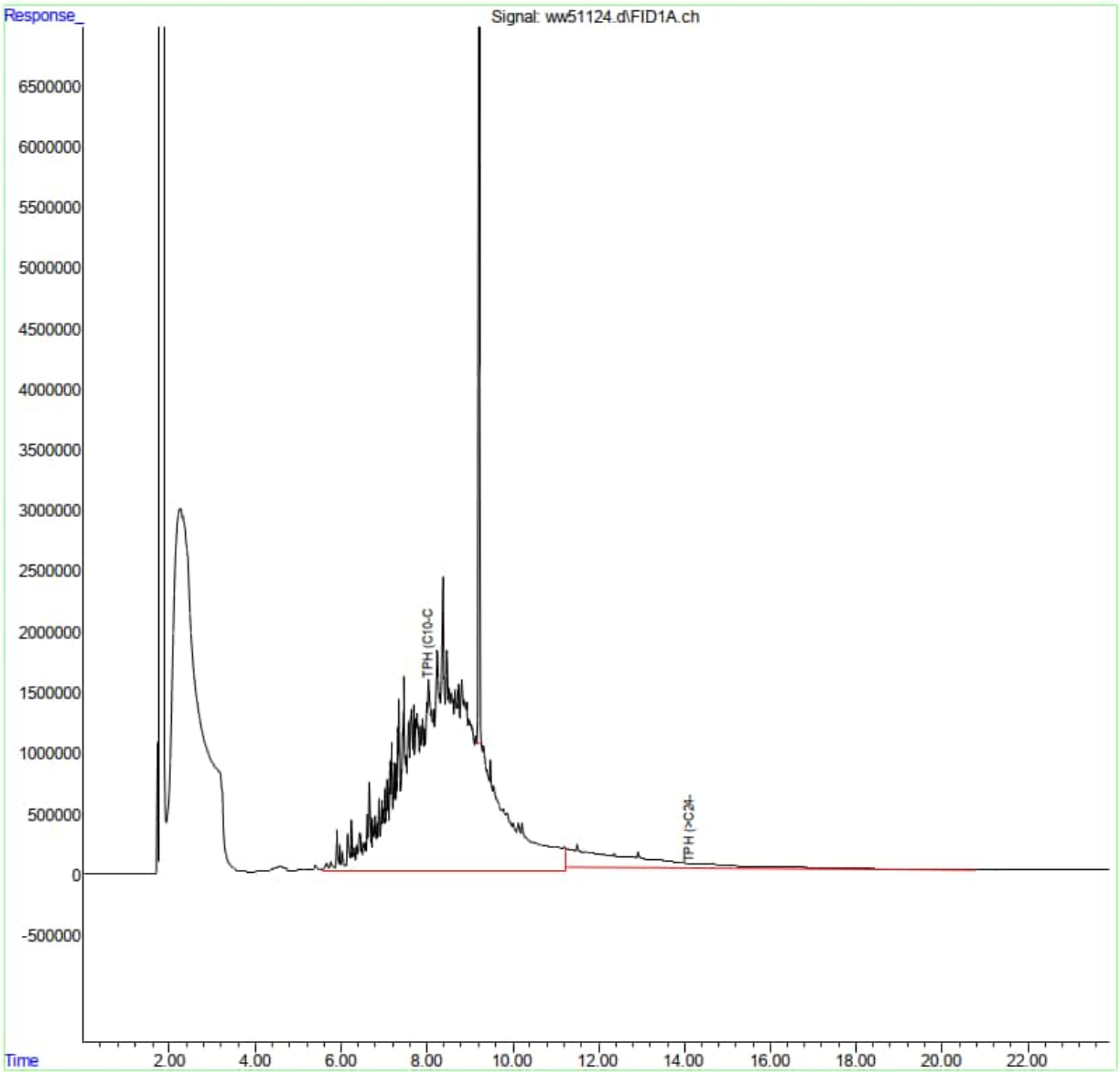
Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2409B Sample Date: 9/26/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 2,010** **TPH-o (C24 to C40) 200 J**

```
Quant Time: Oct 01 09:45:27 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

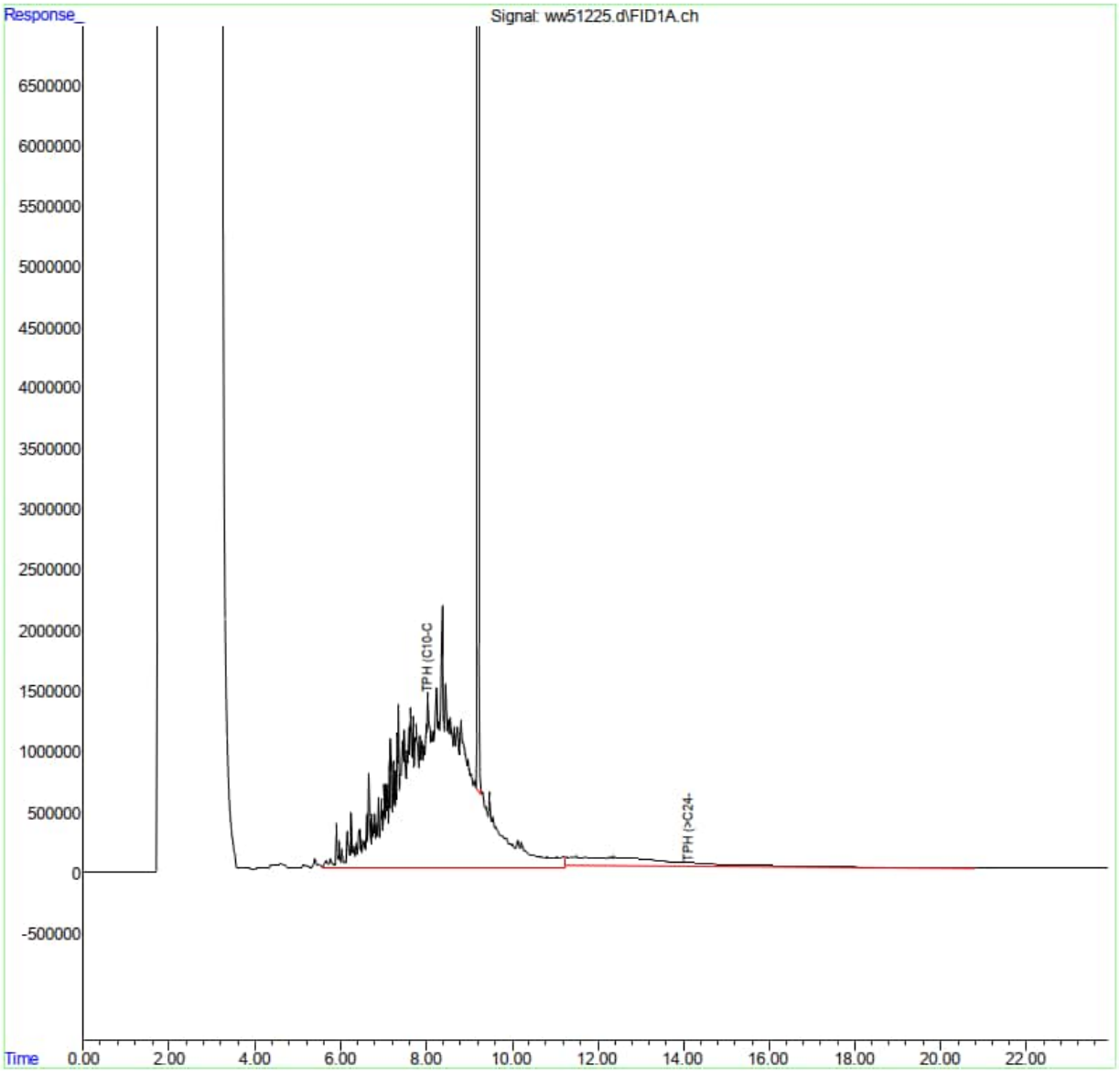
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,560** **TPH-o SGC (C24 to C40) 143 J**

```
Quant Time: Oct 04 16:27:55 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



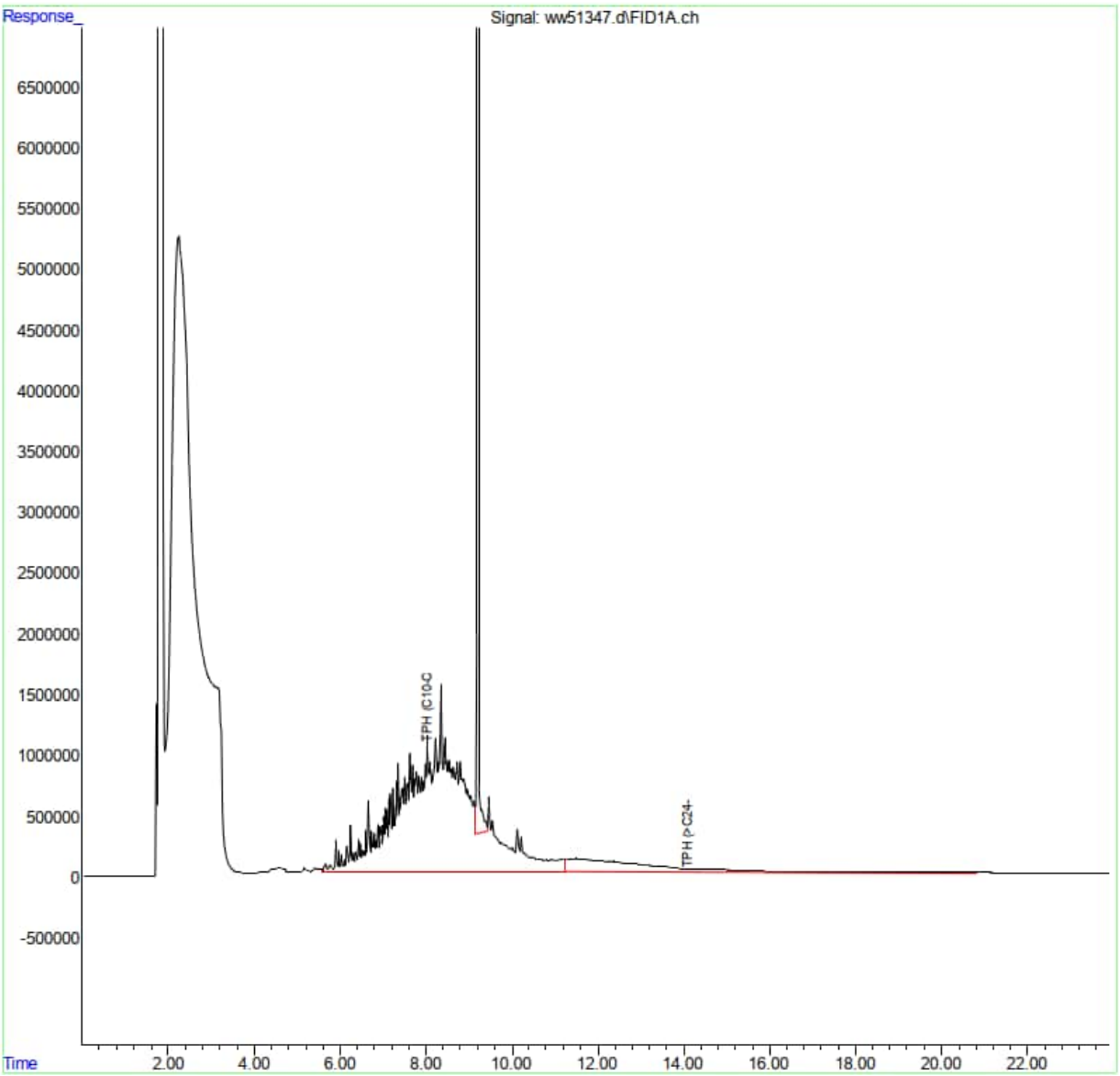
Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2410A Sample Date: 10/7/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,200** **TPH-o (C24 to C40) 150 J**

```
Quant Time: Oct 15 10:01:24 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

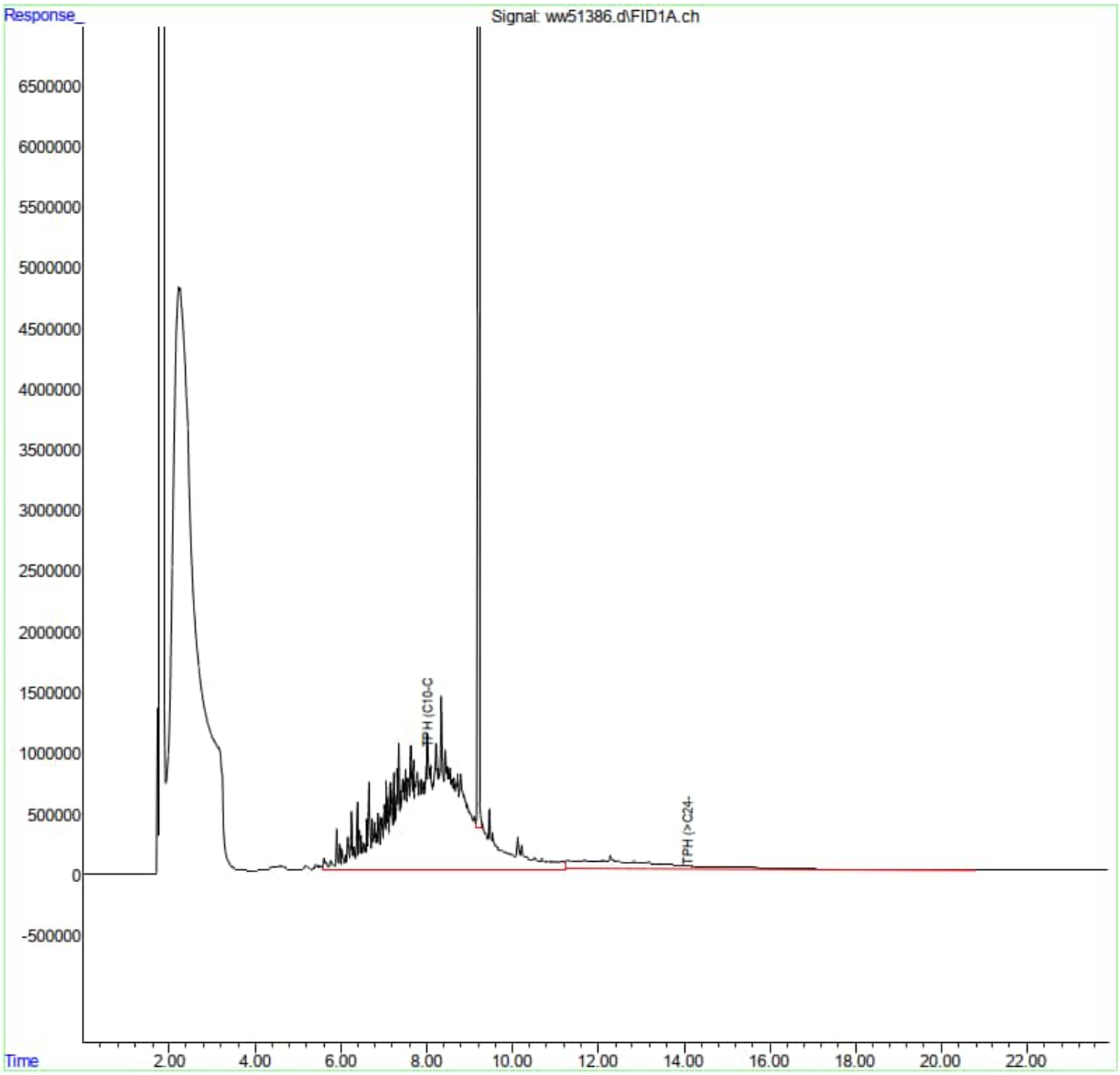
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,100 J+** **TPH-o SGC (C24 to C40) 123 J**

```
Quant Time: Oct 16 13:51:46 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



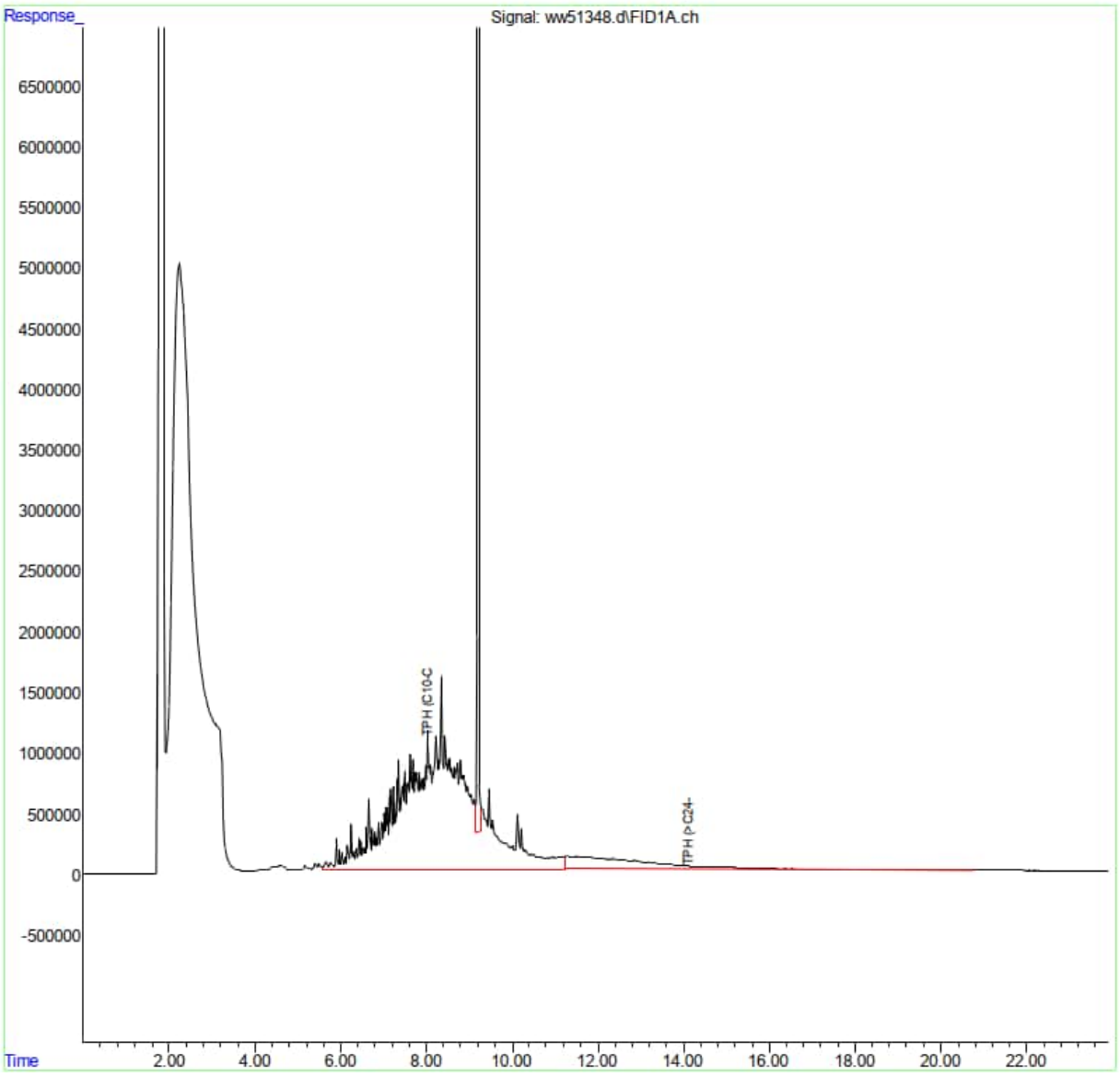
Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2410A Sample Date: 10/7/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,220** **TPH-o (C24 to C40) 154 J**

```
Quant Time: Oct 15 10:02:29 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

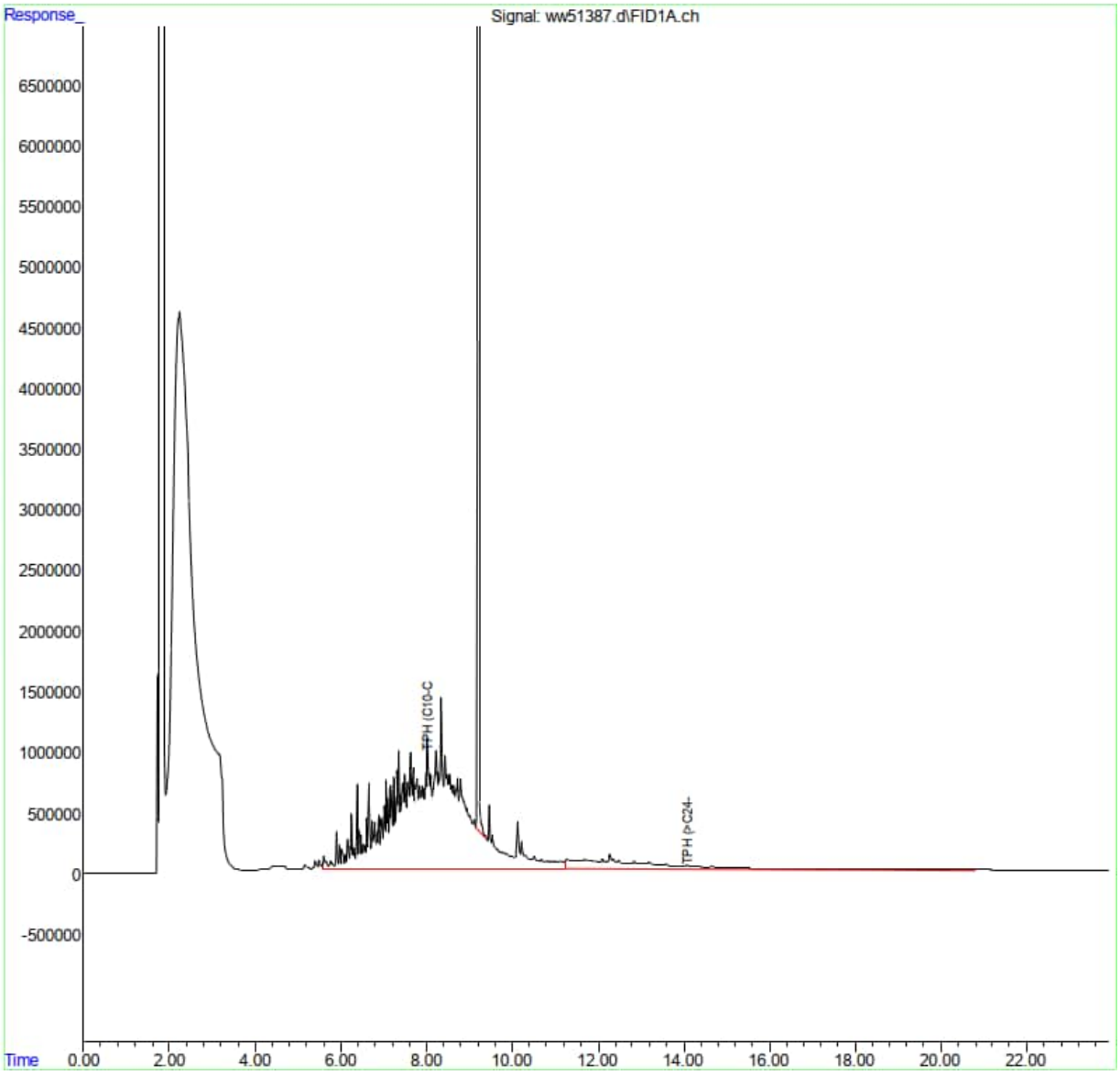
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,060 J+** **TPH-o SGC (C24 to C40) 119 J**

```
Quant Time: Oct 16 14:21:50 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



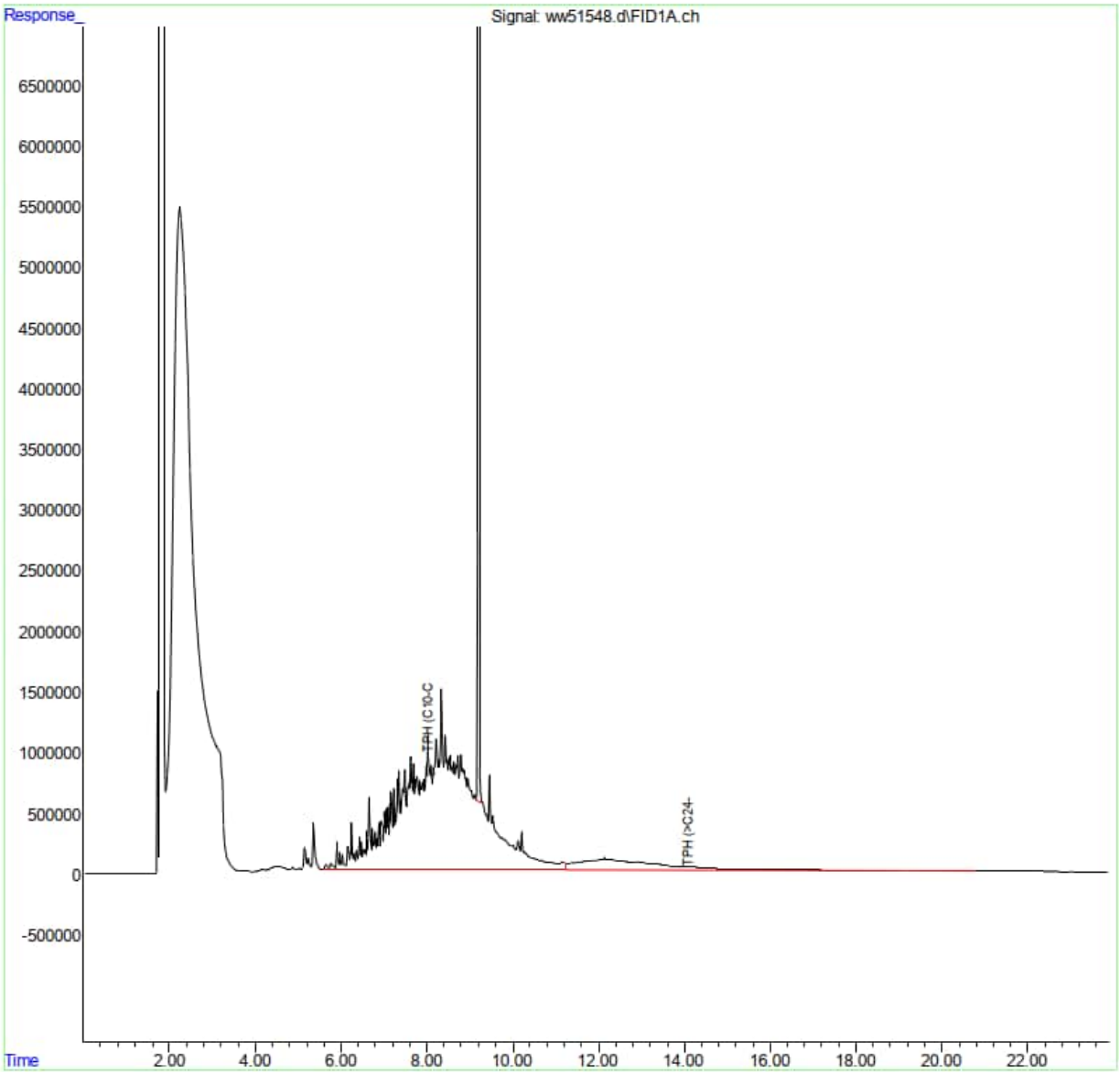
Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2410B Sample Date: 10/21/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,200** **TPH-o (C24 to C40) 132 J**

```
Quant Time: Oct 29 11:15:28 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

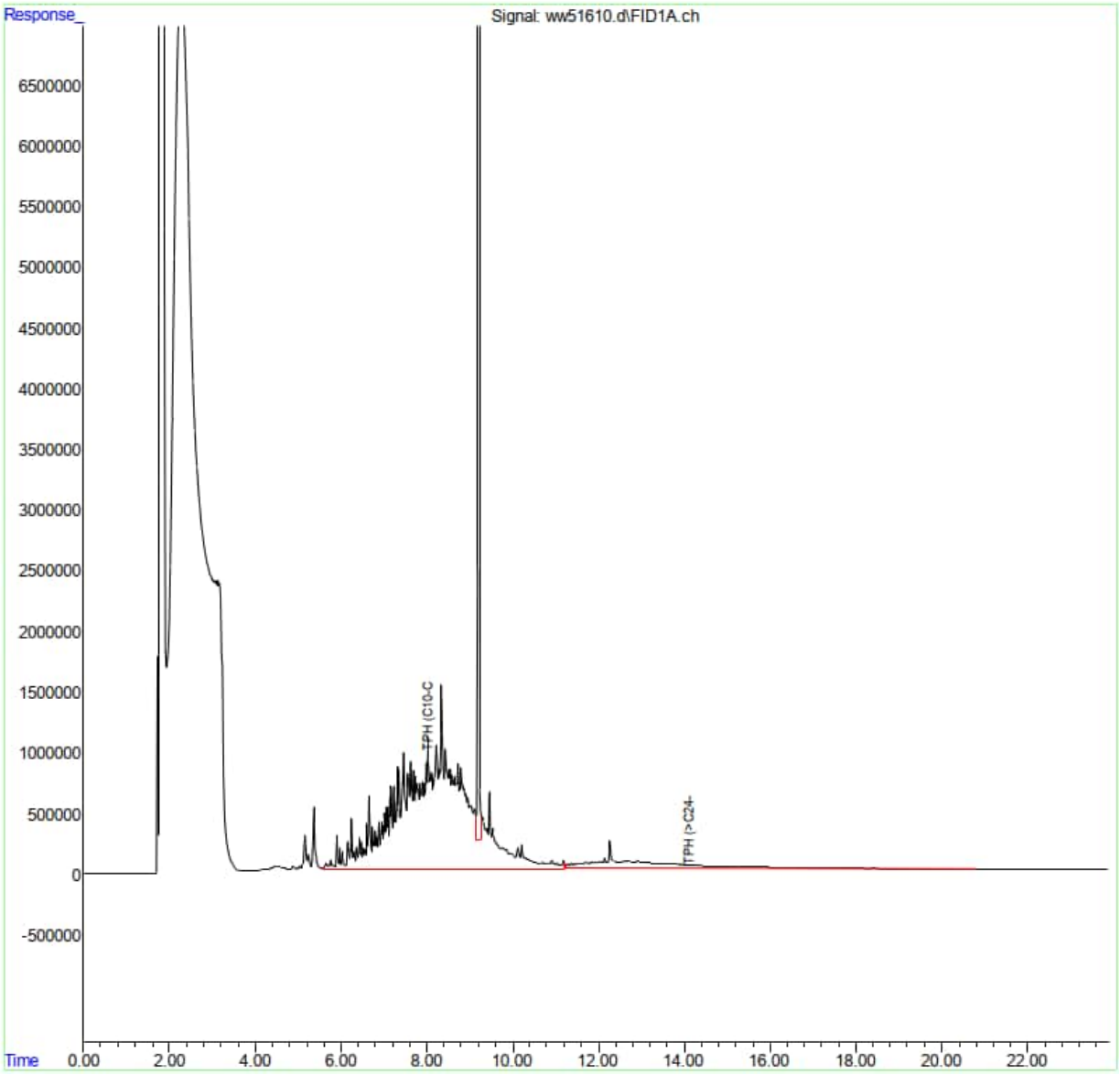
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,070** **TPH-o SGC (C24 to C40) 99.2 J**

```
Quant Time: Oct 30 11:52:26 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

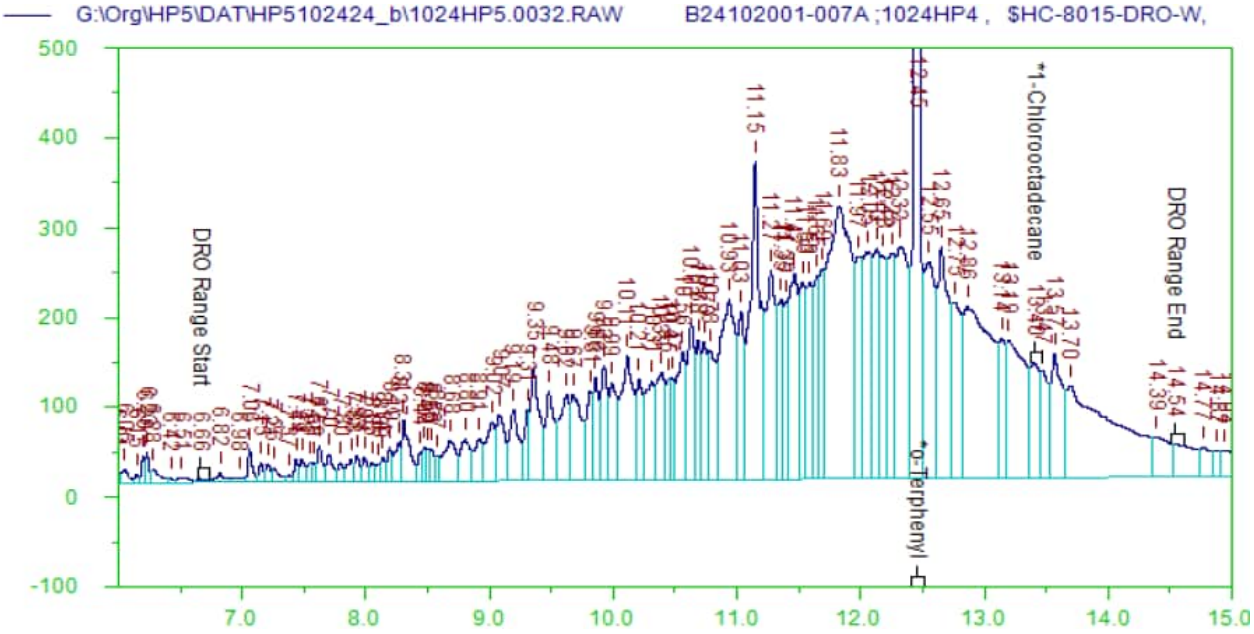
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

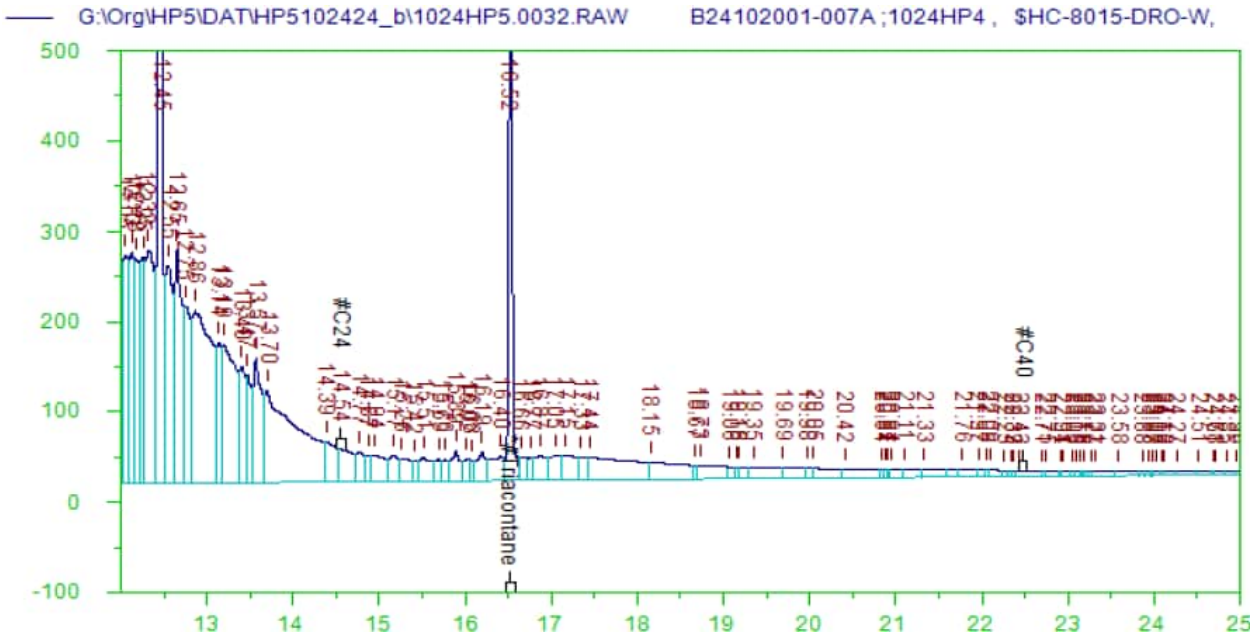


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2410B Sample Date: 10/21/2024

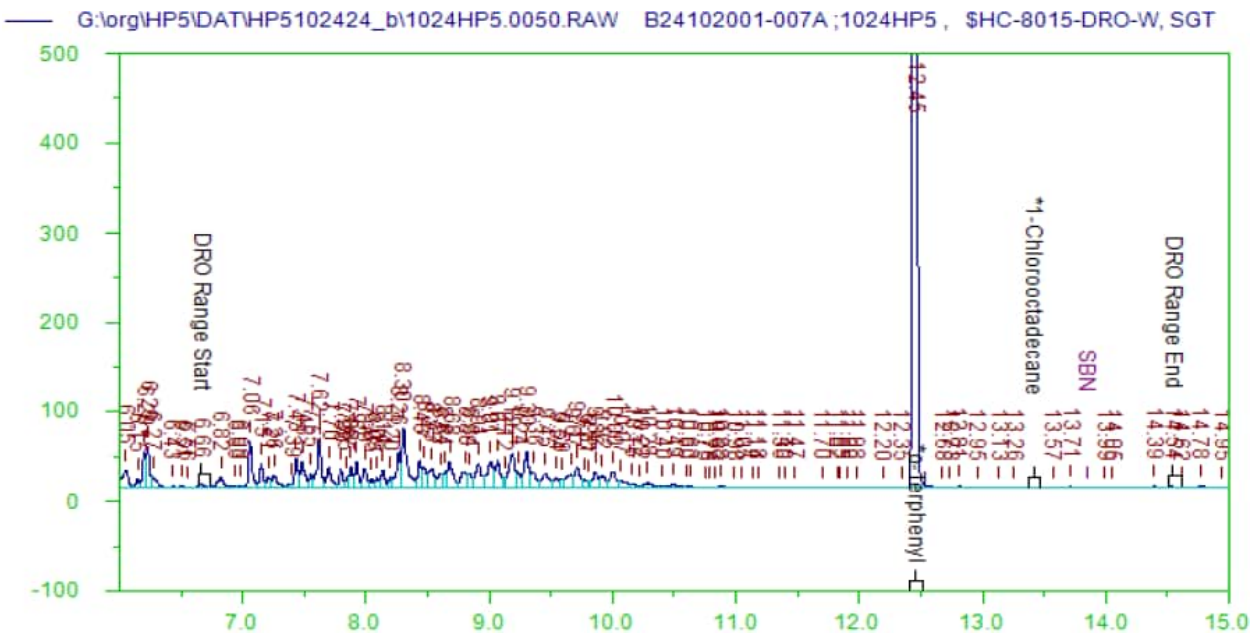
Lab: (b) (4)

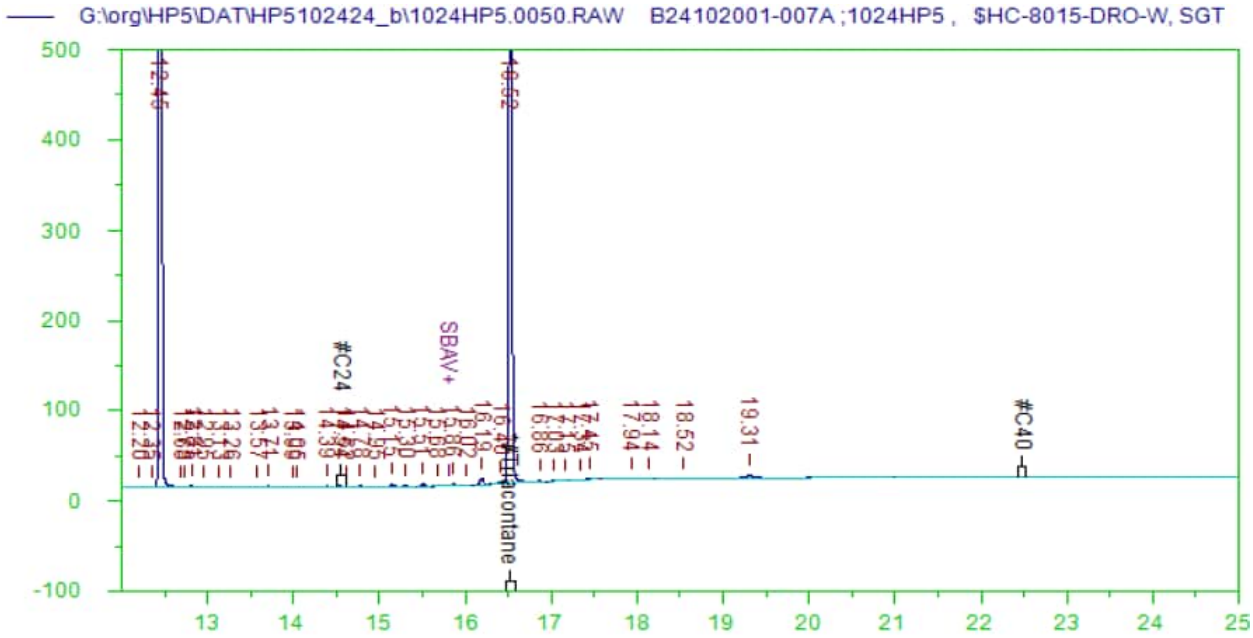
Results (ug/L): **TPH-d (C10 to C24) 2,006** **TPH-o (C24 to C40) 353.1**





Results (ug/L): **TPH-d SGC (C10 to C24) 126.7 J** **TPH-o SGC (C24 to C40) <189 U**





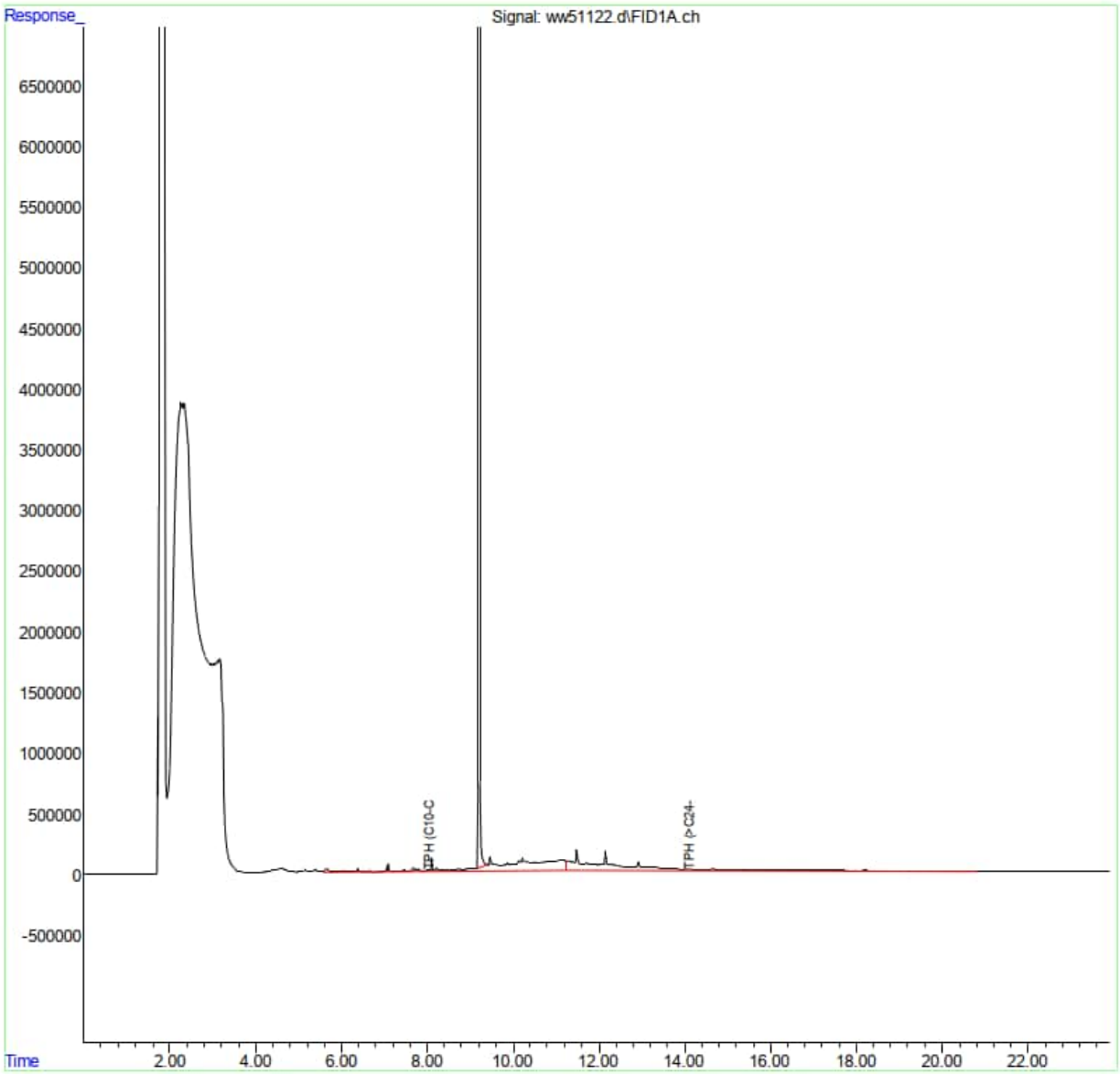
Location: **RHMW03** **Sample ID:** RHMW03-WGN01LF-2409B Sample Date: 9/26/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 86.4 J** **TPH-o (C24 to C40) 87.2 J**

```
Quant Time: Oct 01 09:38:26 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

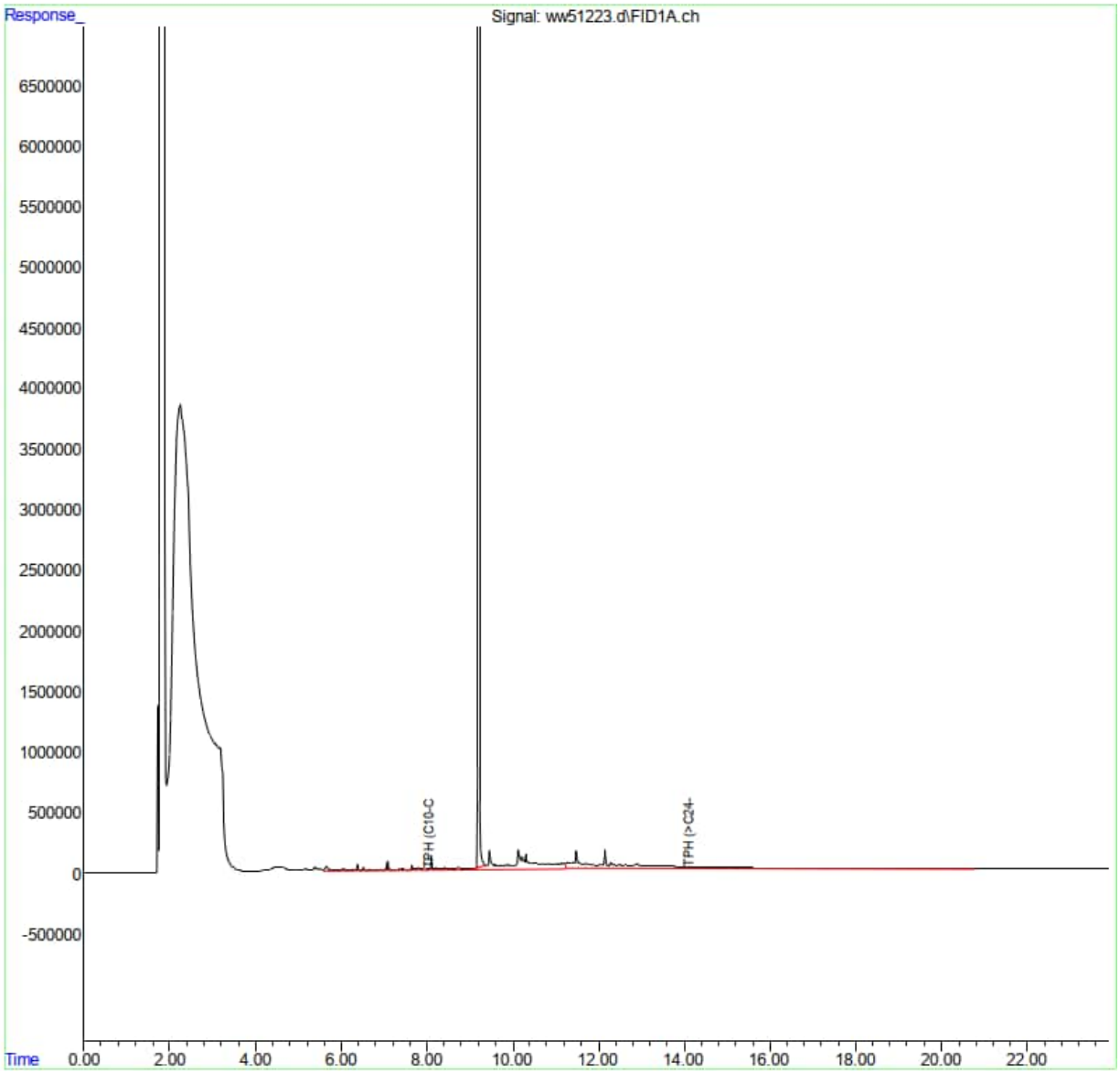
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Oct 04 16:24:46 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



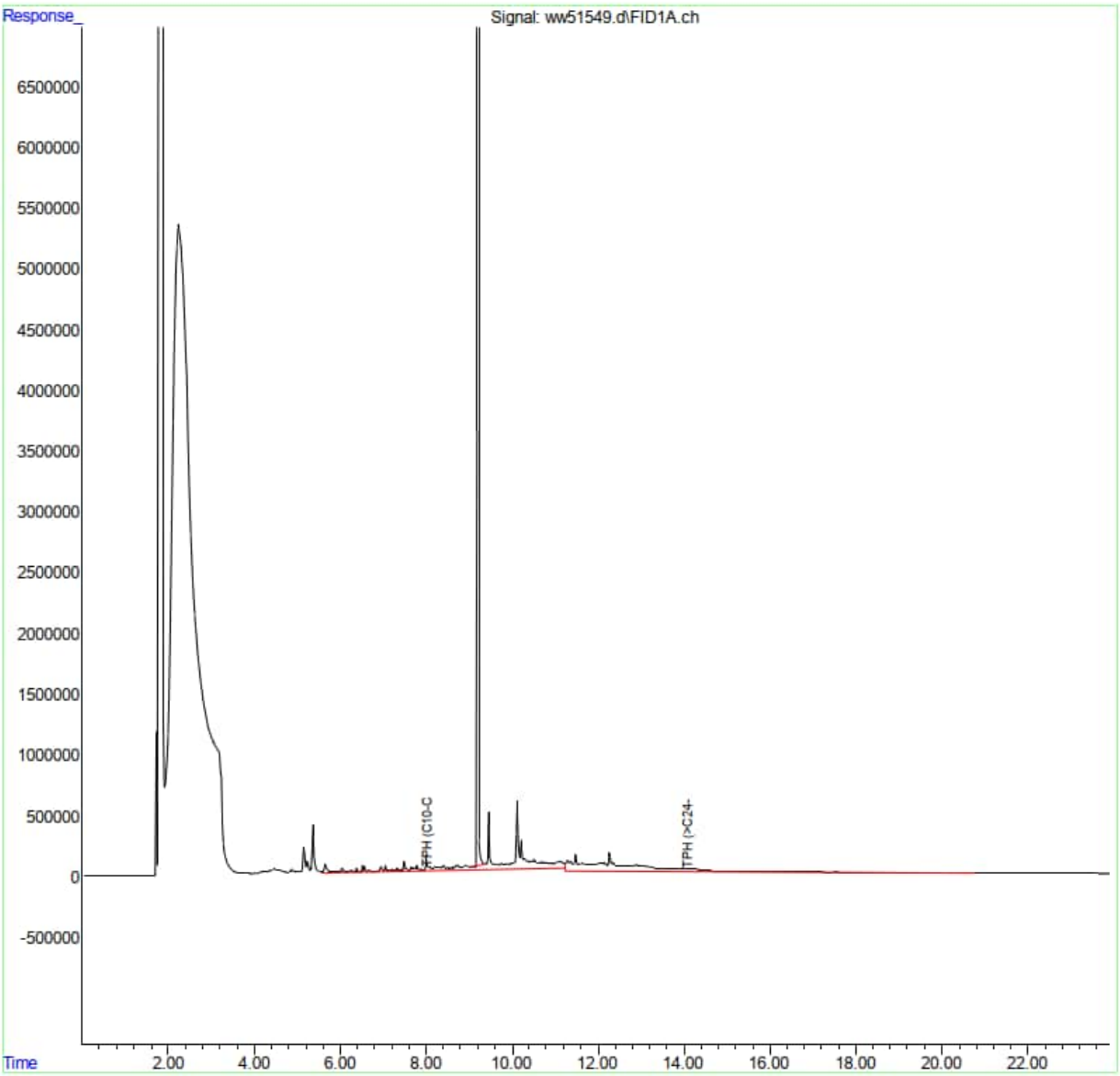
Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2410B Sample Date: 10/22/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 105 J** **TPH-o (C24 to C40) 106 J**

```
Quant Time: Oct 29 09:42:17 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

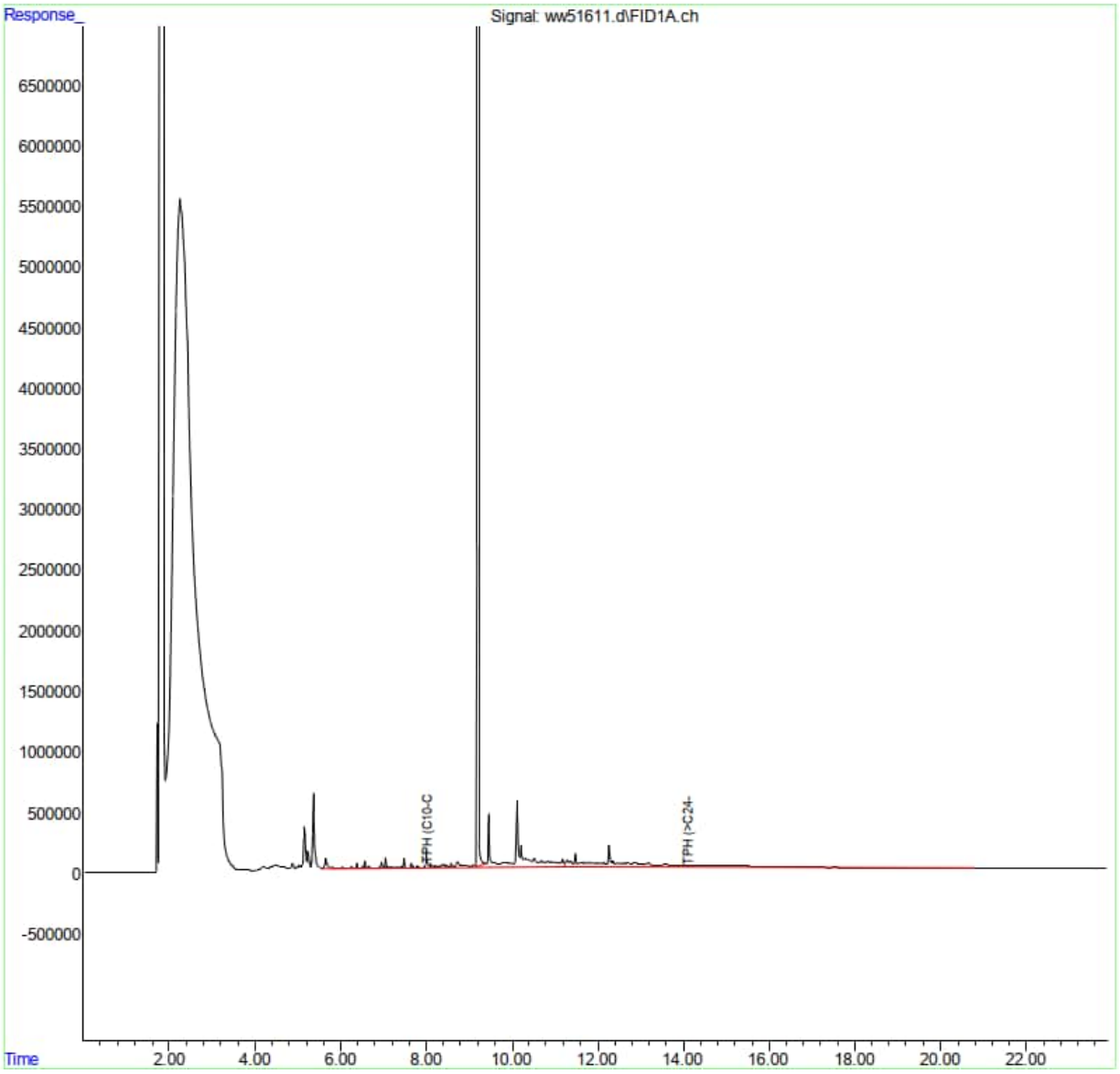
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 86.6 J** **TPH-o SGC (C24 to C40) <150 U**

```
Quant Time: Oct 30 11:44:38 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

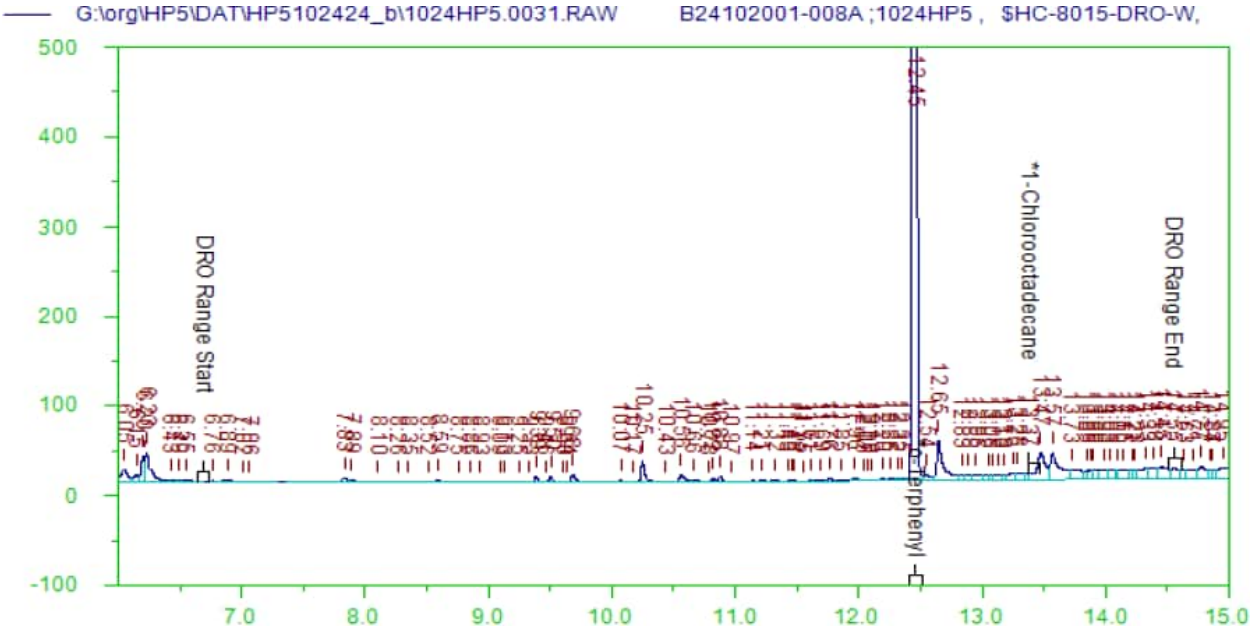
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

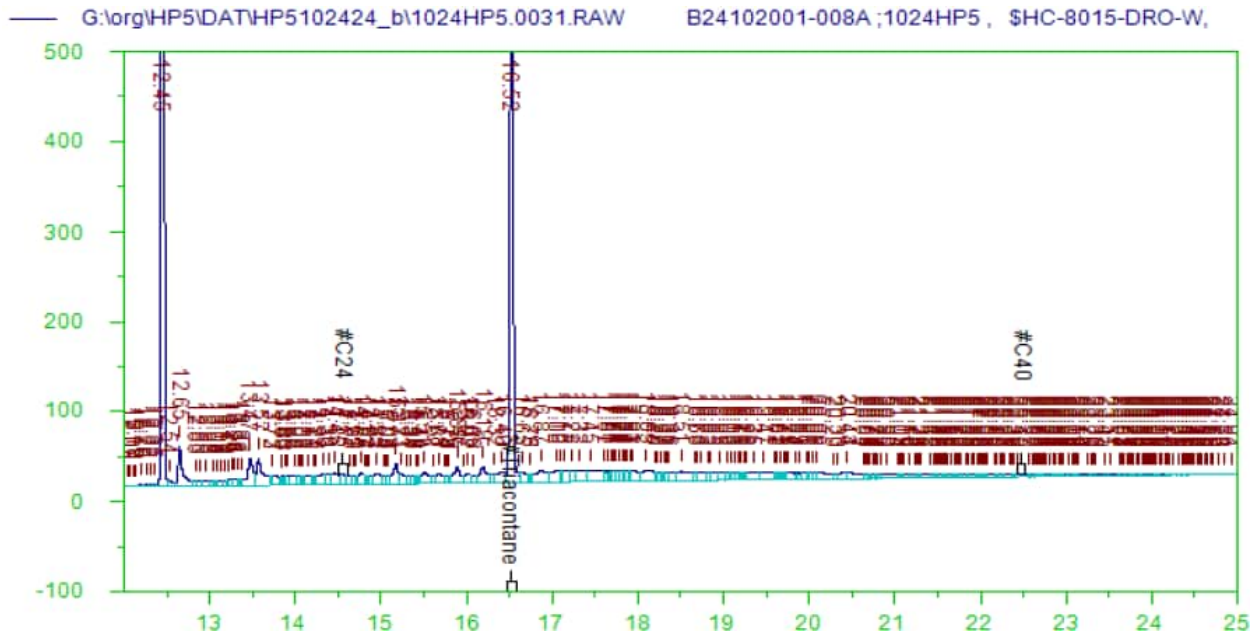


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2410B Sample Date: 10/22/2024

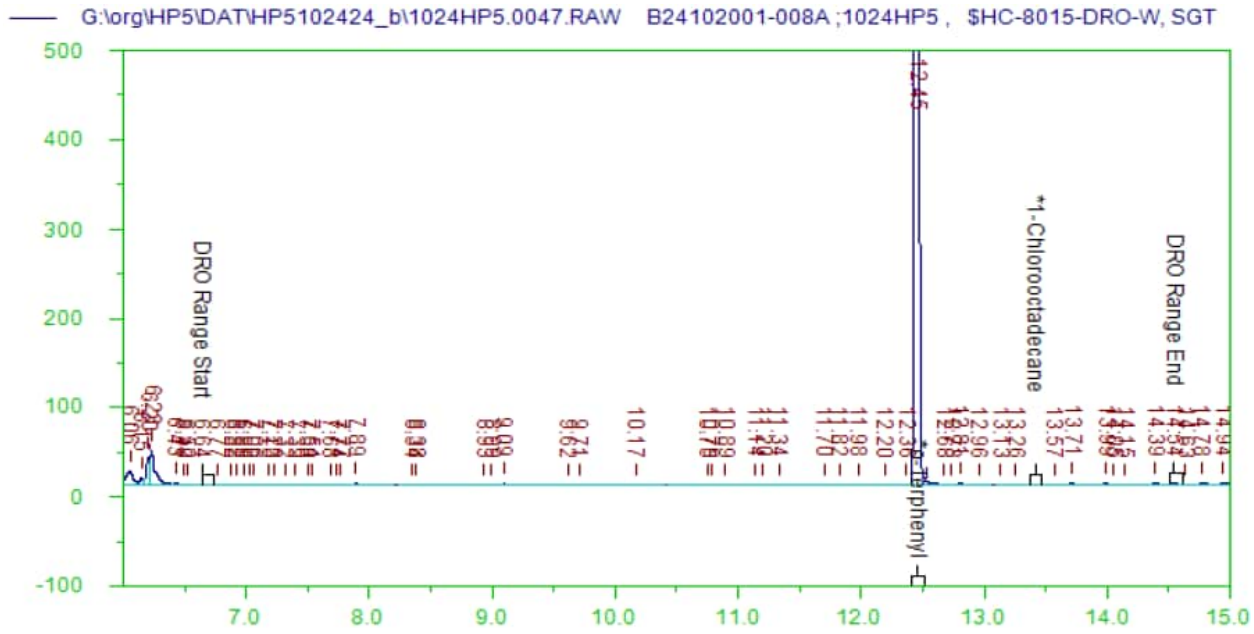
Lab: (b) (4)

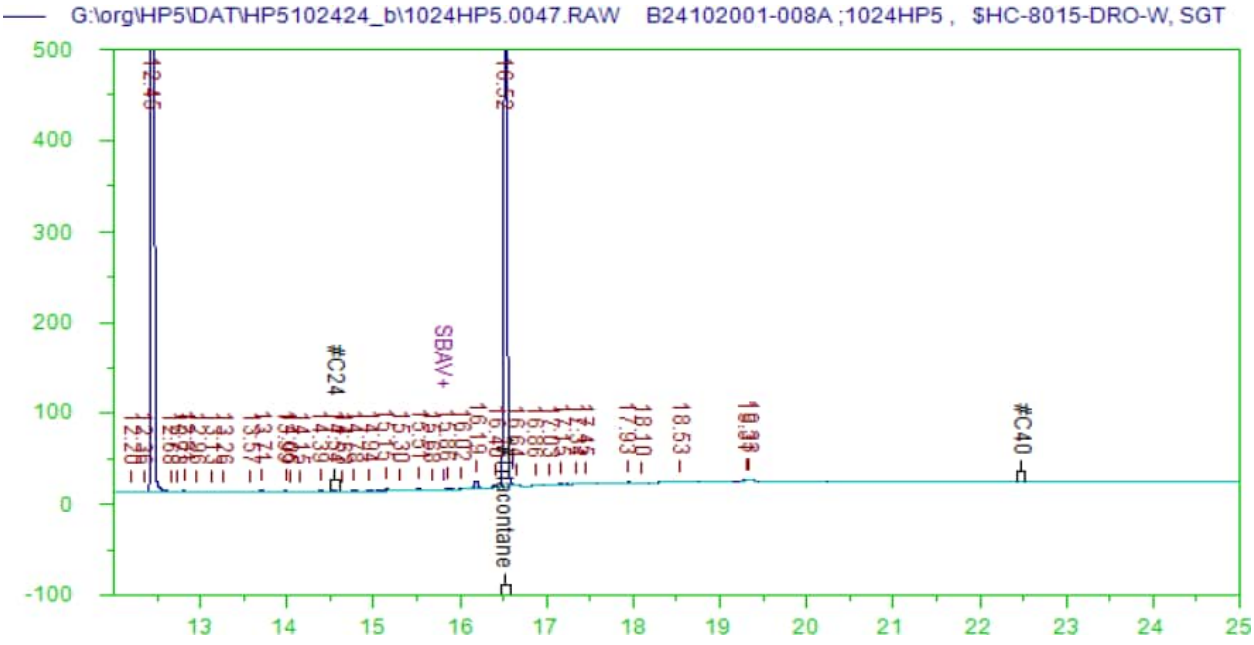
Results (ug/L): **TPH-d (C10 to C24) 62.29 J** **TPH-o (C24 to C40) 170.5 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**





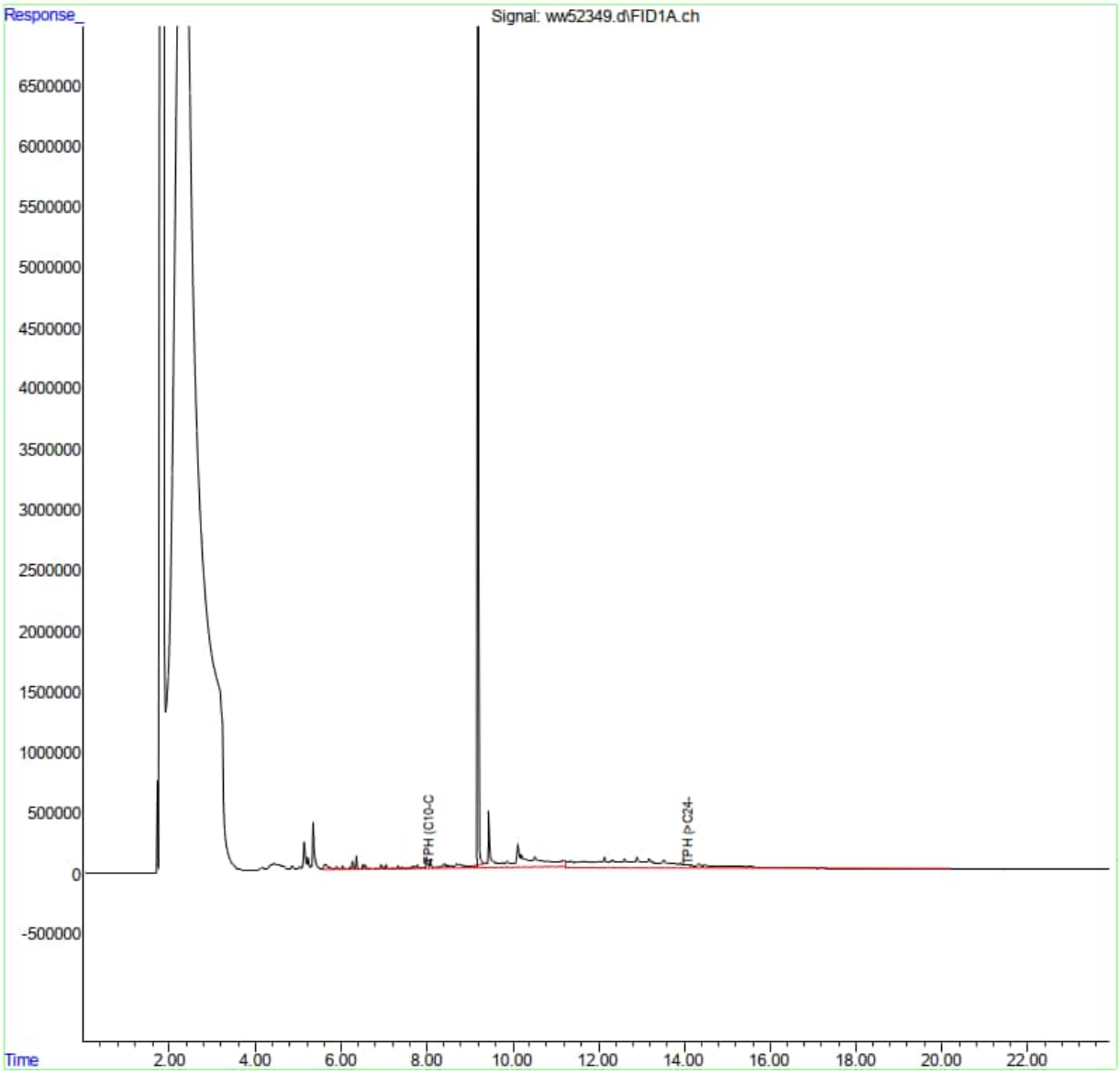
Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2411B Sample Date: 11/19/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 91.8 J** **TPH-o (C24 to C40) 103 J**

```
Quant Time: Nov 26 09:28:11 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

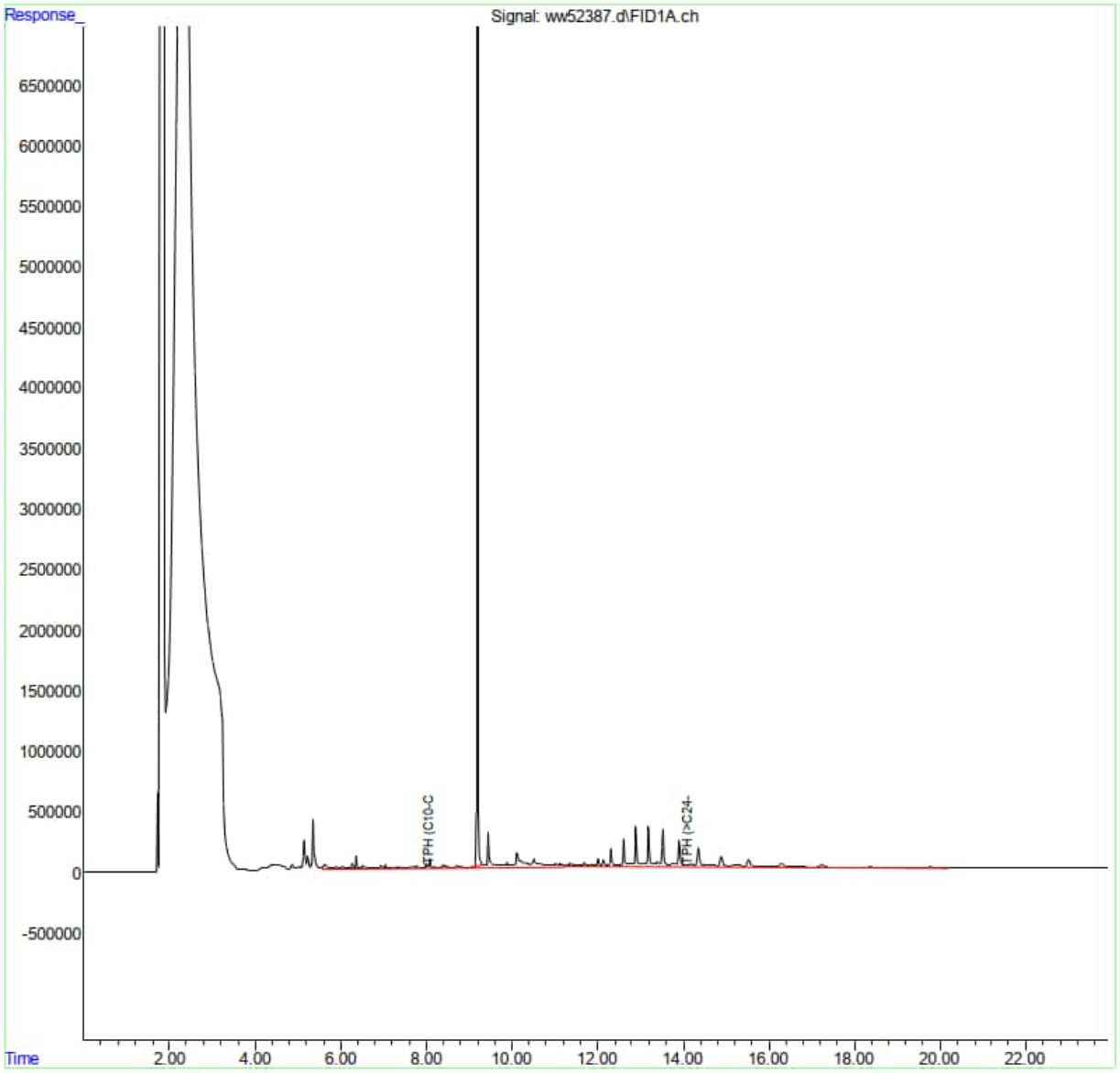
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) 105 J**

```
Quant Time: Nov 27 09:48:03 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

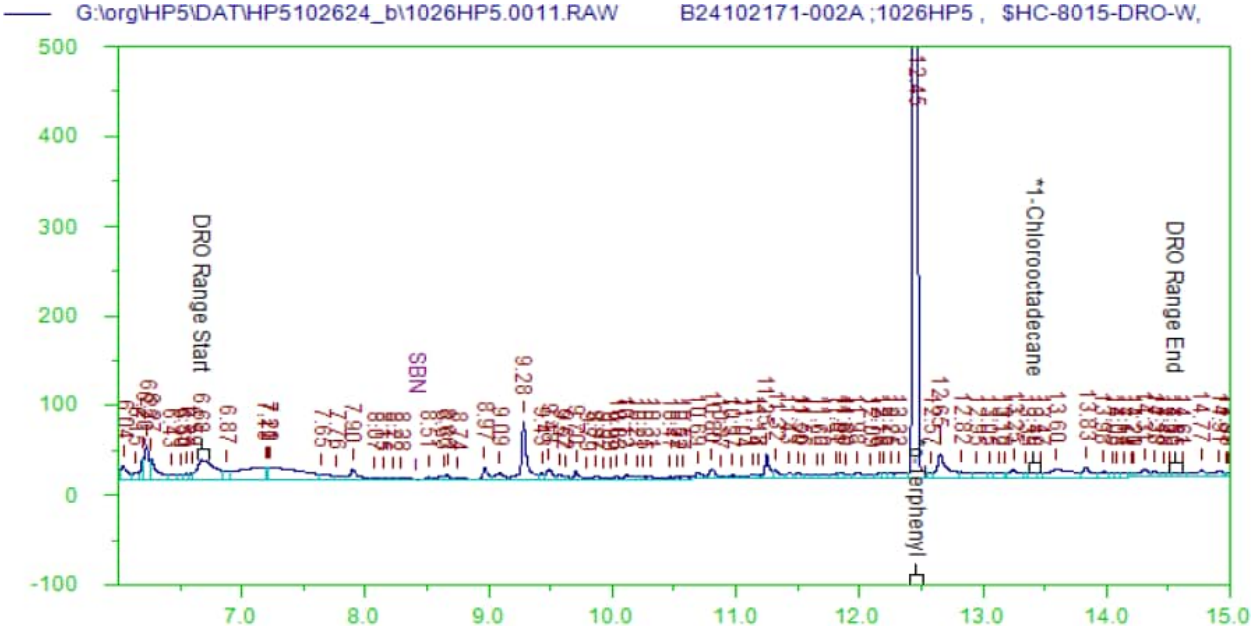
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

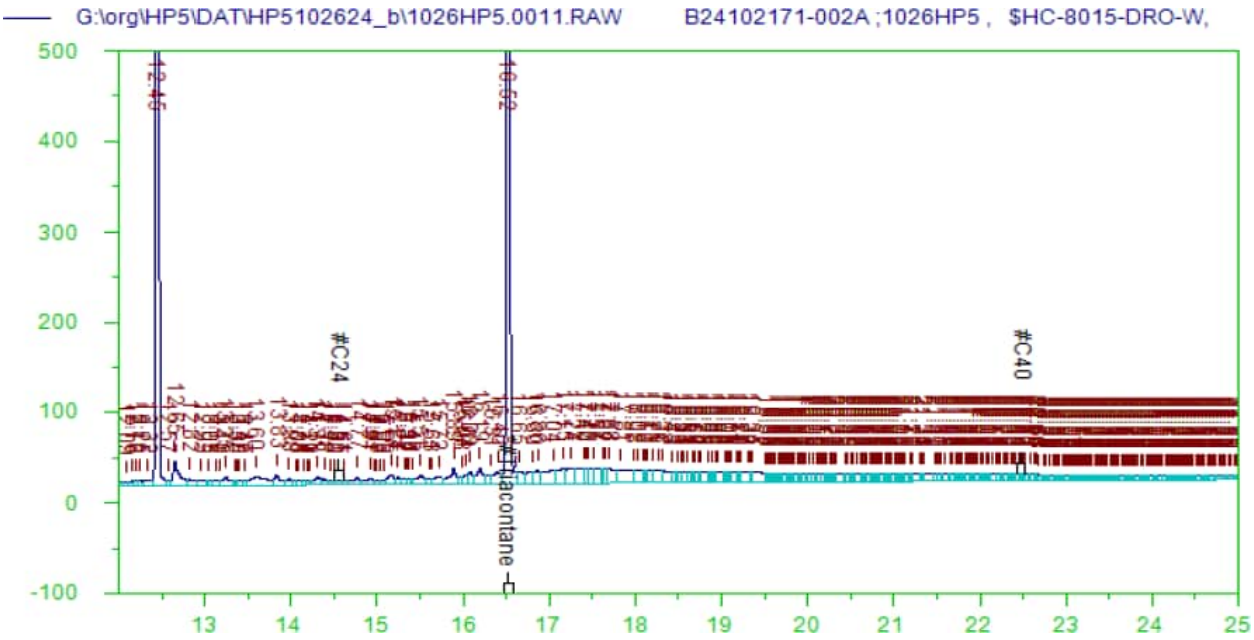


Location: **RHMW05** Sample ID: RHMW05-WGN01LF-2410B Sample Date: 10/23/2024

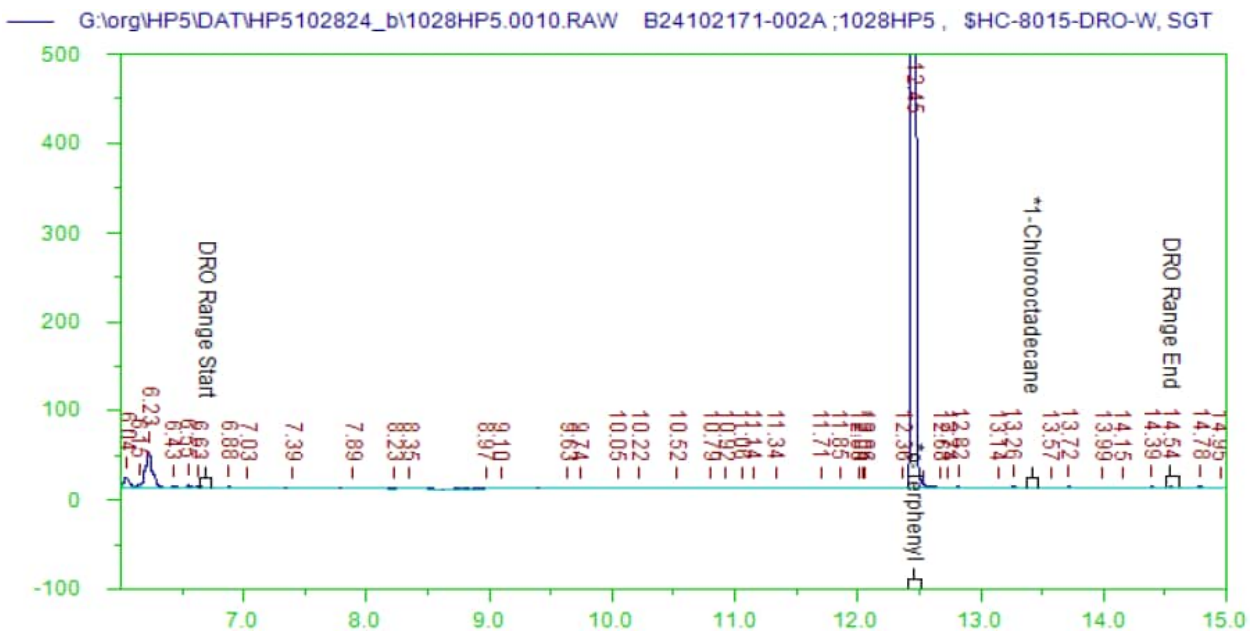
Lab: (b) (4)

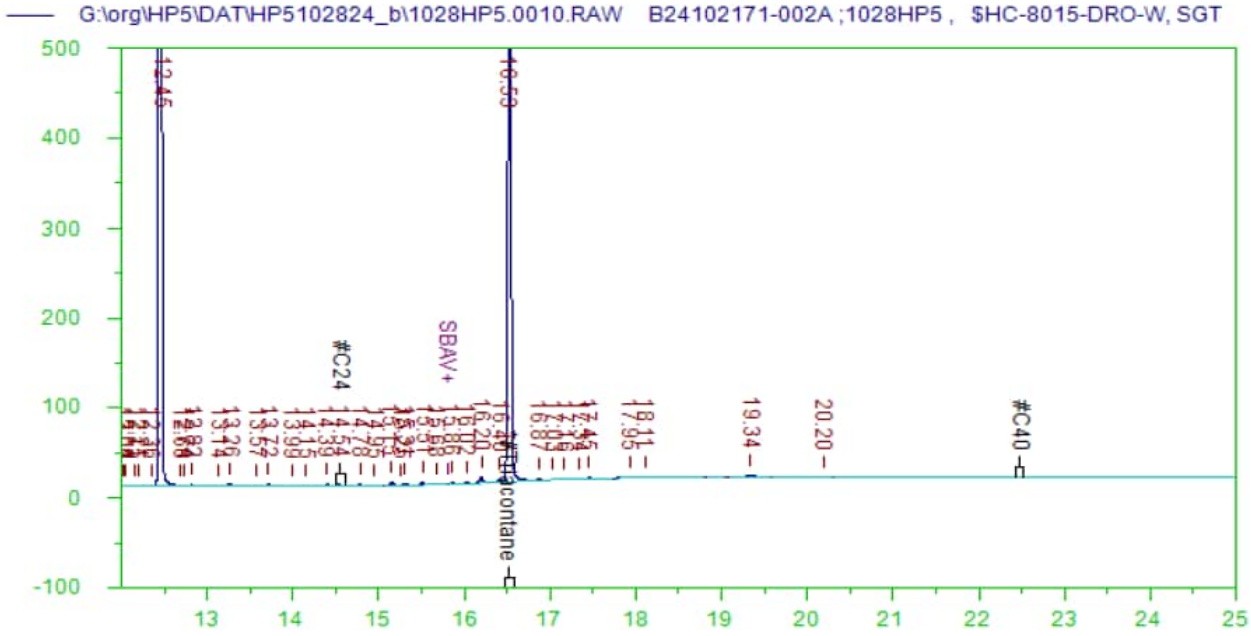
Results (ug/L): **TPH-d (C10 to C24) 108.3 J** **TPH-o (C24 to C40) 212.3 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <153 U** **TPH-o SGC (C24 to C40) <204 U**





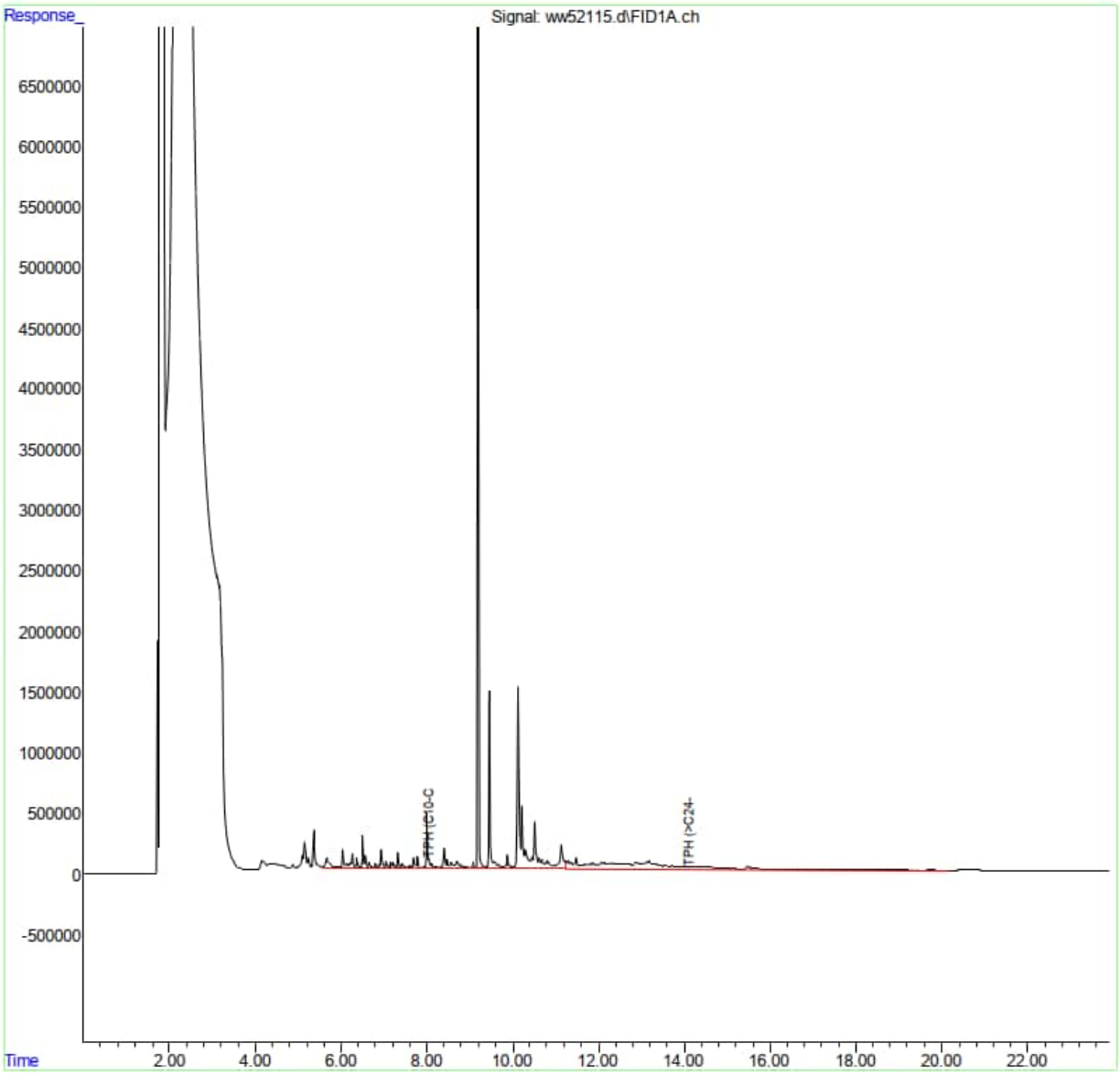
Location: **RHMW17** Sample ID: RHMW17-WGN01LF-2411A Sample Date: 11/12/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 178 J** **TPH-o (C24 to C40) 94.9 J**

```
Quant Time: Nov 19 09:33:51 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

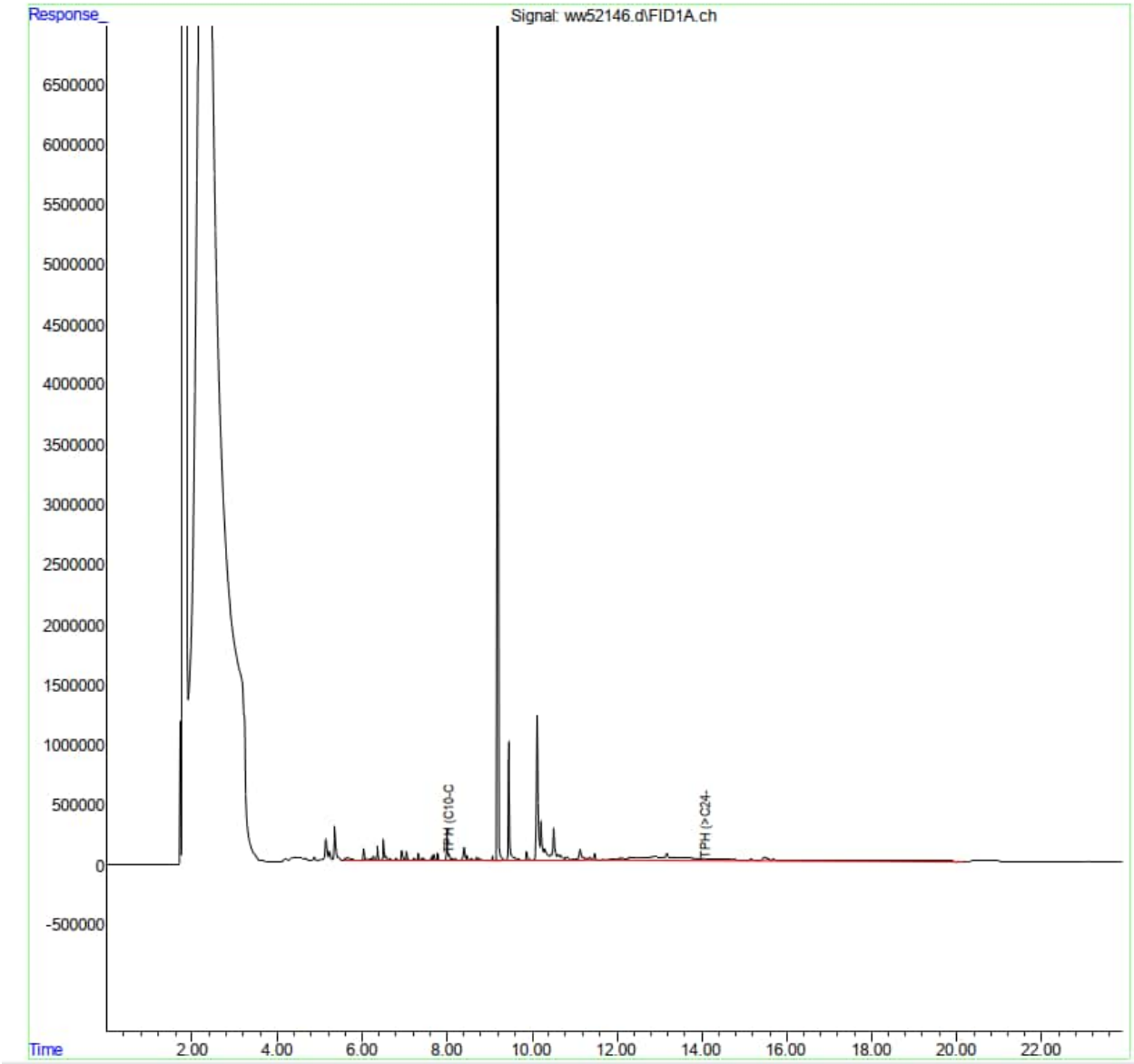
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 119 J** **TPH-o SGC (C24 to C40) <170 UJ**

```
Quant Time: Nov 19 12:44:41 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



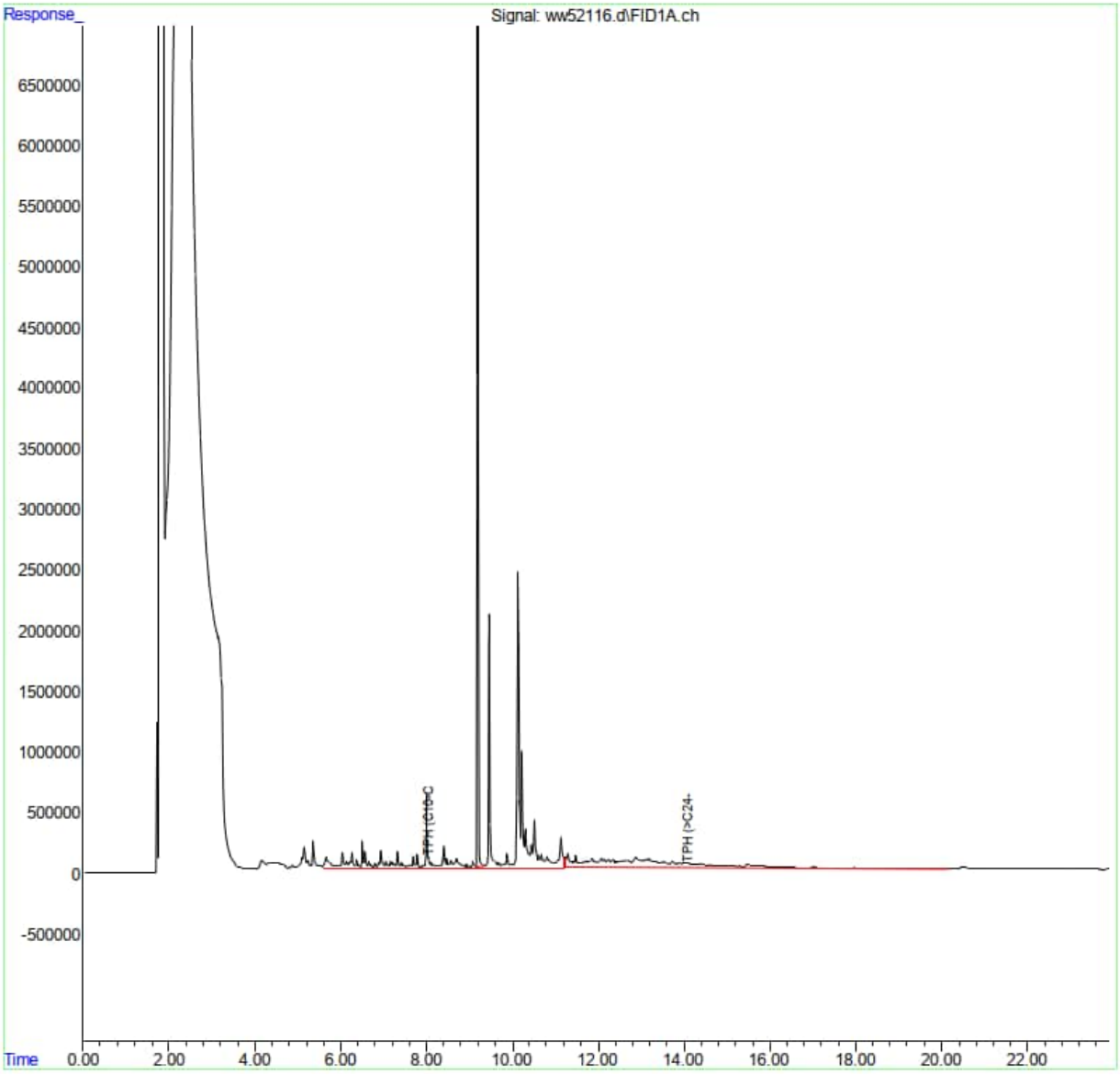
Location: **RHMW17** Sample ID: RHMW17-WGFD01LF-2411A Sample Date: 11/12/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 257 J-** **TPH-o (C24 to C40) 115 J**

```
Quant Time: Nov 19 09:37:44 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

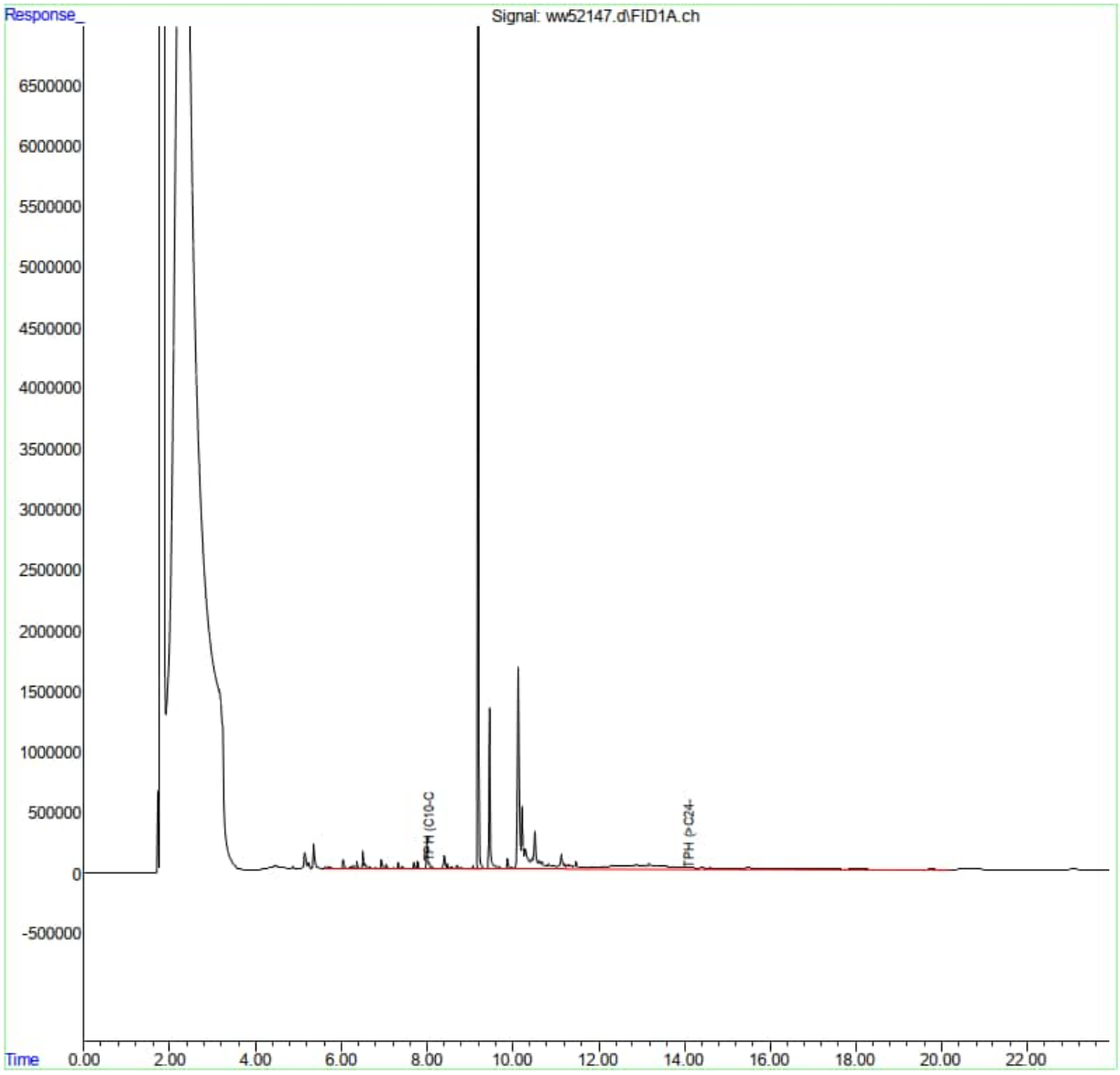
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 147 J** **TPH-o SGC (C24 to C40) <170 UJ**

```
Quant Time: Nov 19 13:14:12 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

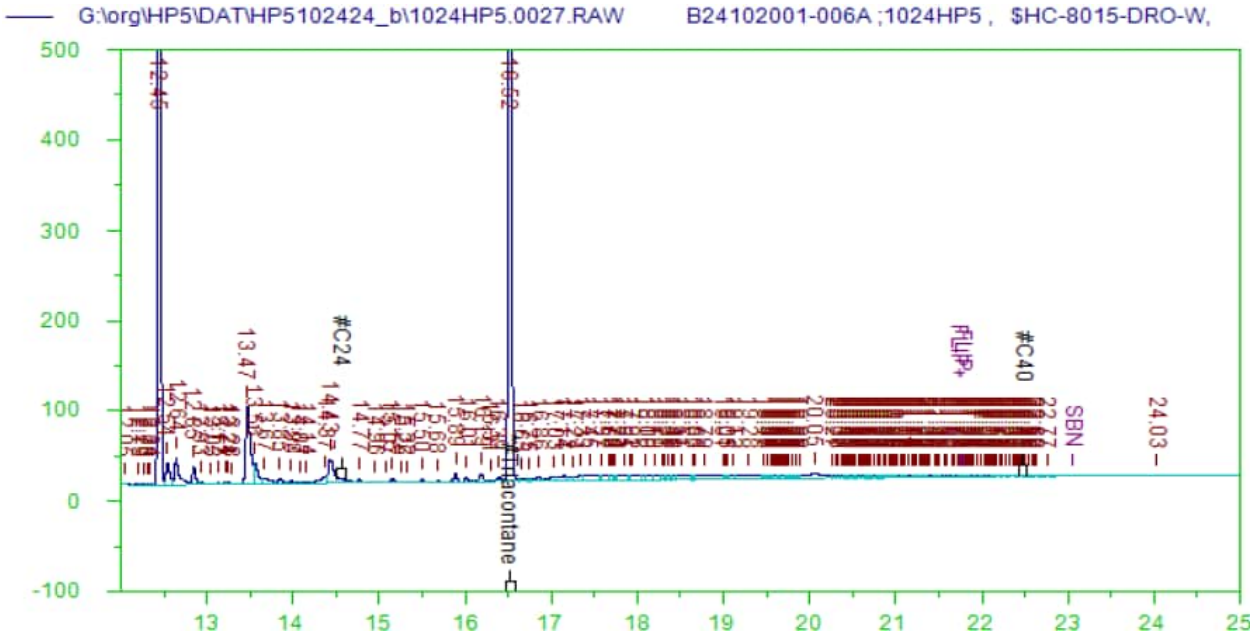
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

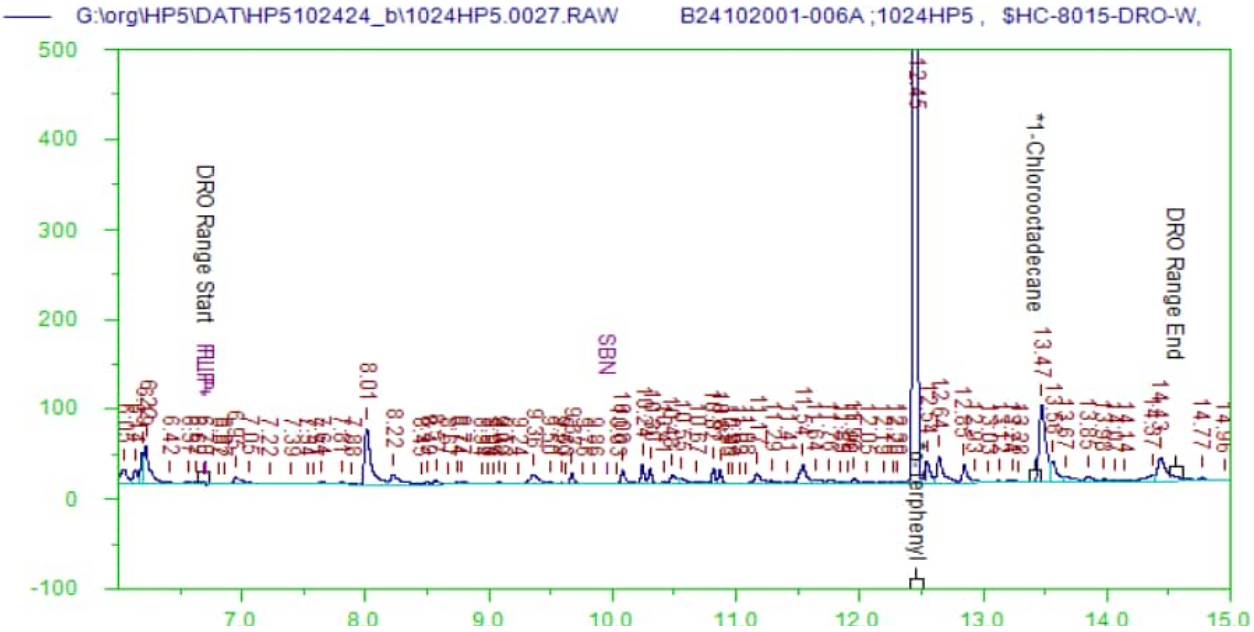


Location: **RHMW21** Sample ID: RHMW21-WGN01LF-2410B Sample Date: 10/21/2024

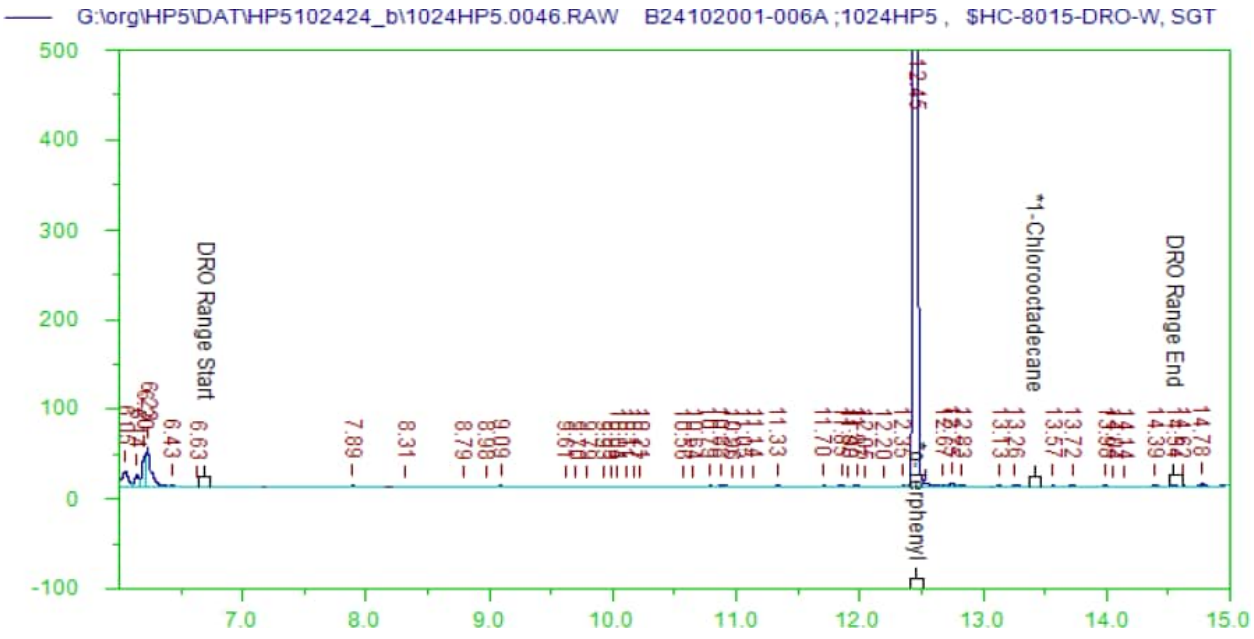
Lab: (b) (4)

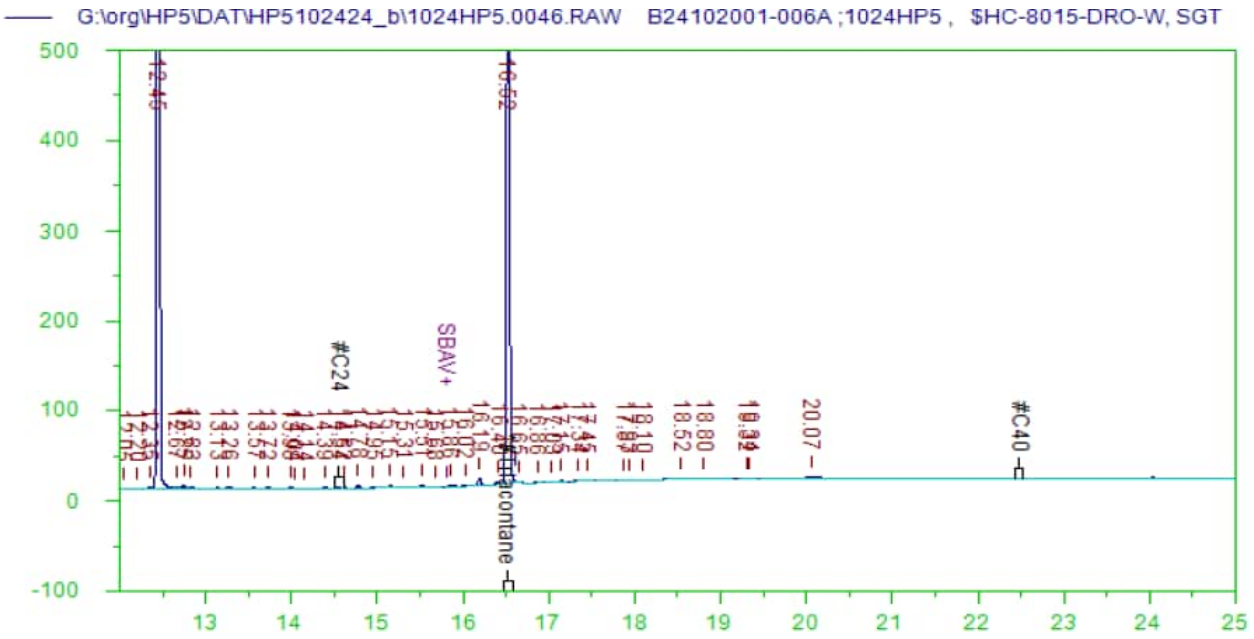
Results (ug/L): **TPH-d (C10 to C24) 79.29 J** **TPH-o (C24 to C40) <190 U**





Results (ug/L): **TPH-d SGC (C10 to C24) <143 U** **TPH-o SGC (C24 to C40) <190 U**





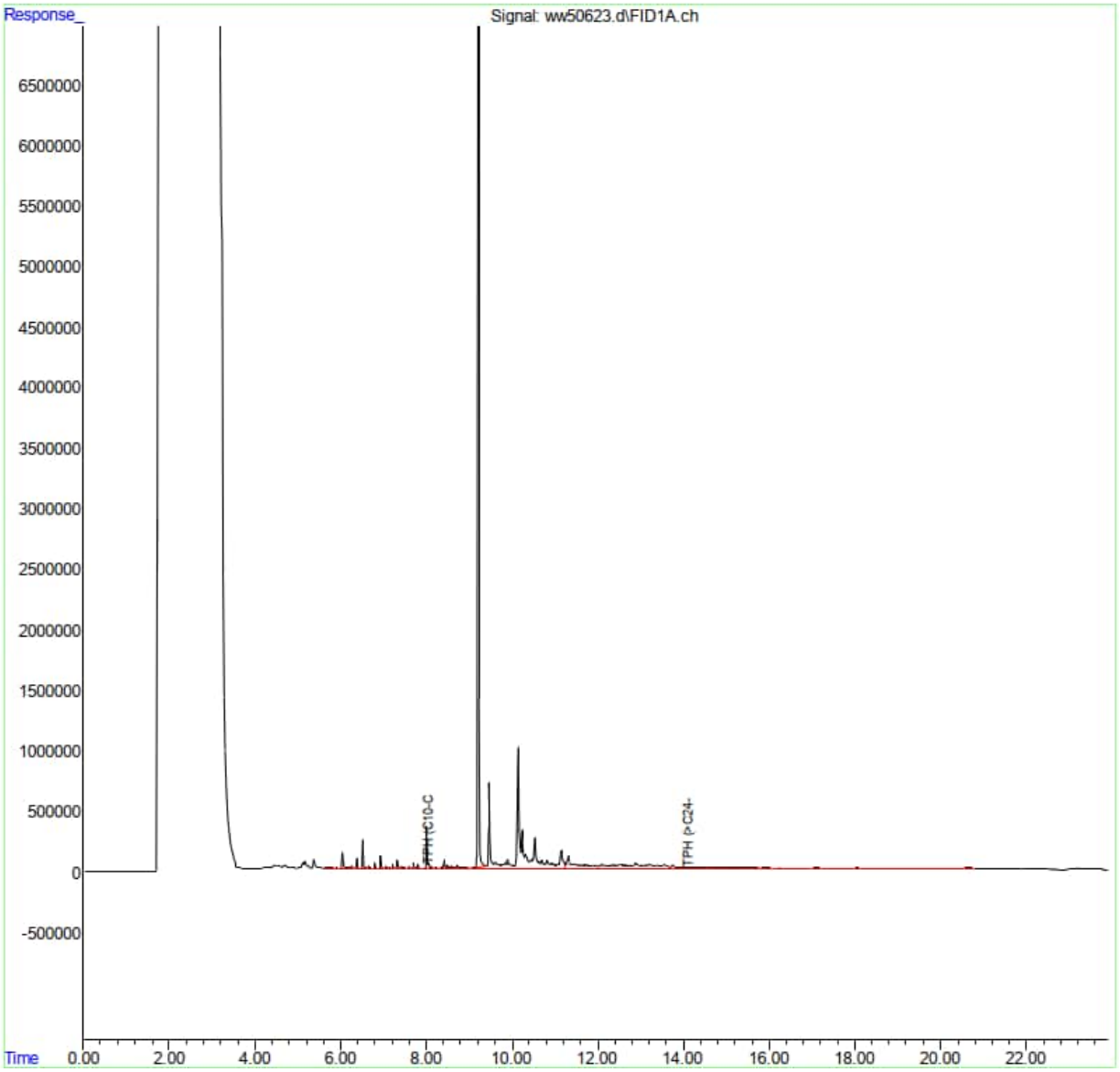
Location: **NMW25** Sample ID: NMW25-WGN01LF-2408B Sample Date: 8/28/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 121 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Sep 05 10:03:41 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

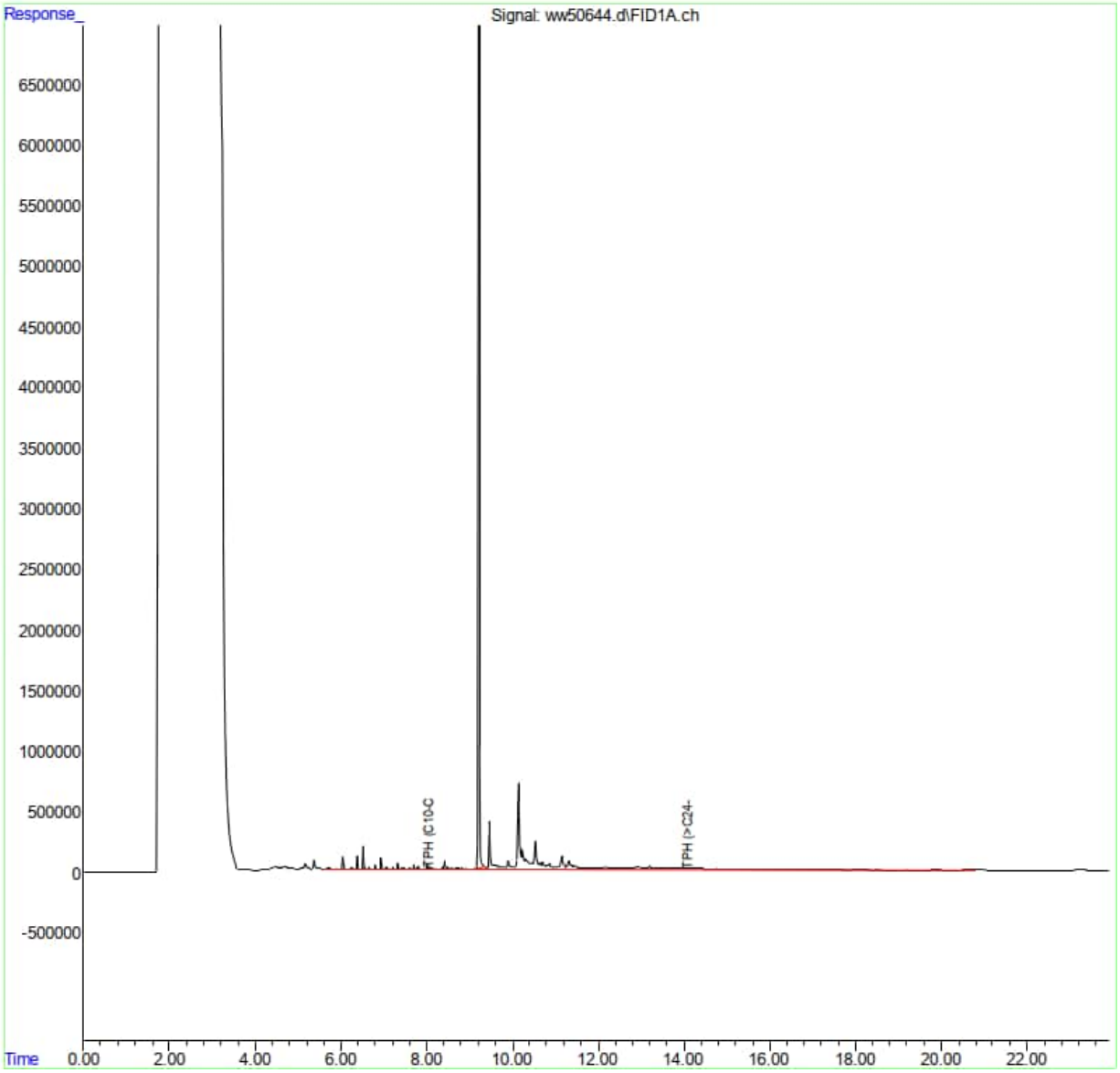
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 89.2 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 05 15:19:58 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



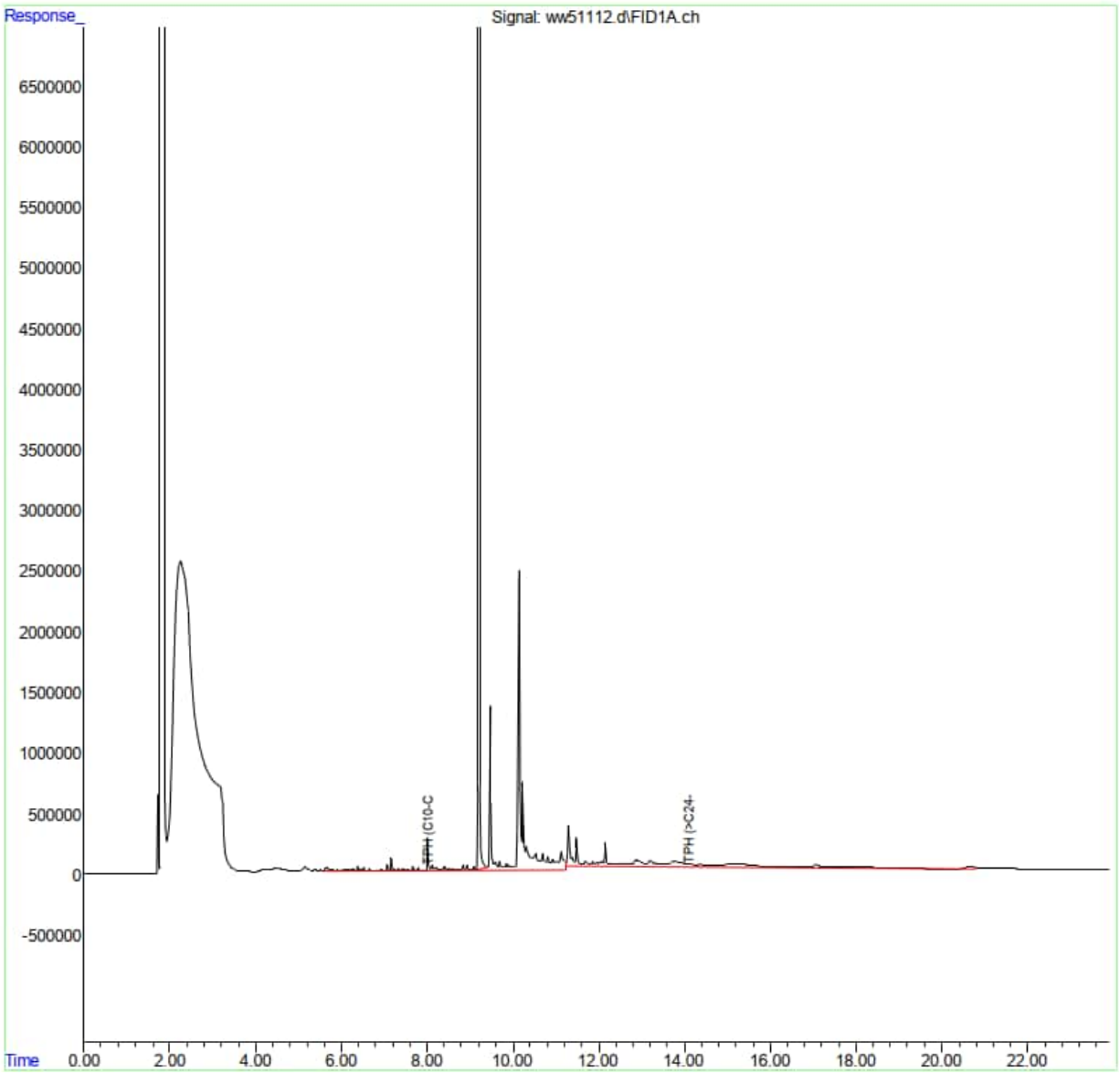
Location: **NMW25** Sample ID: NMW25-WGN01LF-2409B Sample Date: 9/24/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 182 J** **TPH-o (C24 to C40) 125 J**

```
Quant Time: Oct 01 09:38:08 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

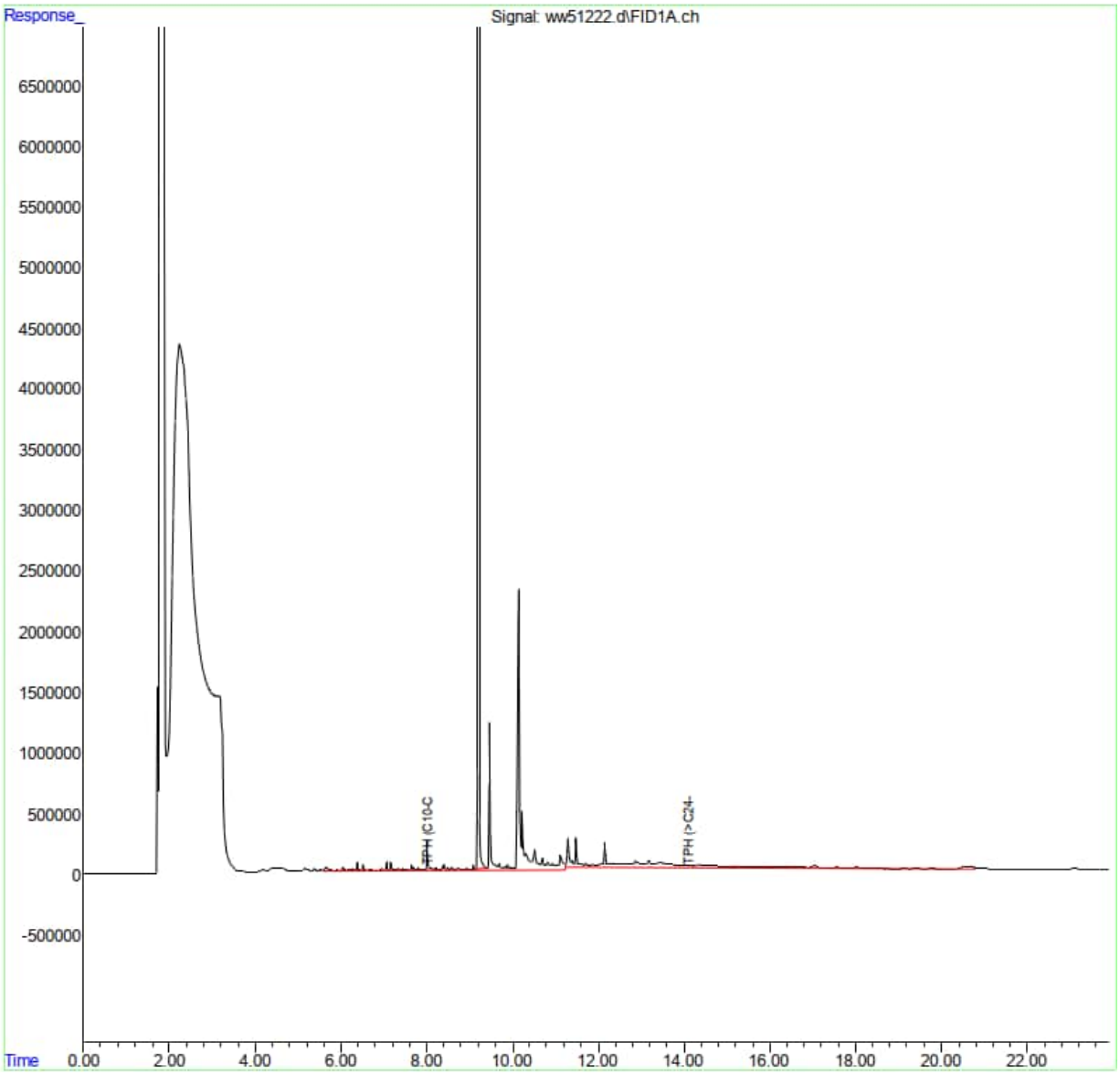
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 160 J** **TPH-o SGC (C24 to C40) 100 J**

```
Quant Time: Oct 04 16:24:43 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



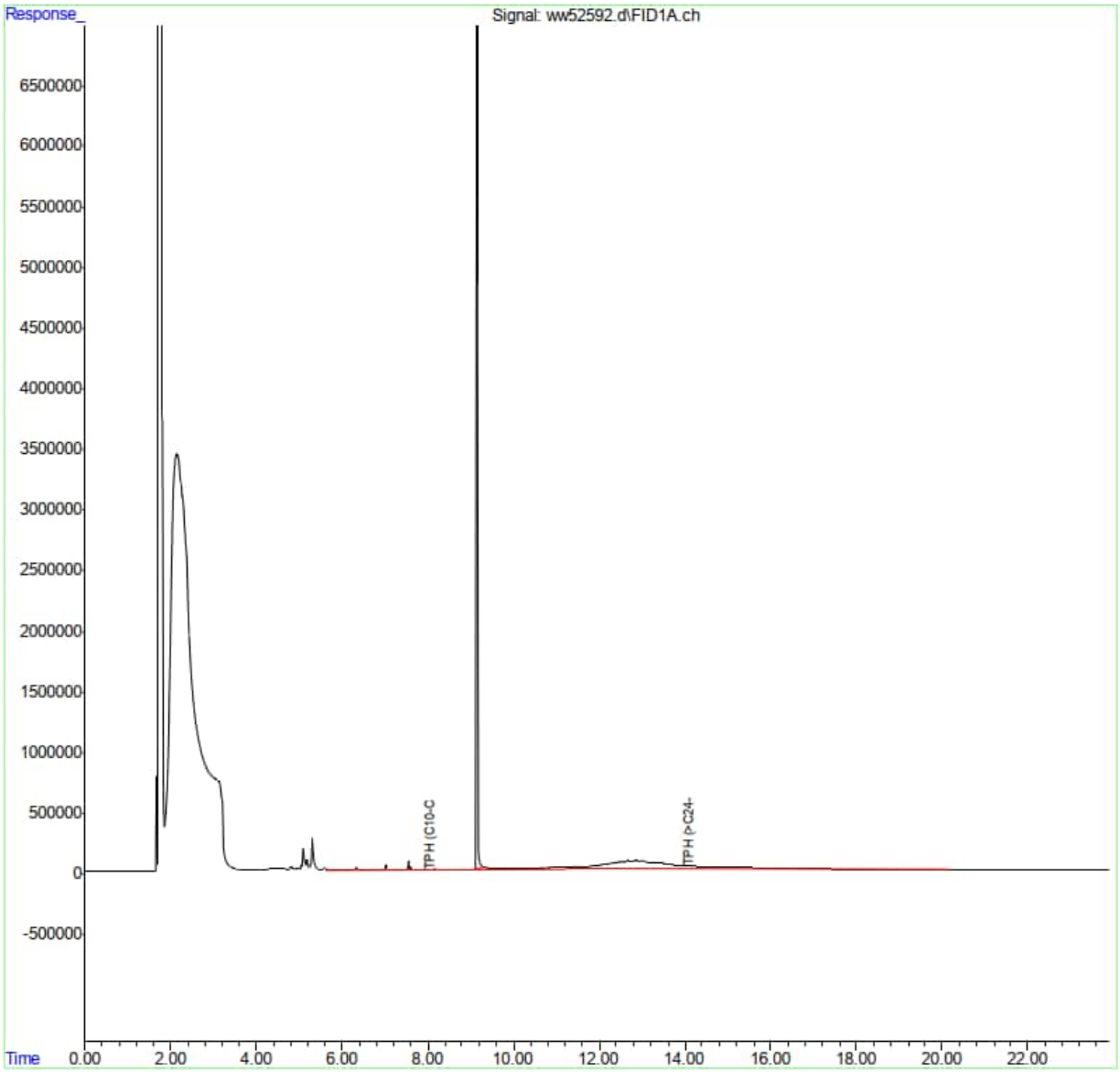
Location: **NMW26** Sample ID: NMW26-WGN01LF-2412A Sample Date: 12/9/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 88.3 J**

```
Quant Time: Dec 13 09:18:28 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

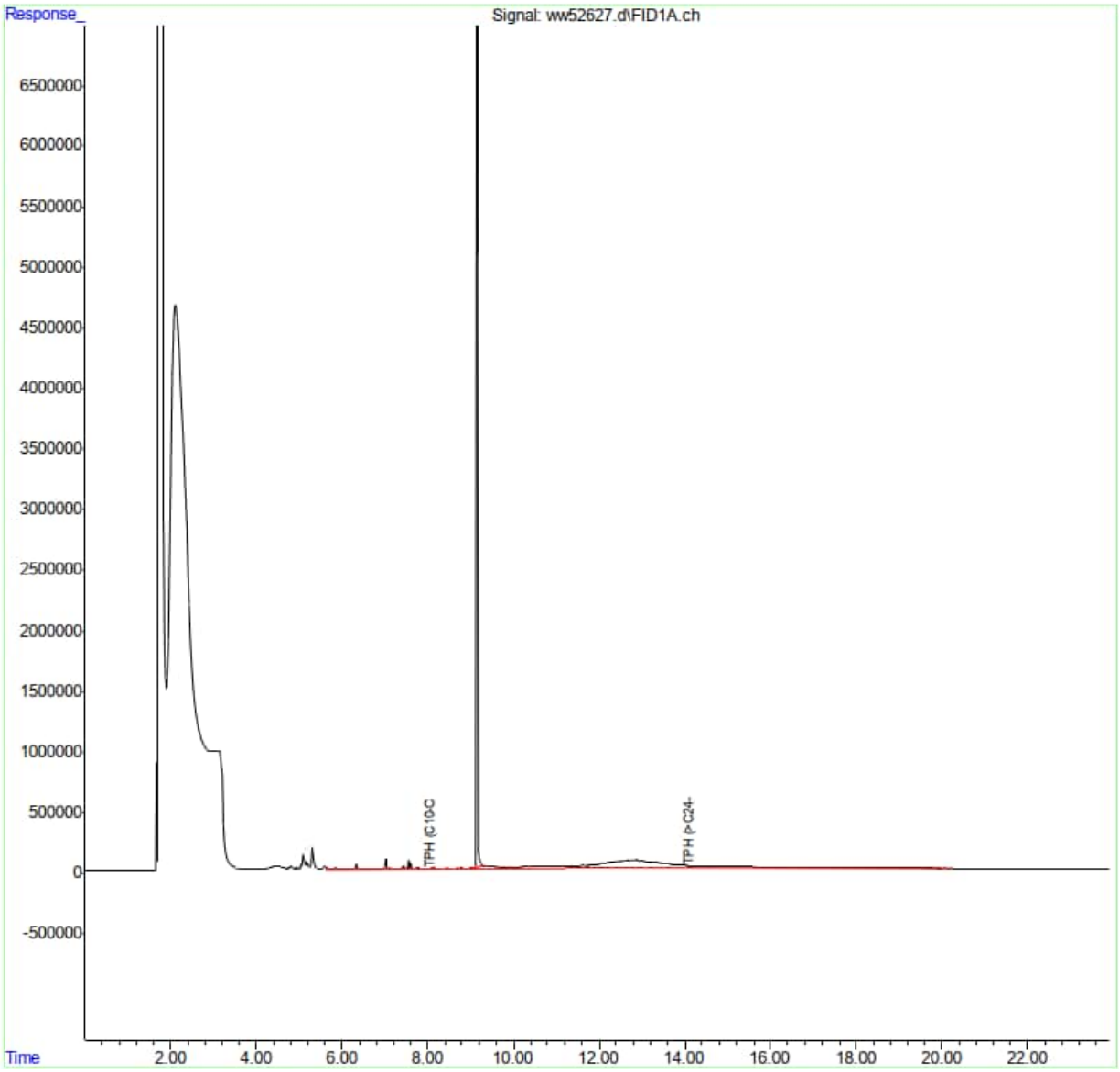
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Dec 16 09:23:20 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

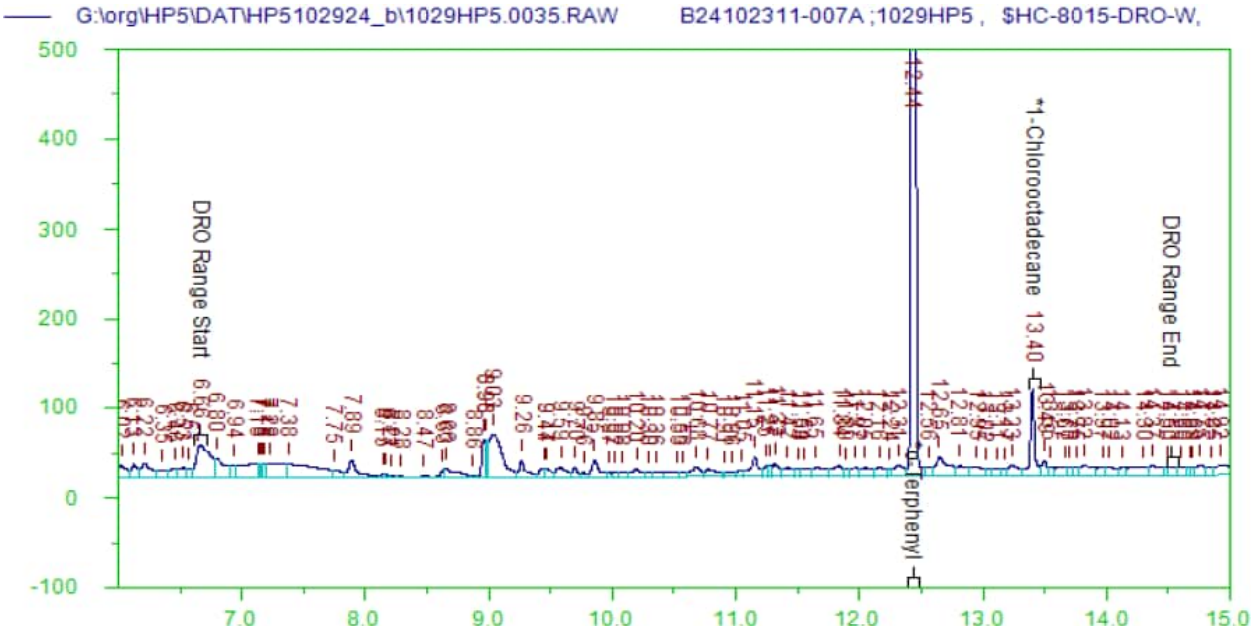
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

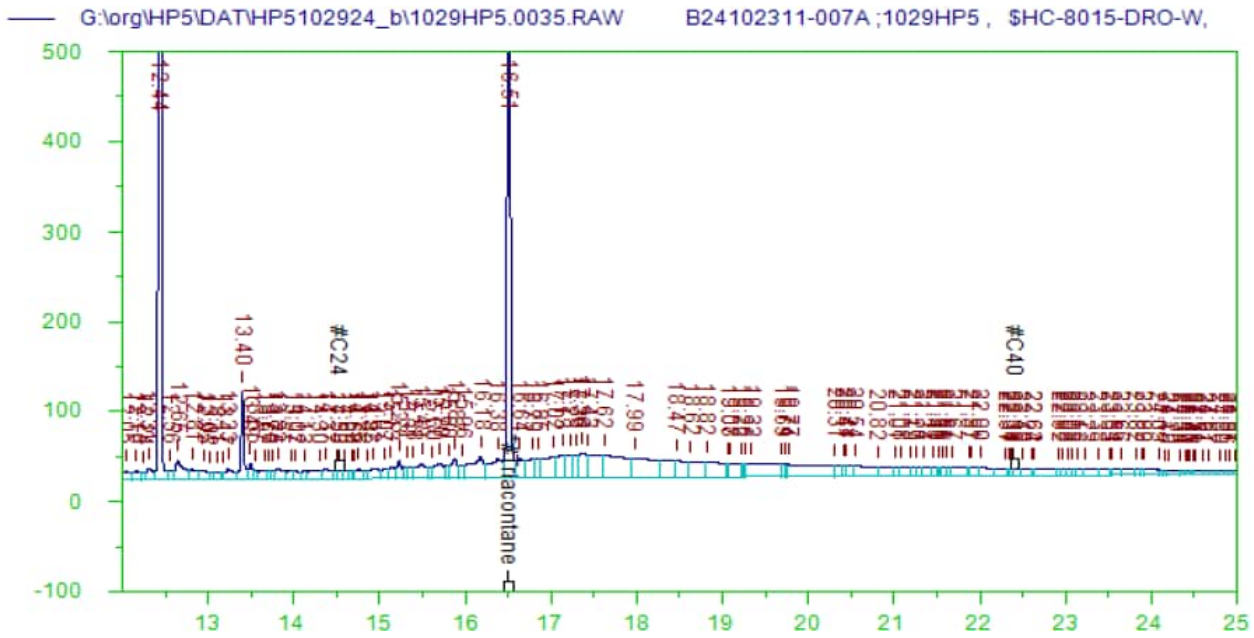


Location: **RHP01** Sample ID: RHP01-WGN01LF-2410B Sample Date: 10/24/2024

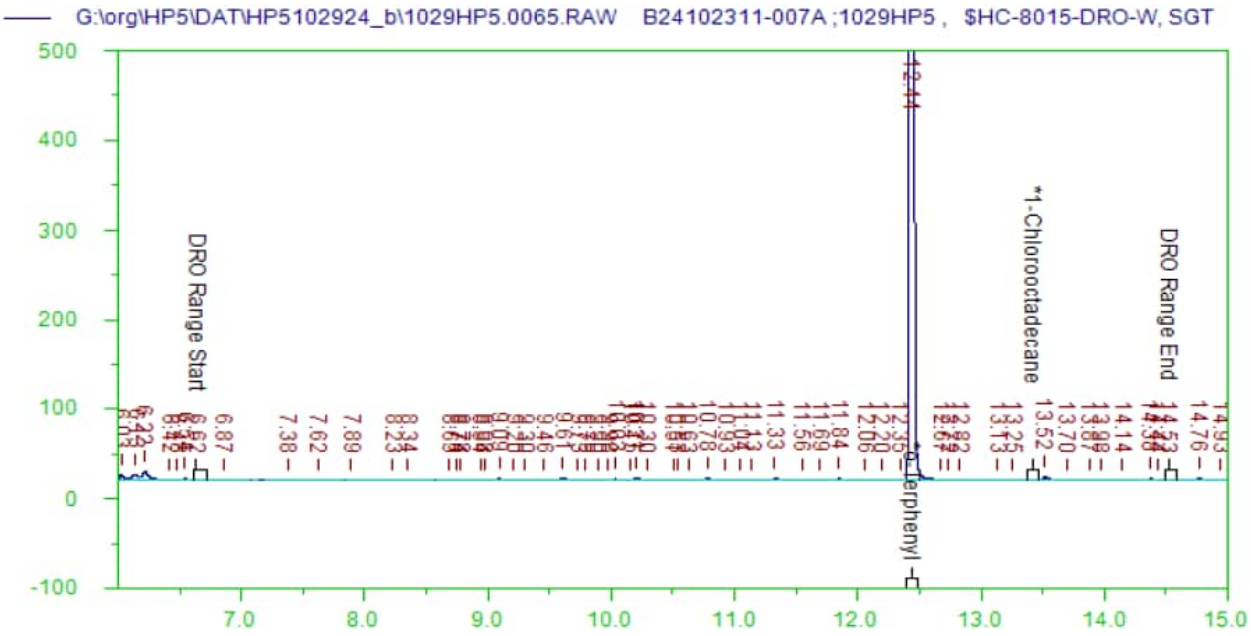
Lab: (b) (4)

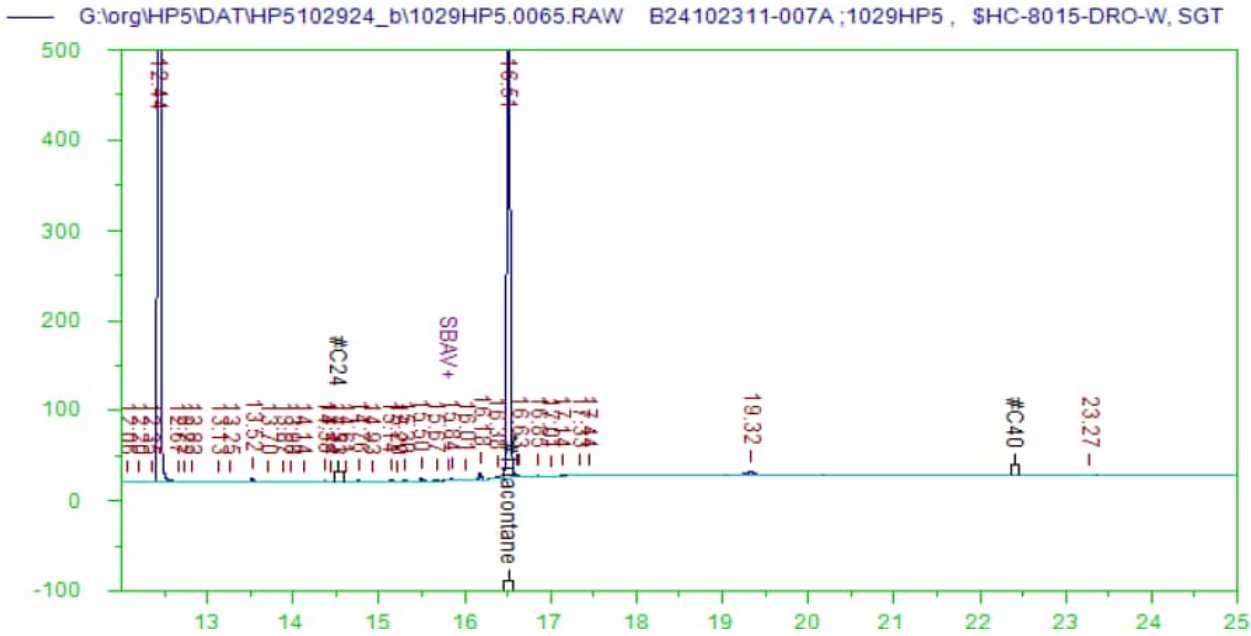
Results (ug/L): **TPH-d (C10 to C24) 194.7 J** **TPH-o (C24 to C40) 301.4**





Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**

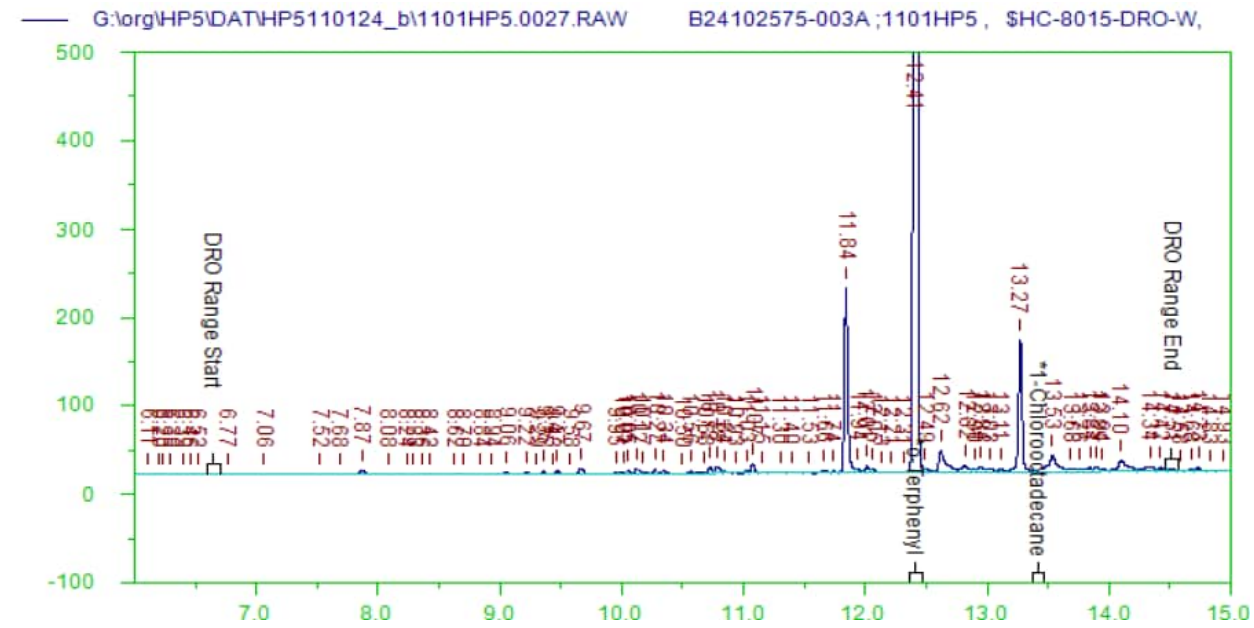


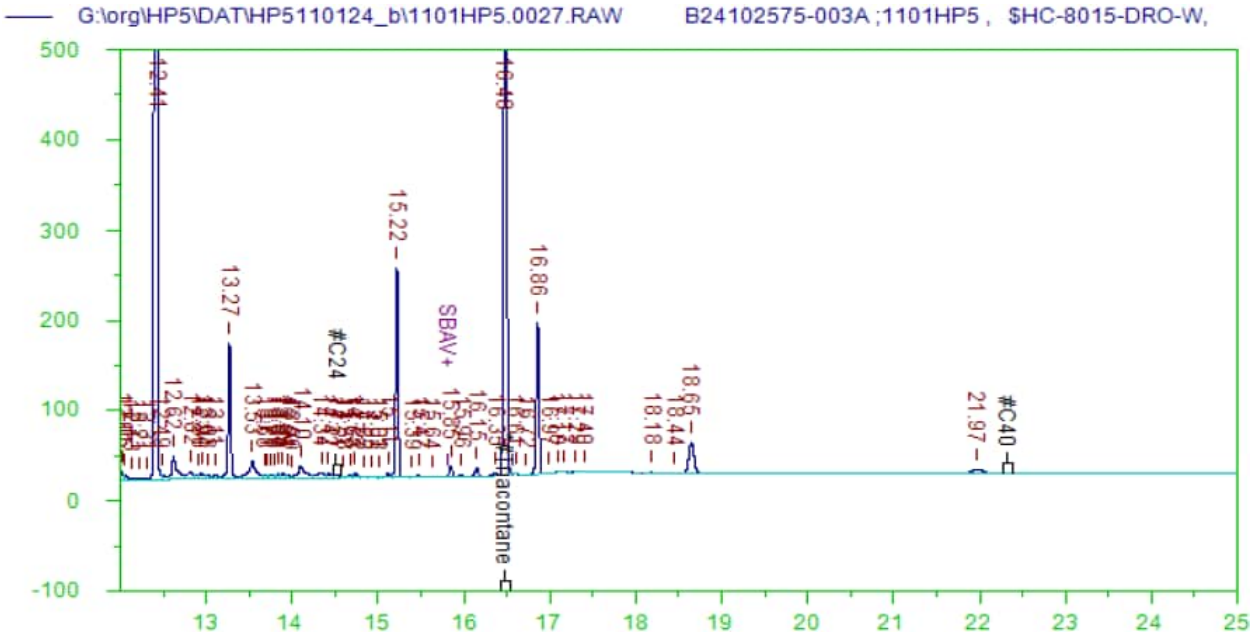


Location: **RHP04B** Sample ID: RHP04B-WGN01LF-2410B Sample Date: 10/29/2024

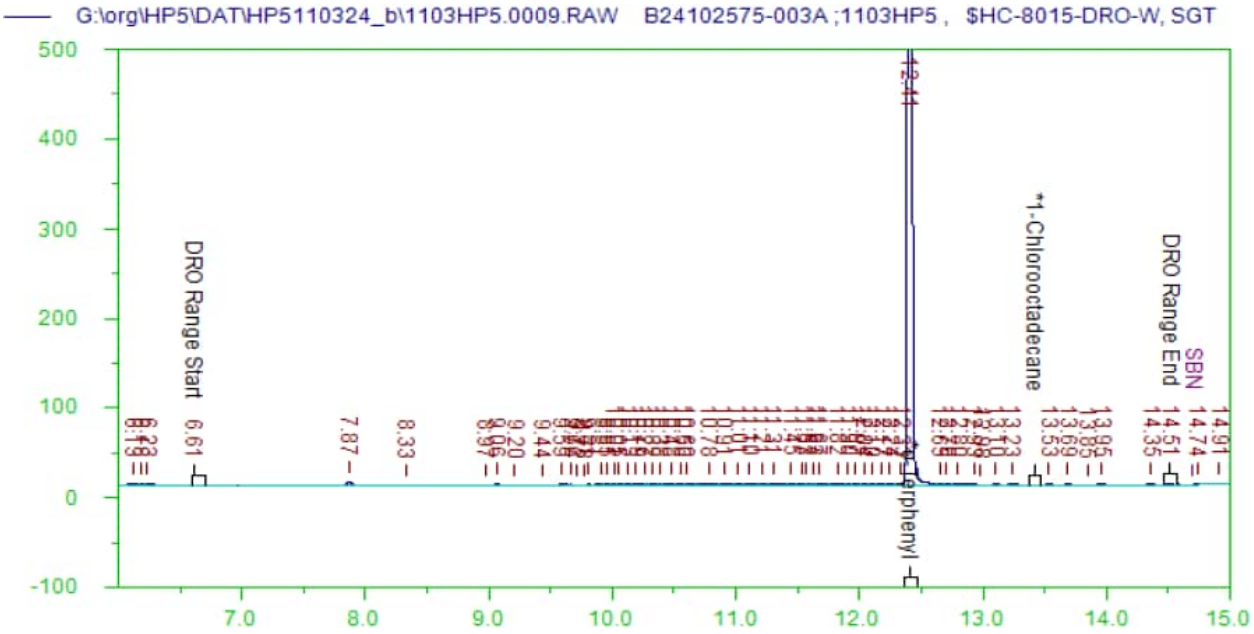
Lab: (b) (4)

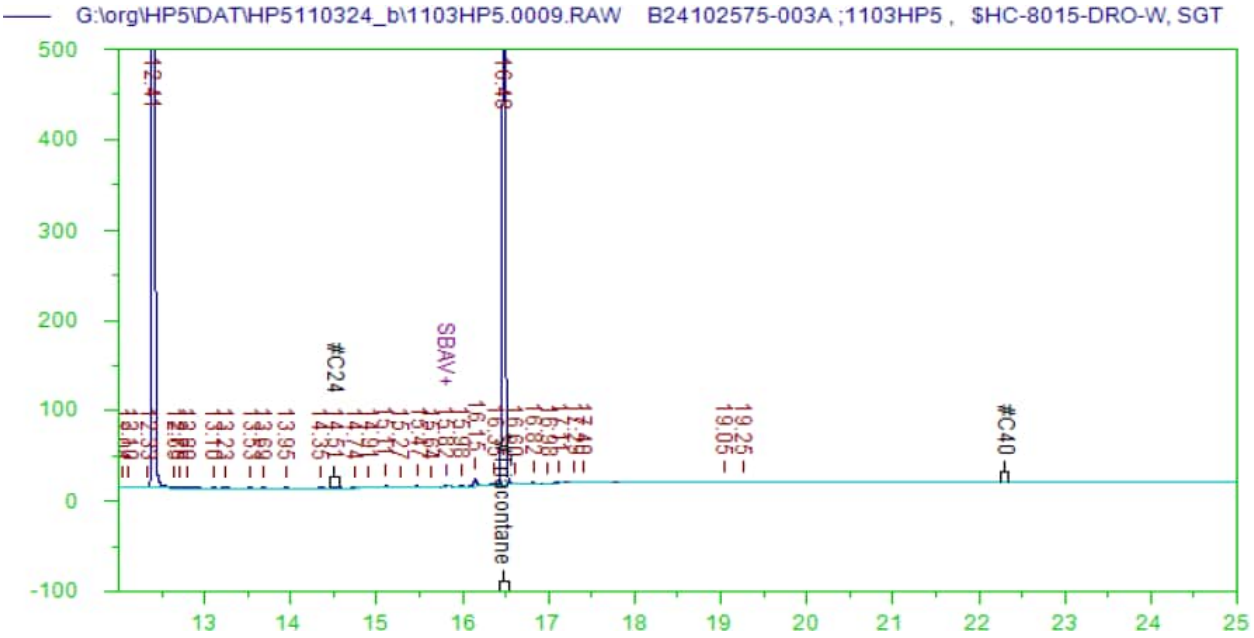
Results (ug/L): **TPH-d (C10 to C24) 67 J** **TPH-o (C24 to C40) <189 U**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**





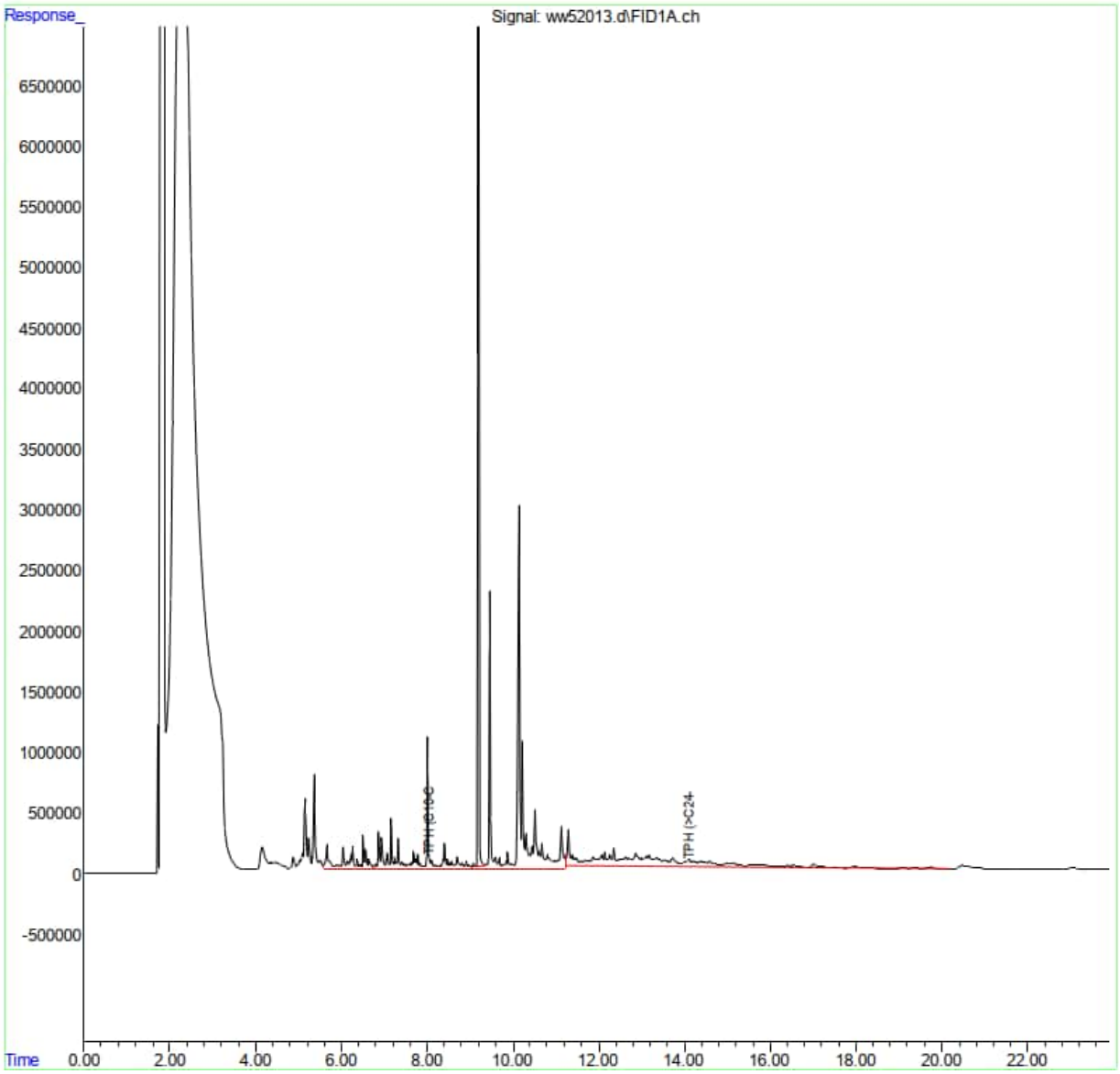
Location: **RHP05** Sample ID: RHP05-WGN01LF-2411A Sample Date: 11/8/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 305 J** **TPH-o (C24 to C40) 150 J**

```
Quant Time: Nov 14 09:35:38 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

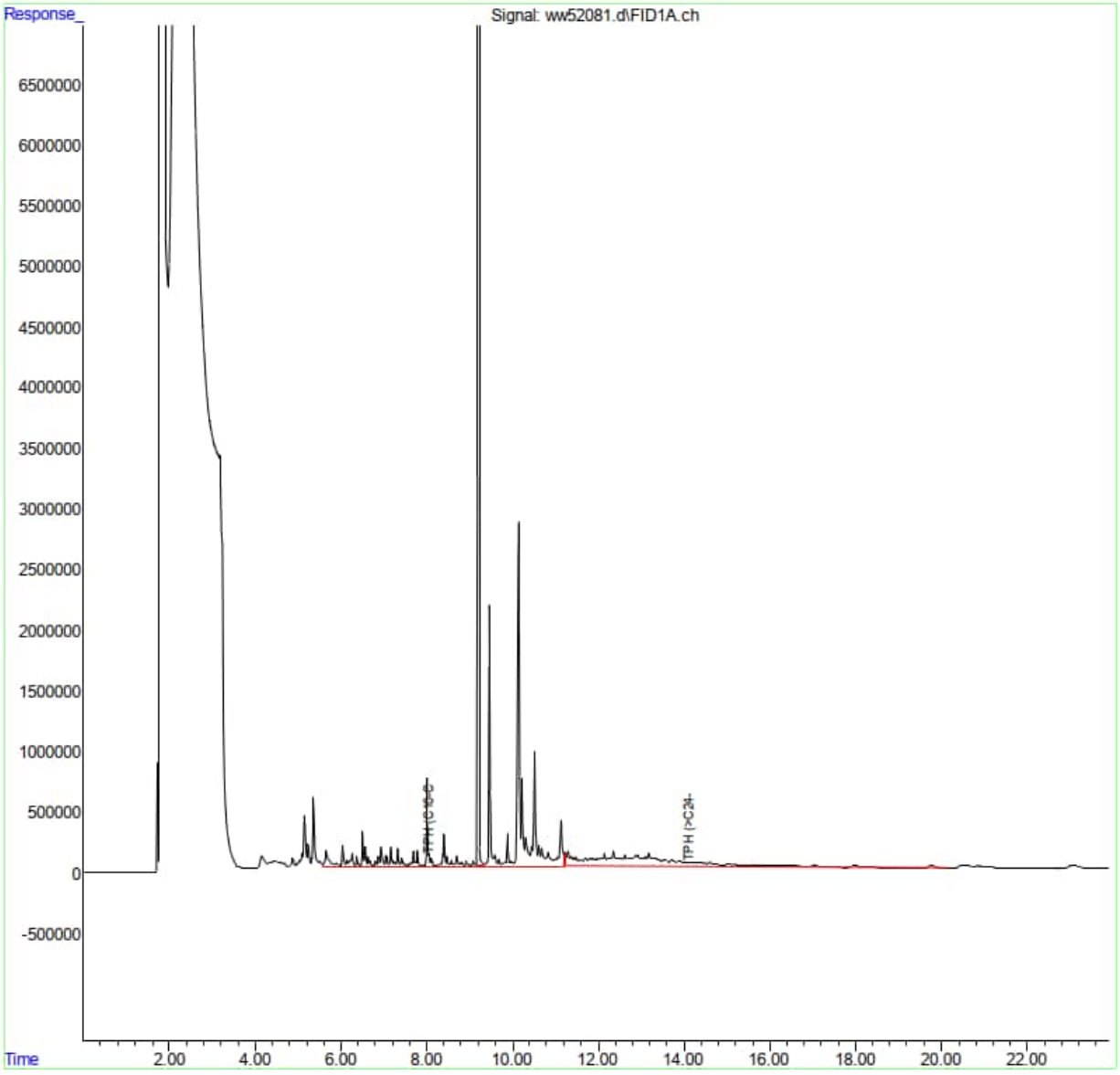
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 289** **TPH-o SGC (C24 to C40) 131 J**

```
Quant Time: Nov 15 16:13:20 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



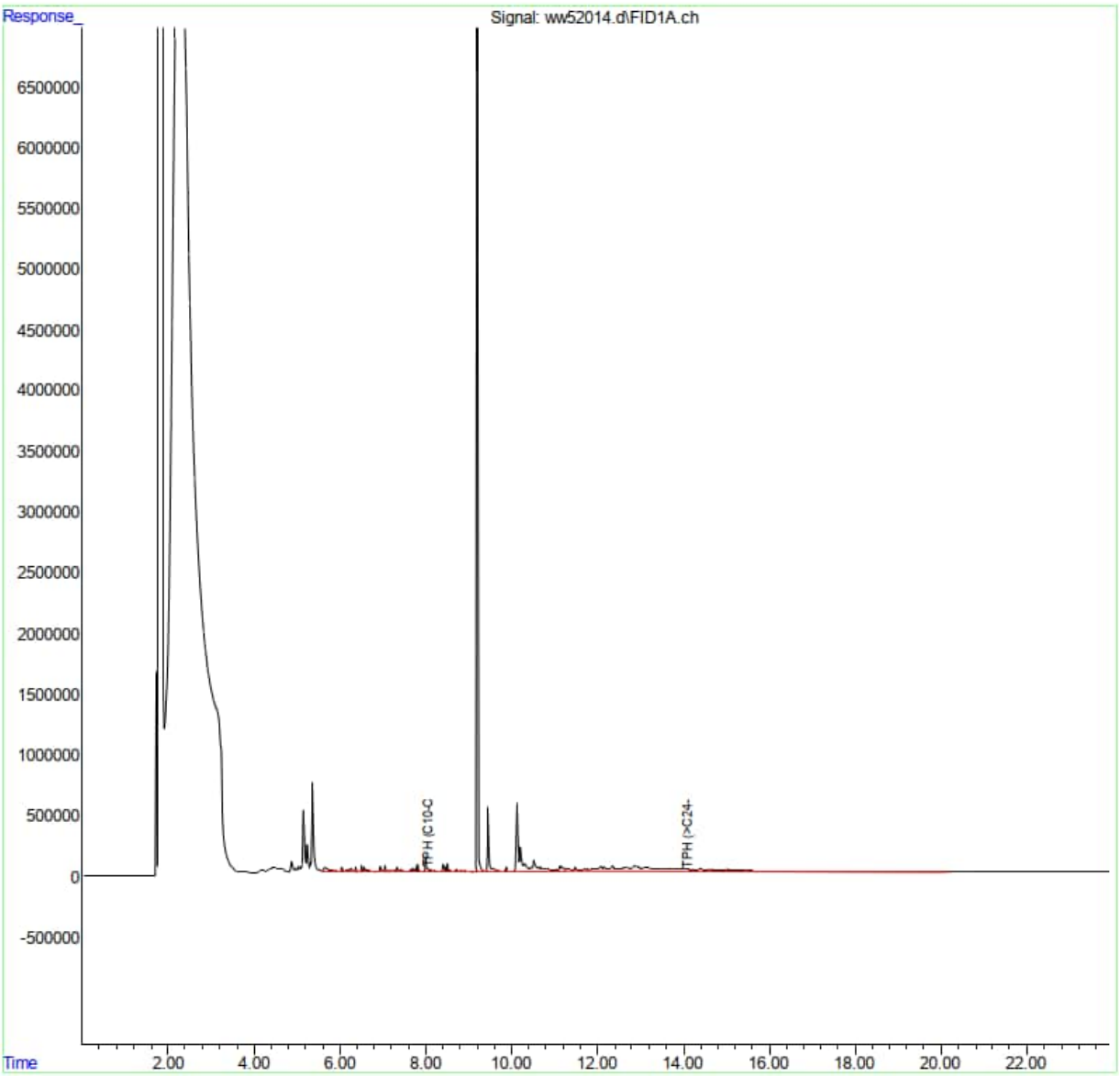
Location: **RHP05** Sample ID: RHP05-WGFD01LF-2411A Sample Date: 11/8/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 78.1 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Nov 14 09:26:29 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

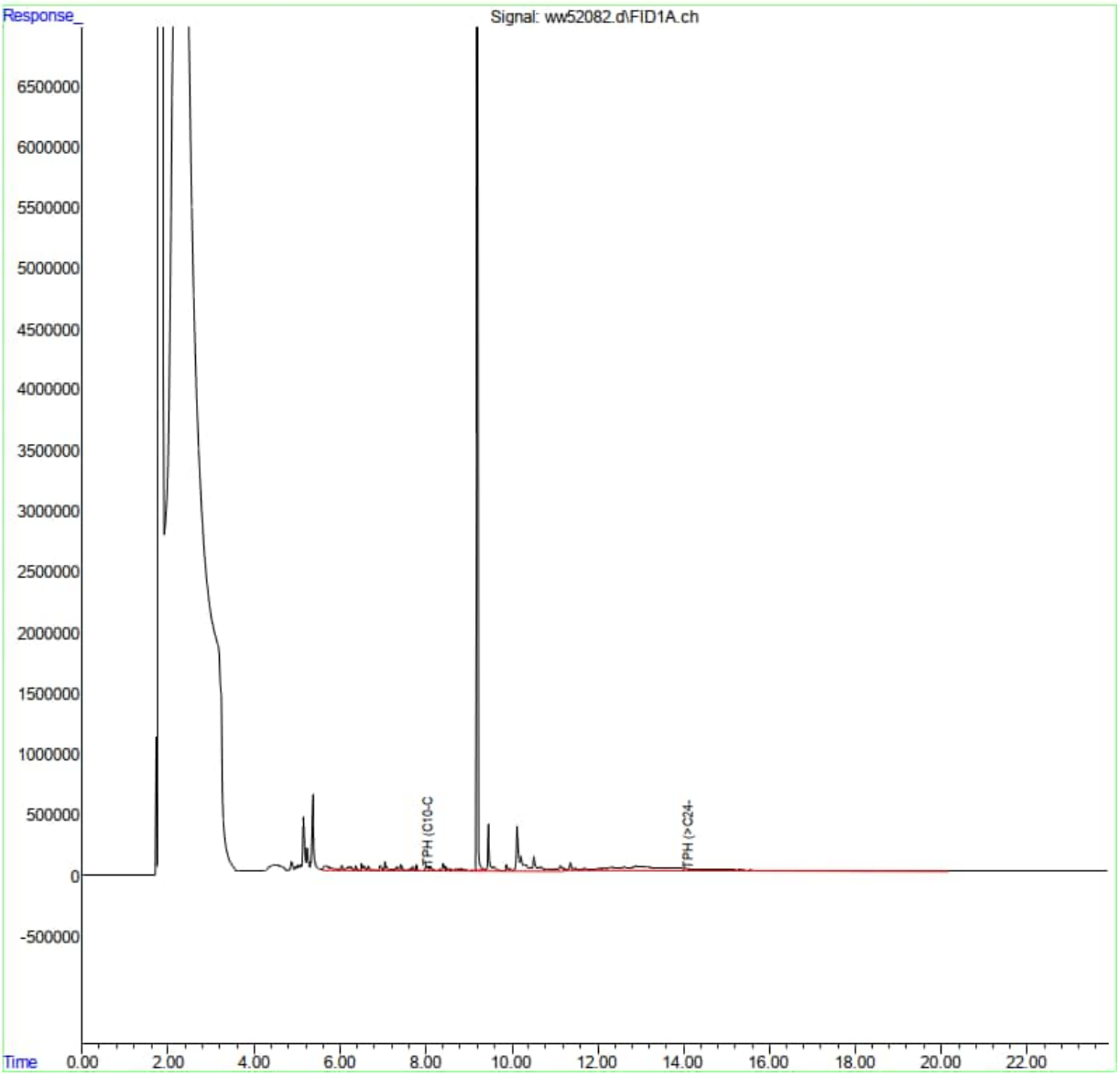
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <98 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Nov 15 16:13:26 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

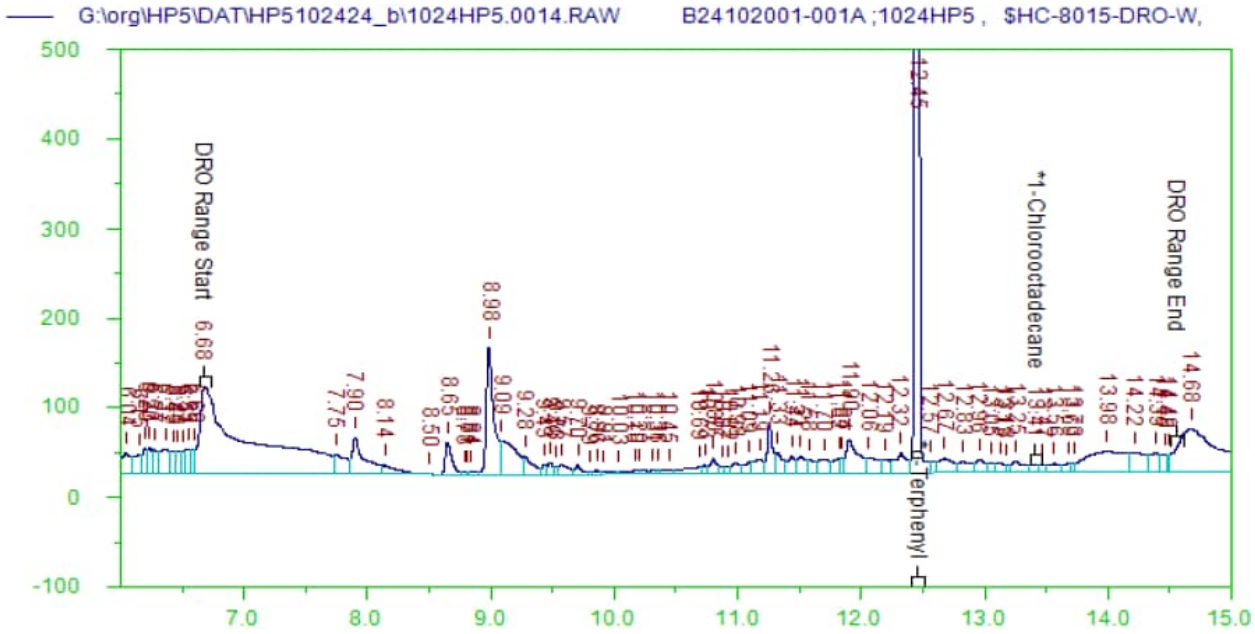
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

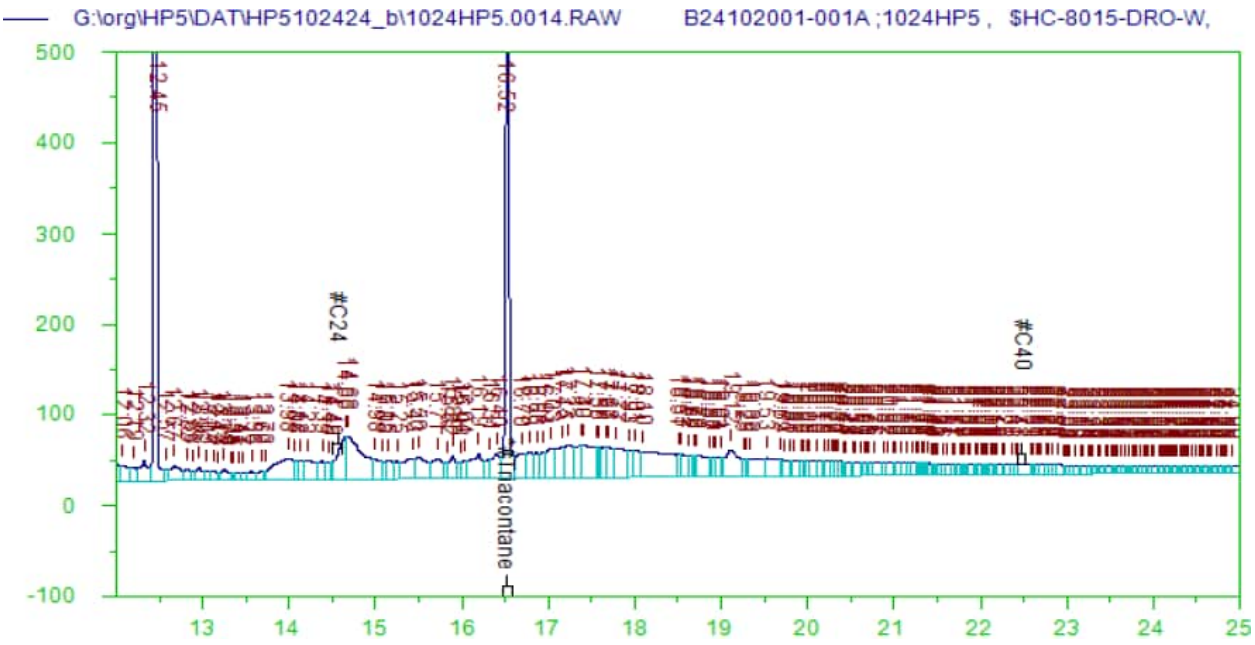


Location: **RHP08** Sample ID: RHP08-WGN01LF-2410B Sample Date: 10/22/2024

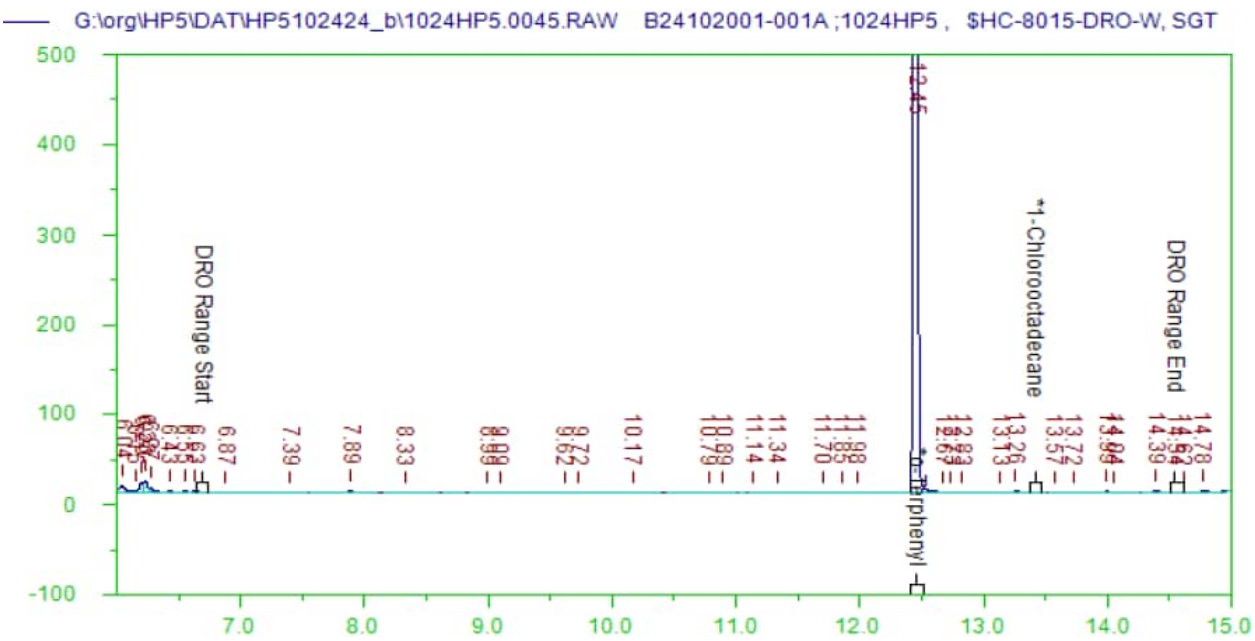
Lab: (b) (4)

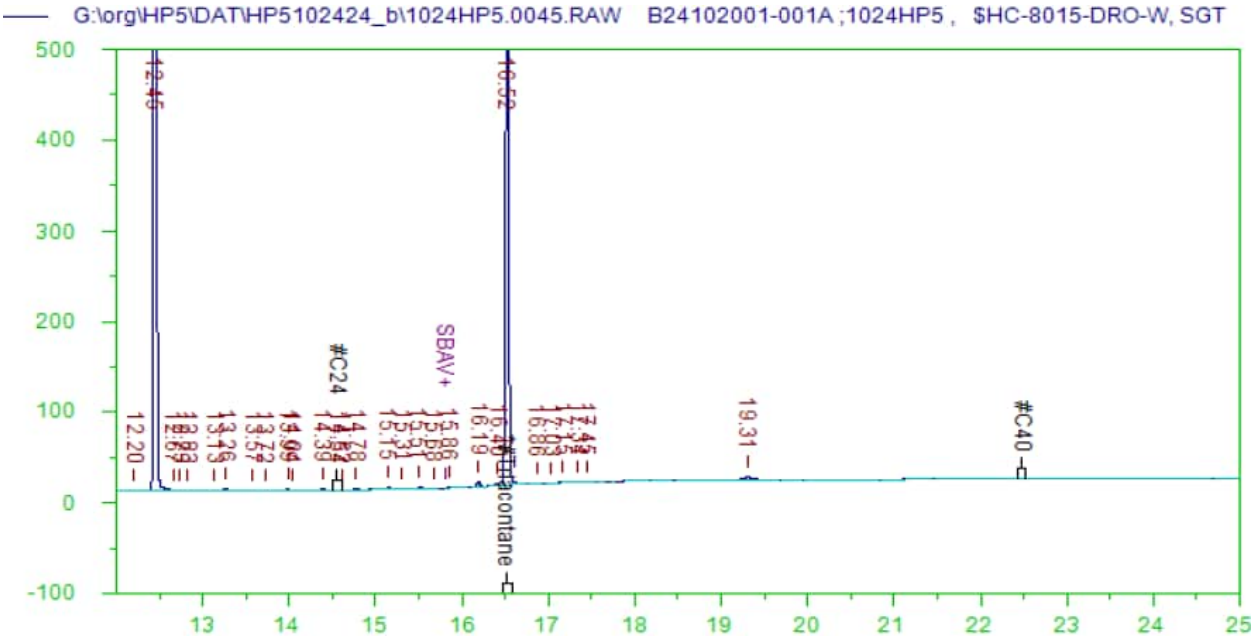
Results (ug/L): **TPH-d (C10 to C24) 312.3** **TPH-o (C24 to C40) 436.4**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**





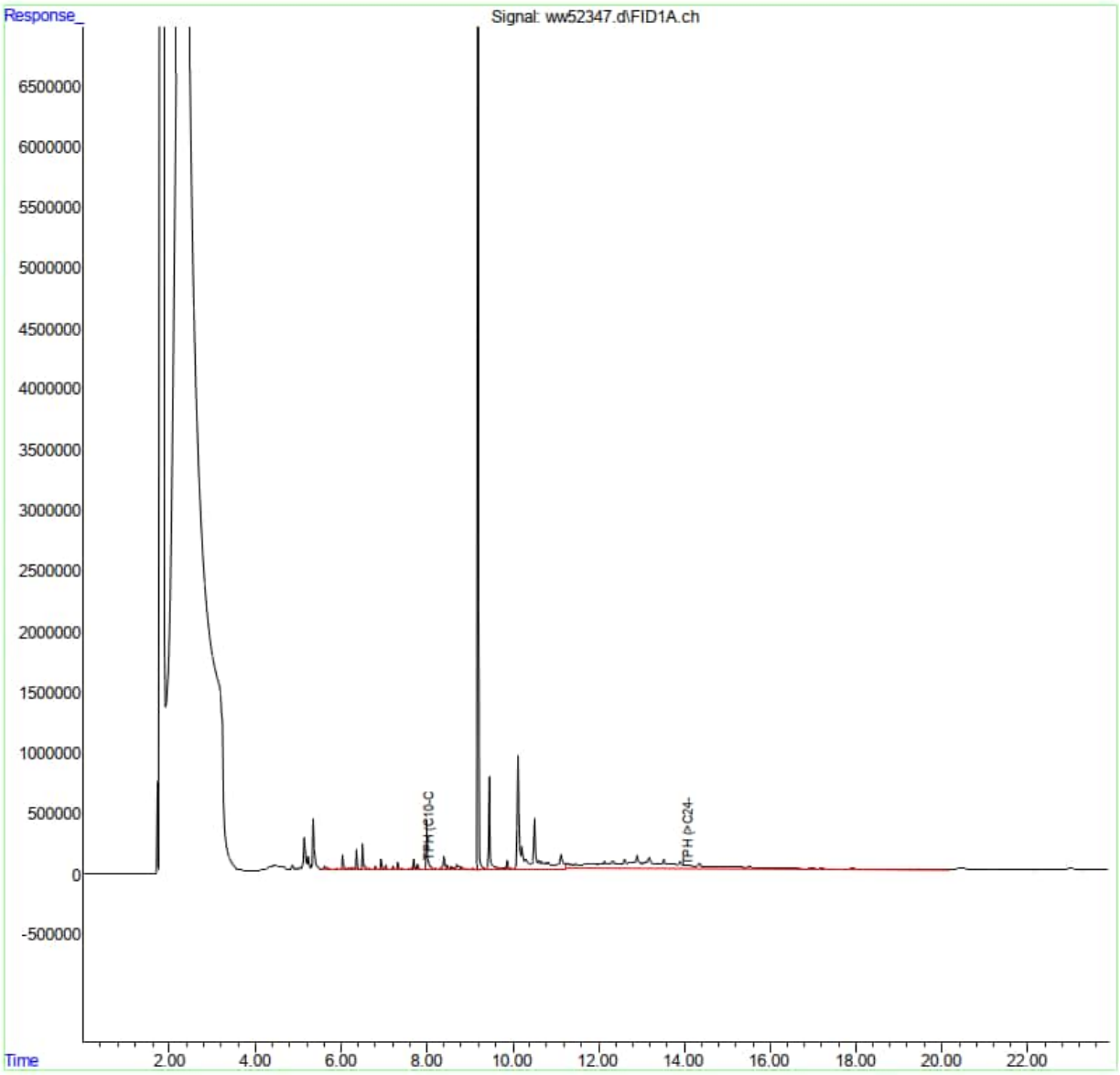
Location: **RHP08** Sample ID: RHP08-WGN01LF-2411B Sample Date: 11/19/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 126 J** **TPH-o (C24 to C40) 91 J**

```
Quant Time: Nov 26 09:28:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

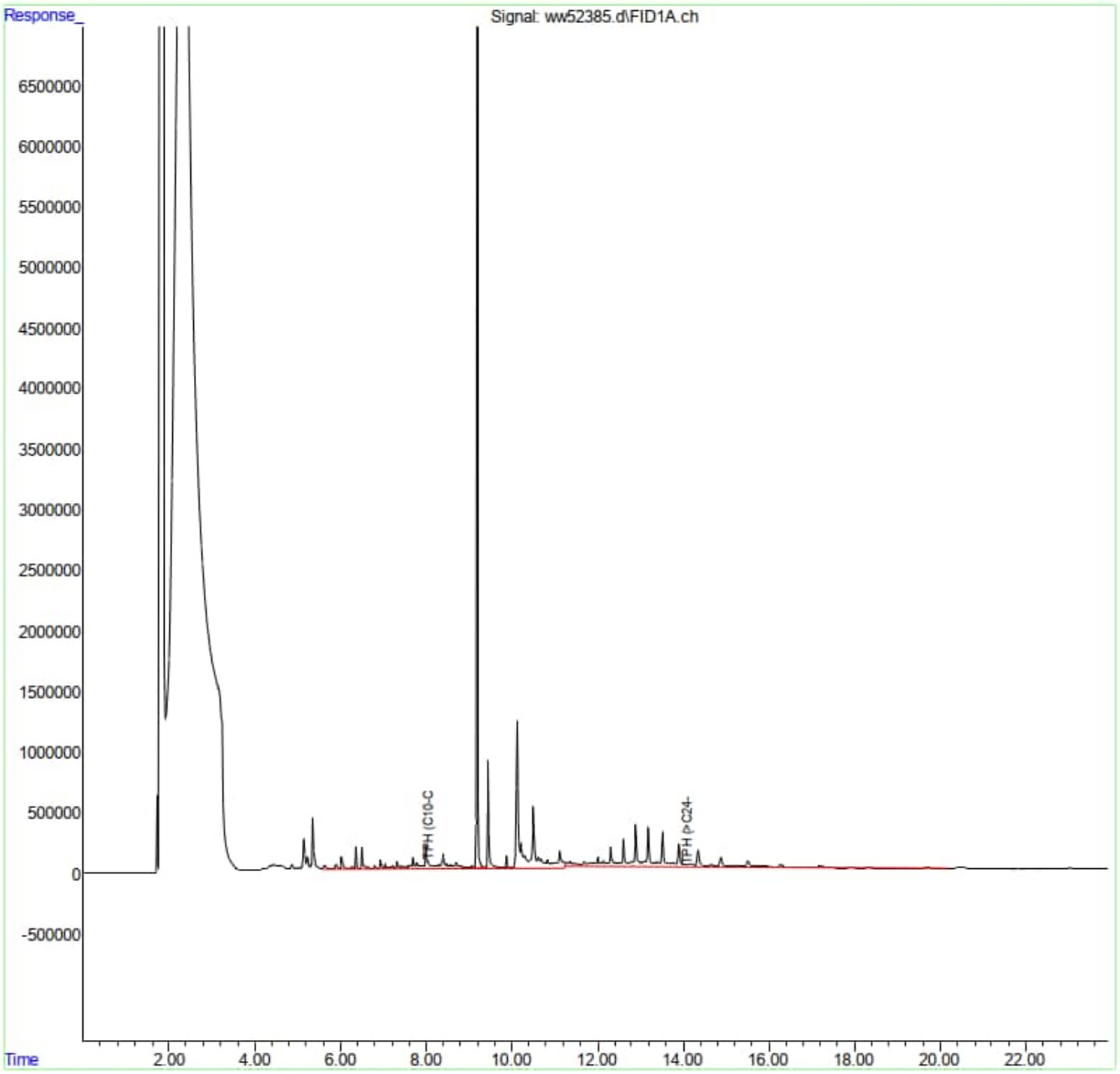
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 148 J** **TPH-o SGC (C24 to C40) 123 J**

```
Quant Time: Nov 27 09:47:59 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



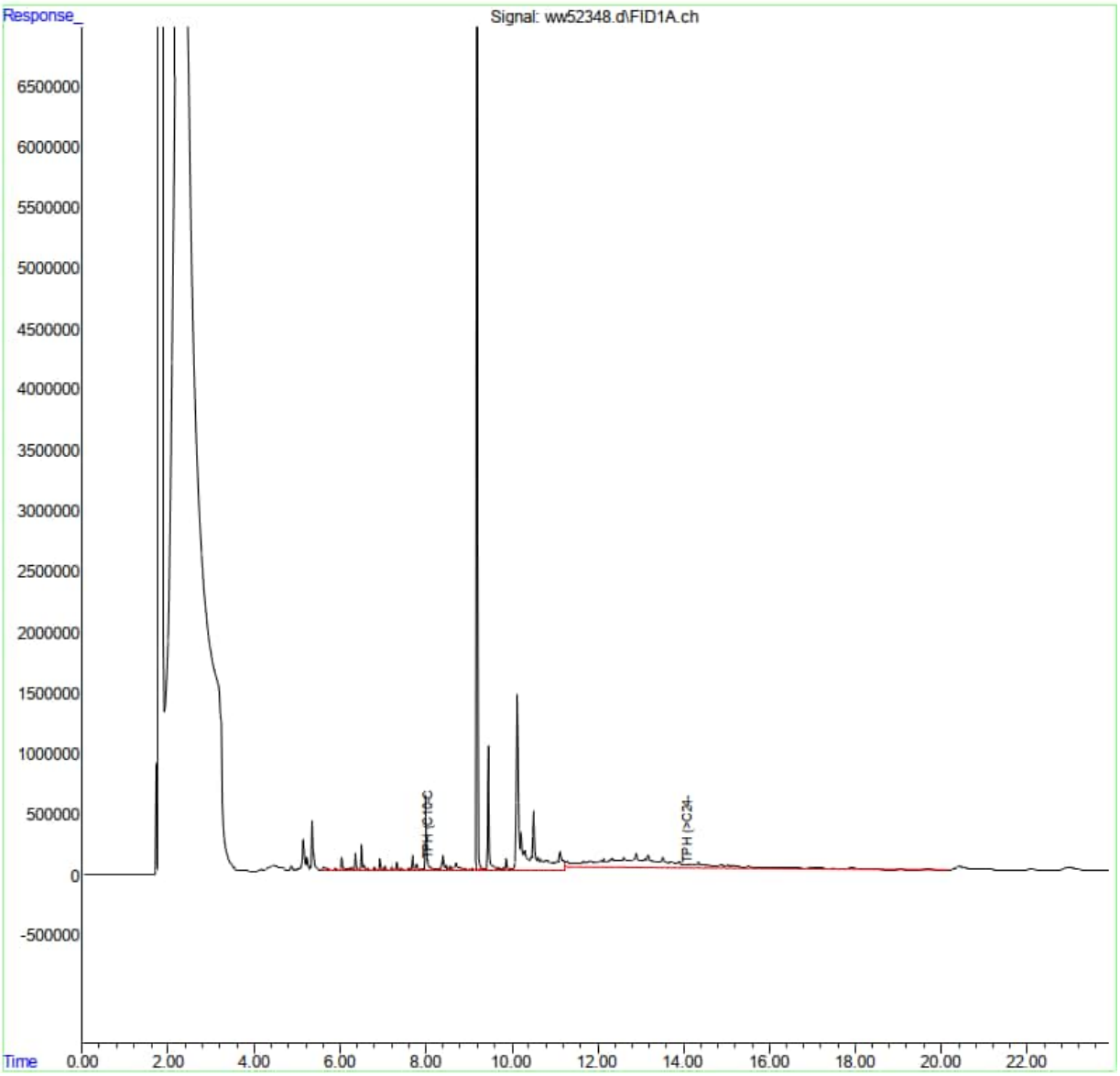
Location: **RHP08** Sample ID: RHP08-WGFD01LF-2411B Sample Date: 11/19/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 177 J** **TPH-o (C24 to C40) 123 J**

```
Quant Time: Nov 26 09:28:08 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

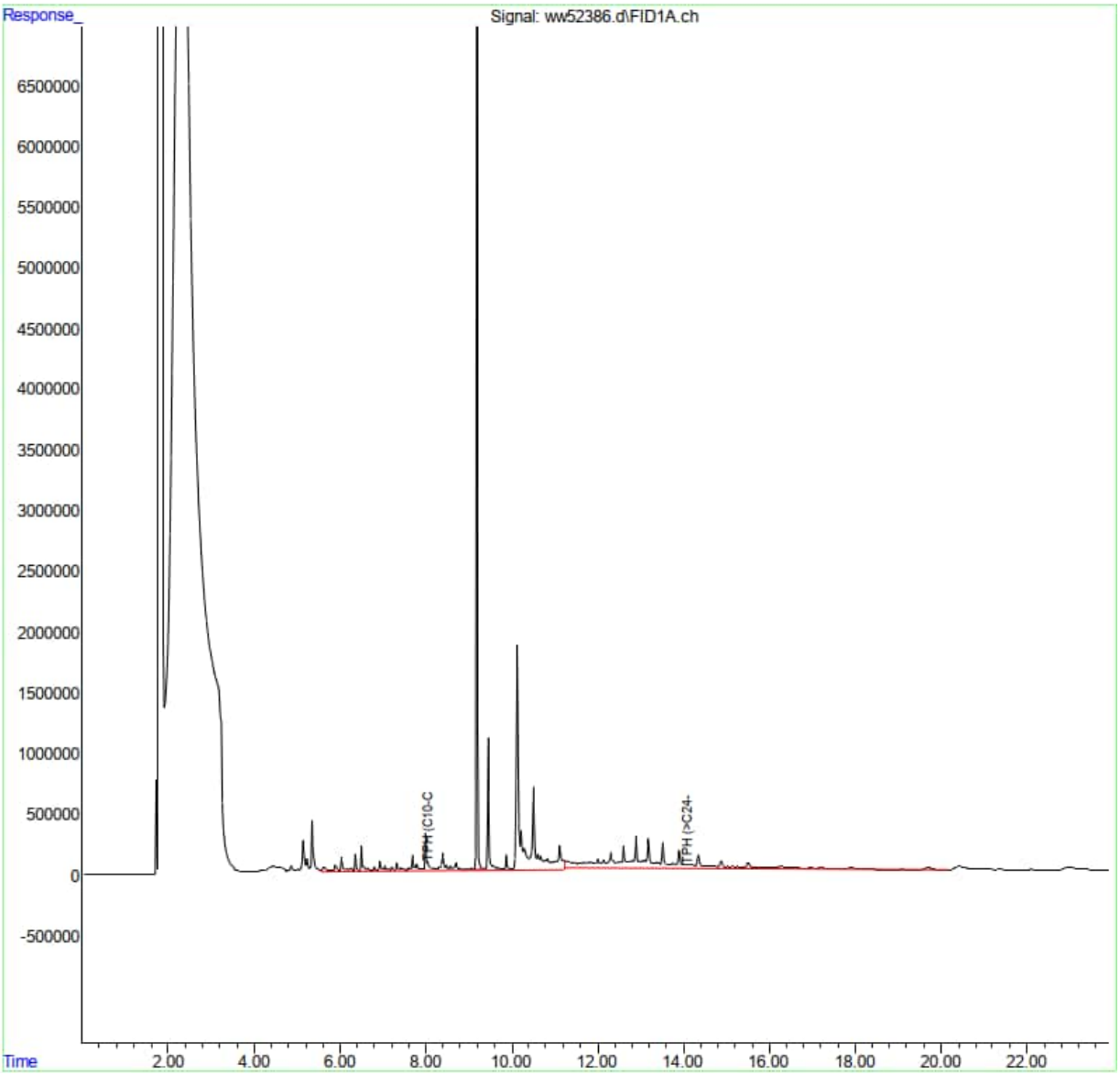
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 195 J** **TPH-o SGC (C24 to C40) 131 J**

```
Quant Time: Nov 27 09:48:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



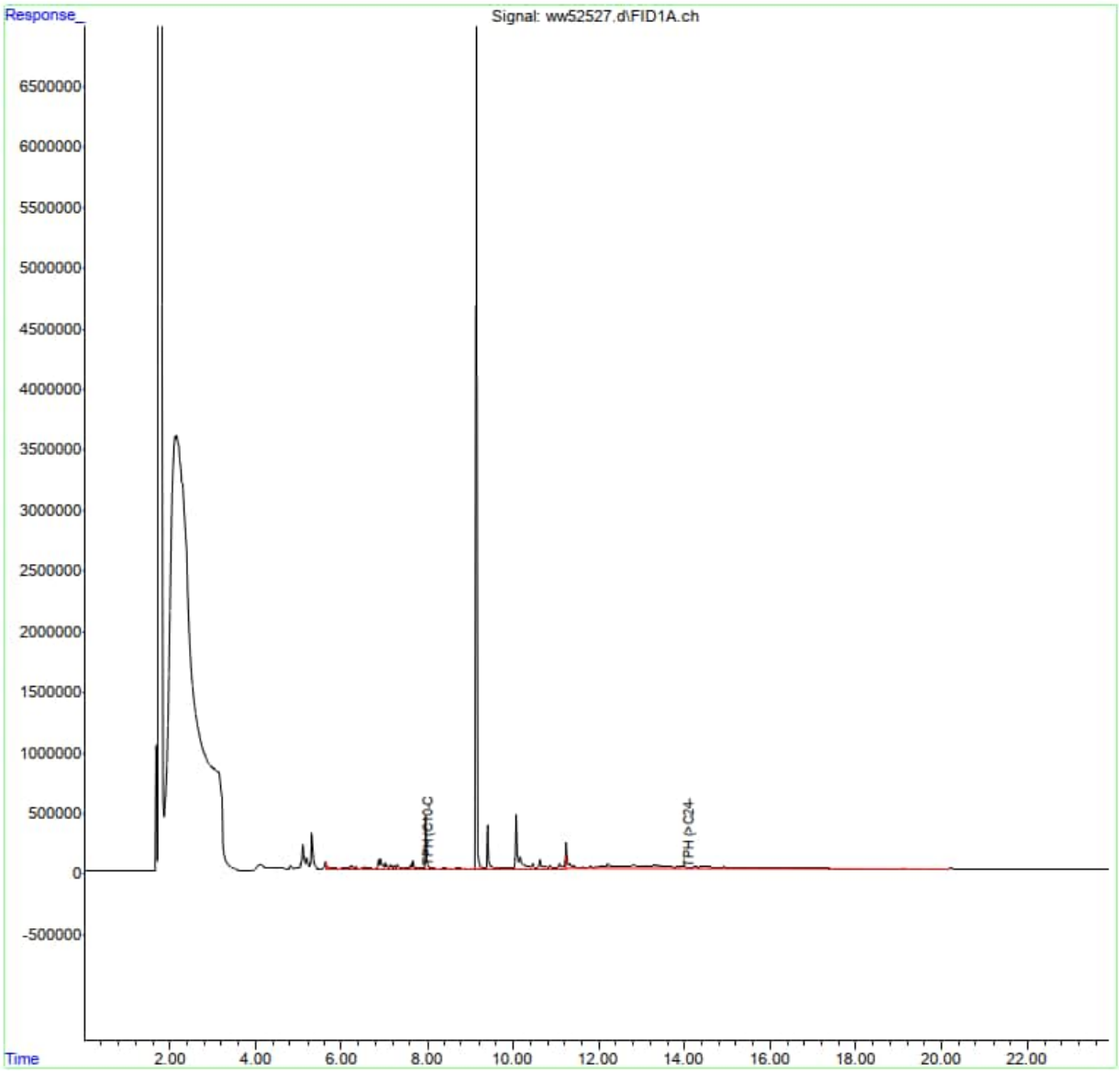
Location: **RHP08** Sample ID: RHP08-WGN01LF-2412A Sample Date: 12/3/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 95.1 J** **TPH-o (C24 to C40) 83.7 J**

```
Quant Time: Dec 09 10:54:32 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

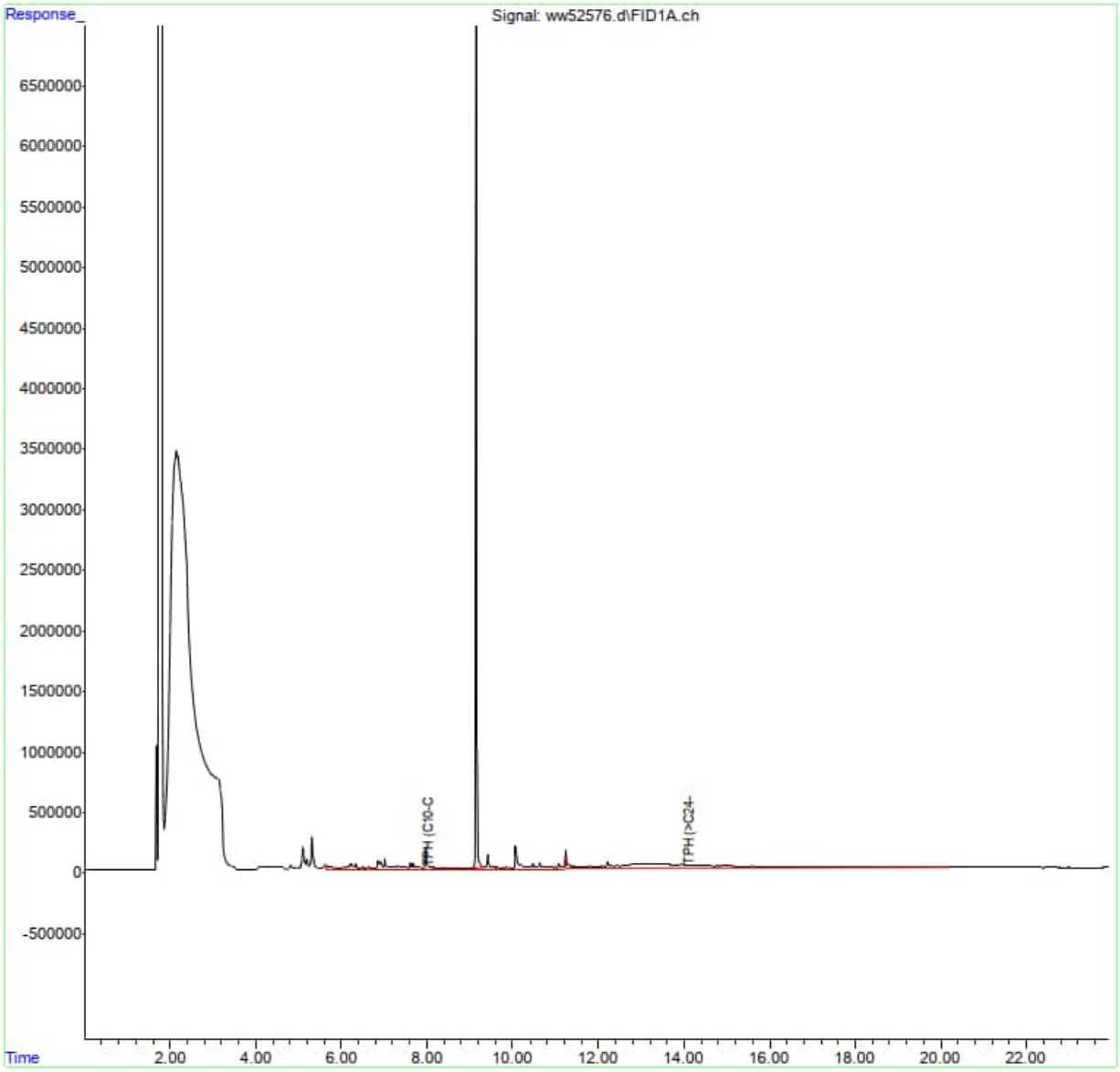
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 11 12:26:53 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



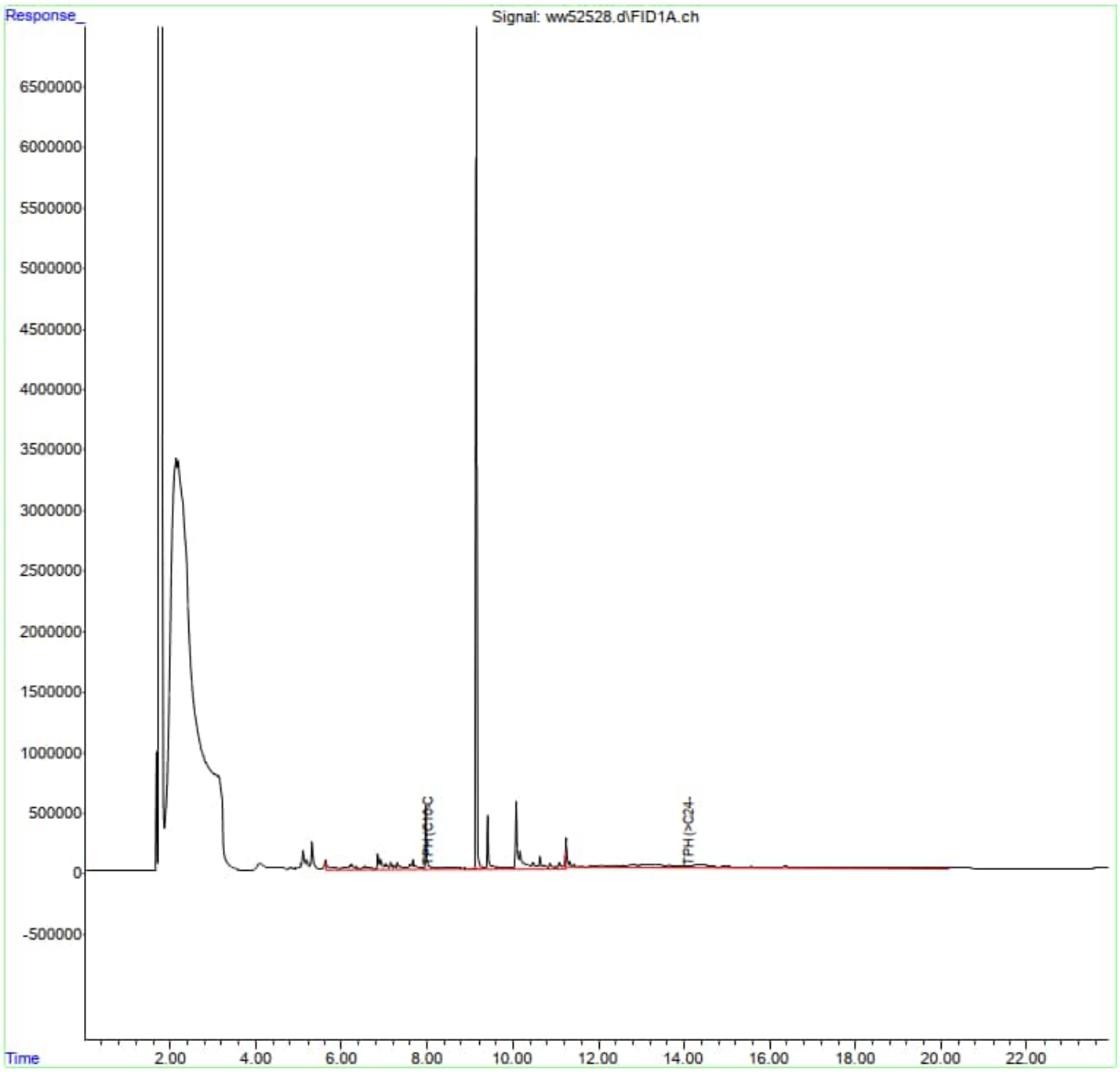
Location: **RHP08** Sample ID: RHP08-WGFD01LF-2412A Sample Date: 12/3/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 105 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Dec 09 10:54:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

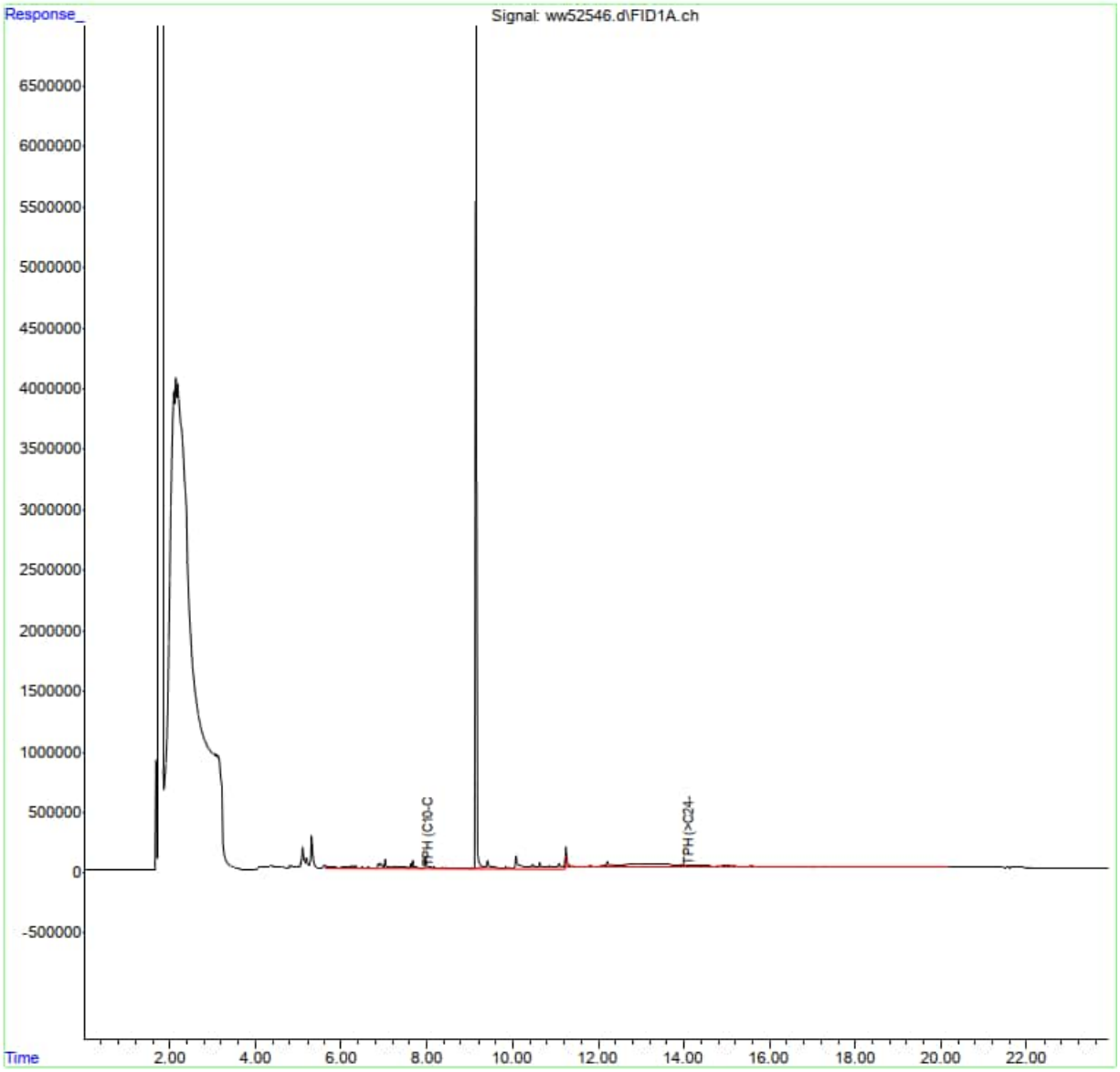
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Dec 11 09:45:57 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

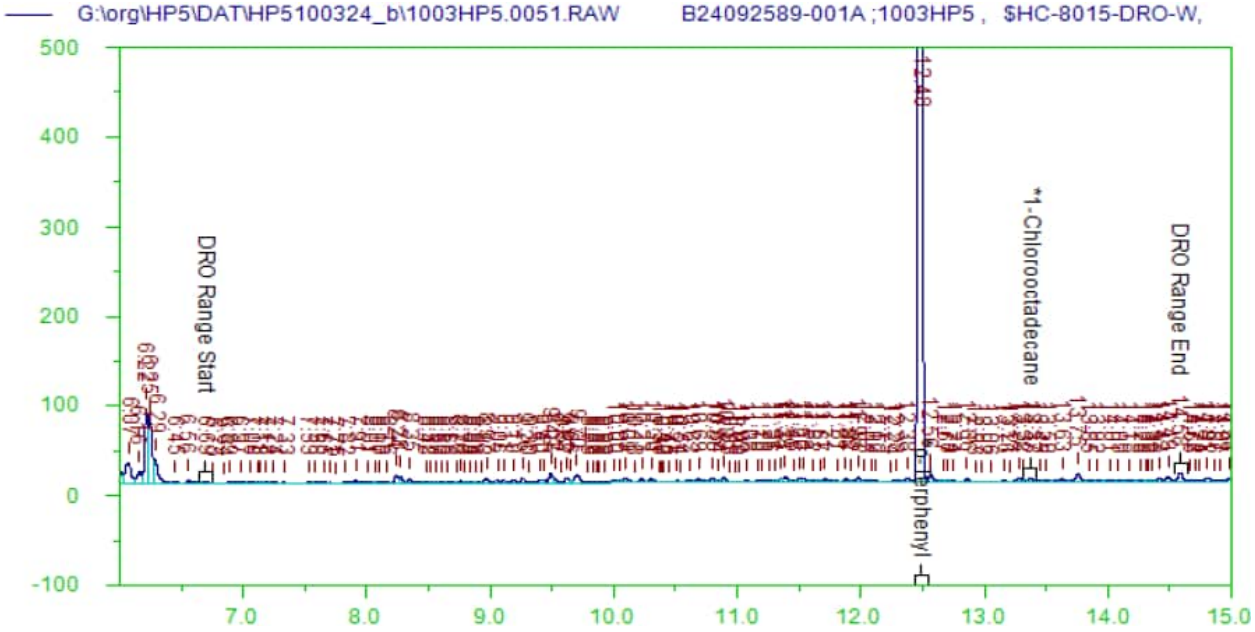
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

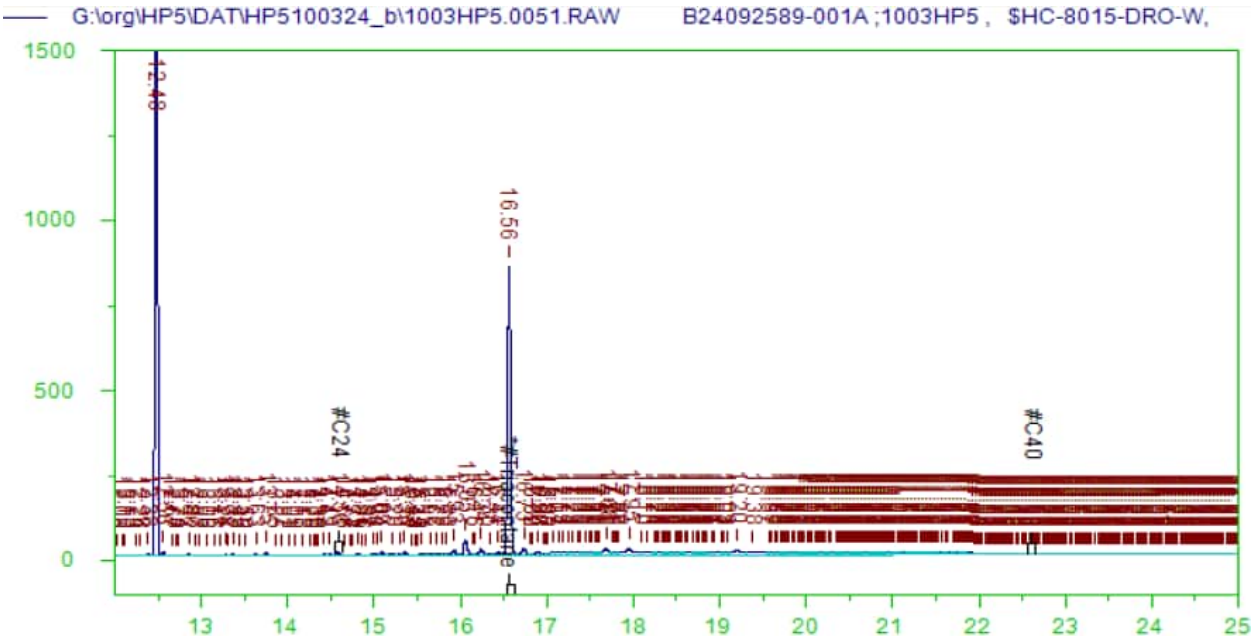


Location: **RHP08B** Sample ID: RHP08B-WGN01LF-2409B Sample Date: 9/27/2024

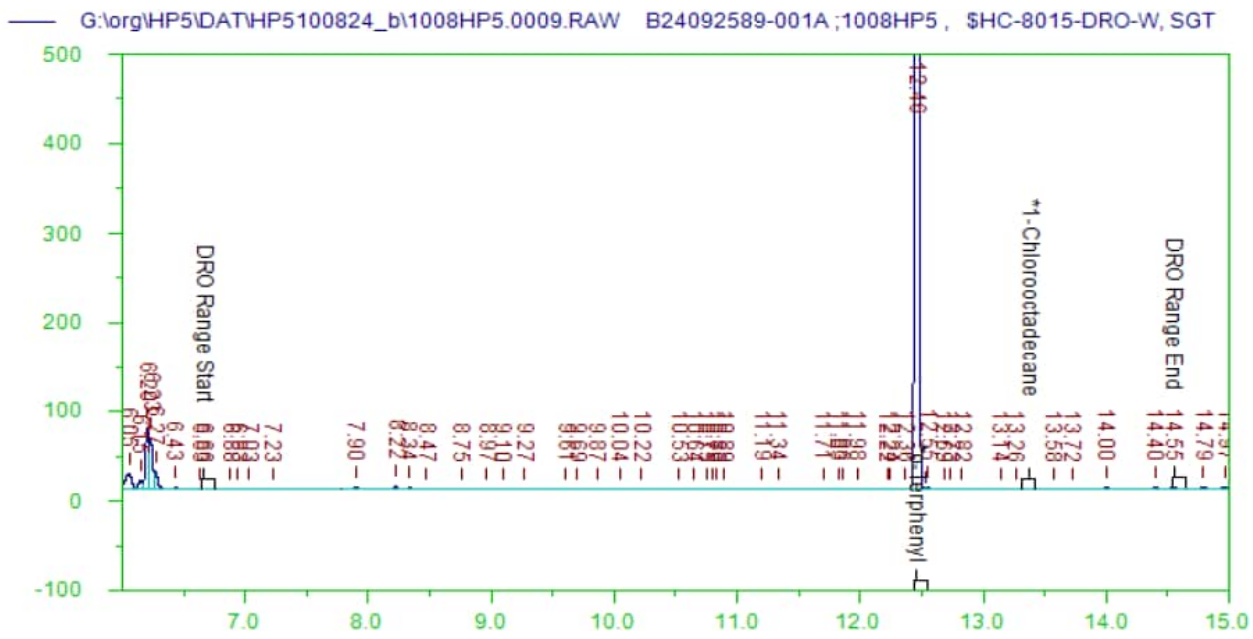
Lab: (b) (4)

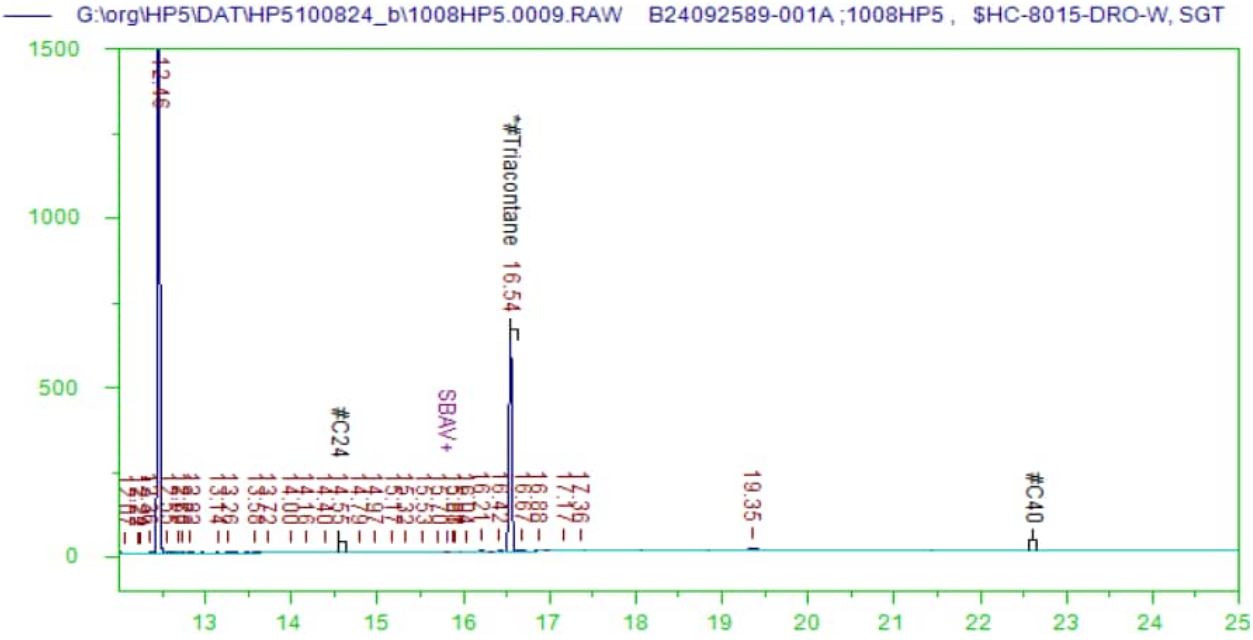
Results (ug/L): **TPH-d (C10 to C24) <141 U** **TPH-o (C24 to C40) 125 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**





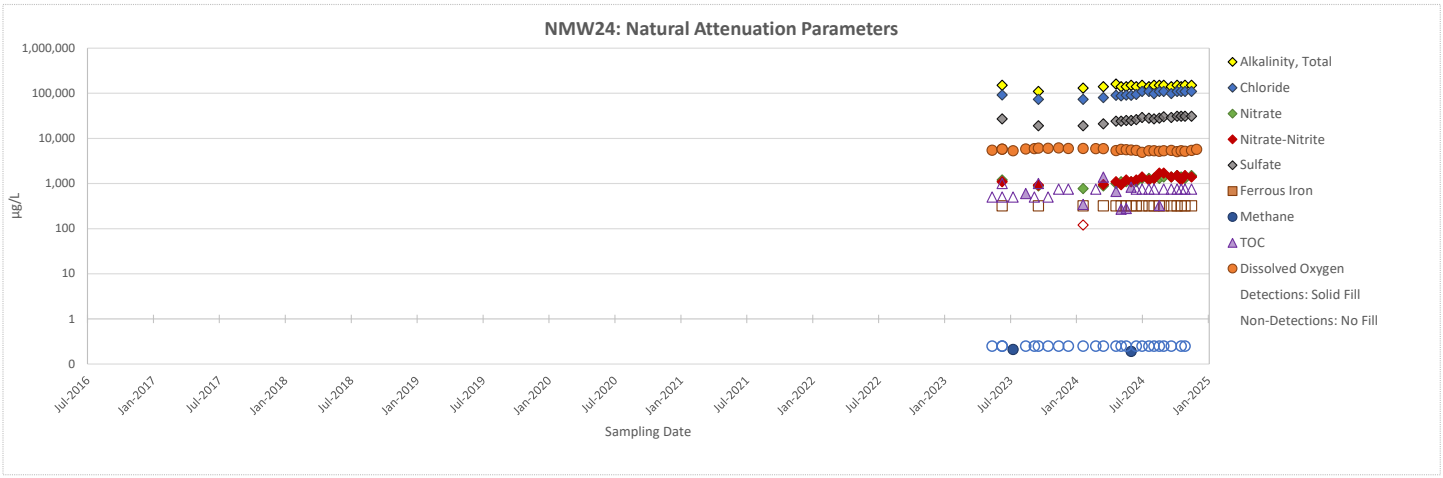
Appendix B.5 – Natural Attenuation Parameters

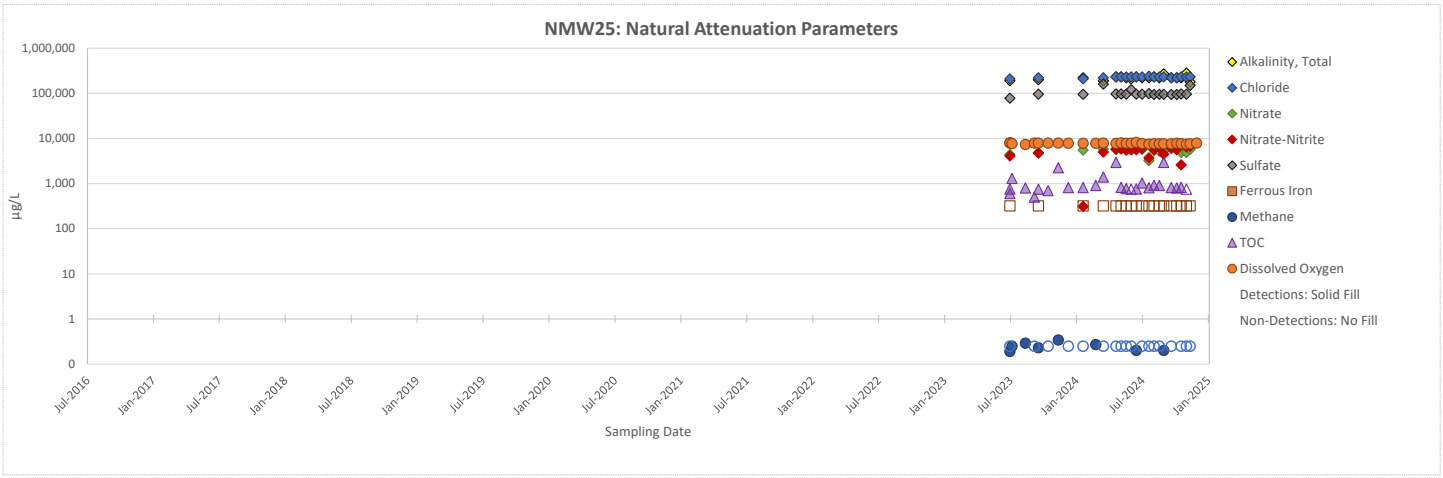
Red Hill Bulk Fuel Storage Facility
Appendix B.5.: Cumulative Natural Attenuation Parameter Graphs
Data Legend
Footnotes

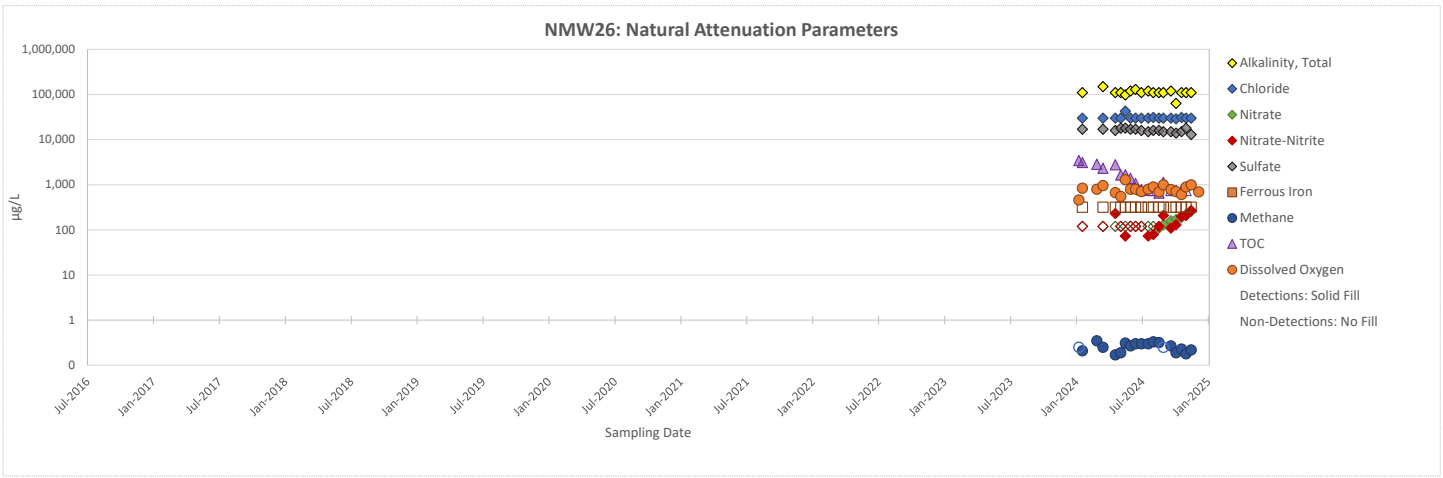
Detects are generally displayed as closed markers with color in fill. Non-detects are displayed without color in fill.

Plotted values include Normal and Field Duplicate sample types.

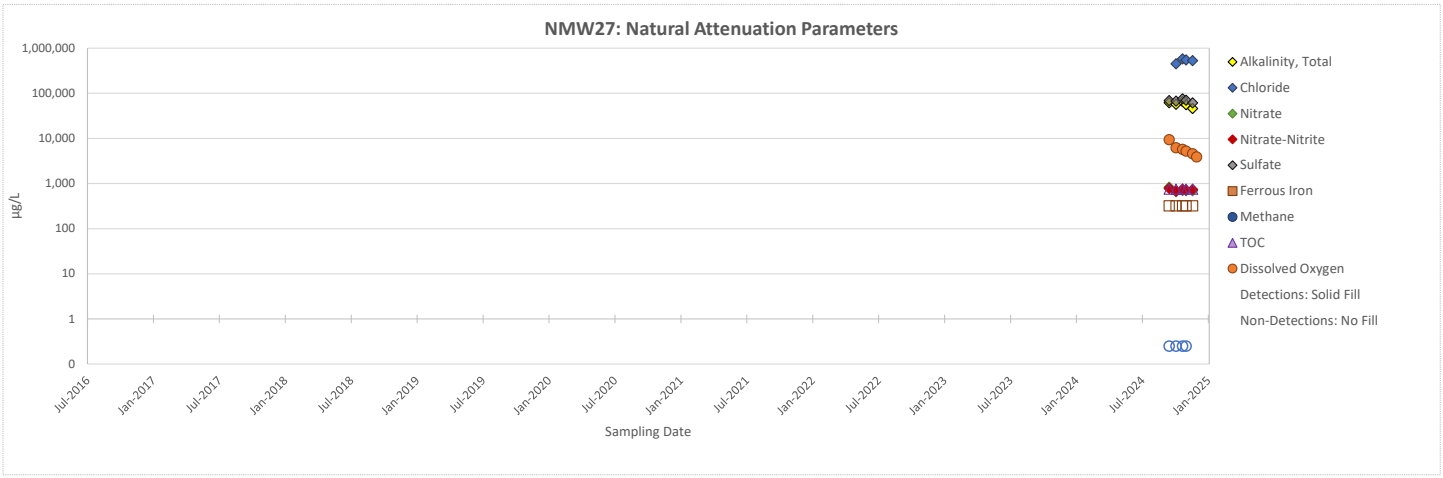
All results are reported in ug/L

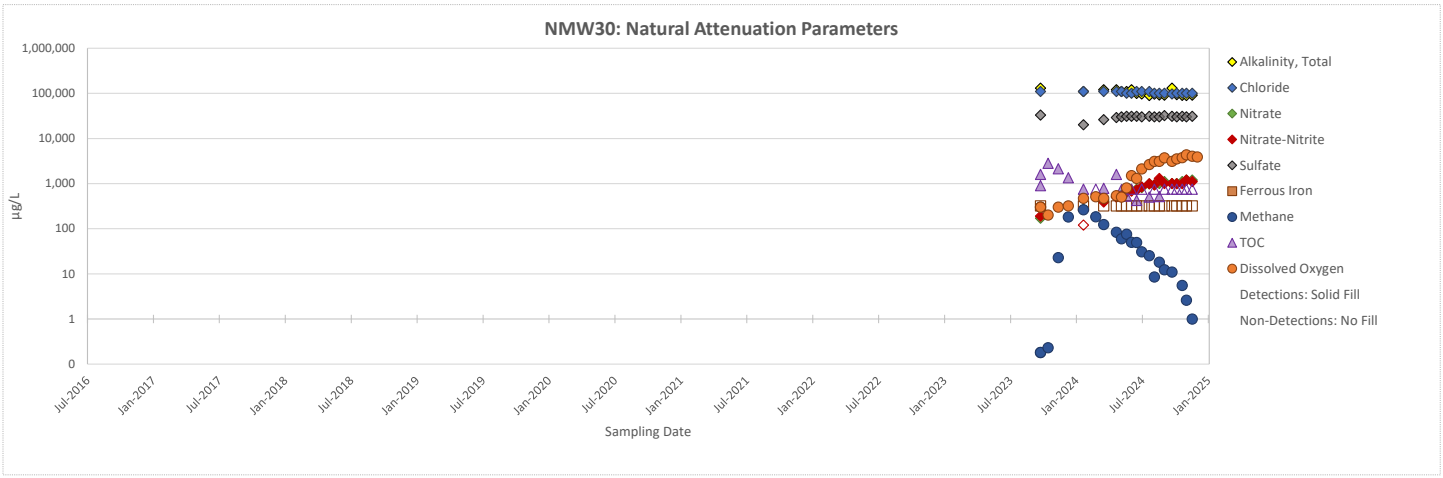


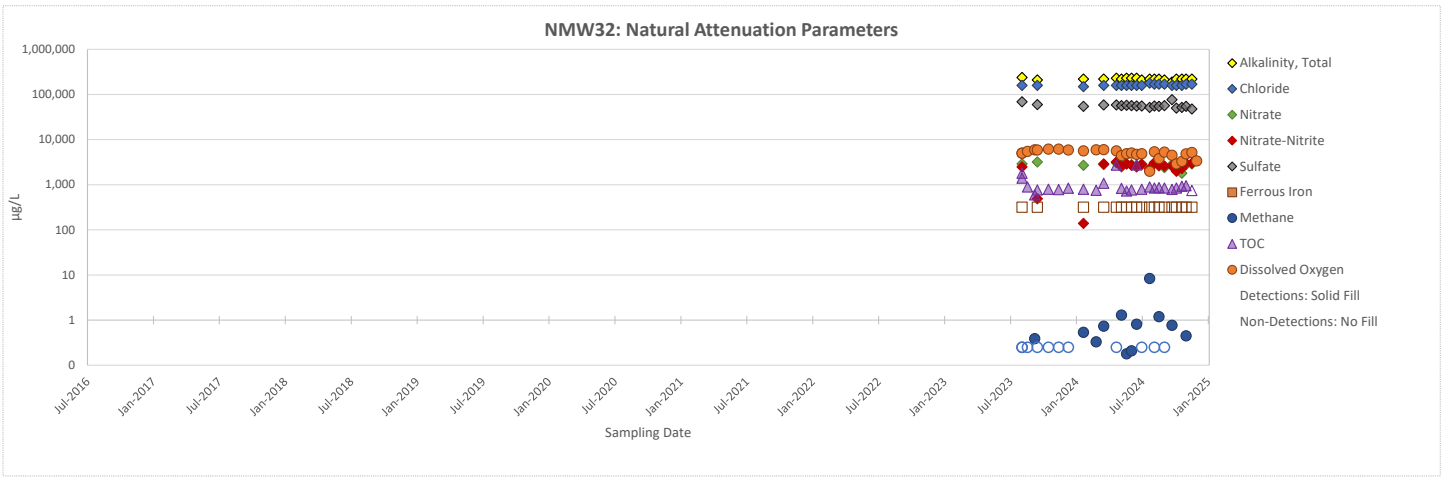




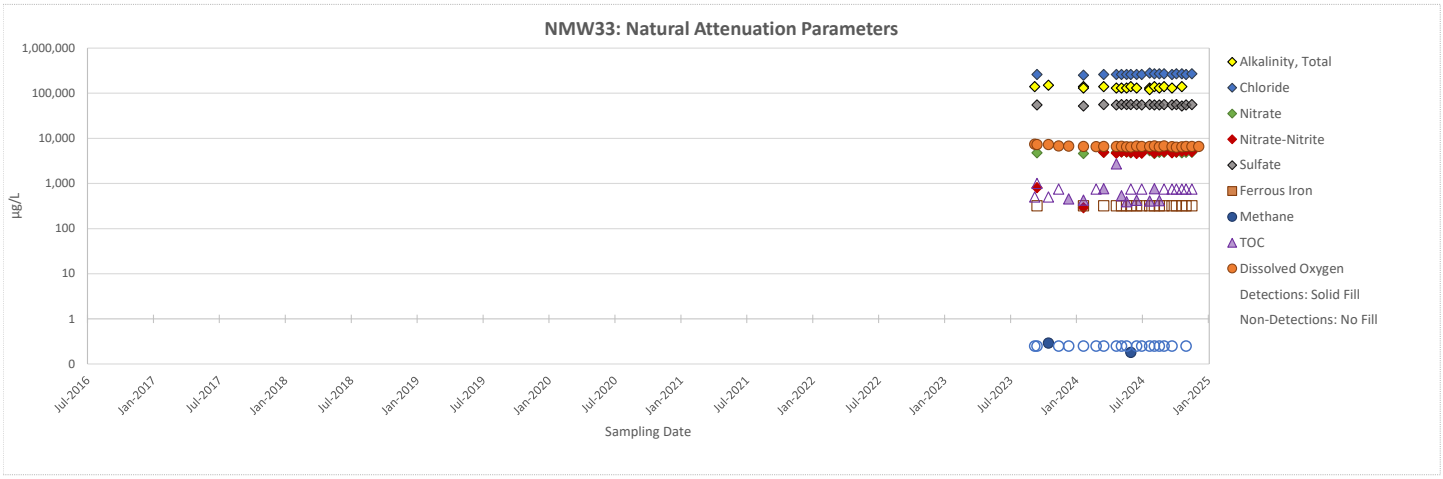
Note: See Data Legend

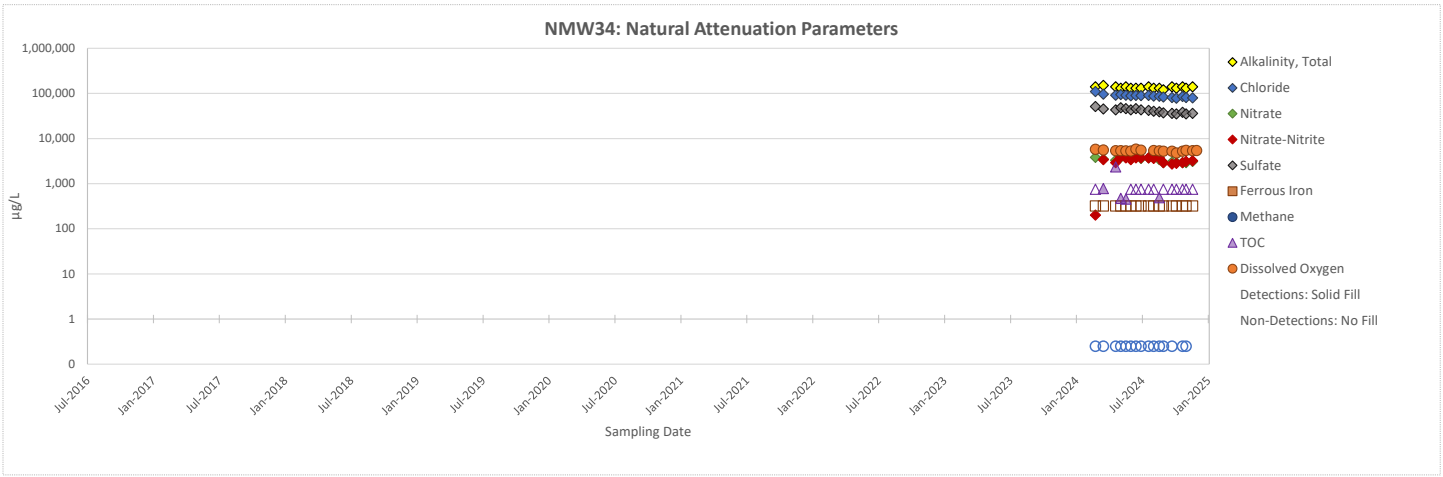




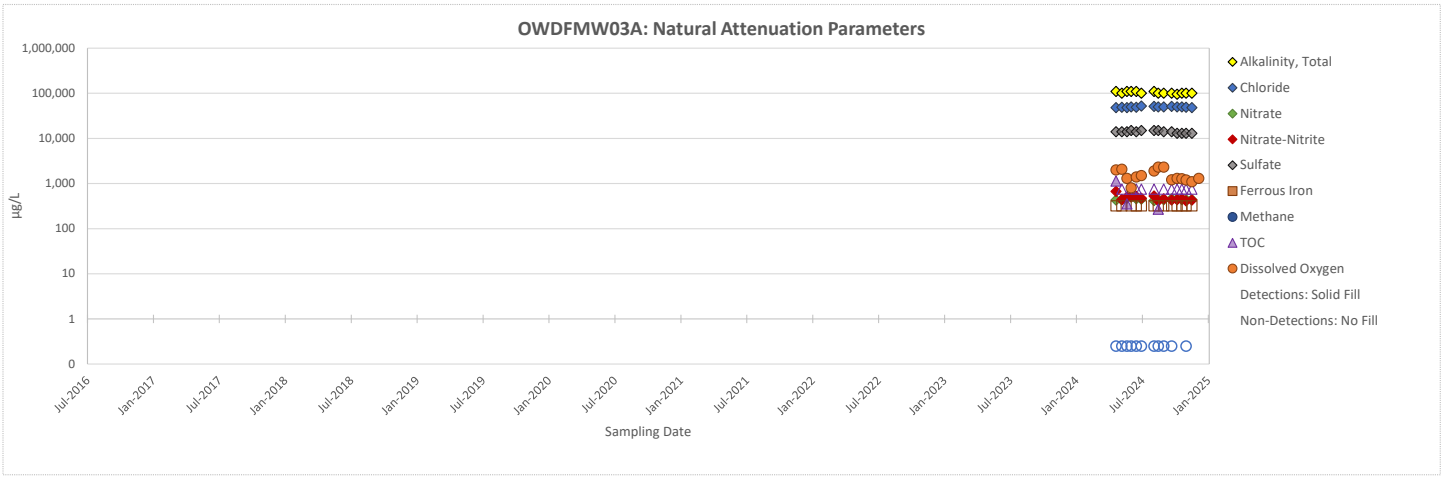


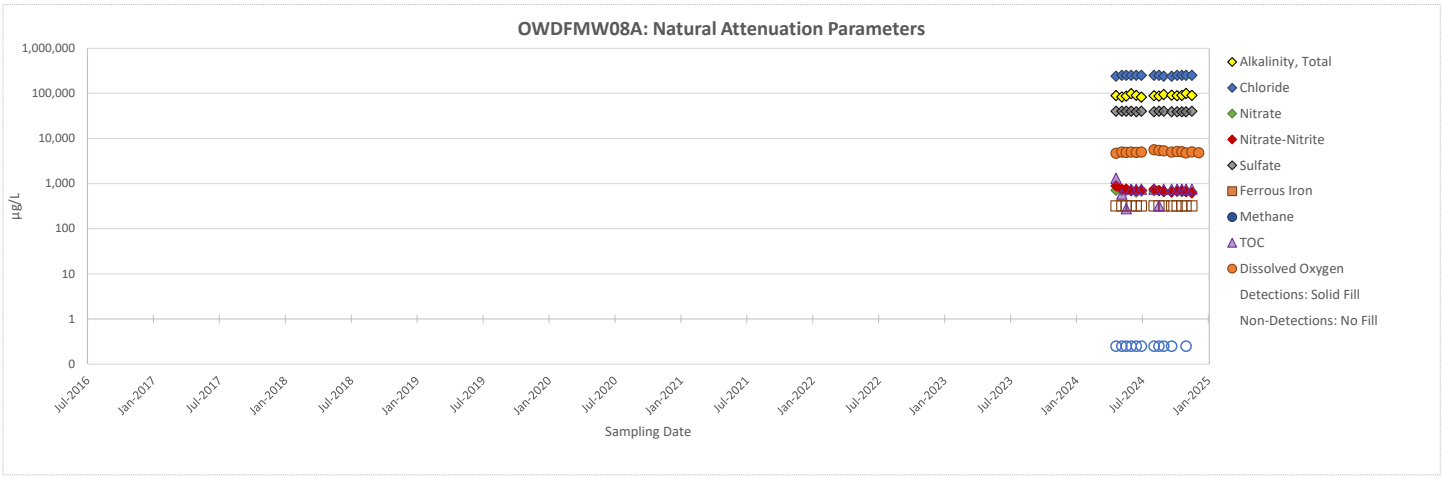
Note: See Data Legend

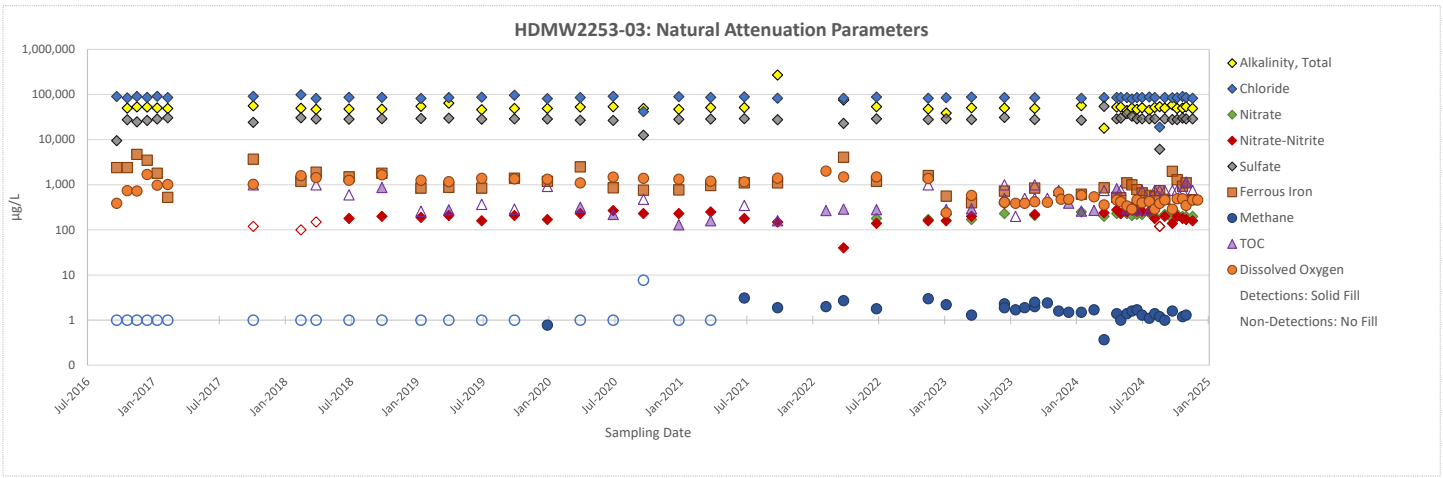




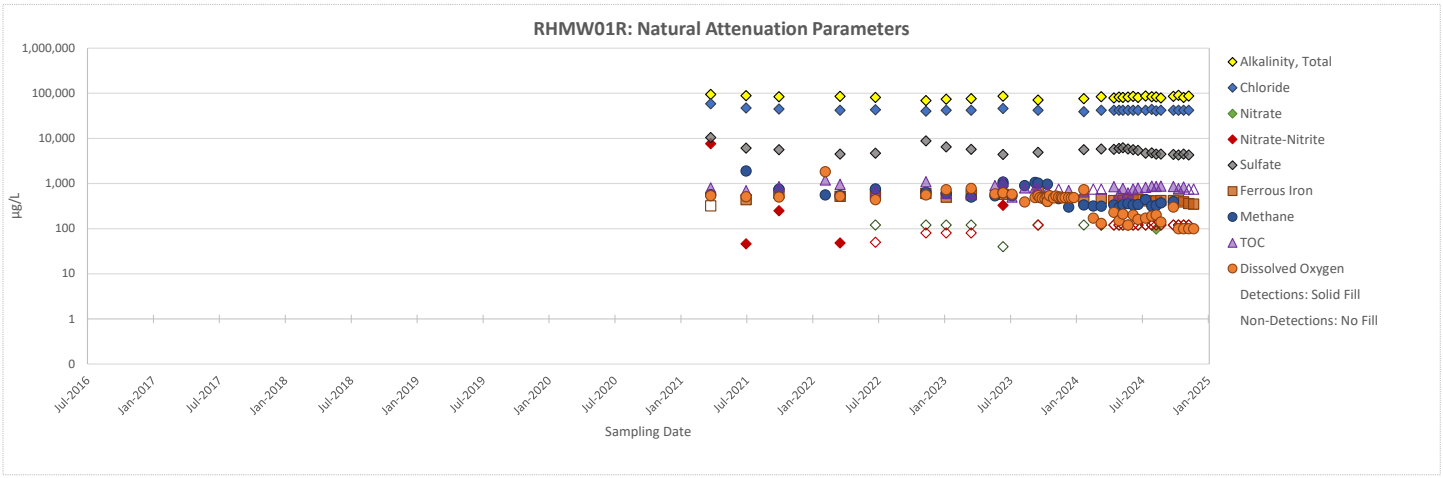
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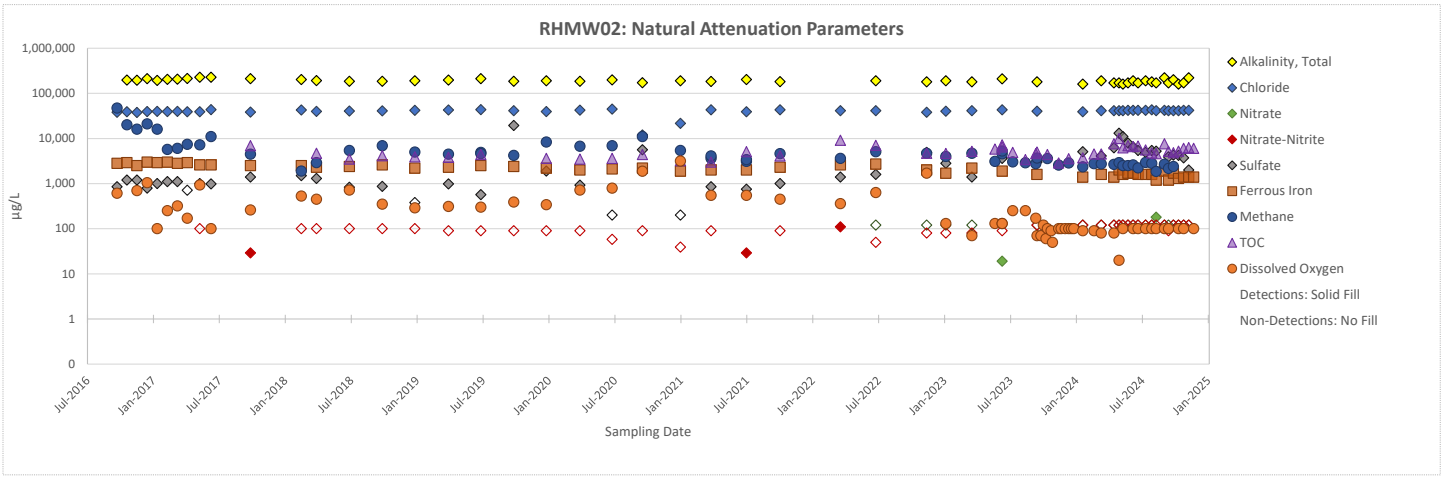


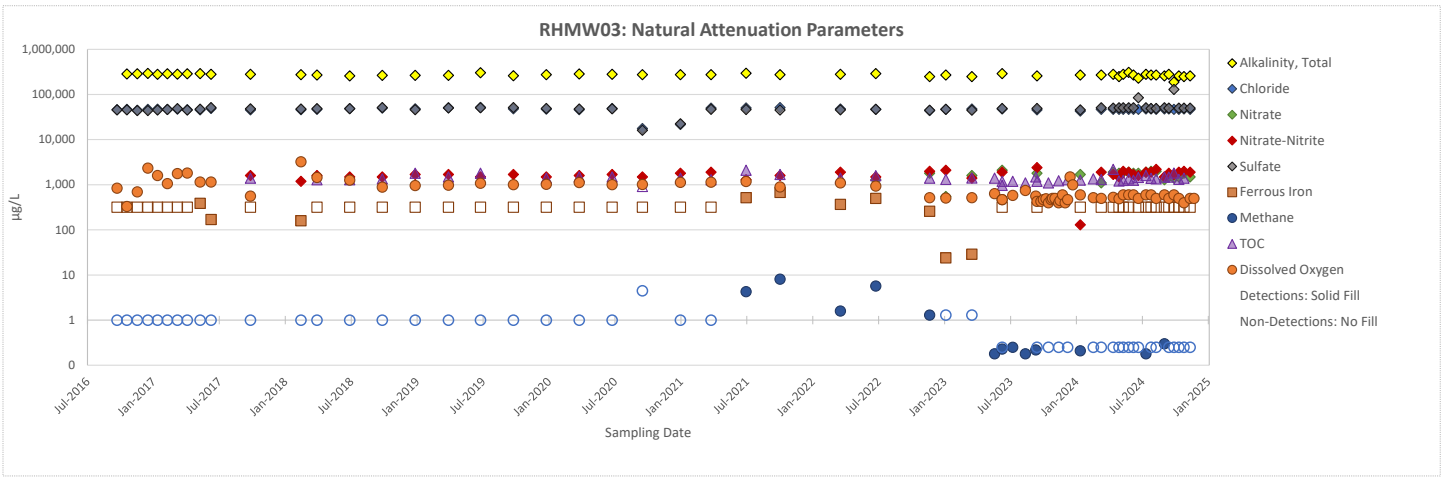




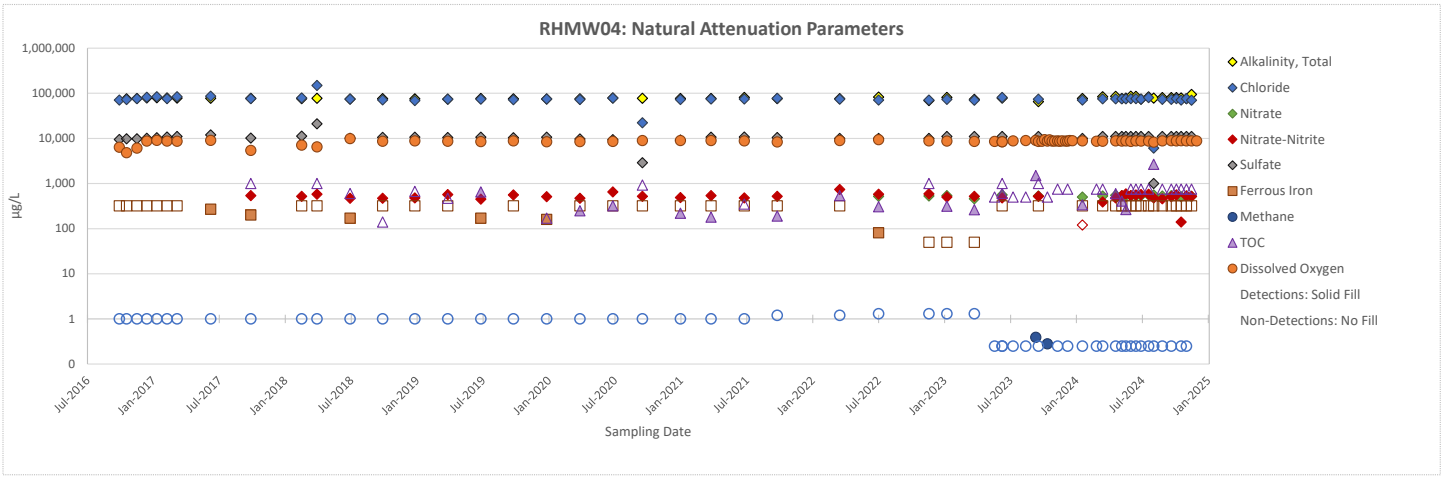
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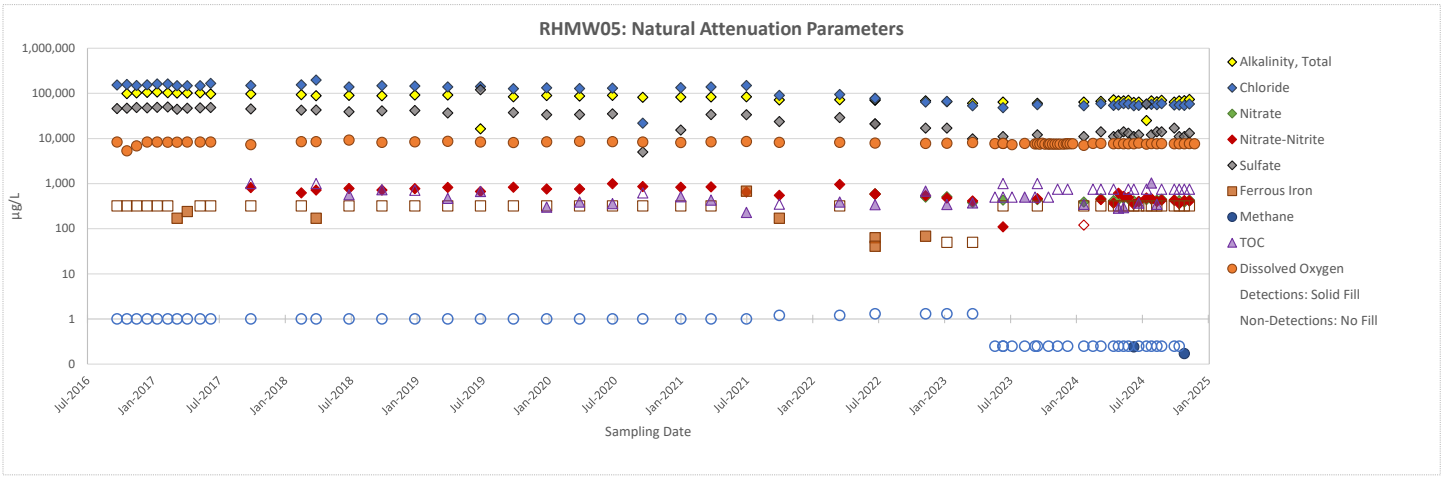


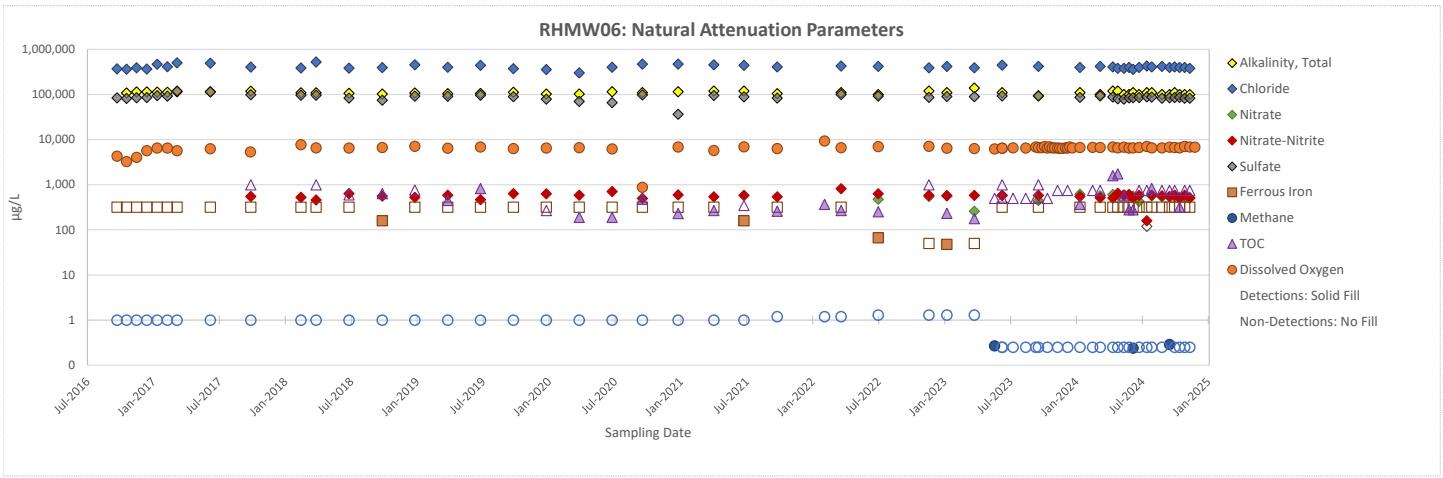




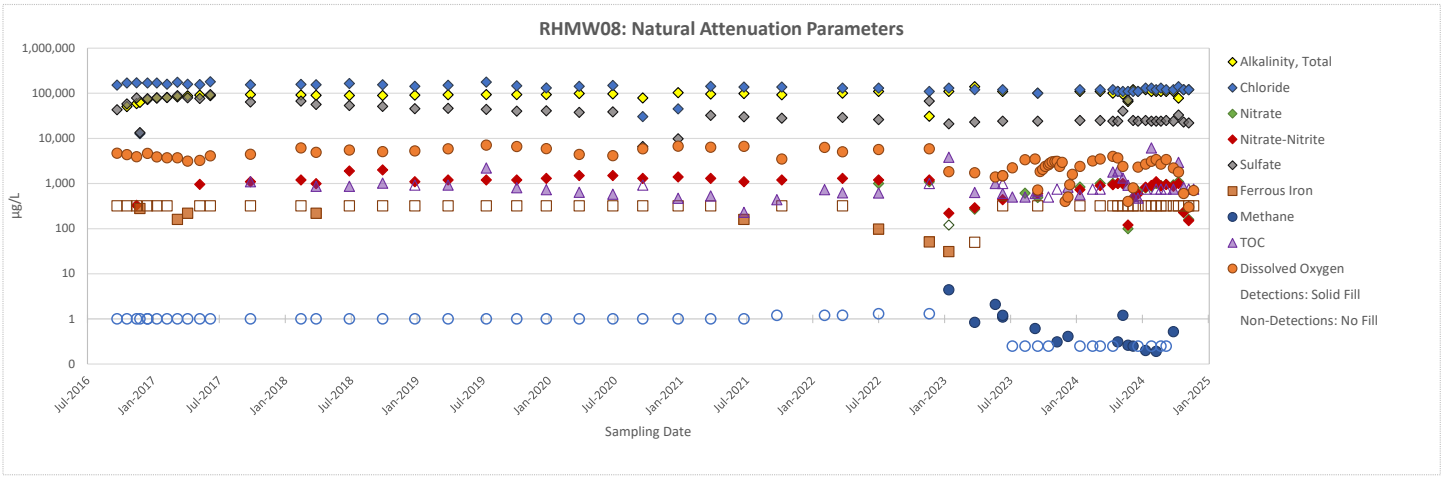
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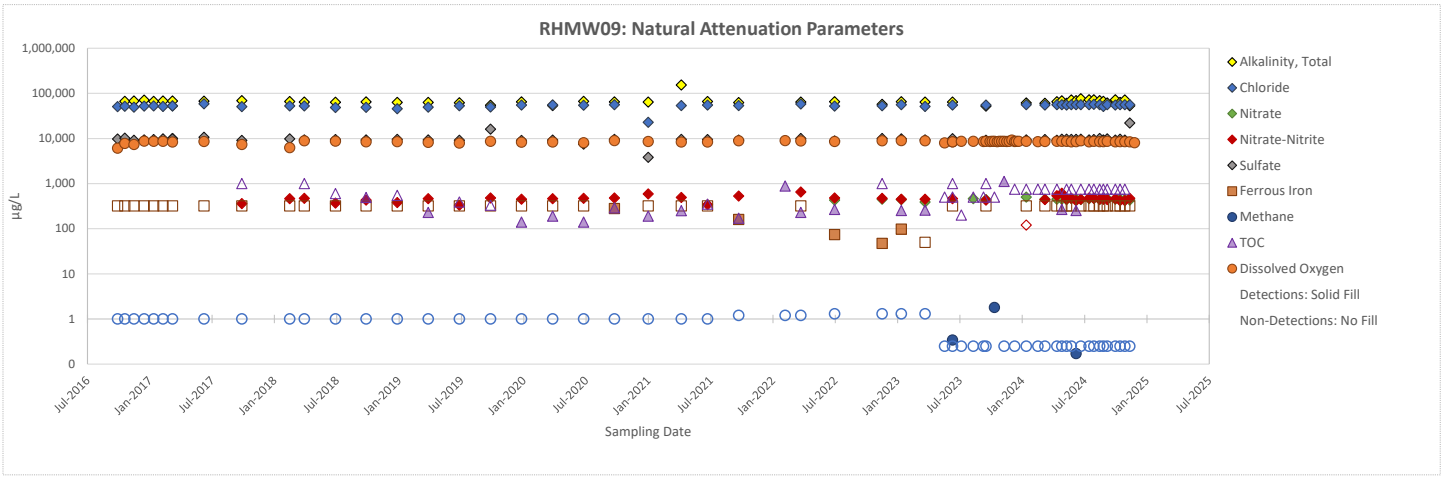


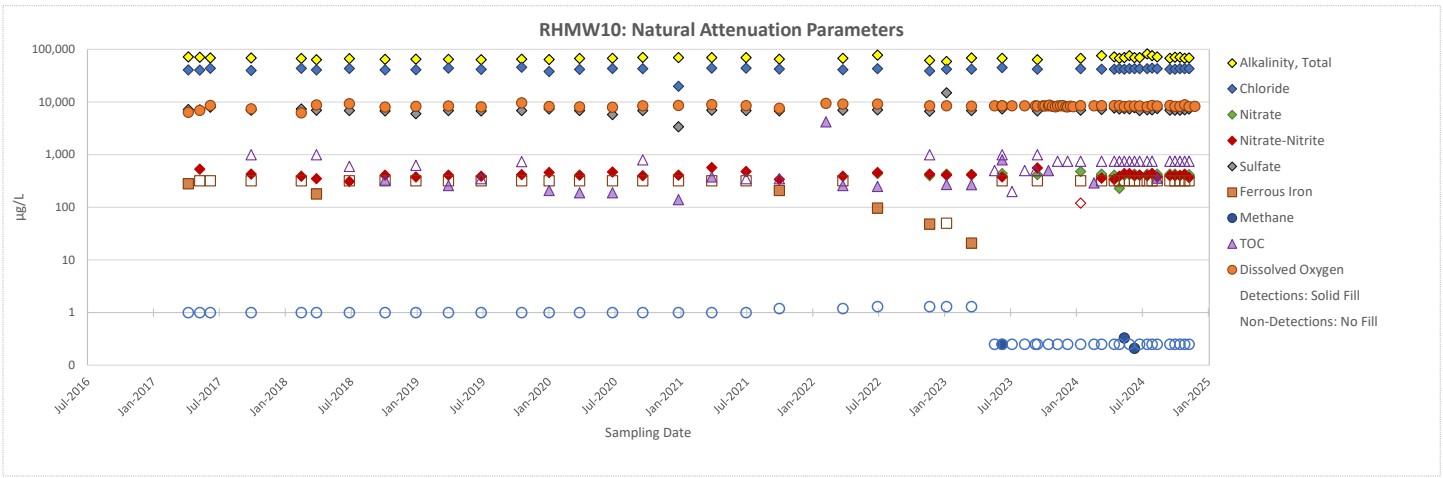




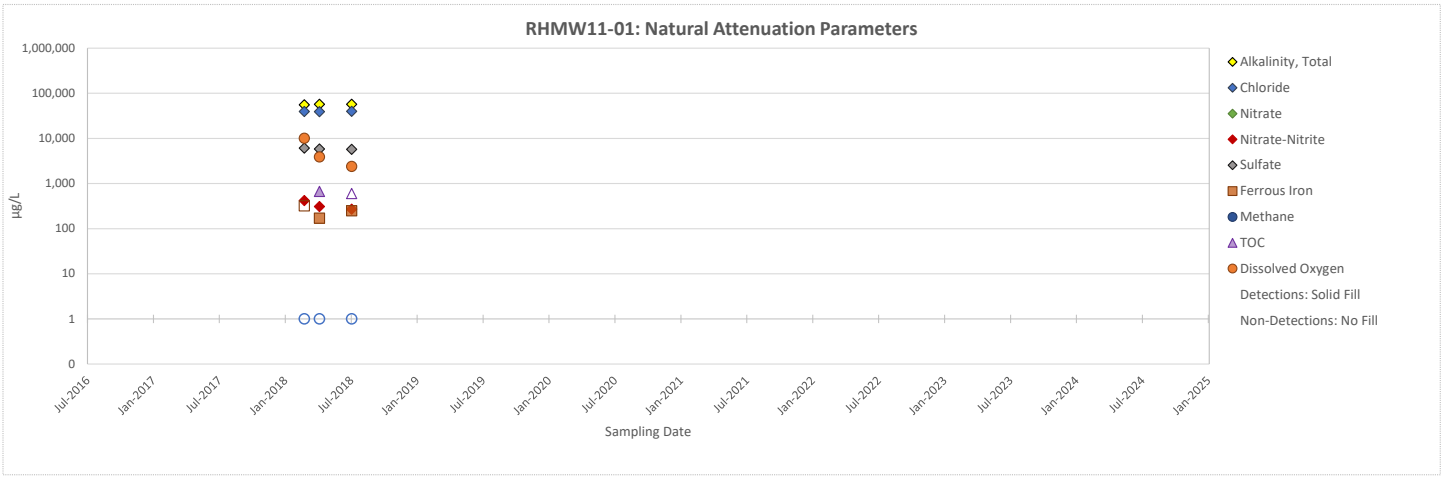
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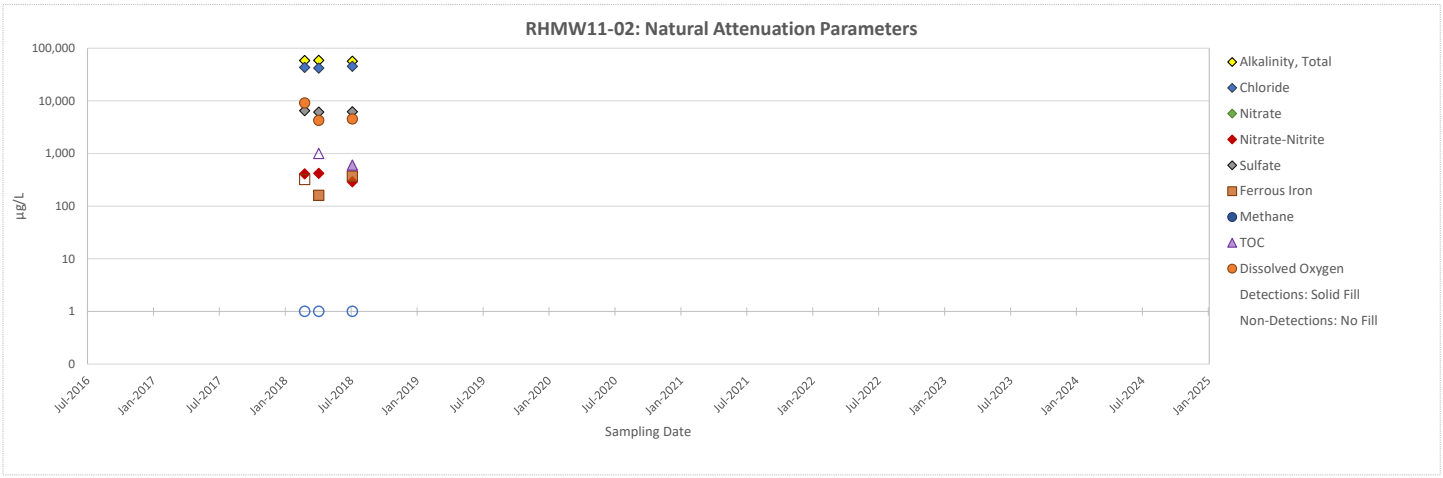


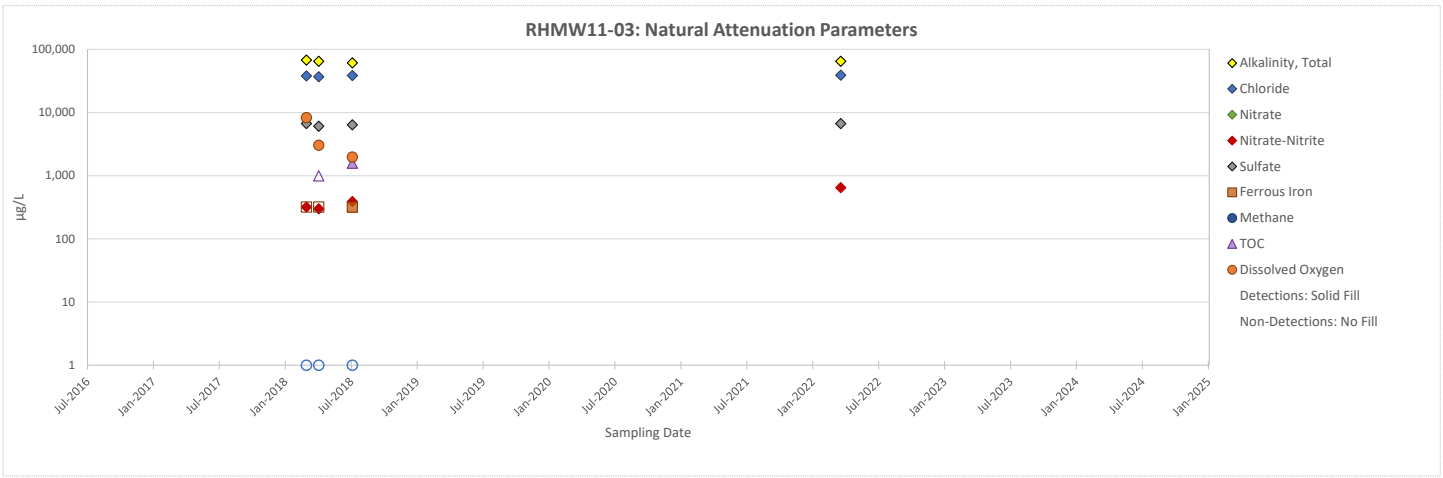




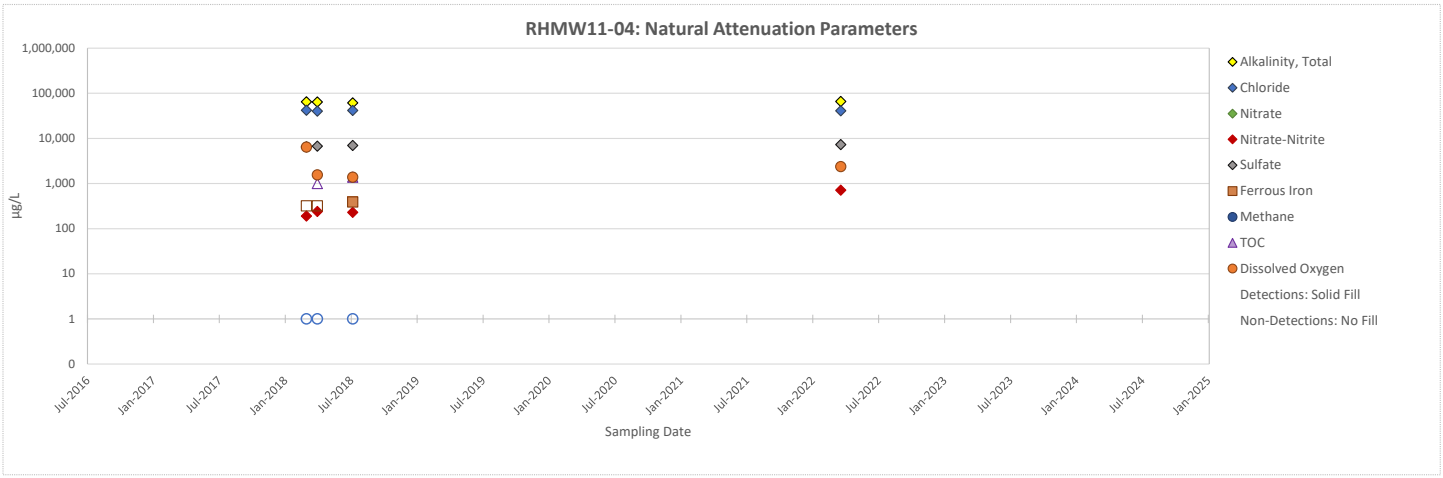
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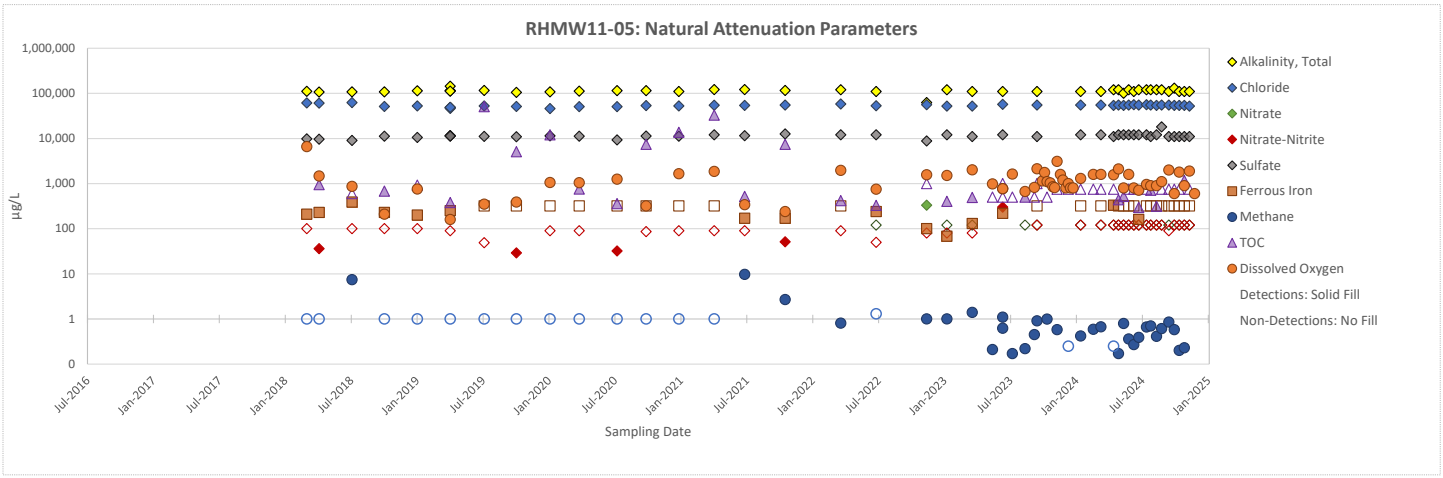


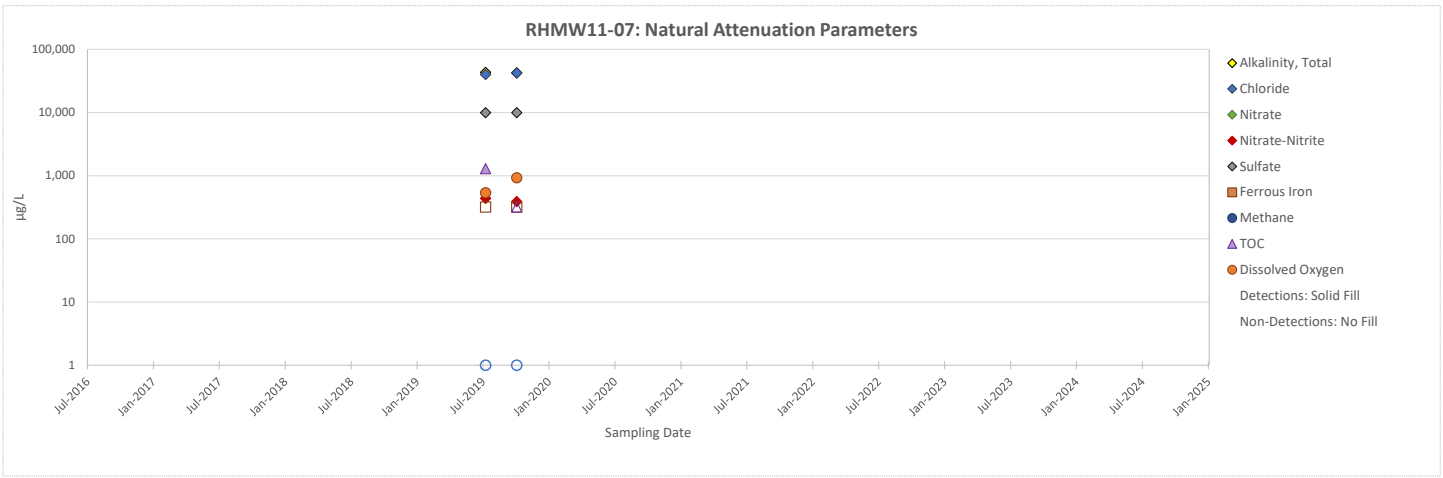




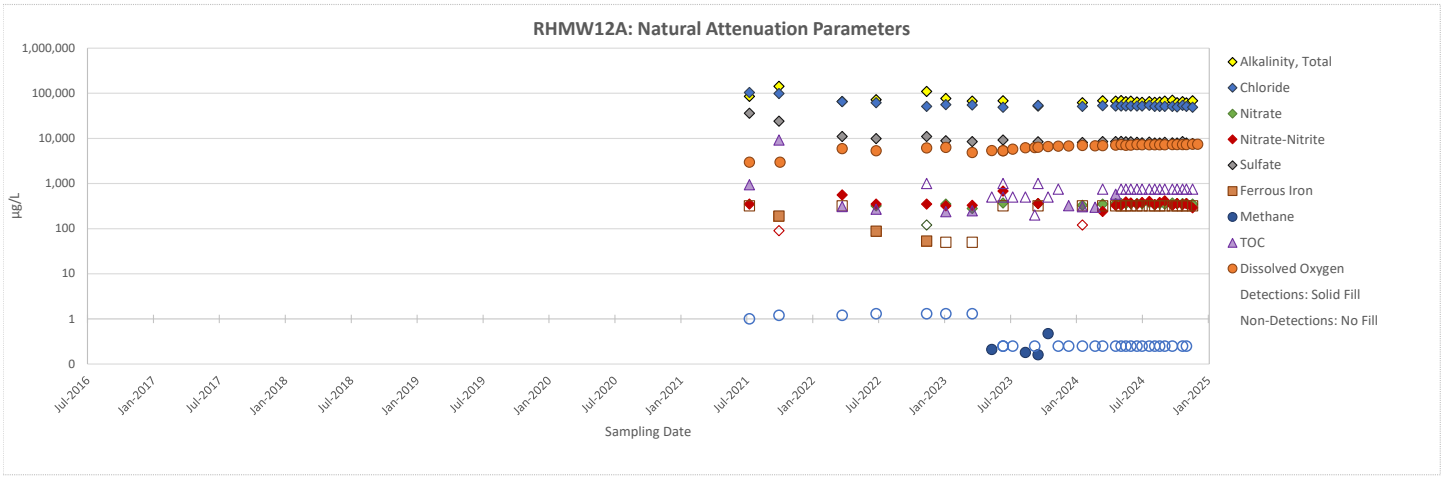
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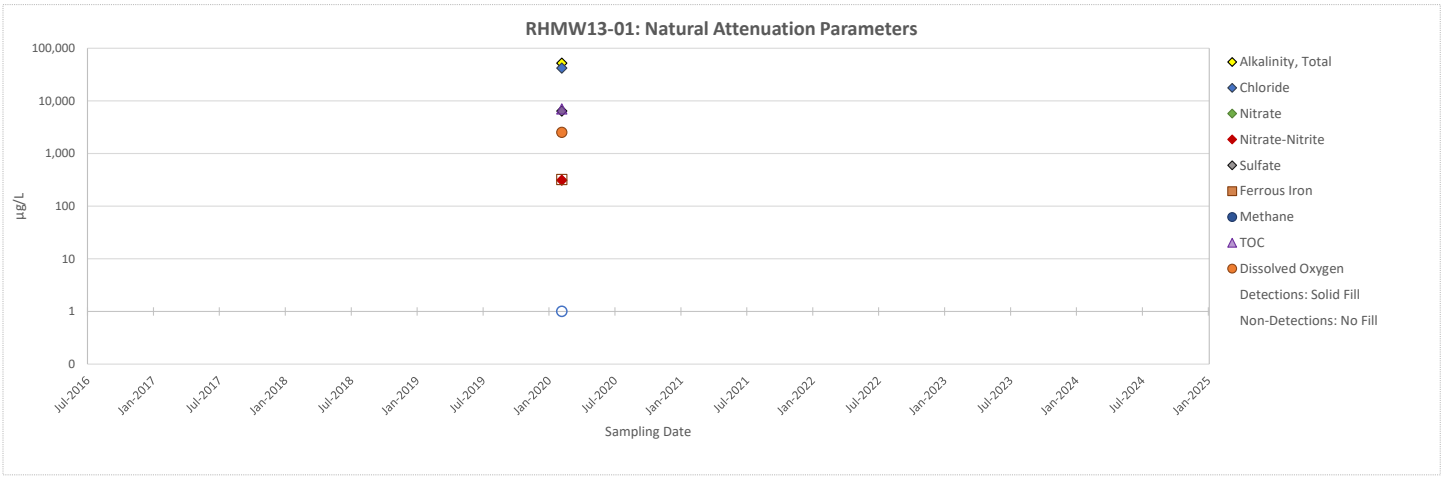


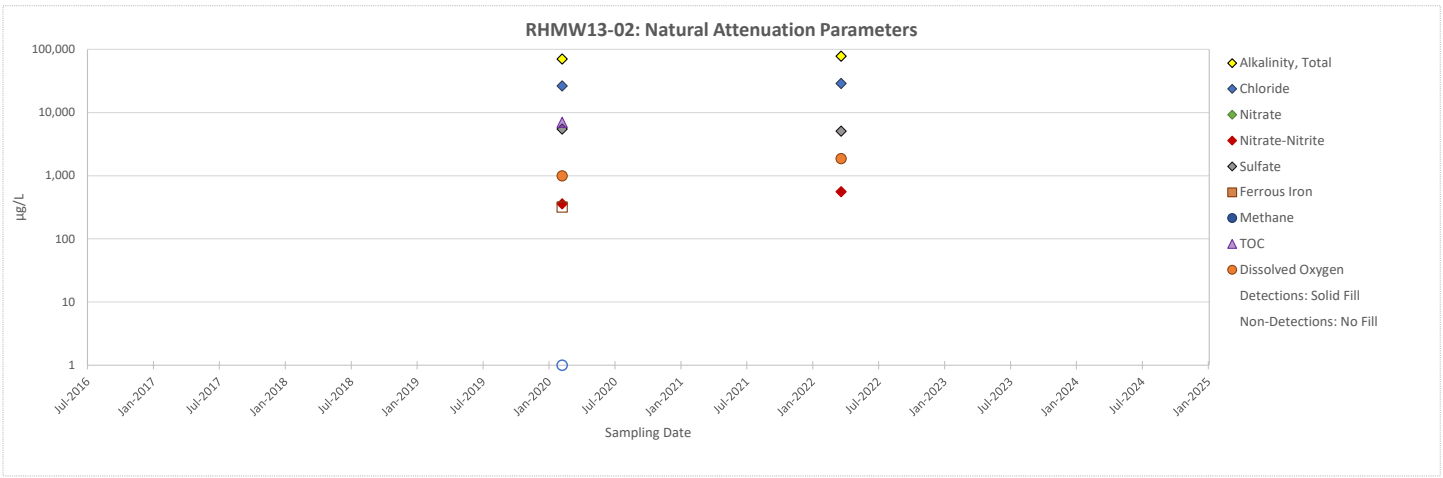




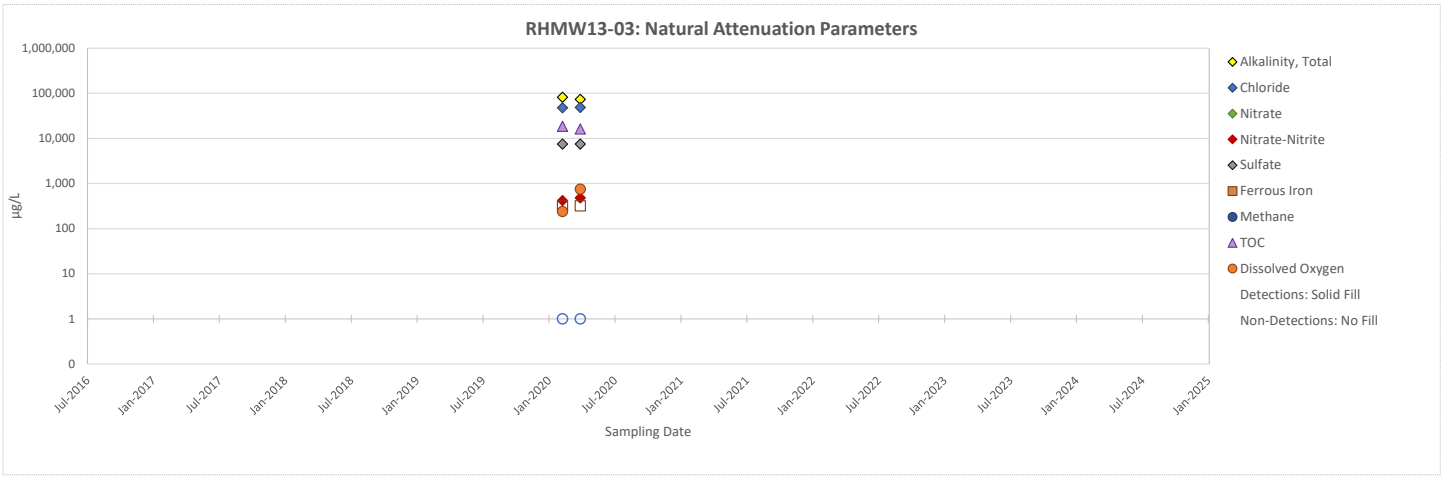
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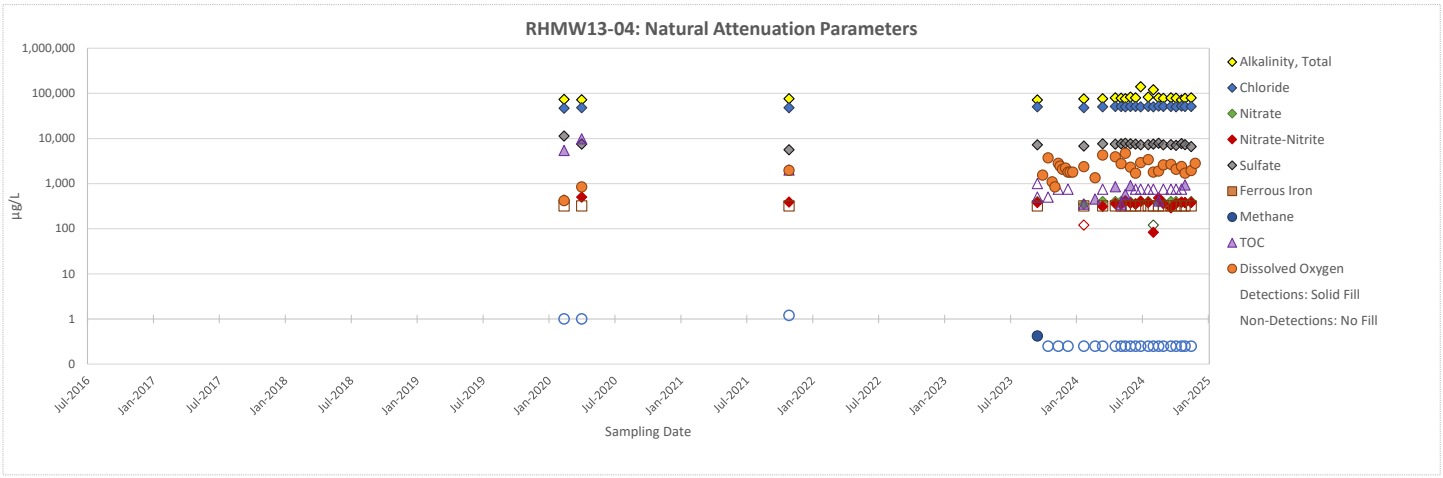


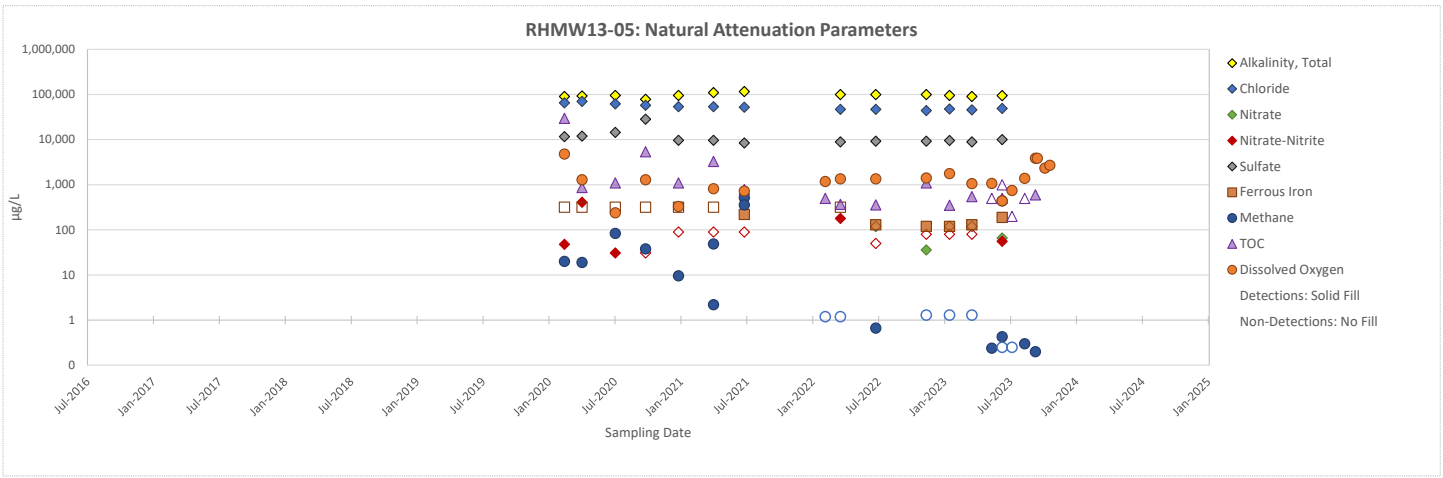




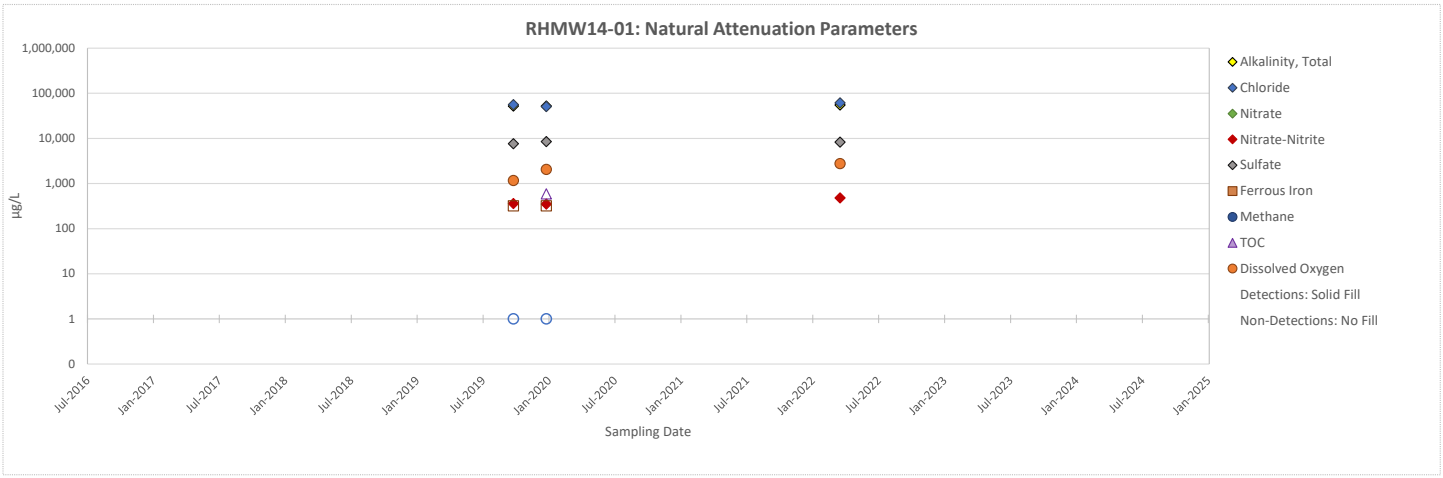
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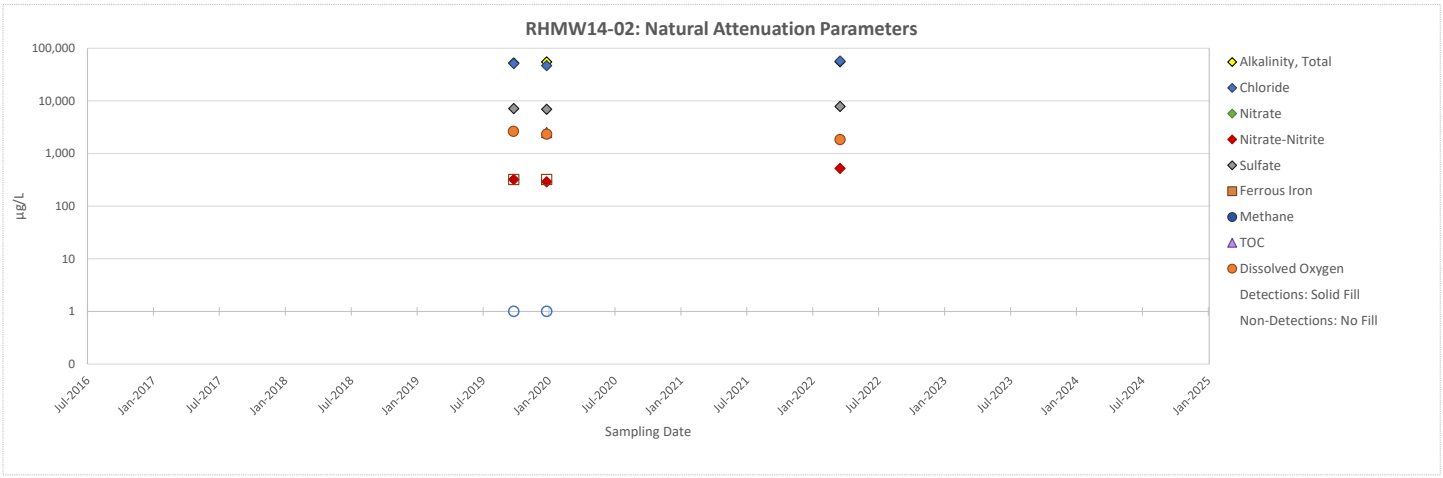


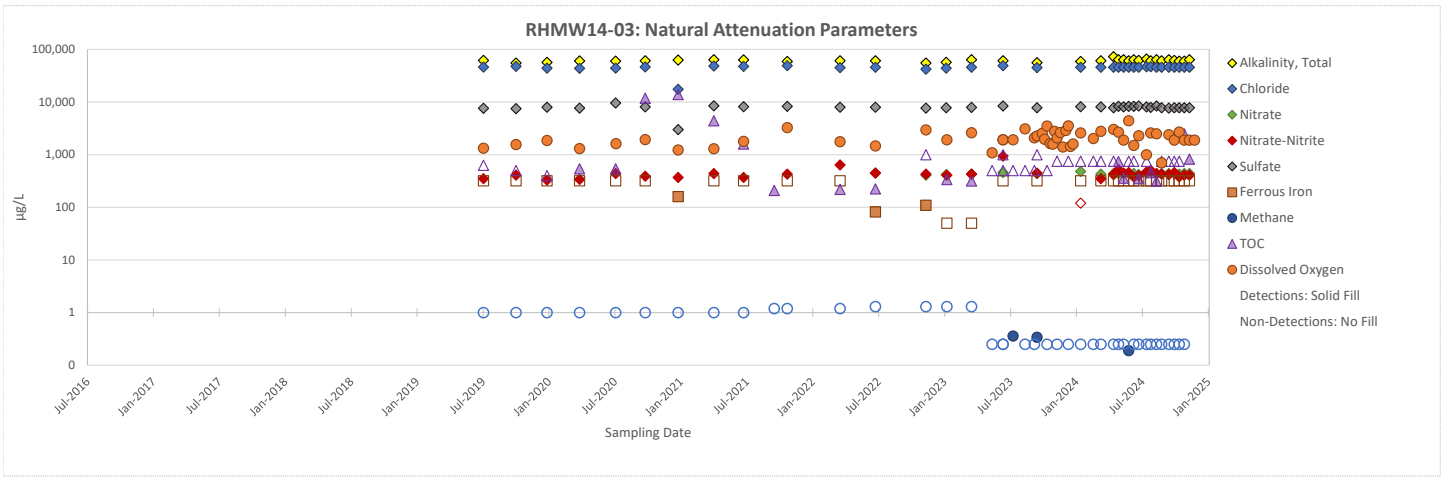




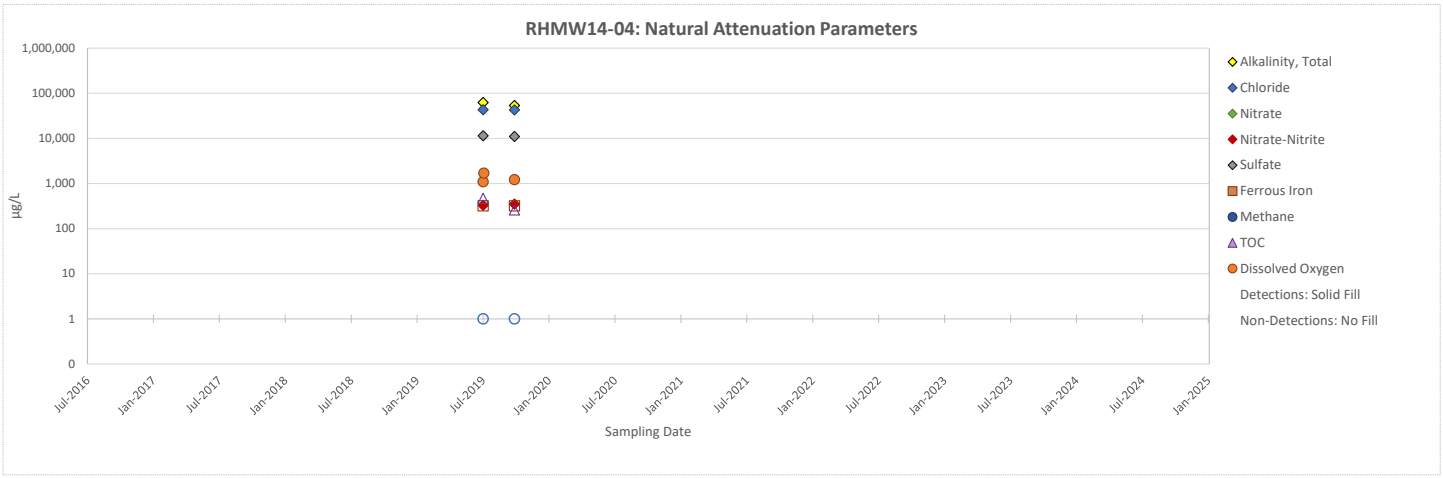
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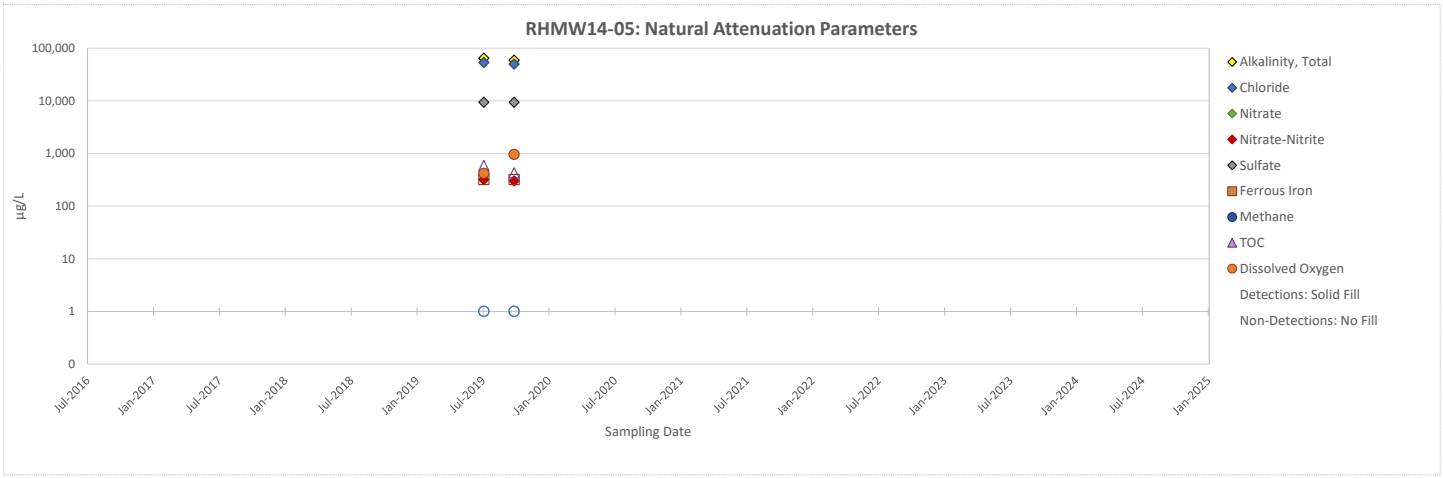


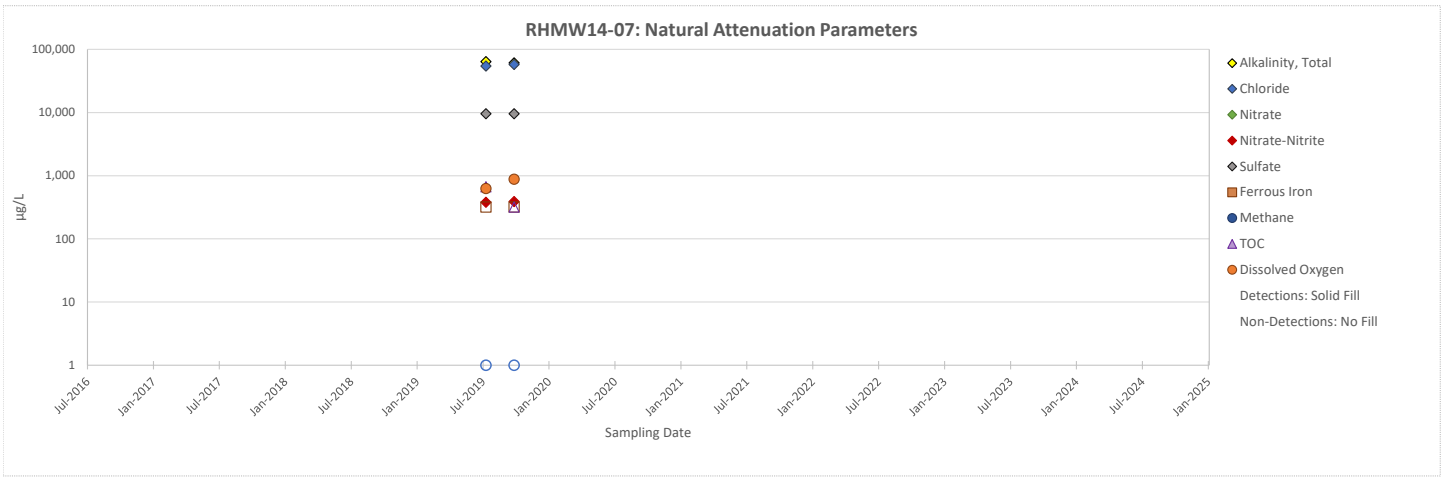




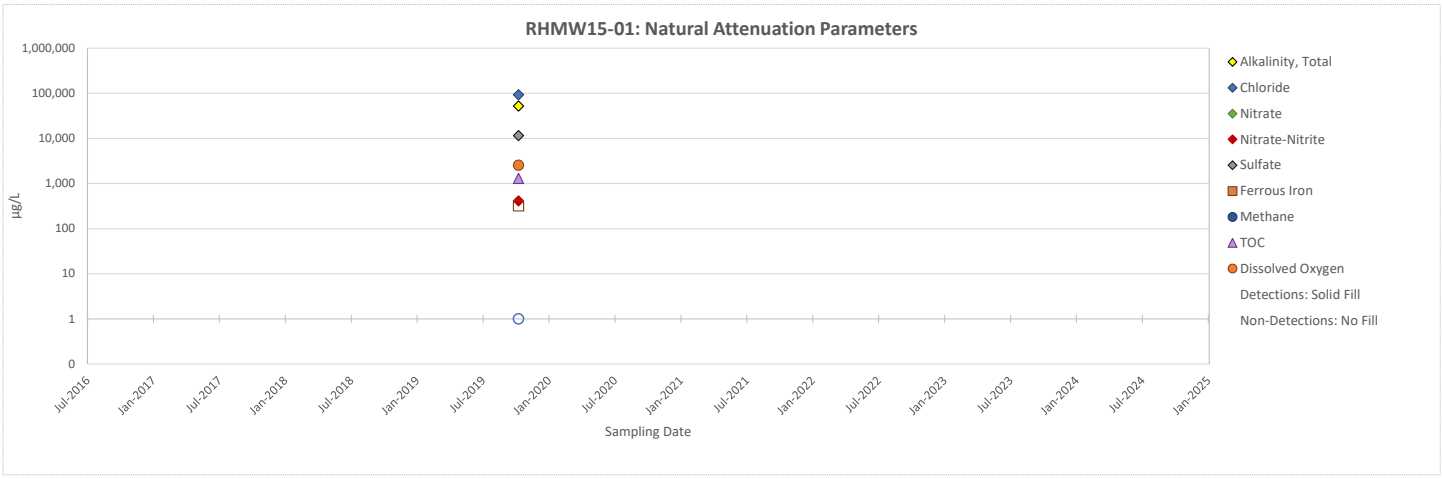
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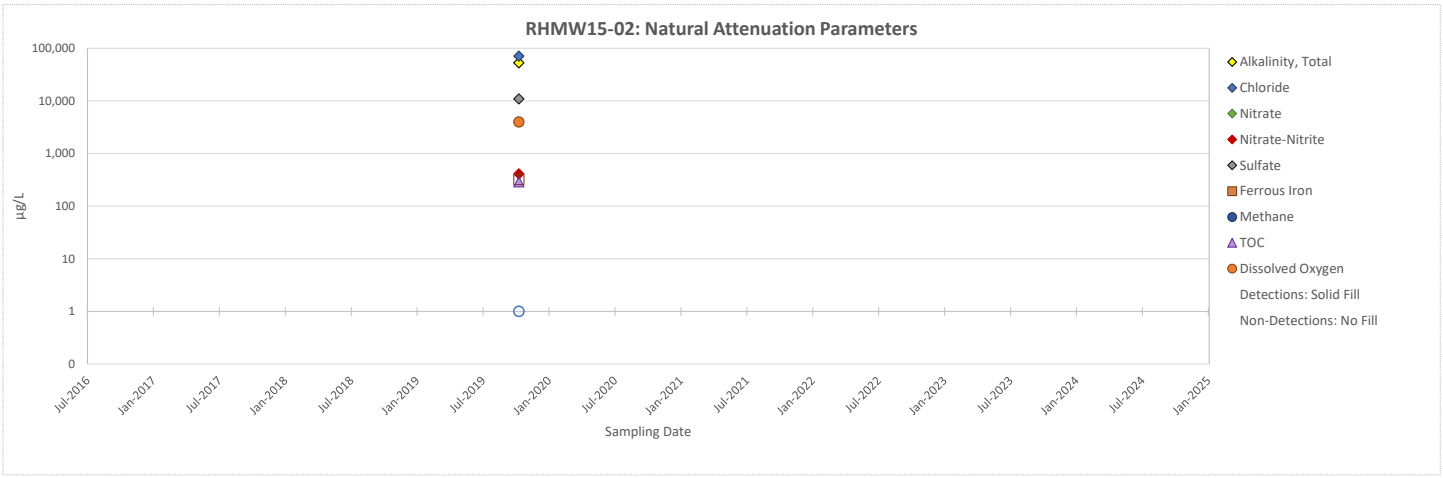


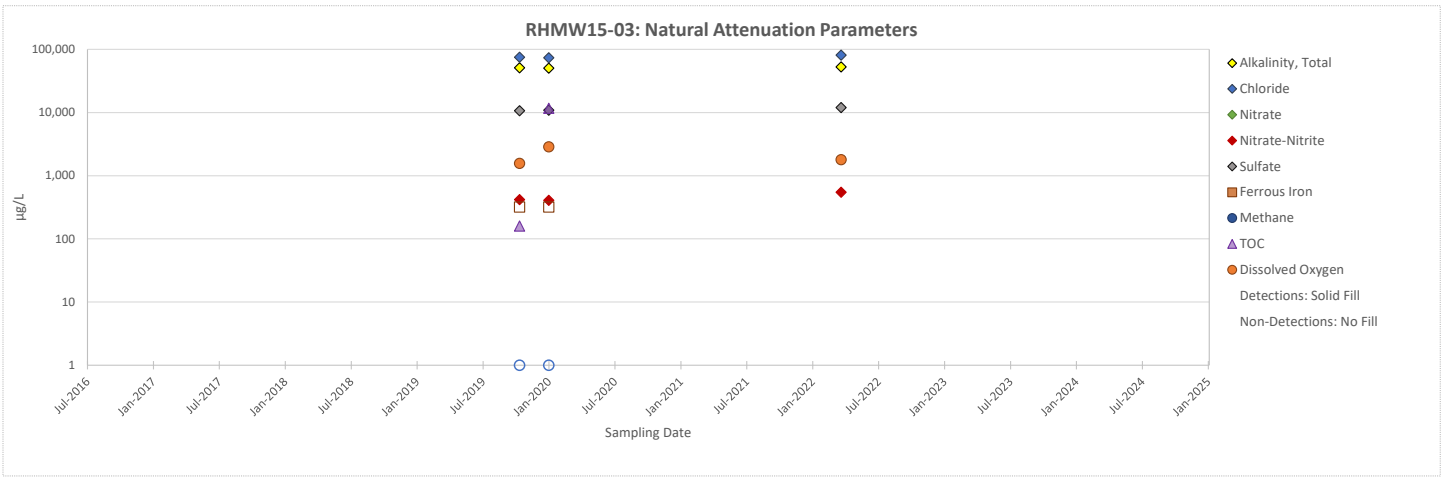




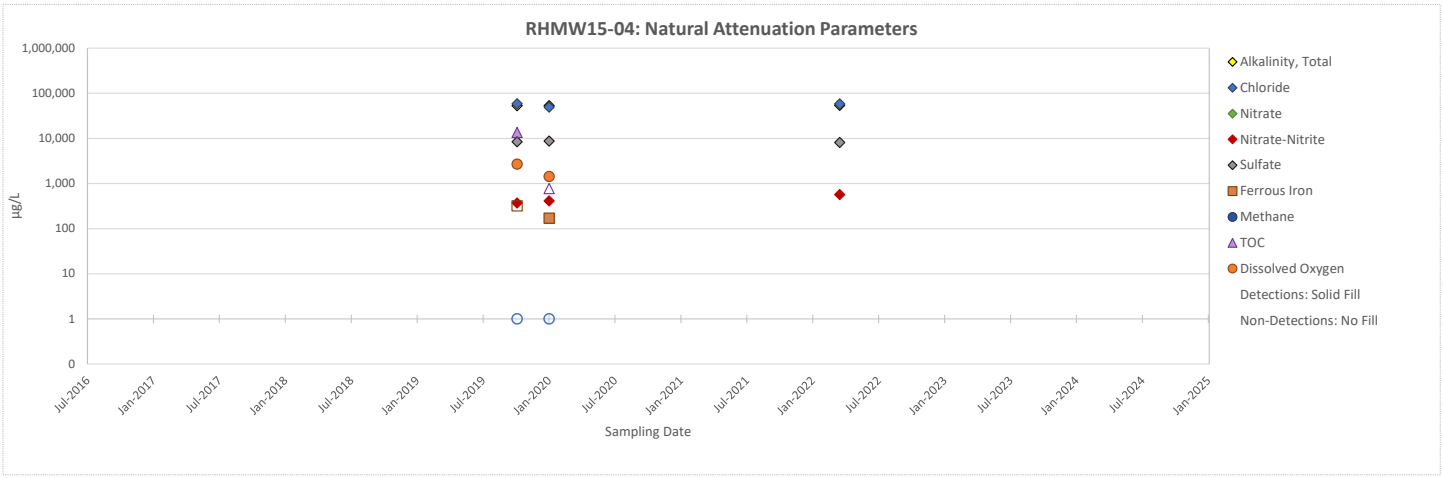
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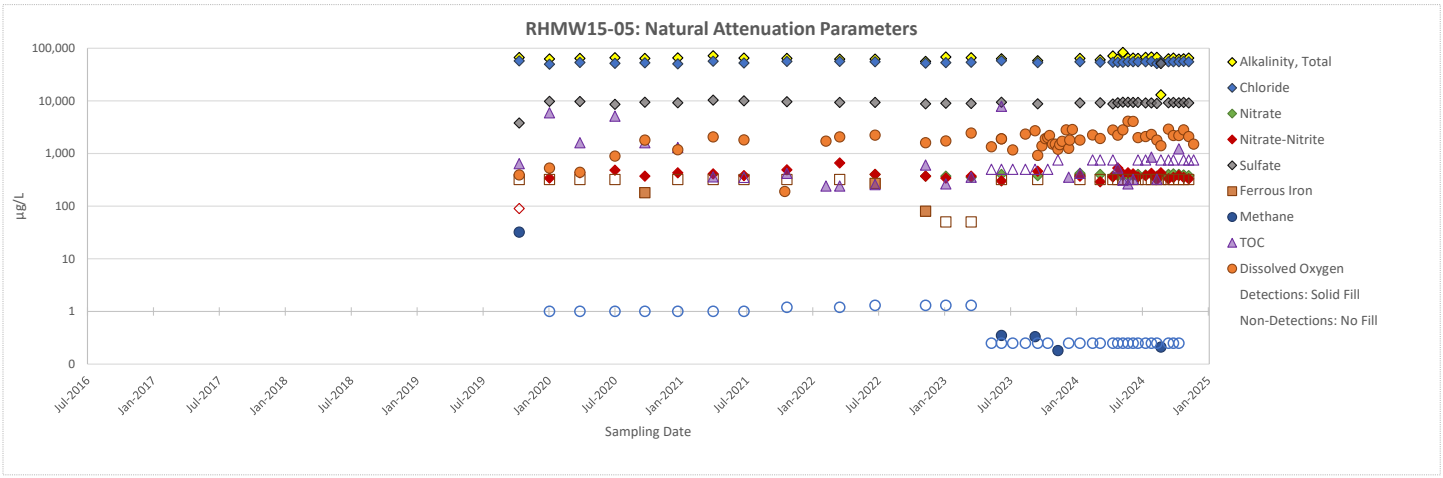


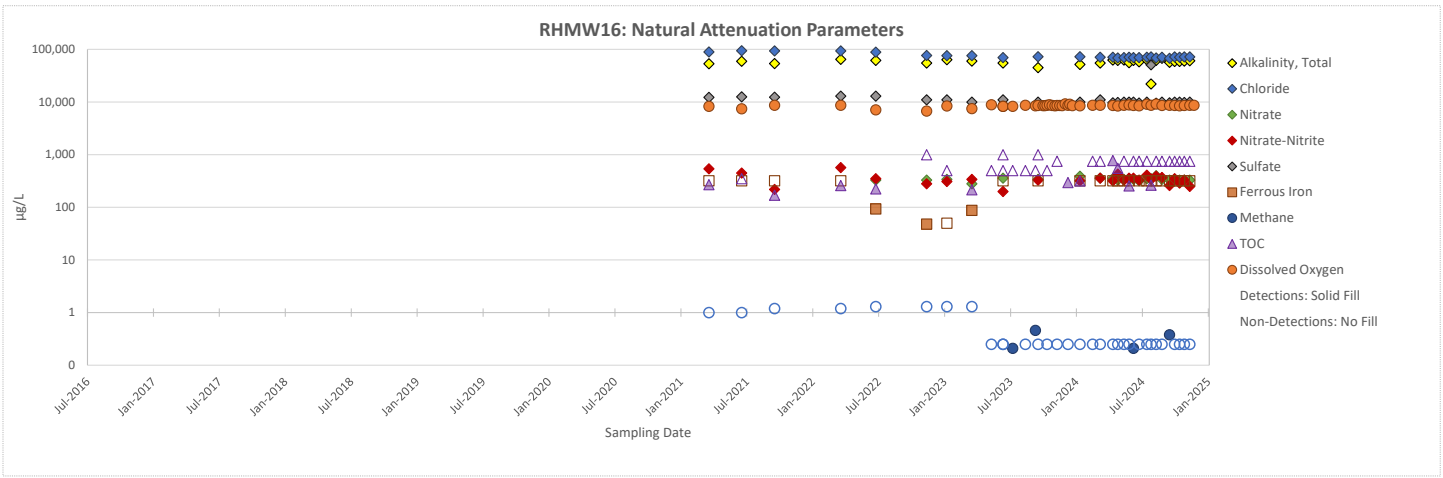




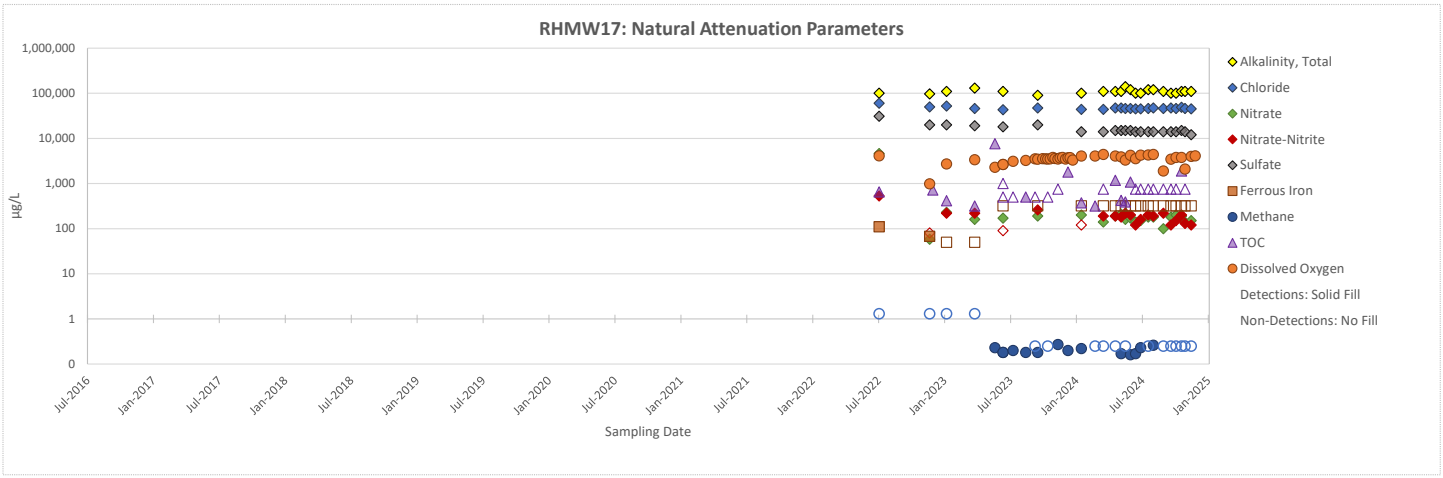
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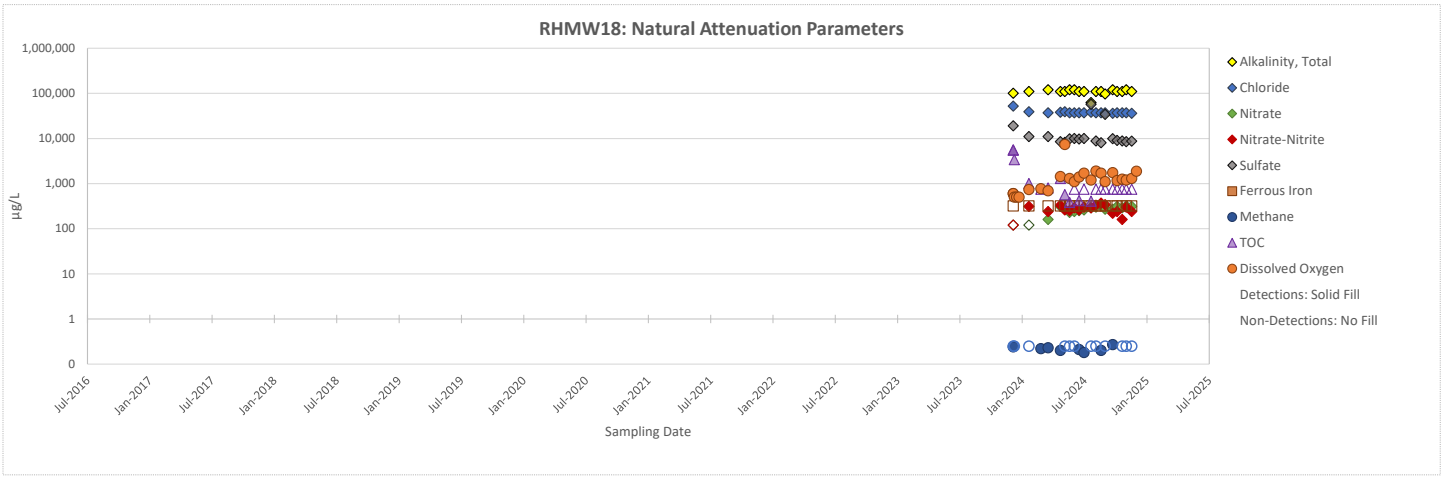


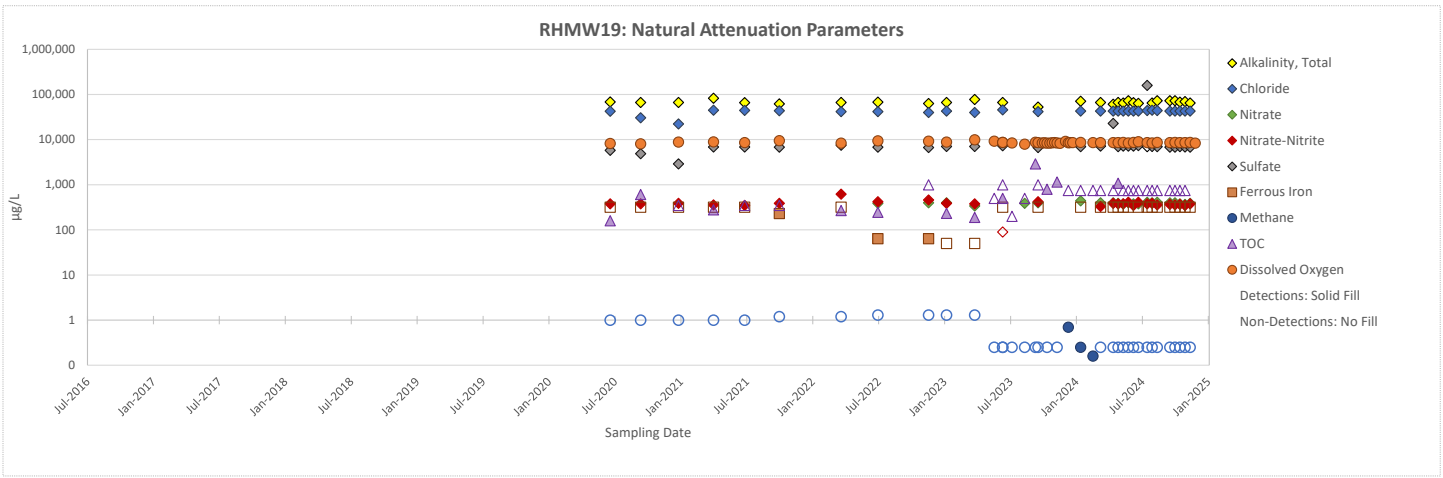




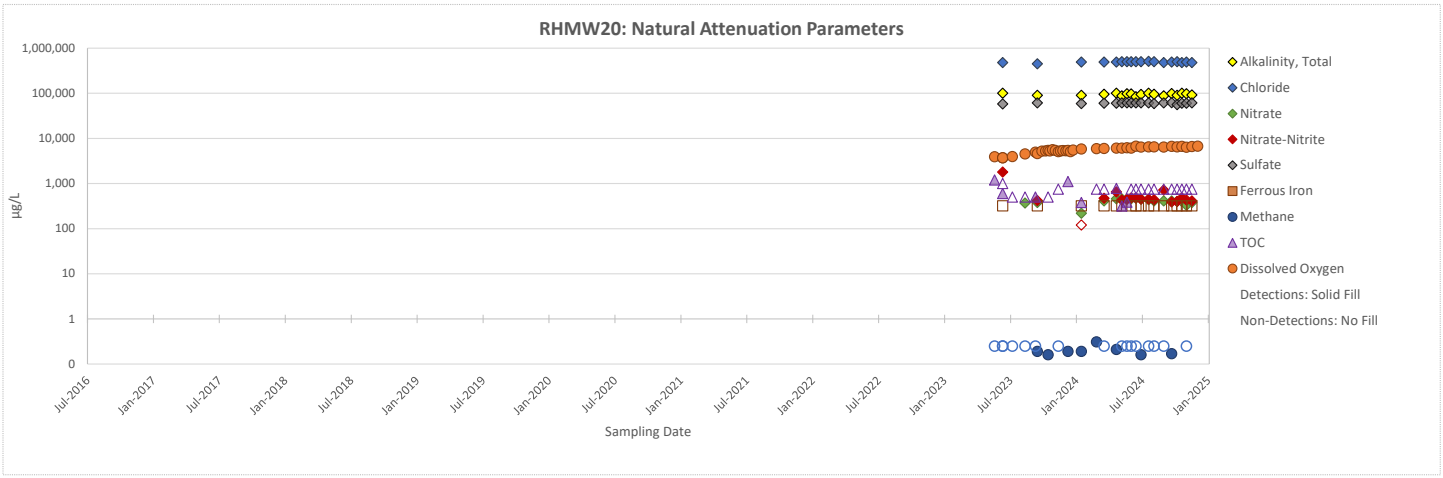
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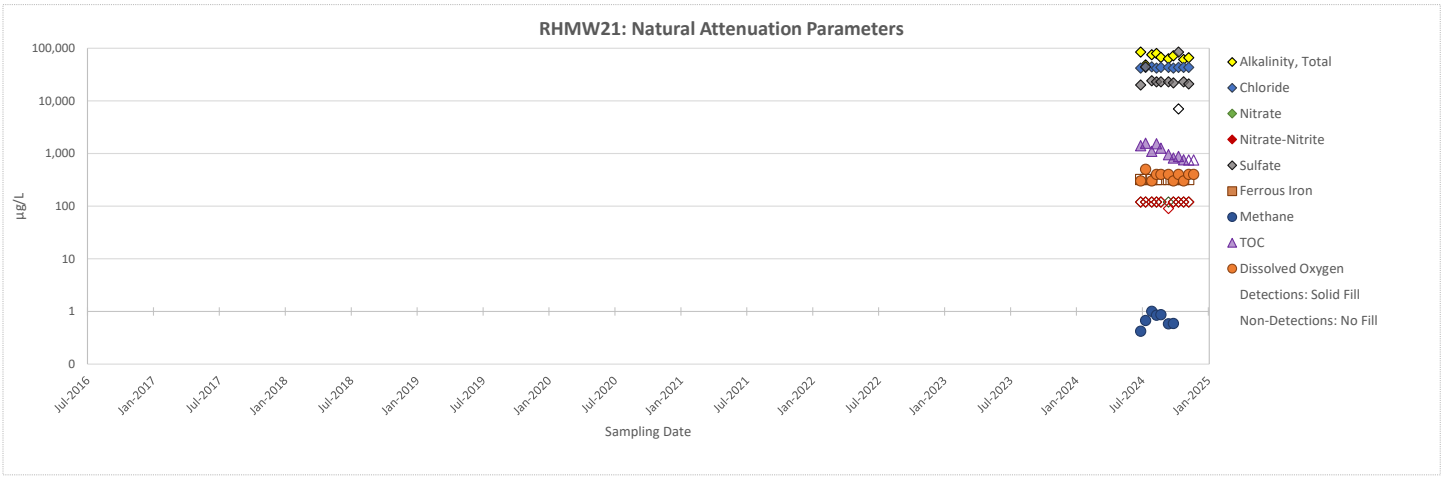


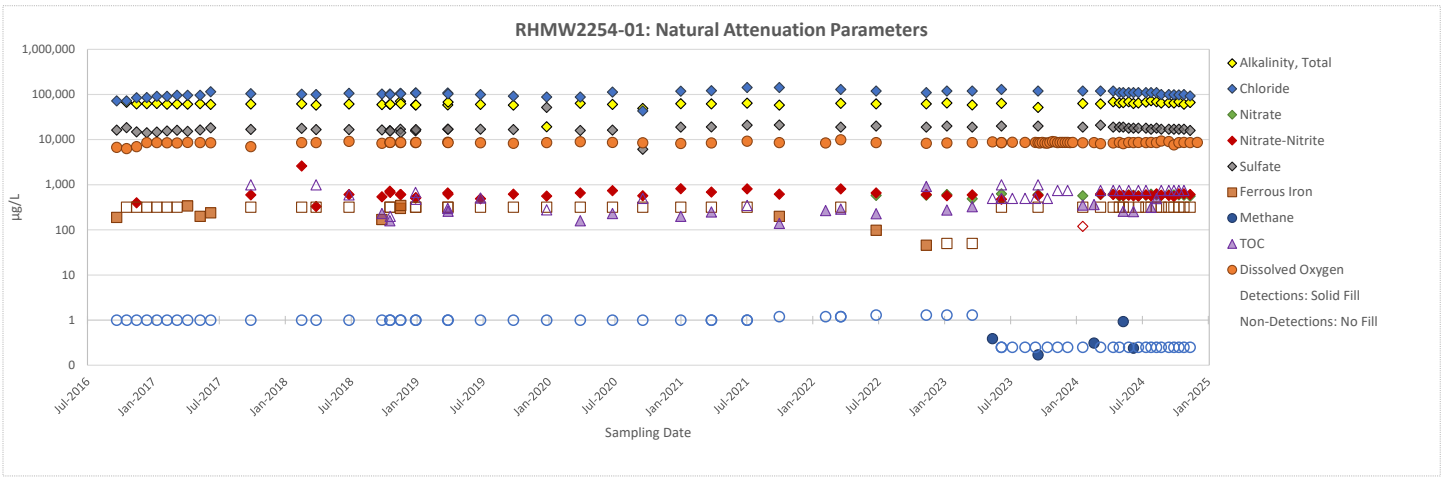




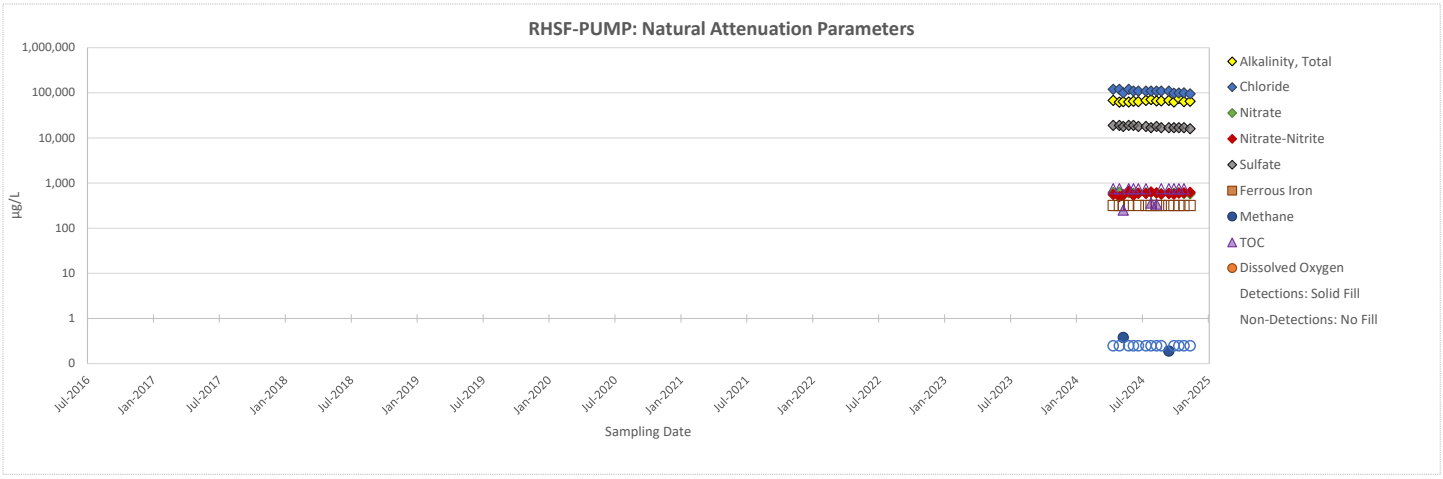
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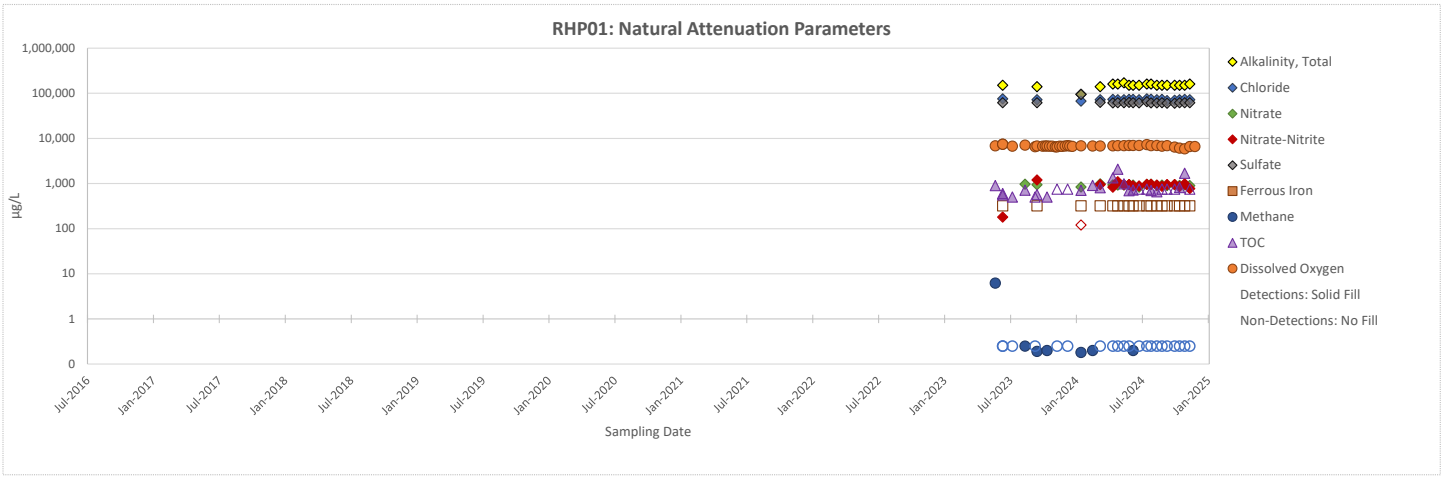


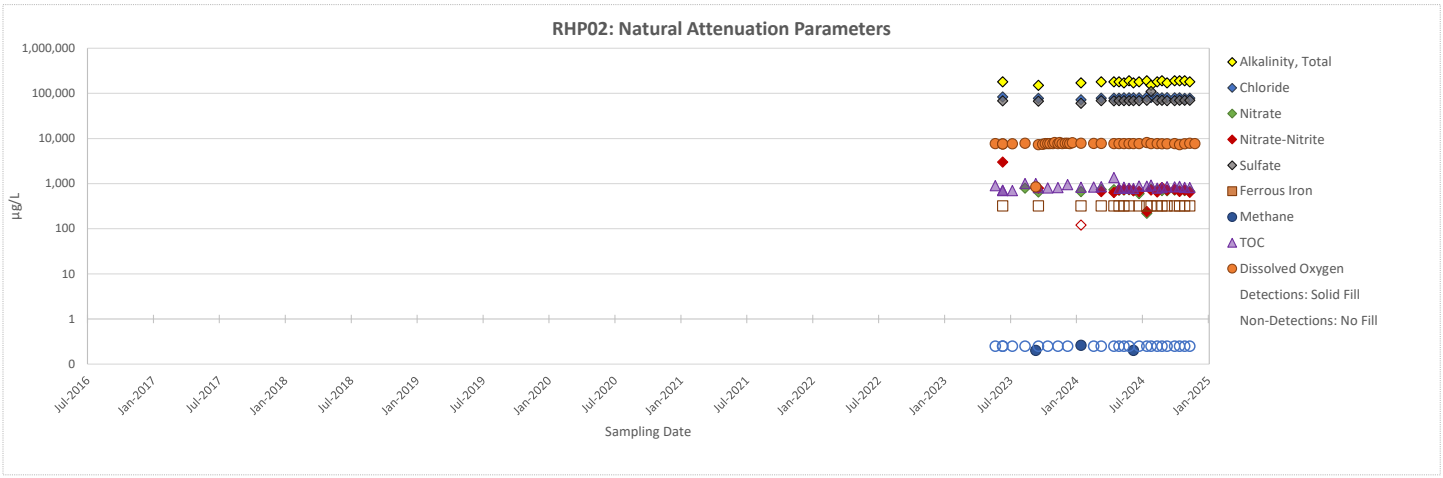


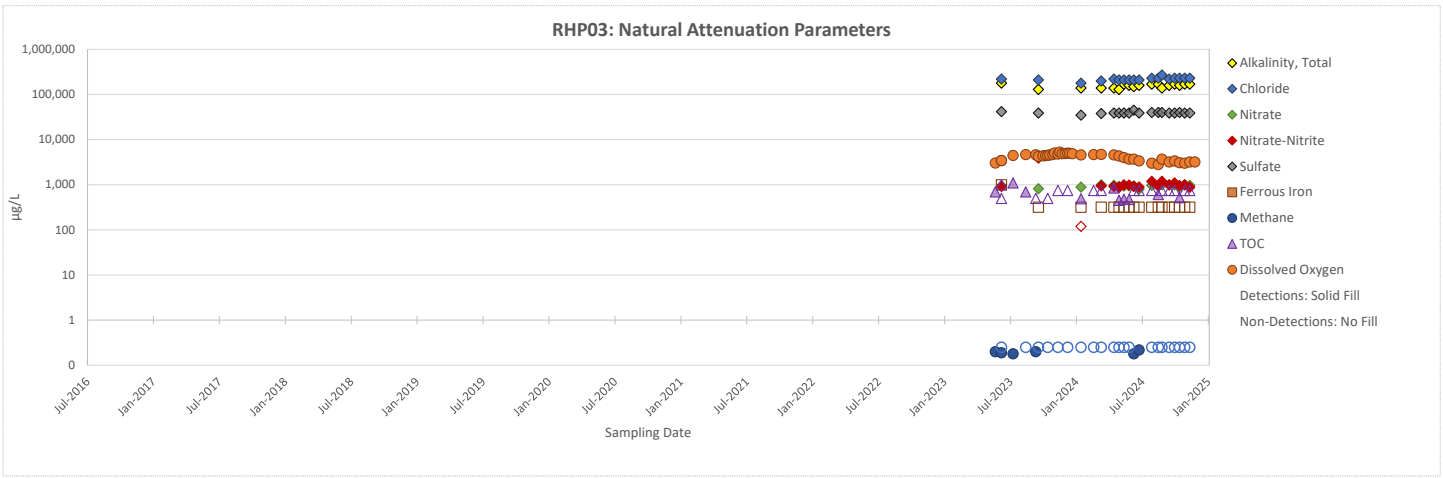
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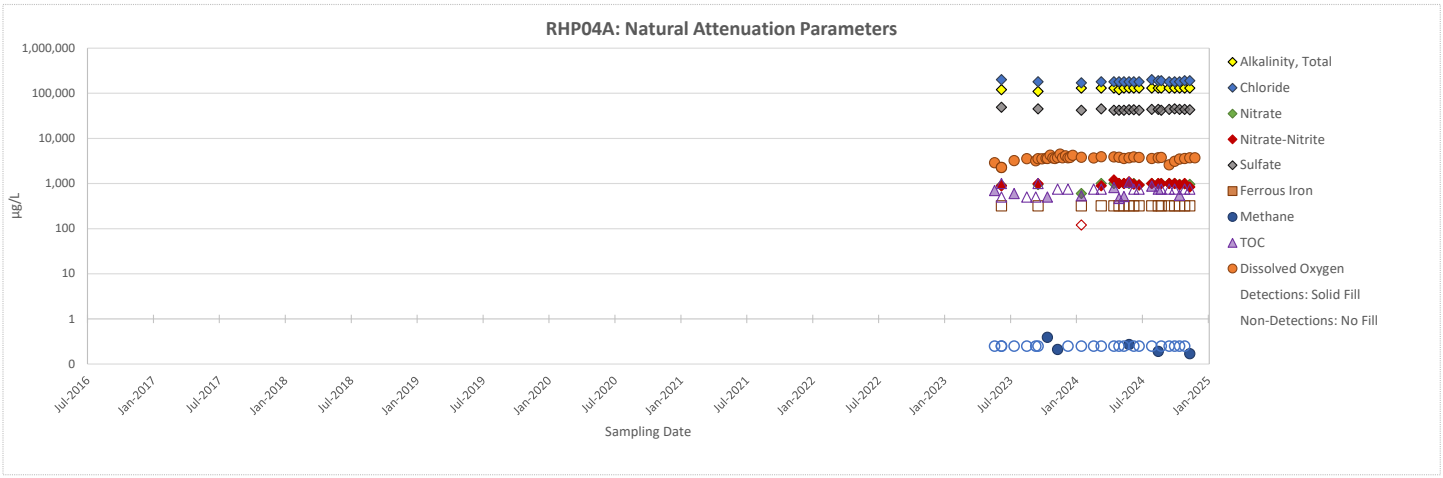
Note: See Data Legend

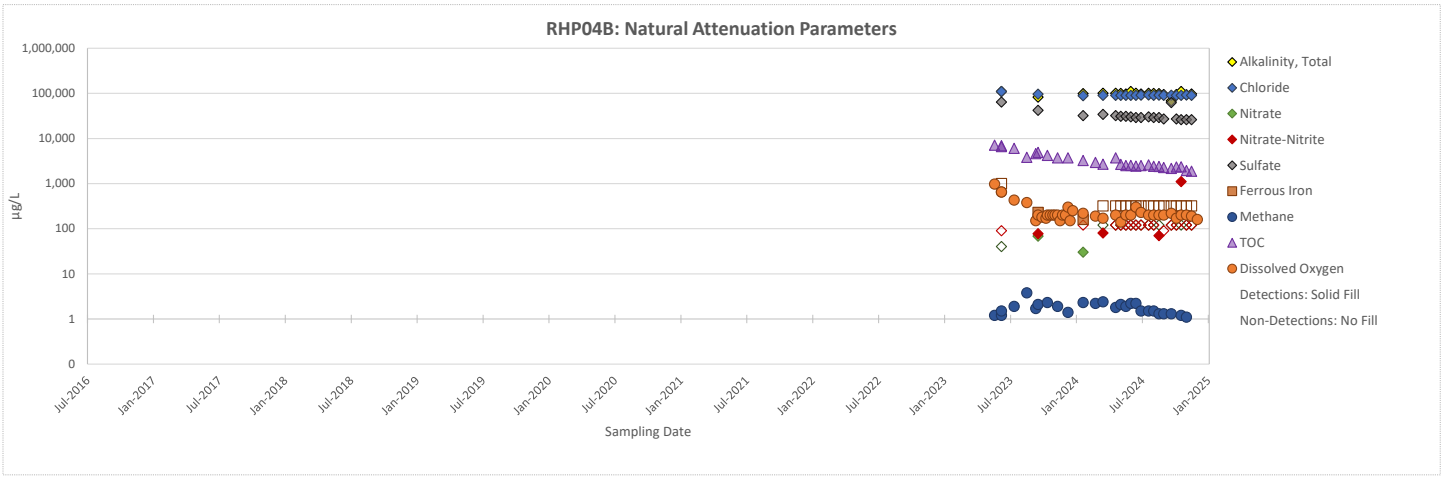


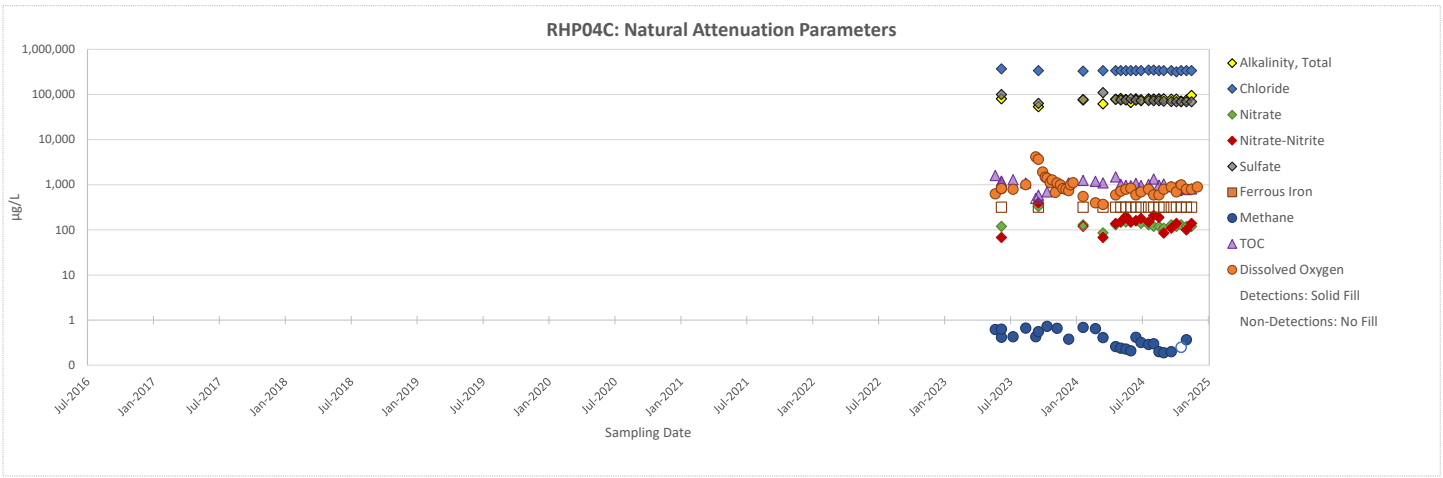




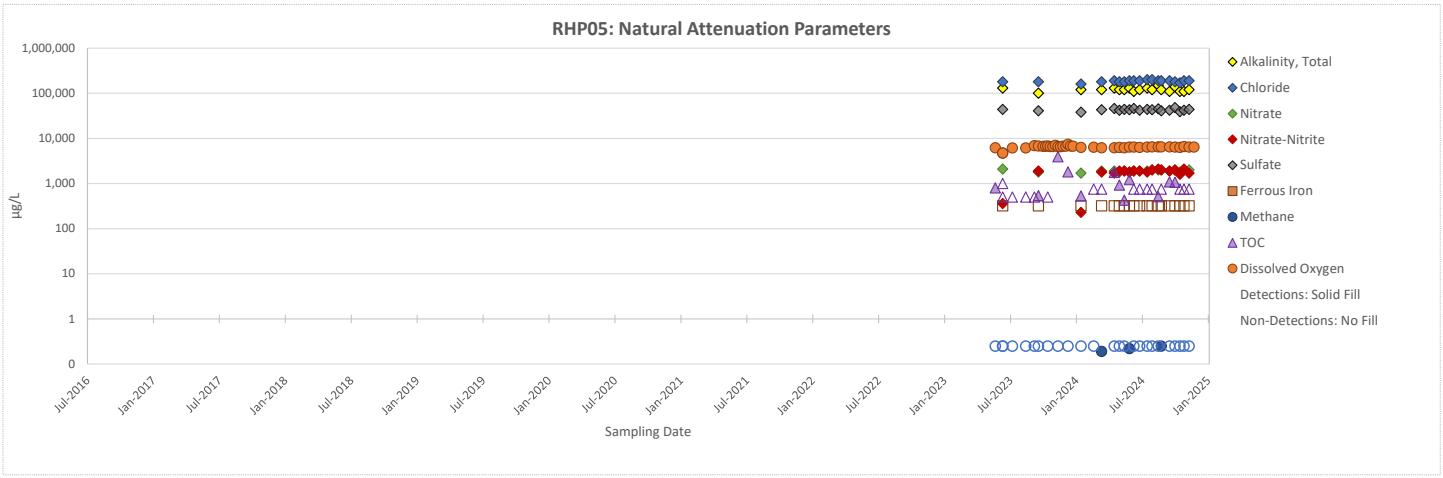
Note: See Data Legend

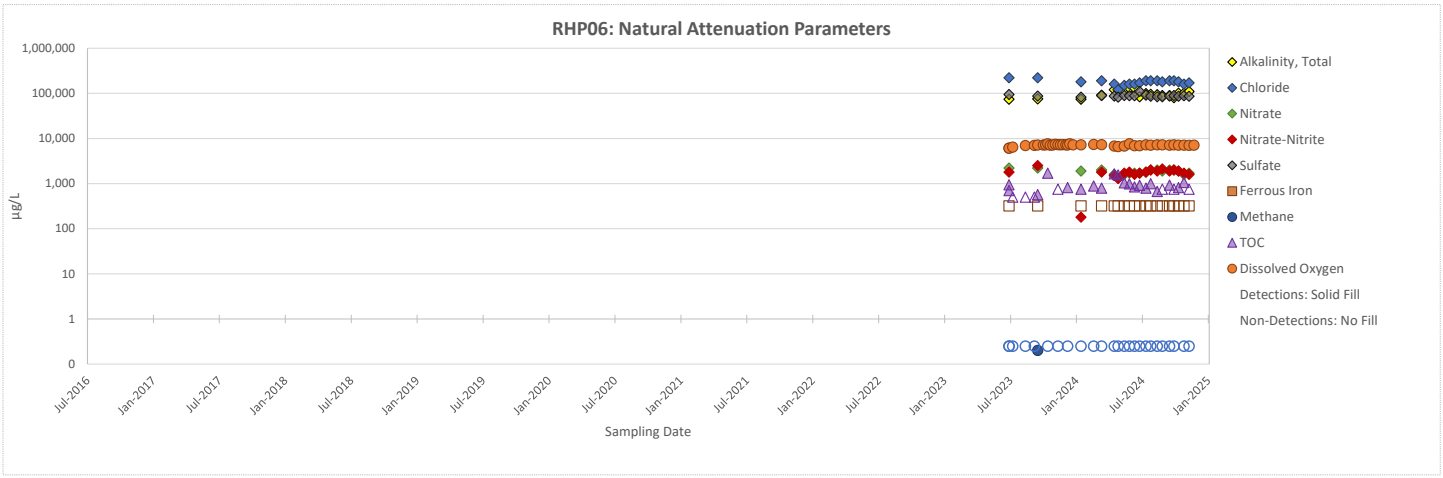


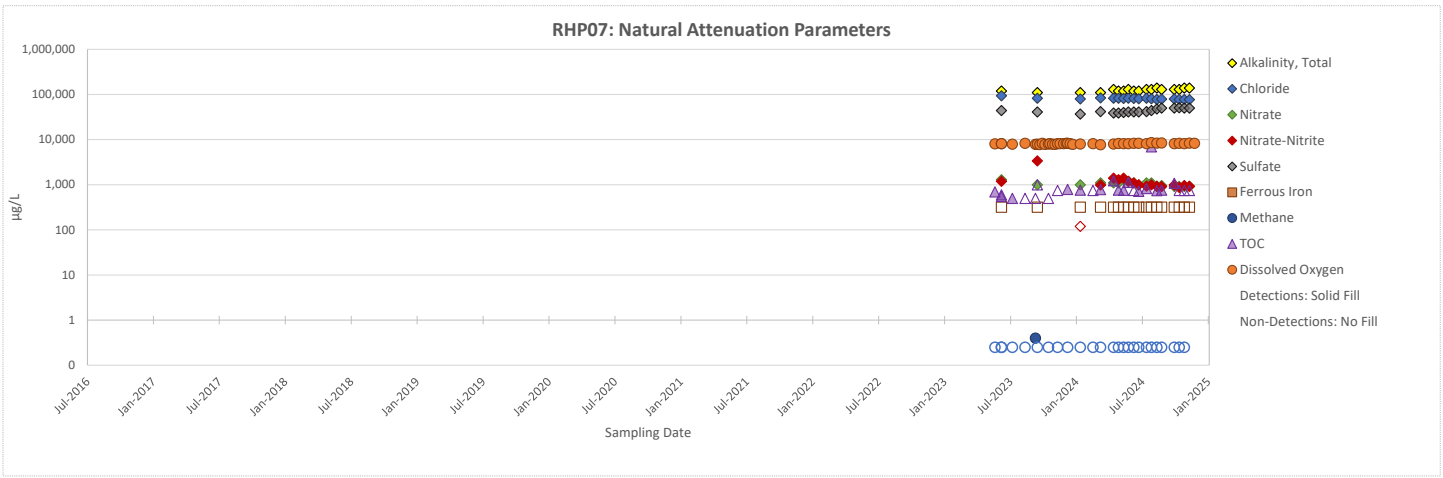




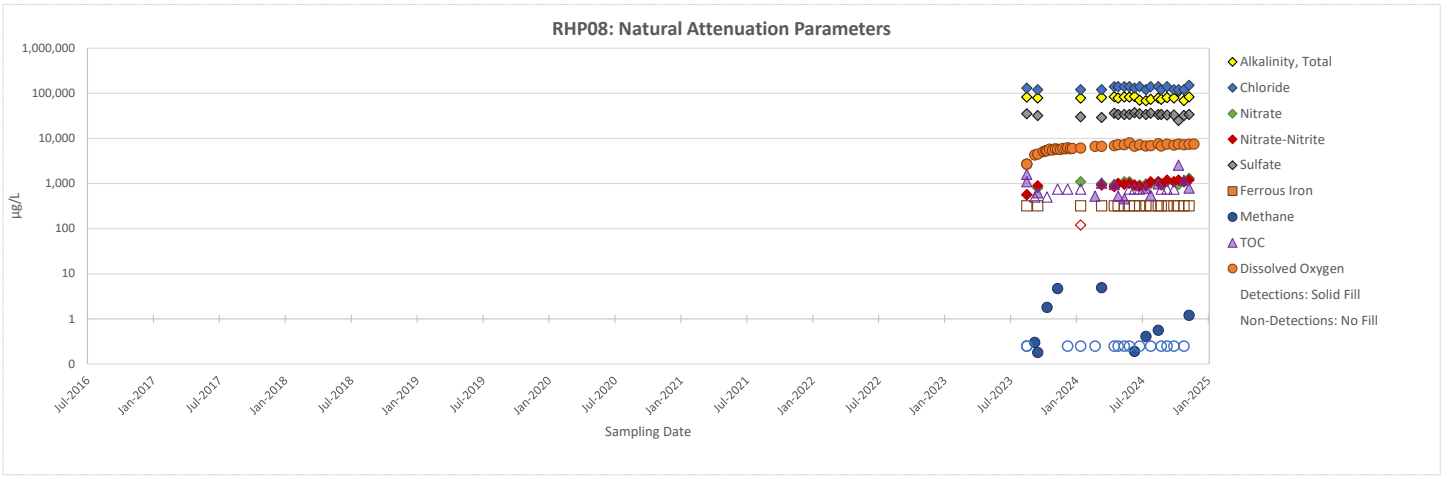
Note: See Data Legend

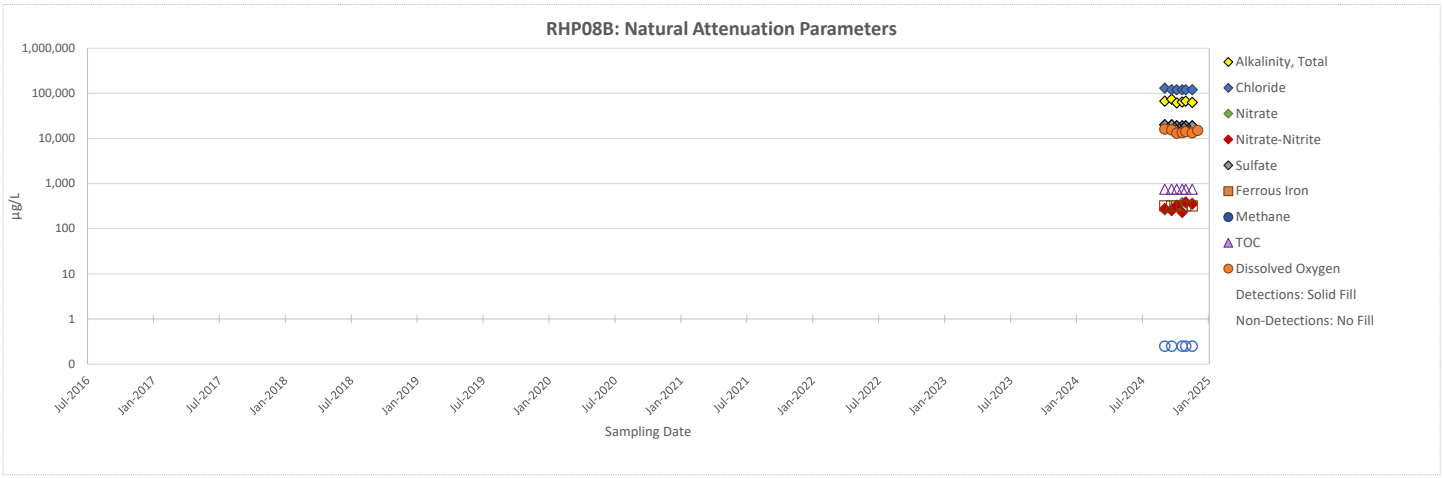


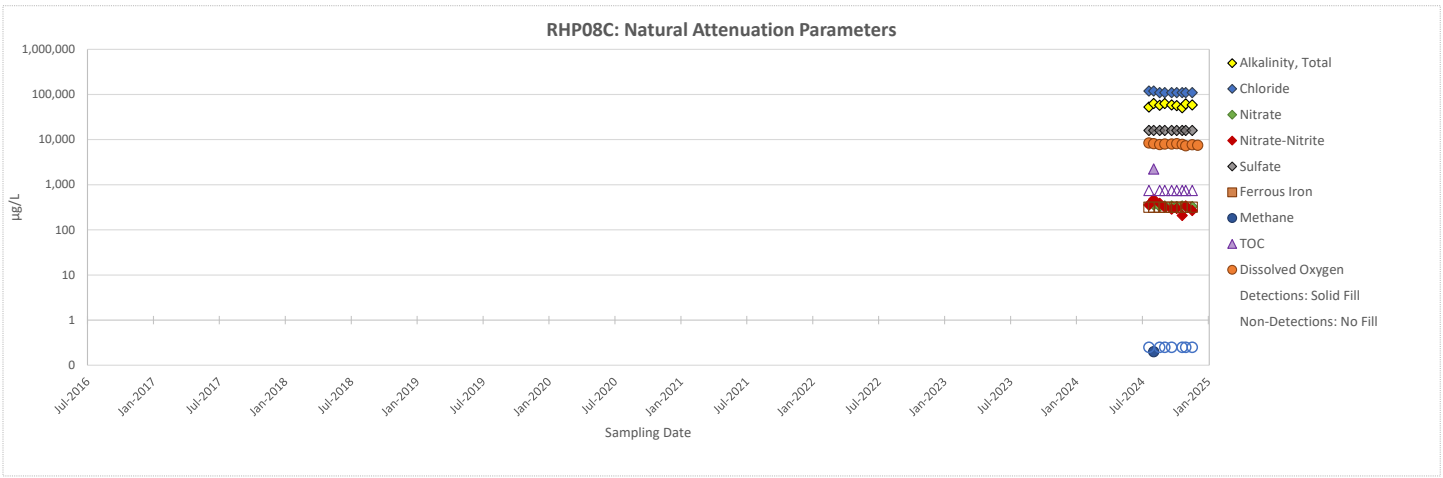




Note: See Data Legend







Note: See Data Legend

Appendix C – Index of Soil Vapor Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System at (b) (4) Appendix E provides database navigation tips.

Below-Tank Sampling Locations:

- Laboratory Report, SDG 515942, Level 4, September 2024
- Laboratory Report, SDG 517893, Level 4, October 2024
- Laboratory Report, SDG 520366, Level 4, November 2024
- Laboratory Report, SDG 522707, Level 4, December 2024

Appendix D – Index of Groundwater Analytical Data

Files listed in this appendix are available for download from the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System at (b) (4) Appendix E provides database navigation tips.

- Table D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
August 2024 Monthly & Quarter 3 Sampling							
NMW26	NMW26-WGN01B-2408B	FC18346	8/26/2024	(b) (4)	Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
NMW26	NMW26-WGN01LF-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHMW13-04	RHMW13-04-WGN01G-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHMW17	RHMW17-WGFD01B-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHMW17	RHMW17-WGFD01LF-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHMW17	RHMW17-WGN01B-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHMW17	RHMW17-WGN01LF-2408B	FC18346	8/26/2024		Laboratory Report, SDG FC18346, Level 2	Laboratory Report, SDG FC18346, Level 4	Data Validation Report, Level 2B, SDG FC18346
RHP08C	RHP08C-WGN01LF-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
RHP04C	RHP04C-WGN01LF-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
RHP04B	RHP04B-WGN01LF-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
NMW34	NMW34-WGN01LF-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
RHMW04	RHMW04-WGN01B-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
NMW34	NMW34-WGN01B-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
RHMW04	RHMW04-WGN01LF-2408B	FC18395	8/27/2024		Laboratory Report, SDG FC18395, Level 2, Revision 4	Laboratory Report, SDG FC18395, Level 4, Revision 4	Data Validation Report, Level 2B, SDG FC18395
OWDFMW08A	OWDFMW08A-WGN01LF-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
RHMW20	RHMW20-WGN01LF-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
RHMW20	RHMW20-WGN01B-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
OWDFMW03A	OWDFMW03A-WGN01LF-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
NMW25	NMW25-WGN01LF-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
NMW25	NMW25-WGN01B-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
NMW24	NMW24-WGN01LF-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
NMW24	NMW24-WGN01B-2408B	FC18439	8/28/2024		Laboratory Report, SDG FC18439, Level 2, Revision 2	Laboratory Report, SDG FC18439, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC18439
September 2024 Monthly & Quarter 3 Sampling							
RHMW10	RHMW10-WGN01B-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHMW10	RHMW10-WGN01LF-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHMW19	RHMW19-WGN01B-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHMW19	RHMW19-WGN01LF-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHP02	RHP02-WGN01B-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHP02	RHP02-WGN01LF-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHP06	RHP06-WGN01B-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
RHP06	RHP06-WGN01LF-2409A	FC18647	9/6/2024		Laboratory Report, SDG FC18647, Level 2, Revision 3	Laboratory Report, SDG FC18647, Level 4, Revision 3	Data Validation Report, Level 4, SDG FC18647, Revision
NMW26	NMW26-WGN01LF-2409A	1245258_Rev1	9/11/2024		Laboratory Report, SDG 1245258, Level 2, Revision 1	Laboratory Report, SDG 1245258, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG 1245258, Revision 1
NMW32	NMW32-WGN01LF-2409A	1245258_Rev1	9/11/2024		Laboratory Report, SDG 1245258, Level 2, Revision 1	Laboratory Report, SDG 1245258, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG 1245258, Revision 1
OWDFMW08A	OWDFMW08A-WGN01LF-2409A	1245258_Rev1	9/11/2024		Laboratory Report, SDG 1245258, Level 2, Revision 1	Laboratory Report, SDG 1245258, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG 1245258, Revision 1
RHP04B	RHP04B-WGN01LF-2409A	1245258_Rev1	9/11/2024		Laboratory Report, SDG 1245258, Level 2, Revision 1	Laboratory Report, SDG 1245258, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG 1245258, Revision 1
RHP04C	RHP04C-WGN01LF-2409A	1245258_Rev1	9/11/2024		Laboratory Report, SDG 1245258, Level 2, Revision 1	Laboratory Report, SDG 1245258, Level 4, Revision 2	Data Validation Report, Level S2BVEM, SDG 1245258, Revision 1
RHMW11-05	RHMW11-05-WGN01G-2409B	24I0192	9/18/2024		Laboratory Report, SDG 24I0192, Level 2	Laboratory Report, SDG 24I0192, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0192
RHMW05	RHMW05-WGN01LF-2409B	580-144019-1	9/18/2024		Laboratory Report, SDG 580-144019-1, Level 2	Laboratory Report, SDG 580-144019-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144019-1
RHMW11-05	RHMW11-05-WGN01G-2409B	580-144019-1	9/18/2024		Laboratory Report, SDG 580-144019-1, Level 2	Laboratory Report, SDG 580-144019-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144019-1
RHMW14-03	RHMW14-03-WGN01G-2409B	580-144019-1	9/18/2024		Laboratory Report, SDG 580-144019-1, Level 2	Laboratory Report, SDG 580-144019-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144019-1
RHP07	RHP07-WGN01LF-2409B	580-144019-1	9/18/2024		Laboratory Report, SDG 580-144019-1, Level 2	Laboratory Report, SDG 580-144019-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144019-1
RHMW06	RHMW06-WGN01LF-2409B	580-144063-1	9/19/2024		Laboratory Report, SDG 580-144063-1, Level 2	Laboratory Report, SDG 580-144063-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144063-1
RHMW16	RHMW16-WGN01LF-2409B	580-144063-1	9/19/2024		Laboratory Report, SDG 580-144063-1, Level 2	Laboratory Report, SDG 580-144063-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144063-1
RHP01	RHP01-WGN01LF-2409B	580-144063-1	9/19/2024		Laboratory Report, SDG 580-144063-1, Level 2	Laboratory Report, SDG 580-144063-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144063-1
RHP02	RHP02-WGN01LF-2409B	580-144063-1	9/19/2024		Laboratory Report, SDG 580-144063-1, Level 2	Laboratory Report, SDG 580-144063-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144063-1
RHP03	RHP03-WGN01LF-2409B	580-144063-1	9/19/2024		Laboratory Report, SDG 580-144063-1, Level 2	Laboratory Report, SDG 580-144063-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144063-1
RHP03	RHP03-WGN01B-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHP02	RHP02-WGN01LF-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHP02	RHP02-WGN01B-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHP01	RHP01-WGN01LF-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHP03	RHP03-WGN01LF-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHMW16	RHMW16-WGN01LF-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHMW06	RHMW06-WGN01LF-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHMW06	RHMW06-WGN01B-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHP01	RHP01-WGN01B-2409B	FC19003	9/19/2024		Laboratory Report, SDG FC19003 Level 2 Revision 3	Laboratory Report, SDG FC19003 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19003
RHMW04	RHMW04-WGN01LF-2409B	1245512	9/20/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
RHMW09	RHMW09-WGN01LF-2409B	1245512	9/20/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
RHP06	RHP06-WGN01LF-2409B	1245512	9/20/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
RHMW04	RHMW04-WGN01LF-2409B	24I0192	9/20/2024		Laboratory Report, SDG 24I0192, Level 2	Laboratory Report, SDG 24I0192, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0192
RHMW09	RHMW09-WGN01LF-2409B	24I0192	9/20/2024		Laboratory Report, SDG 24I0192, Level 2	Laboratory Report, SDG 24I0192, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0192
RHP06	RHP06-WGN01LF-2409B	24I0192	9/20/2024		Laboratory Report, SDG 24I0192, Level 2	Laboratory Report, SDG 24I0192, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0192
RHP06	RHP06-WGN01LF-2409B	580-144075-1	9/20/2024		Laboratory Report, SDG 580-144075-1, Level 2	Laboratory Report, SDG 580-144075-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144075-1
RHMW04	RHMW04-WGN01LF-2409B	580-144075-1	9/20/2024		Laboratory Report, SDG 580-144075-1, Level 2	Laboratory Report, SDG 580-144075-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144075-1
RHMW09	RHMW09-WGN01LF-2409B	580-144075-1	9/20/2024		Laboratory Report, SDG 580-144075-1, Level 2	Laboratory Report, SDG 580-144075-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144075-1
NMW26	NMW26-WGN01LF-2409B	1245512	9/23/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
NMW34	NMW34-WGN01LF-2409B	1245512	9/23/2024	(b) (4)	Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
RHMW13-04	RHMW13-04-WGN01G-2409B	1245512	9/23/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
RHMW17	RHMW17-WGN01LF-2409B	1245512	9/23/2024		Laboratory Report, SDG 1245512, Level 2	Laboratory Report, SDG 1245512, Level 4	Data Validation Report, Level S2BVEM, SDG 1245512
NMW34	NMW34-WGN01LF-2409B	24I0201	9/23/2024		Laboratory Report, SDG 24I0201, Level 2	Laboratory Report, SDG 24I0201, Level 4	Data Validation Report, Level S4VEM, SDG 24I0201
RHMW13-04	RHMW13-04-WGN01G-2409B	24I0201	9/23/2024		Laboratory Report, SDG 24I0201, Level 2	Laboratory Report, SDG 24I0201, Level 4	Data Validation Report, Level S4VEM, SDG 24I0201
RHMW17	RHMW17-WGN01LF-2409B	24I0201	9/23/2024		Laboratory Report, SDG 24I0201, Level 2	Laboratory Report, SDG 24I0201, Level 4	Data Validation Report, Level S4VEM, SDG 24I0201
NMW26	NMW26-WGN01LF-2409B	24I0217	9/23/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
RHMW17	RHMW17-WGN01LF-2409B	580-144156-1	9/23/2024		Laboratory Report, SDG 580-144156-1, Level 2	Laboratory Report, SDG 580-144156-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144156-1
RHMW13-04	RHMW13-04-WGN01G-2409B	580-144156-1	9/23/2024		Laboratory Report, SDG 580-144156-1, Level 2	Laboratory Report, SDG 580-144156-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144156-1
NMW34	NMW34-WGN01LF-2409B	580-144156-1	9/23/2024		Laboratory Report, SDG 580-144156-1, Level 2	Laboratory Report, SDG 580-144156-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144156-1
NMW26	NMW26-WGN01LF-2409B	580-144156-1	9/23/2024		Laboratory Report, SDG 580-144156-1, Level 2	Laboratory Report, SDG 580-144156-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144156-1
RHMW17	RHMW17-WGN01B-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
RHMW17	RHMW17-WGFD01LF-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
RHMW17	RHMW17-WGFD01B-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
RHMW13-04	RHMW13-04-WGN01G-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
RHMW17	RHMW17-WGN01LF-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
NMW34	NMW34-WGN01B-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
NMW26	NMW26-WGN01LF-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
NMW26	NMW26-WGN01B-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
NMW34	NMW34-WGN01LF-2409B	FC19039	9/23/2024		Laboratory Report, SDG FC19039 Level 2 Revision 2	Laboratory Report, SDG FC19039 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC19039
NMW24	NMW24-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
NMW25	NMW25-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
OWDFMW03A	OWDFMW03A-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
OWDFMW08A	OWDFMW08A-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
RHMW20	RHMW20-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
RHP04B	RHP04B-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
RHP04C	RHP04C-WGN01LF-2409B	1245554	9/24/2024		Laboratory Report, SDG 1245554, Level 2	Laboratory Report, SDG 1245554, Level 4	Data Validation Report, Level S2BVEM, SDG 1245554
RHP04B	RHP04B-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
RHP04C	RHP04C-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
RHMW20	RHMW20-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
NMW24	NMW24-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
OWDFMW03A	OWDFMW03A-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
NMW25	NMW25-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
OWDFMW08A	OWDFMW08A-WGN01LF-2409B	24I0217	9/24/2024		Laboratory Report, SDG 24I0217, Level 2	Laboratory Report, SDG 24I0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0217
NMW24	NMW24-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
NMW25	NMW25-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
OWDFMW03A	OWDFMW03A-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
OWDFMW08A	OWDFMW08A-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
RHMW20	RHMW20-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
RHP04B	RHP04B-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
RHP04C	RHP04C-WGN01LF-2409B	580-144160-1	9/24/2024		Laboratory Report, SDG 580-144160-1, Level 2, Revision 2	Laboratory Report, SDG 580-144160-1, Level 4, Revision 2	Data Validation Report, Level S4VEM, SDG 580-144160-1
RHMW20	RHMW20-WGN01B-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHP04C	RHP04C-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHP04B	RHP04B-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW20	RHMW20-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
OWDFMW08A	OWDFMW08A-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW24	NMW24-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW25	NMW25-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW25	NMW25-WGN01B-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW24	NMW24-WGN01B-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
OWDFMW03A	OWDFMW03A-WGN01LF-2409B	FC19169	9/24/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW33	NMW33-WGN01LF-2409B	1245584	9/25/2024		Laboratory Report, SDG 1245584, Level 2	Laboratory Report, SDG 1245584, Level 4	Data Validation Report, Level S2BVEM, SDG 1245584
RHMW18	RHMW18-WGN01LF-2409B	1245584	9/25/2024		Laboratory Report, SDG 1245584, Level 2	Laboratory Report, SDG 1245584, Level 4	Data Validation Report, Level S2BVEM, SDG 1245584
NMW33	NMW33-WGN01LF-2409B	24I0233	9/25/2024		Laboratory Report, SDG 24I0233, Level 2	Laboratory Report, SDG 24I0233, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0233
RHMW18	RHMW18-WGN01LF-2409B	24I0233	9/25/2024		Laboratory Report, SDG 24I0233, Level 2	Laboratory Report, SDG 24I0233, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0233
NMW33	NMW33-WGN01LF-2409B	580-144202-1	9/25/2024		Laboratory Report, SDG 580-144202-1, Level 2	Laboratory Report, SDG 580-144202-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144202-1
RHMW18	RHMW18-WGN01LF-2409B	580-144202-1	9/25/2024		Laboratory Report, SDG 580-144202-1, Level 2	Laboratory Report, SDG 580-144202-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144202-1
NMW33	NMW33-WGN01B-2409B	FC19169	9/25/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW33	NMW33-WGN01LF-2409B	FC19169	9/25/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW18	RHMW18-WGN01B-2409B	FC19169	9/25/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW18	RHMW18-WGN01LF-2409B	FC19169	9/25/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW03	RHMW03-WGN01LF-2409B	1245634	9/26/2024		Laboratory Report, SDG 1245634, Level 2	Laboratory Report, SDG 1245634, Level 4	Data Validation Report, Level S2BVEM, SDG 1245634
RHMW02	RHMW02-WGN01LF-2409B	1245634	9/26/2024		Laboratory Report, SDG 1245634, Level 2	Laboratory Report, SDG 1245634, Level 4	Data Validation Report, Level S2BVEM, SDG 1245634
NMW30	NMW30-WGN01LF-2409B	1245634	9/26/2024		Laboratory Report, SDG 1245634, Level 2	Laboratory Report, SDG 1245634, Level 4	Data Validation Report, Level S2BVEM, SDG 1245634
NMW32	NMW32-WGN01LF-2409B	1245634	9/26/2024		Laboratory Report, SDG 1245634, Level 2	Laboratory Report, SDG 1245634, Level 4	Data Validation Report, Level S2BVEM, SDG 1245634
NMW30	NMW30-WGN01LF-2409B	24I0245	9/26/2024		Laboratory Report, SDG 24I0245, Level 2	Laboratory Report, SDG 24I0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0245

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
NMW32	NMW32-WGN01LF-2409B	24I0245	9/26/2024	(b) (4)	Laboratory Report, SDG 24I0245, Level 2	Laboratory Report, SDG 24I0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0245
RHMW02	RHMW02-WGN01LF-2409B	24I0245	9/26/2024		Laboratory Report, SDG 24I0245, Level 2	Laboratory Report, SDG 24I0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0245
RHMW03	RHMW03-WGN01LF-2409B	24I0245	9/26/2024		Laboratory Report, SDG 24I0245, Level 2	Laboratory Report, SDG 24I0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0245
NMW30	NMW30-WGN01LF-2409B	580-144265-1	9/26/2024		Laboratory Report, SDG 580-144265-1, Level 2, Revision 1	Laboratory Report, SDG 580-144265-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144265-1
NMW32	NMW32-WGN01LF-2409B	580-144265-1	9/26/2024		Laboratory Report, SDG 580-144265-1, Level 2, Revision 1	Laboratory Report, SDG 580-144265-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144265-1
RHMW02	RHMW02-WGN01LF-2409B	580-144265-1	9/26/2024		Laboratory Report, SDG 580-144265-1, Level 2, Revision 1	Laboratory Report, SDG 580-144265-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144265-1
RHMW03	RHMW03-WGN01LF-2409B	580-144265-1	9/26/2024		Laboratory Report, SDG 580-144265-1, Level 2, Revision 1	Laboratory Report, SDG 580-144265-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144265-1
RHMW02	RHMW02-WGN01B-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW03	RHMW03-WGN01B-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW02	RHMW02-WGN01LF-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW02	RHMW02-WGFD01LF-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW03	RHMW03-WGN01LF-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW32	NMW32-WGN01LF-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW32	NMW32-WGN01B-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW30	NMW30-WGN01LF-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
NMW30	NMW30-WGN01B-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHMW02	RHMW02-WGFD01B-2409B	FC19169	9/26/2024		Laboratory Report, SDG FC19169 Level 2 Revision 3	Laboratory Report, SDG FC19169 Level 4 Revision 3	Data Validation Report, Level 2B, SDG FC19169
RHP08C	RHP08C-WGN01LF-2409B	1245703	9/27/2024		Laboratory Report, SDG 1245703, Level 2	Laboratory Report, SDG 1245703, Level 4	Data Validation Report, Level S2BVEM, SDG 1245703
RHP08B	RHP08B-WGN01LF-2409B	1245703	9/27/2024		Laboratory Report, SDG 1245703, Level 2	Laboratory Report, SDG 1245703, Level 4	Data Validation Report, Level S2BVEM, SDG 1245703
RHMW12A	RHMW12A-WGN01LF-2409B	1245703	9/27/2024		Laboratory Report, SDG 1245703, Level 2	Laboratory Report, SDG 1245703, Level 4	Data Validation Report, Level S2BVEM, SDG 1245703
HDMW2253-03	HDMW2253-03-WGN01LF-2409B	1245703	9/27/2024		Laboratory Report, SDG 1245703, Level 2	Laboratory Report, SDG 1245703, Level 4	Data Validation Report, Level S2BVEM, SDG 1245703
HDMW2253-03	HDMW2253-03-WGN01LF-2409B	24I0256	9/27/2024		Laboratory Report, SDG 24I0256, Level 2	Laboratory Report, SDG 24I0256, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0256
RHMW12A	RHMW12A-WGN01LF-2409B	24I0256	9/27/2024		Laboratory Report, SDG 24I0256, Level 2	Laboratory Report, SDG 24I0256, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0256
RHP08B	RHP08B-WGN01LF-2409B	24I0256	9/27/2024		Laboratory Report, SDG 24I0256, Level 2	Laboratory Report, SDG 24I0256, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0256
RHP08C	RHP08C-WGN01LF-2409B	24I0256	9/27/2024		Laboratory Report, SDG 24I0256, Level 2	Laboratory Report, SDG 24I0256, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0256
RHP08C	RHP08C-WGN01LF-2409B	580-144292-1	9/27/2024		Laboratory Report, SDG 580-144292-1, Level 2	Laboratory Report, SDG 580-144292-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144292-1
RHP08B	RHP08B-WGN01LF-2409B	580-144292-1	9/27/2024		Laboratory Report, SDG 580-144292-1, Level 2	Laboratory Report, SDG 580-144292-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144292-1
HDMW2253-03	HDMW2253-03-WGN01LF-2409B	580-144292-1	9/27/2024		Laboratory Report, SDG 580-144292-1, Level 2	Laboratory Report, SDG 580-144292-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144292-1
RHMW12A	RHMW12A-WGN01LF-2409B	580-144292-1	9/27/2024		Laboratory Report, SDG 580-144292-1, Level 2	Laboratory Report, SDG 580-144292-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144292-1
RHP08B	RHP08B-WGN01LF-2409B	B24092589	9/27/2024		Laboratory Report, SDG B24092589, Level 2	Laboratory Report, SDG B24092589, Level 4	Data Validation Report, Level S2BVEM, SDG B24092589
HDMW2253-03	HDMW2253-03-WGN01LF-2409B	FC19168	9/27/2024		Laboratory Report, SDG FC19168 Level 2 Revision 1	Laboratory Report, SDG FC19168 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19168
RHMW12A	RHMW12A-WGN01LF-2409B	FC19168	9/27/2024		Laboratory Report, SDG FC19168 Level 2 Revision 1	Laboratory Report, SDG FC19168 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19168
RHP08B	RHP08B-WGN01LF-2409B	FC19168	9/27/2024		Laboratory Report, SDG FC19168 Level 2 Revision 1	Laboratory Report, SDG FC19168 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19168
RHP08C	RHP08C-WGN01LF-2409B	FC19168	9/27/2024		Laboratory Report, SDG FC19168 Level 2 Revision 1	Laboratory Report, SDG FC19168 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19168
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RHMW08	RHMW08-WGN01LF-2410A	1245728	10/1/2024	(b) (4)	Laboratory Report, SDG 1245728, Level 2	Laboratory Report, SDG 1245728, Level 4	Data Validation Report, Level S2BVEM, SDG 1245728
RHMW09	RHMW09-WGN01LF-2410A	1245728	10/1/2024		Laboratory Report, SDG 1245728, Level 2	Laboratory Report, SDG 1245728, Level 4	Data Validation Report, Level S2BVEM, SDG 1245728
RHMW09	RHMW09-WGN01LF-2410A	24J0024	10/1/2024		Laboratory Report, SDG 24J0024, Level 2	Laboratory Report, SDG 24J0024, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0024
RHMW08	RHMW08-WGN01LF-2410A	24J0024	10/1/2024		Laboratory Report, SDG 24J0024, Level 2	Laboratory Report, SDG 24J0024, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0024
RHMW08	RHMW08-WGN01LF-2410A	580-144383-1	10/1/2024		Laboratory Report, SDG 580-144383-1, Level 2	Laboratory Report, SDG 580-144383-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144383-1
RHMW09	RHMW09-WGN01LF-2410A	580-144383-1	10/1/2024		Laboratory Report, SDG 580-144383-1, Level 2	Laboratory Report, SDG 580-144383-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144383-1
RHMW08	RHMW08-WGN01B-2410A	FC19288	10/1/2024		Laboratory Report, SDG FC19288 Level 2 Revision 1	Laboratory Report, SDG FC19288 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19288
RHMW08	RHMW08-WGN01LF-2410A	FC19288	10/1/2024		Laboratory Report, SDG FC19288 Level 2 Revision 1	Laboratory Report, SDG FC19288 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19288
RHMW09	RHMW09-WGN01B-2410A	FC19288	10/1/2024		Laboratory Report, SDG FC19288 Level 2 Revision 1	Laboratory Report, SDG FC19288 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19288
RHMW09	RHMW09-WGN01LF-2410A	FC19288	10/1/2024		Laboratory Report, SDG FC19288 Level 2 Revision 1	Laboratory Report, SDG FC19288 Level 4 Revision 1	Data Validation Report, Level 2B, SDG FC19288
RHP01	RHP01-WGN01LF-2410A	1245801	10/3/2024		Laboratory Report, SDG 1245801, Level 2	Laboratory Report, SDG 1245801, Level 4	Data Validation Report, Level S2BVEM, SDG 1245801
RHP02	RHP02-WGN01LF-2410A	1245801	10/3/2024		Laboratory Report, SDG 1245801, Level 2	Laboratory Report, SDG 1245801, Level 4	Data Validation Report, Level S2BVEM, SDG 1245801
RHP08	RHP08-WGN01LF-2410A	1245801	10/3/2024		Laboratory Report, SDG 1245801, Level 2	Laboratory Report, SDG 1245801, Level 4	Data Validation Report, Level S2BVEM, SDG 1245801
RHP01	RHP01-WGN01LF-2410A	24J0064	10/3/2024		Laboratory Report, SDG 24J0064, Level 2	Laboratory Report, SDG 24J0064, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0064
RHP02	RHP02-WGN01LF-2410A	24J0064	10/3/2024		Laboratory Report, SDG 24J0064, Level 2	Laboratory Report, SDG 24J0064, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0064
RHP08	RHP08-WGN01LF-2410A	24J0064	10/3/2024		Laboratory Report, SDG 24J0064, Level 2	Laboratory Report, SDG 24J0064, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0064
RHP02	RHP02-WGN01LF-2410A	580-144479-1	10/3/2024		Laboratory Report, SDG 580-144479-1, Level 2	Laboratory Report, SDG 580-144479-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144479-1
RHP01	RHP01-WGN01LF-2410A	580-144479-1	10/3/2024		Laboratory Report, SDG 580-144479-1, Level 2	Laboratory Report, SDG 580-144479-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144479-1
RHP08	RHP08-WGN01LF-2410A	580-144479-1	10/3/2024		Laboratory Report, SDG 580-144479-1, Level 2	Laboratory Report, SDG 580-144479-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144479-1
RHP01	RHP01-WGN01LF-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP08	RHP08-WGN01B-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP08	RHP08-WGN01LF-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP08	RHP08-WGFD01LF-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP01	RHP01-WGN01B-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP02	RHP02-WGN01LF-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP02	RHP02-WGN01B-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHP08	RHP08-WGFD01B-2410A	FC19366	10/3/2024		Laboratory Report, SDG FC19366, Level 2, Revision 2	Laboratory Report, SDG FC19366, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC19366
RHMW02	RHMW02-WGN01LF-2410A	1245891	10/7/2024		Laboratory Report, SDG 1245891, Level 2, Revision 1	Laboratory Report, SDG 1245891, Level 4	Data Validation Report, Level S2BVEM, SDG 1245891
RHMW15-05	RHMW15-05-WGN01G-2410A	1245891	10/7/2024		Laboratory Report, SDG 1245891, Level 2, Revision 1	Laboratory Report, SDG 1245891, Level 4	Data Validation Report, Level S2BVEM, SDG 1245891
RHMW21	RHMW21-WGN01LF-2410A	1245891	10/7/2024		Laboratory Report, SDG 1245891, Level 2, Revision 1	Laboratory Report, SDG 1245891, Level 4	Data Validation Report, Level S2BVEM, SDG 1245891
RHMW02	RHMW02-WGN01LF-2410A	24J0092	10/7/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW15-05	RHMW15-05-WGN01G-2410A	24J0092	10/7/2024	(b) (4)	Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW21	RHMW21-WGN01LF-2410A	24J0092	10/7/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW02	RHMW02-WGN01LF-2410A	580-144598-1	10/7/2024		Laboratory Report, SDG 580-144598-1, Level 2, Revision 1	Laboratory Report, SDG 580-144598-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144598-1
RHMW15-05	RHMW15-05-WGN01G-2410A	580-144598-1	10/7/2024		Laboratory Report, SDG 580-144598-1, Level 2, Revision 1	Laboratory Report, SDG 580-144598-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144598-1
RHMW21	RHMW21-WGN01LF-2410A	580-144598-1	10/7/2024		Laboratory Report, SDG 580-144598-1, Level 2, Revision 1	Laboratory Report, SDG 580-144598-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-144598-1
RHMW21	RHMW21-WGN01LF-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW21	RHMW21-WGN01B-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW21	RHMW21-WGFD01LF-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW21	RHMW21-WGFD01B-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW02	RHMW02-WGN01LF-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW02	RHMW02-WGN01B-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW02	RHMW02-WGFD01LF-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW02	RHMW02-WGFD01B-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW15-05	RHMW15-05-WGN01G-2410A	FC19455	10/7/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW03	RHMW03-WGN01LF-2410A	1245918	10/8/2024		Laboratory Report, SDG 1245918, Level 2	Laboratory Report, SDG 1245918, Level 4	Data Validation Report, Level S4VEM, SDG 1245918
RHMW11-05	RHMW11-05-WGN01G-2410A	1245918	10/8/2024		Laboratory Report, SDG 1245918, Level 2	Laboratory Report, SDG 1245918, Level 4	Data Validation Report, Level S4VEM, SDG 1245918
RHMW14-03	RHMW14-03-WGN01G-2410A	1245918	10/8/2024		Laboratory Report, SDG 1245918, Level 2	Laboratory Report, SDG 1245918, Level 4	Data Validation Report, Level S4VEM, SDG 1245918
RHMW2254-01	RHMW2254-01-WGN01LF-2410A	1245918	10/8/2024		Laboratory Report, SDG 1245918, Level 2	Laboratory Report, SDG 1245918, Level 4	Data Validation Report, Level S4VEM, SDG 1245918
RHSF-PUMP	RHSF-PUMP-WGN01G-2410A	1245918	10/8/2024		Laboratory Report, SDG 1245918, Level 2	Laboratory Report, SDG 1245918, Level 4	Data Validation Report, Level S4VEM, SDG 1245918
RHSF-PUMP	RHSF-PUMP-WGN01G-2410A	24J0092	10/8/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW03	RHMW03-WGN01LF-2410A	24J0092	10/8/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW14-03	RHMW14-03-WGN01G-2410A	24J0092	10/8/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW2254-01	RHMW2254-01-WGN01LF-2410A	24J0092	10/8/2024		Laboratory Report, SDG 24J0092, Level 2	Laboratory Report, SDG 24J0092, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0092
RHMW11-05	RHMW11-05-WGN01G-2410A	24J0107	10/8/2024		Laboratory Report, SDG 24J0107, Level 2	Laboratory Report, SDG 24J0107, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0107
RHSF-PUMP	RHSF-PUMP-WGN01G-2410A	580-144652-1	10/8/2024		Laboratory Report, SDG 580-144652-1, Level 2, Revision 3	Laboratory Report, SDG 580-144652-1, Level 4, Revision 3	Data Validation Report, Level S4VEM, SDG 580-144652-1
RHMW14-03	RHMW14-03-WGN01G-2410A	580-144652-1	10/8/2024		Laboratory Report, SDG 580-144652-1, Level 2, Revision 3	Laboratory Report, SDG 580-144652-1, Level 4, Revision 3	Data Validation Report, Level S4VEM, SDG 580-144652-1
RHMW2254-01	RHMW2254-01-WGN01LF-2410A	580-144652-1	10/8/2024		Laboratory Report, SDG 580-144652-1, Level 2, Revision 3	Laboratory Report, SDG 580-144652-1, Level 4, Revision 3	Data Validation Report, Level S4VEM, SDG 580-144652-1
RHMW03	RHMW03-WGN01LF-2410A	580-144652-1	10/8/2024		Laboratory Report, SDG 580-144652-1, Level 2, Revision 3	Laboratory Report, SDG 580-144652-1, Level 4, Revision 3	Data Validation Report, Level S4VEM, SDG 580-144652-1
RHMW11-05	RHMW11-05-WGN01G-2410A	580-144652-1	10/8/2024		Laboratory Report, SDG 580-144652-1, Level 2, Revision 3	Laboratory Report, SDG 580-144652-1, Level 4, Revision 3	Data Validation Report, Level S4VEM, SDG 580-144652-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW03	RHMW03-WGN01B-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW03	RHMW03-WGN01LF-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW11-05	RHMW11-05-WGN01G-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW14-03	RHMW14-03-WGN01G-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW2254-01	RHMW2254-01-WGN01B-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW2254-01	RHMW2254-01-WGN01LF-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHSF-PUMP	RHSF-PUMP-WGFD01G-2410A	FC19455	10/8/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
NMW27	NMW27-WGN01LF-2410A	1245952	10/9/2024		Laboratory Report, SDG 1245952, Level 2	Laboratory Report, SDG 1245952, Level 4	Data Validation Report, Level S2BVEM, SDG 1245952
RHP03	RHP03-WGN01LF-2410A	1245952	10/9/2024		Laboratory Report, SDG 1245952, Level 2	Laboratory Report, SDG 1245952, Level 4	Data Validation Report, Level S2BVEM, SDG 1245952
RHP04A	RHP04A-WGN01LF-2410A	1245952	10/9/2024		Laboratory Report, SDG 1245952, Level 2	Laboratory Report, SDG 1245952, Level 4	Data Validation Report, Level S2BVEM, SDG 1245952
RHP03	RHP03-WGN01LF-2410A	24J0107	10/9/2024		Laboratory Report, SDG 24J0107, Level 2	Laboratory Report, SDG 24J0107, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0107
RHP04A	RHP04A-WGN01LF-2410A	24J0107	10/9/2024		Laboratory Report, SDG 24J0107, Level 2	Laboratory Report, SDG 24J0107, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0107
NMW27	NMW27-WGN01LF-2410A	24J0121	10/9/2024		Laboratory Report, SDG 24J0121, Level 2	Laboratory Report, SDG 24J0121, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0121
NMW27	NMW27-WGN01LF-2410A	580-144708-1	10/9/2024		Laboratory Report, SDG 580-144708-1, Level 2	Laboratory Report, SDG 580-144708-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-144708-1
RHP03	RHP03-WGN01LF-2410A	580-144708-1	10/9/2024		Laboratory Report, SDG 580-144708-1, Level 2	Laboratory Report, SDG 580-144708-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-144708-1
RHP04A	RHP04A-WGN01LF-2410A	580-144708-1	10/9/2024		Laboratory Report, SDG 580-144708-1, Level 2	Laboratory Report, SDG 580-144708-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-144708-1
NMW27	NMW27-WGN01LF-2410A	B24101152	10/9/2024		Laboratory Report, SDG B24101152, Level 2	Laboratory Report, SDG B24101152, Level 4	Data Validation Report, Level S2BVEM, SDG B24101152
NMW27	NMW27-WGN01LF-2410A	FC19455	10/9/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHP03	RHP03-WGN01B-2410A	FC19455	10/9/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHP03	RHP03-WGN01LF-2410A	FC19455	10/9/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHP04A	RHP04A-WGN01B-2410A	FC19455	10/9/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHP04A	RHP04A-WGN01LF-2410A	FC19455	10/9/2024		Laboratory Report, SDG FC19455, Level 2, Revision 2	Laboratory Report, SDG FC19455, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19455
RHMW06	RHMW06-WGN01LF-2410A	1245988	10/10/2024		Laboratory Report, SDG 1245988, Level 2	Laboratory Report, SDG 1245988, Level 4	Data Validation Report, Level S2BVEM, SDG 1245988
RHMW16	RHMW16-WGN01LF-2410A	1245988	10/10/2024		Laboratory Report, SDG 1245988, Level 2	Laboratory Report, SDG 1245988, Level 4	Data Validation Report, Level S2BVEM, SDG 1245988
RHP05	RHP05-WGN01LF-2410A	1245988	10/10/2024		Laboratory Report, SDG 1245988, Level 2	Laboratory Report, SDG 1245988, Level 4	Data Validation Report, Level S2BVEM, SDG 1245988
RHP06	RHP06-WGN01LF-2410A	1245988	10/10/2024		Laboratory Report, SDG 1245988, Level 2	Laboratory Report, SDG 1245988, Level 4	Data Validation Report, Level S2BVEM, SDG 1245988
RHMW06	RHMW06-WGN01LF-2410A	24J0126	10/10/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHMW16	RHMW16-WGN01LF-2410A	24J0126	10/10/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHP05	RHP05-WGN01LF-2410A	24J0126	10/10/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHP06	RHP06-WGN01LF-2410A	24J0126	10/10/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHP06	RHP06-WGN01LF-2410A	580-144753-1	10/10/2024		Laboratory Report, SDG 580-144753-1, Level 2	Laboratory Report, SDG 580-144753-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144753-1
RHP05	RHP05-WGN01LF-2410A	580-144753-1	10/10/2024		Laboratory Report, SDG 580-144753-1, Level 2	Laboratory Report, SDG 580-144753-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144753-1
RHMW06	RHMW06-WGN01LF-2410A	580-144753-1	10/10/2024		Laboratory Report, SDG 580-144753-1, Level 2	Laboratory Report, SDG 580-144753-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144753-1
RHMW16	RHMW16-WGN01LF-2410A	580-144753-1	10/10/2024		Laboratory Report, SDG 580-144753-1, Level 2	Laboratory Report, SDG 580-144753-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144753-1
RHP06	RHP06-WGN01LF-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHP06	RHP06-WGN01B-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525

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Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP05	RHP05-WGN01LF-2410A	FC19525	10/10/2024	(b) (4)	Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW06	RHMW06-WGN01B-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW16	RHMW16-WGN01LF-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW06	RHMW06-WGN01LF-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHP05	RHP05-WGN01B-2410A	FC19525	10/10/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW10	RHMW10-WGN01LF-2410A	1246046	10/11/2024		Laboratory Report, SDG 1246046, Level 2	Laboratory Report, SDG 1246046, Level 4	Data Validation Report, Level S2BVEM, SDG 1246046
RHMW19	RHMW19-WGN01LF-2410A	1246046	10/11/2024		Laboratory Report, SDG 1246046, Level 2	Laboratory Report, SDG 1246046, Level 4	Data Validation Report, Level S2BVEM, SDG 1246046
RHMW10	RHMW10-WGN01LF-2410A	24J0126	10/11/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHMW19	RHMW19-WGN01LF-2410A	24J0126	10/11/2024		Laboratory Report, SDG 24J0126, Level 2	Laboratory Report, SDG 24J0126, Level 4	Data Validation Report, Level S4VEM, SDG 24J0126
RHMW10	RHMW10-WGN01LF-2410A	580-144787-1	10/11/2024		Laboratory Report, SDG 580-144787-1, Level 2	Laboratory Report, SDG 580-144787-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144787-1
RHMW19	RHMW19-WGN01LF-2410A	580-144787-1	10/11/2024		Laboratory Report, SDG 580-144787-1, Level 2	Laboratory Report, SDG 580-144787-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144787-1
RHMW10	RHMW10-WGN01B-2410A	FC19525	10/11/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW10	RHMW10-WGN01LF-2410A	FC19525	10/11/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW19	RHMW19-WGN01B-2410A	FC19525	10/11/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW19	RHMW19-WGN01LF-2410A	FC19525	10/11/2024		Laboratory Report, SDG FC19525, Level 2, Revision 2	Laboratory Report, SDG FC19525, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19525
RHMW17	RHMW17-WGN01LF-2410A	1246046	10/14/2024		Laboratory Report, SDG 1246046, Level 2	Laboratory Report, SDG 1246046, Level 4	Data Validation Report, Level S2BVEM, SDG 1246046
RHMW13-04	RHMW13-04-WGN01G-2410A	1246046	10/14/2024		Laboratory Report, SDG 1246046, Level 2	Laboratory Report, SDG 1246046, Level 4	Data Validation Report, Level S2BVEM, SDG 1246046
NMW26	NMW26-WGN01LF-2410A	1246046	10/14/2024		Laboratory Report, SDG 1246046, Level 2	Laboratory Report, SDG 1246046, Level 4	Data Validation Report, Level S2BVEM, SDG 1246046
NMW26	NMW26-WGN01LF-2410A	24J0136	10/14/2024		Laboratory Report, SDG 24J0136, Level 2	Laboratory Report, SDG 24J0136, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0136
RHMW13-04	RHMW13-04-WGN01G-2410A	24J0136	10/14/2024		Laboratory Report, SDG 24J0136, Level 2	Laboratory Report, SDG 24J0136, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0136
RHMW17	RHMW17-WGN01LF-2410A	24J0136	10/14/2024		Laboratory Report, SDG 24J0136, Level 2	Laboratory Report, SDG 24J0136, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0136
NMW26	NMW26-WGN01LF-2410A	580-144834-1	10/14/2024		Laboratory Report, SDG 580-144834-1, Level 2	Laboratory Report, SDG 580-144834-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144834-1
RHMW13-04	RHMW13-04-WGN01G-2410A	580-144834-1	10/14/2024		Laboratory Report, SDG 580-144834-1, Level 2	Laboratory Report, SDG 580-144834-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144834-1
RHMW17	RHMW17-WGN01LF-2410A	580-144834-1	10/14/2024		Laboratory Report, SDG 580-144834-1, Level 2	Laboratory Report, SDG 580-144834-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144834-1
RHMW17	RHMW17-WGN01LF-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
NMW26	NMW26-WGN01B-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
NMW26	NMW26-WGN01LF-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
RHMW13-04	RHMW13-04-WGN01G-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
RHMW17	RHMW17-WGFD01B-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
RHMW17	RHMW17-WGFD01LF-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
RHMW17	RHMW17-WGN01B-2410A	FC19552	10/14/2024		Laboratory Report, SDG FC19552, Level 2, Revision 1	Laboratory Report, SDG FC19552, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19552
RHMW04	RHMW04-WGN01LF-2410A	1246066	10/15/2024		Laboratory Report, SDG 1246066, Level 2	Laboratory Report, SDG 1246066, Level 4	Data Validation Report, Level S2BVEM, SDG 1246066
RHP04B	RHP04B-WGN01LF-2410A	1246066	10/15/2024		Laboratory Report, SDG 1246066, Level 2	Laboratory Report, SDG 1246066, Level 4	Data Validation Report, Level S2BVEM, SDG 1246066
NMW24	NMW24-WGN01LF-2410A	1246066	10/15/2024		Laboratory Report, SDG 1246066, Level 2	Laboratory Report, SDG 1246066, Level 4	Data Validation Report, Level S2BVEM, SDG 1246066
NMW25	NMW25-WGN01LF-2410A	1246066	10/15/2024		Laboratory Report, SDG 1246066, Level 2	Laboratory Report, SDG 1246066, Level 4	Data Validation Report, Level S2BVEM, SDG 1246066
RHP04C	RHP04C-WGN01LF-2410A	1246066	10/15/2024		Laboratory Report, SDG 1246066, Level 2	Laboratory Report, SDG 1246066, Level 4	Data Validation Report, Level S2BVEM, SDG 1246066
RHP04C	RHP04C-WGN01LF-2410A	24J0158	10/15/2024		Laboratory Report, SDG 24J0158, Level 2	Laboratory Report, SDG 24J0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0158
RHP04B	RHP04B-WGN01LF-2410A	24J0158	10/15/2024		Laboratory Report, SDG 24J0158, Level 2	Laboratory Report, SDG 24J0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0158
RHMW04	RHMW04-WGN01LF-2410A	24J0158	10/15/2024		Laboratory Report, SDG 24J0158, Level 2	Laboratory Report, SDG 24J0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0158
NMW25	NMW25-WGN01LF-2410A	24J0158	10/15/2024		Laboratory Report, SDG 24J0158, Level 2	Laboratory Report, SDG 24J0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0158
NMW24	NMW24-WGN01LF-2410A	24J0158	10/15/2024		Laboratory Report, SDG 24J0158, Level 2	Laboratory Report, SDG 24J0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0158
NMW24	NMW24-WGN01LF-2410A	580-144860-1	10/15/2024		Laboratory Report, SDG 580-144860-1, Level 2	Laboratory Report, SDG 580-144860-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144860-1
NMW25	NMW25-WGN01LF-2410A	580-144860-1	10/15/2024		Laboratory Report, SDG 580-144860-1, Level 2	Laboratory Report, SDG 580-144860-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144860-1
RHMW04	RHMW04-WGN01LF-2410A	580-144860-1	10/15/2024		Laboratory Report, SDG 580-144860-1, Level 2	Laboratory Report, SDG 580-144860-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144860-1
RHP04B	RHP04B-WGN01LF-2410A	580-144860-1	10/15/2024		Laboratory Report, SDG 580-144860-1, Level 2	Laboratory Report, SDG 580-144860-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144860-1
RHP04C	RHP04C-WGN01LF-2410A	580-144860-1	10/15/2024		Laboratory Report, SDG 580-144860-1, Level 2	Laboratory Report, SDG 580-144860-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144860-1
RHP04C	RHP04C-WGN01LF-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
RHP04B	RHP04B-WGN01LF-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
RHMW04	RHMW04-WGN01LF-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
RHMW04	RHMW04-WGN01B-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
NMW24	NMW24-WGN01LF-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
NMW25	NMW25-WGN01B-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
NMW24	NMW24-WGN01B-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
NMW25	NMW25-WGN01LF-2410A	FC19577	10/15/2024		Laboratory Report, SDG FC19577, Level 2	Laboratory Report, SDG FC19577, Level 4	Data Validation Report, Level 4, SDG FC19577
RHP08C	RHP08C-WGN01LF-2410A	1246090	10/16/2024		Laboratory Report, SDG 1246090, Level 2	Laboratory Report, SDG 1246090, Level 4	Data Validation Report, Level S2BVEM, SDG 1246090
RHP08B	RHP08B-WGN01LF-2410A	1246090	10/16/2024		Laboratory Report, SDG 1246090, Level 2	Laboratory Report, SDG 1246090, Level 4	Data Validation Report, Level S2BVEM, SDG 1246090
OWDFMW03A	OWDFMW03A-WGN01LF-2410A	1246090	10/16/2024		Laboratory Report, SDG 1246090, Level 2	Laboratory Report, SDG 1246090, Level 4	Data Validation Report, Level S2BVEM, SDG 1246090
OWDFMW08A	OWDFMW08A-WGN01LF-2410A	1246090	10/16/2024		Laboratory Report, SDG 1246090, Level 2	Laboratory Report, SDG 1246090, Level 4	Data Validation Report, Level S2BVEM, SDG 1246090
RHMW20	RHMW20-WGN01LF-2410A	1246090	10/16/2024		Laboratory Report, SDG 1246090, Level 2	Laboratory Report, SDG 1246090, Level 4	Data Validation Report, Level S2BVEM, SDG 1246090
OWDFMW03A	OWDFMW03A-WGN01LF-2410A	24J0172	10/16/2024		Laboratory Report, SDG 24J0172, Level 2	Laboratory Report, SDG 24J0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0172
OWDFMW08A	OWDFMW08A-WGN01LF-2410A	24J0172	10/16/2024		Laboratory Report, SDG 24J0172, Level 2	Laboratory Report, SDG 24J0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0172
RHMW20	RHMW20-WGN01LF-2410A	24J0172	10/16/2024		Laboratory Report, SDG 24J0172, Level 2	Laboratory Report, SDG 24J0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0172
RHP08B	RHP08B-WGN01LF-2410A	24J0172	10/16/2024		Laboratory Report, SDG 24J0172, Level 2	Laboratory Report, SDG 24J0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0172
RHP08C	RHP08C-WGN01LF-2410A	24J0172	10/16/2024		Laboratory Report, SDG 24J0172, Level 2	Laboratory Report, SDG 24J0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0172
OWDFMW03A	OWDFMW03A-WGN01LF-2410A	580-144901-1	10/16/2024		Laboratory Report, SDG 580-144901-1, Level 2	Laboratory Report, SDG 580-144901-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144901-1
OWDFMW08A	OWDFMW08A-WGN01LF-2410A	580-144901-1	10/16/2024		Laboratory Report, SDG 580-144901-1, Level 2	Laboratory Report, SDG 580-144901-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144901-1

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW20	RHMW20-WGN01LF-2410A	580-144901-1	10/16/2024	(b) (4)	Laboratory Report, SDG 580-144901-1, Level 2	Laboratory Report, SDG 580-144901-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144901-1
RHP08B	RHP08B-WGN01LF-2410A	580-144901-1	10/16/2024		Laboratory Report, SDG 580-144901-1, Level 2	Laboratory Report, SDG 580-144901-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144901-1
RHP08C	RHP08C-WGN01LF-2410A	580-144901-1	10/16/2024		Laboratory Report, SDG 580-144901-1, Level 2	Laboratory Report, SDG 580-144901-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144901-1
RHP08B	RHP08B-WGN01LF-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
RHMW20	RHMW20-WGN01LF-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
RHP08C	RHP08C-WGN01LF-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
OWDFMW08A	OWDFMW08A-WGN01LF-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
OWDFMW03A	OWDFMW03A-WGN01LF-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
RHMW20	RHMW20-WGN01B-2410A	FC19654	10/16/2024		Laboratory Report, SDG FC19654, Level 2	Laboratory Report, SDG FC19654, Level 4	Data Validation Report, Level 2B, SDG FC19654
NMW30	NMW30-WGN01LF-2410A	1246127	10/17/2024		Laboratory Report, SDG 1246127, Level 2, Revision 1	Laboratory Report, SDG 1246127, Level 4	Data Validation Report, Level S2BVEM, SDG 1246127
NMW32	NMW32-WGN01LF-2410A	1246127	10/17/2024		Laboratory Report, SDG 1246127, Level 2, Revision 1	Laboratory Report, SDG 1246127, Level 4	Data Validation Report, Level S2BVEM, SDG 1246127
NMW33	NMW33-WGN01LF-2410A	1246127	10/17/2024		Laboratory Report, SDG 1246127, Level 2, Revision 1	Laboratory Report, SDG 1246127, Level 4	Data Validation Report, Level S2BVEM, SDG 1246127
NMW34	NMW34-WGN01LF-2410A	1246127	10/17/2024		Laboratory Report, SDG 1246127, Level 2, Revision 1	Laboratory Report, SDG 1246127, Level 4	Data Validation Report, Level S2BVEM, SDG 1246127
RHMW18	RHMW18-WGN01LF-2410A	1246127	10/17/2024		Laboratory Report, SDG 1246127, Level 2, Revision 1	Laboratory Report, SDG 1246127, Level 4	Data Validation Report, Level S2BVEM, SDG 1246127
RHMW18	RHMW18-WGN01LF-2410A	24J0196	10/17/2024		Laboratory Report, SDG 24J0196, Level 2	Laboratory Report, SDG 24J0196, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0196
NMW33	NMW33-WGN01LF-2410A	24J0196	10/17/2024		Laboratory Report, SDG 24J0196, Level 2	Laboratory Report, SDG 24J0196, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0196
NMW34	NMW34-WGN01LF-2410A	24J0196	10/17/2024		Laboratory Report, SDG 24J0196, Level 2	Laboratory Report, SDG 24J0196, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0196
NMW30	NMW30-WGN01LF-2410A	24J0196	10/17/2024		Laboratory Report, SDG 24J0196, Level 2	Laboratory Report, SDG 24J0196, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0196
NMW32	NMW32-WGN01LF-2410A	24J0196	10/17/2024		Laboratory Report, SDG 24J0196, Level 2	Laboratory Report, SDG 24J0196, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0196
NMW30	NMW30-WGN01LF-2410A	580-144954-1	10/17/2024		Laboratory Report, SDG 580-144954-1, Level 2	Laboratory Report, SDG 580-144954-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144954-1
NMW32	NMW32-WGN01LF-2410A	580-144954-1	10/17/2024		Laboratory Report, SDG 580-144954-1, Level 2	Laboratory Report, SDG 580-144954-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144954-1
NMW33	NMW33-WGN01LF-2410A	580-144954-1	10/17/2024		Laboratory Report, SDG 580-144954-1, Level 2	Laboratory Report, SDG 580-144954-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144954-1
NMW34	NMW34-WGN01LF-2410A	580-144954-1	10/17/2024		Laboratory Report, SDG 580-144954-1, Level 2	Laboratory Report, SDG 580-144954-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144954-1
RHMW18	RHMW18-WGN01LF-2410A	580-144954-1	10/17/2024		Laboratory Report, SDG 580-144954-1, Level 2	Laboratory Report, SDG 580-144954-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144954-1
NMW34	NMW34-WGN01B-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
RHMW18	RHMW18-WGN01LF-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
RHMW18	RHMW18-WGN01B-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW34	NMW34-WGN01LF-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW33	NMW33-WGN01LF-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW30	NMW30-WGN01B-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW32	NMW32-WGN01LF-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW32	NMW32-WGN01B-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW30	NMW30-WGN01LF-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
NMW33	NMW33-WGN01B-2410A	FC19703	10/17/2024		Laboratory Report, SDG FC19703, Level 2	Laboratory Report, SDG FC19703, Level 4	Data Validation Report, Level 2B, SDG FC19703
HDMW2253-03	HDMW2253-03-WGN01LF-2410A	1246155	10/18/2024		Laboratory Report, SDG 1246155, Level 2	Laboratory Report, SDG 1246155, Level 4	Data Validation Report, Level S2BVEM, SDG 1246155
RHMW12A	RHMW12A-WGN01LF-2410A	1246155	10/18/2024		Laboratory Report, SDG 1246155, Level 2	Laboratory Report, SDG 1246155, Level 4	Data Validation Report, Level S2BVEM, SDG 1246155
HDMW2253-03	HDMW2253-03-WGN01LF-2410A	24J0201	10/18/2024		Laboratory Report, SDG 24J0201, Level 2	Laboratory Report, SDG 24J0201, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0201
RHMW12A	RHMW12A-WGN01LF-2410A	24J0201	10/18/2024		Laboratory Report, SDG 24J0201, Level 2	Laboratory Report, SDG 24J0201, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0201
HDMW2253-03	HDMW2253-03-WGN01LF-2410A	580-144992-1	10/18/2024		Laboratory Report, SDG 580-144992-1, Level 2	Laboratory Report, SDG 580-144992-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144992-1
RHMW12A	RHMW12A-WGN01LF-2410A	580-144992-1	10/18/2024		Laboratory Report, SDG 580-144992-1, Level 2	Laboratory Report, SDG 580-144992-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-144992-1
HDMW2253-03	HDMW2253-03-WGN01LF-2410A	FC19723	10/18/2024		Laboratory Report, SDG FC19723, Level 2	Laboratory Report, SDG FC19723, Level 4	Data Validation Report, Level 2B, SDG FC19723
RHMW12A	RHMW12A-WGN01LF-2410A	FC19723	10/18/2024		Laboratory Report, SDG FC19723, Level 2	Laboratory Report, SDG FC19723, Level 4	Data Validation Report, Level 2B, SDG FC19723
RHMW15-05	RHMW15-05-WGN01G-2410B	1246154	10/21/2024		Laboratory Report, SDG 1246154, Level 2	Laboratory Report, SDG 1246154, Level 4	Data Validation Report, Level S4VEM, SDG 1246154
RHMW08	RHMW08-WGN01LF-2410B	1246154	10/21/2024		Laboratory Report, SDG 1246154, Level 2	Laboratory Report, SDG 1246154, Level 4	Data Validation Report, Level S4VEM, SDG 1246154
RHMW21	RHMW21-WGN01LF-2410B	1246154	10/21/2024		Laboratory Report, SDG 1246154, Level 2	Laboratory Report, SDG 1246154, Level 4	Data Validation Report, Level S4VEM, SDG 1246154
RHMW01R	RHMW01R-WGN01LF-2410B	1246154	10/21/2024		Laboratory Report, SDG 1246154, Level 2	Laboratory Report, SDG 1246154, Level 4	Data Validation Report, Level S4VEM, SDG 1246154
RHMW02	RHMW02-WGN01LF-2410B	1246154	10/21/2024		Laboratory Report, SDG 1246154, Level 2	Laboratory Report, SDG 1246154, Level 4	Data Validation Report, Level S4VEM, SDG 1246154
RHMW01R	RHMW01R-WGFD01LF-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW01R	RHMW01R-WGN01LF-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW02	RHMW02-WGN01LF-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW08	RHMW08-WGN01LF-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW15-05	RHMW15-05-WGN01G-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW21	RHMW21-WGN01LF-2410B	24J0215	10/21/2024		Laboratory Report, SDG 24J0215, Level 2	Laboratory Report, SDG 24J0215, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0215
RHMW01R	RHMW01R-WGN01LF-2410B	580-145049-1	10/21/2024		Laboratory Report, SDG 580-145049-1, Level 2	Laboratory Report, SDG 580-145049-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145049-1
RHMW02	RHMW02-WGN01LF-2410B	580-145049-1	10/21/2024		Laboratory Report, SDG 580-145049-1, Level 2	Laboratory Report, SDG 580-145049-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145049-1
RHMW08	RHMW08-WGN01LF-2410B	580-145049-1	10/21/2024		Laboratory Report, SDG 580-145049-1, Level 2	Laboratory Report, SDG 580-145049-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145049-1
RHMW15-05	RHMW15-05-WGN01G-2410B	580-145049-1	10/21/2024		Laboratory Report, SDG 580-145049-1, Level 2	Laboratory Report, SDG 580-145049-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145049-1
RHMW21	RHMW21-WGN01LF-2410B	580-145049-1	10/21/2024		Laboratory Report, SDG 580-145049-1, Level 2	Laboratory Report, SDG 580-145049-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145049-1
RHMW01R	RHMW01R-WGFD01LF-2410B	B24101842	10/21/2024		Laboratory Report, SDG B24101842, Level 2	Laboratory Report, SDG B24101842, Level 4	Data Validation Report, Level S2BVEM, SDG B24101842
RHMW01R	RHMW01R-WGN01LF-2410B	B24101842	10/21/2024		Laboratory Report, SDG B24101842, Level 2	Laboratory Report, SDG B24101842, Level 4	Data Validation Report, Level S2BVEM, SDG B24101842
RHMW08	RHMW08-WGN01LF-2410B	B24101842	10/21/2024		Laboratory Report, SDG B24101842, Level 2	Laboratory Report, SDG B24101842, Level 4	Data Validation Report, Level S2BVEM, SDG B24101842
RHMW15-05	RHMW15-05-WGN01G-2410B	B24101842	10/21/2024		Laboratory Report, SDG B24101842, Level 2	Laboratory Report, SDG B24101842, Level 4	Data Validation Report, Level S2BVEM, SDG B24101842
RHMW21	RHMW21-WGN01LF-2410B	B24102001	10/21/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHMW02	RHMW02-WGN01LF-2410B	B24102001	10/21/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHMW01R	RHMW01R-WGFD01B-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW01R	RHMW01R-WGFD01LF-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW01R	RHMW01R-WGN01B-2410B	FC19769	10/21/2024	(b) (4)	Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW01R	RHMW01R-WGN01LF-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW08	RHMW08-WGN01B-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW08	RHMW08-WGN01LF-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW15-05	RHMW15-05-WGN01G-2410B	FC19769	10/21/2024		Laboratory Report, SDG FC19769, Level 2, Revision 1	Laboratory Report, SDG FC19769, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19769
RHMW21	RHMW21-WGN01LF-2410B	FC19813	10/21/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW21	RHMW21-WGN01B-2410B	FC19813	10/21/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW02	RHMW02-WGN01LF-2410B	FC19813	10/21/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW02	RHMW02-WGN01B-2410B	FC19813	10/21/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW03	RHMW03-WGN01LF-2410B	1246171	10/22/2024		Laboratory Report, SDG 1246171, Level 2	Laboratory Report, SDG 1246171, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1246171
RHMW2254-01	RHMW2254-01-WGN01LF-2410B	1246171	10/22/2024		Laboratory Report, SDG 1246171, Level 2	Laboratory Report, SDG 1246171, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1246171
RHP06	RHP06-WGN01LF-2410B	1246171	10/22/2024		Laboratory Report, SDG 1246171, Level 2	Laboratory Report, SDG 1246171, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1246171
RHP08	RHP08-WGN01LF-2410B	1246171	10/22/2024		Laboratory Report, SDG 1246171, Level 2	Laboratory Report, SDG 1246171, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1246171
RHSF-PUMP	RHSF-PUMP-WGN01G-2410B	1246171	10/22/2024		Laboratory Report, SDG 1246171, Level 2	Laboratory Report, SDG 1246171, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1246171
RHSF-PUMP	RHSF-PUMP-WGN01G-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHP08	RHP08-WGN01LF-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHP08	RHP08-WGFD01LF-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHP06	RHP06-WGN01LF-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHMW03	RHMW03-WGN01LF-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHMW2254-01	RHMW2254-01-WGN01LF-2410B	24J0226	10/22/2024		Laboratory Report, SDG 24J0226, Level 2	Laboratory Report, SDG 24J0226, Level 4	Data Validation Report, Level S4VEM, SDG 24J0226
RHMW03	RHMW03-WGN01LF-2410B	580-145080-1	10/22/2024		Laboratory Report, SDG 580-145080-1, Level 2	Laboratory Report, SDG 580-145080-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145080-1
RHMW2254-01	RHMW2254-01-WGN01LF-2410B	580-145080-1	10/22/2024		Laboratory Report, SDG 580-145080-1, Level 2	Laboratory Report, SDG 580-145080-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145080-1
RHP06	RHP06-WGN01LF-2410B	580-145080-1	10/22/2024		Laboratory Report, SDG 580-145080-1, Level 2	Laboratory Report, SDG 580-145080-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145080-1
RHP08	RHP08-WGN01LF-2410B	580-145080-1	10/22/2024		Laboratory Report, SDG 580-145080-1, Level 2	Laboratory Report, SDG 580-145080-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145080-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2410B	580-145080-1	10/22/2024		Laboratory Report, SDG 580-145080-1, Level 2	Laboratory Report, SDG 580-145080-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145080-1
RHMW03	RHMW03-WGN01LF-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHP06	RHP06-WGN01LF-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHP08	RHP08-WGFD01LF-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHP08	RHP08-WGN01LF-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHSF-PUMP	RHSF-PUMP-WGN01G-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHMW2254-01	RHMW2254-01-WGN01LF-2410B	B24102001	10/22/2024		Laboratory Report, SDG B24102001, Level 2	Laboratory Report, SDG B24102001, Level 4	Data Validation Report, Level S2BVEM, SDG B24102001
RHP08	RHP08-WGFD01B-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHP08	RHP08-WGN01LF-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHP08	RHP08-WGN01B-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHP08	RHP08-WGFD01LF-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHSF-PUMP	RHSF-PUMP-WGN01G-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHP06	RHP06-WGN01LF-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW2254-01	RHMW2254-01-WGN01LF-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW2254-01	RHMW2254-01-WGN01B-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW03	RHMW03-WGN01LF-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW03	RHMW03-WGN01B-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHP06	RHP06-WGN01B-2410B	FC19813	10/22/2024		Laboratory Report, SDG FC19813, Level 2, Revision 2	Laboratory Report, SDG FC19813, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC19813
RHMW14-03	RHMW14-03-WGN01G-2410B	1246200	10/23/2024		Laboratory Report, SDG 1246200, Level 2	Laboratory Report, SDG 1246200, Level 4	Data Validation Report, Level S2BVEM, SDG 1246200
RHP07	RHP07-WGN01LF-2410B	1246200	10/23/2024		Laboratory Report, SDG 1246200, Level 2	Laboratory Report, SDG 1246200, Level 4	Data Validation Report, Level S2BVEM, SDG 1246200
RHMW05	RHMW05-WGN01LF-2410B	1246200	10/23/2024		Laboratory Report, SDG 1246200, Level 2	Laboratory Report, SDG 1246200, Level 4	Data Validation Report, Level S2BVEM, SDG 1246200
RHMW11-05	RHMW11-05-WGN01G-2410B	1246200	10/23/2024		Laboratory Report, SDG 1246200, Level 2	Laboratory Report, SDG 1246200, Level 4	Data Validation Report, Level S2BVEM, SDG 1246200
RHMW05	RHMW05-WGN01LF-2410B	24J0245	10/23/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHMW11-05	RHMW11-05-WGN01G-2410B	24J0245	10/23/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHMW14-03	RHMW14-03-WGN01G-2410B	24J0245	10/23/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHP07	RHP07-WGN01LF-2410B	24J0245	10/23/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHP07	RHP07-WGN01LF-2410B	580-145138-1	10/23/2024		Laboratory Report, SDG 580-145138-1, Level 2	Laboratory Report, SDG 580-145138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145138-1
RHMW05	RHMW05-WGN01LF-2410B	580-145138-1	10/23/2024		Laboratory Report, SDG 580-145138-1, Level 2	Laboratory Report, SDG 580-145138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145138-1
RHMW11-05	RHMW11-05-WGN01G-2410B	580-145138-1	10/23/2024		Laboratory Report, SDG 580-145138-1, Level 2	Laboratory Report, SDG 580-145138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145138-1
RHMW14-03	RHMW14-03-WGN01G-2410B	580-145138-1	10/23/2024		Laboratory Report, SDG 580-145138-1, Level 2	Laboratory Report, SDG 580-145138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145138-1
RHMW14-03	RHMW14-03-WGN01G-2410B	B24102171	10/23/2024		Laboratory Report, SDG B24102171, Level 2	Laboratory Report, SDG B24102171, Level 4	Data Validation Report, Level S2BVEM, SDG B24102171
RHP07	RHP07-WGN01LF-2410B	B24102171	10/23/2024		Laboratory Report, SDG B24102171, Level 2	Laboratory Report, SDG B24102171, Level 4	Data Validation Report, Level S2BVEM, SDG B24102171
RHMW05	RHMW05-WGN01LF-2410B	B24102171	10/23/2024		Laboratory Report, SDG B24102171, Level 2	Laboratory Report, SDG B24102171, Level 4	Data Validation Report, Level S2BVEM, SDG B24102171
RHMW11-05	RHMW11-05-WGN01G-2410B	B24102311	10/23/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW05	RHMW05-WGN01B-2410B	FC19854	10/23/2024		Laboratory Report, SDG FC19854, Level 2, Revision 1	Laboratory Report, SDG FC19854, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19854
RHMW05	RHMW05-WGN01LF-2410B	FC19854	10/23/2024		Laboratory Report, SDG FC19854, Level 2, Revision 1	Laboratory Report, SDG FC19854, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19854
RHMW14-03	RHMW14-03-WGN01G-2410B	FC19854	10/23/2024		Laboratory Report, SDG FC19854, Level 2, Revision 1	Laboratory Report, SDG FC19854, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19854
RHP07	RHP07-WGN01B-2410B	FC19854	10/23/2024		Laboratory Report, SDG FC19854, Level 2, Revision 1	Laboratory Report, SDG FC19854, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19854
RHP07	RHP07-WGN01LF-2410B	FC19854	10/23/2024		Laboratory Report, SDG FC19854, Level 2, Revision 1	Laboratory Report, SDG FC19854, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19854
RHMW11-05	RHMW11-05-WGN01G-2410B	FC19902	10/23/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP04A	RHP04A-WGN01LF-2410B	1246226	10/24/2024		Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226
RHP03	RHP03-WGN01LF-2410B	1246226	10/24/2024		Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226

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Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP02	RHP02-WGN01LF-2410B	1246226	10/24/2024	(b) (4)	Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226
RHMW06	RHMW06-WGN01LF-2410B	1246226	10/24/2024		Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226
RHMW16	RHMW16-WGN01LF-2410B	1246226	10/24/2024		Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226
RHP01	RHP01-WGN01LF-2410B	1246226	10/24/2024		Laboratory Report, SDG 1246226, Level 2	Laboratory Report, SDG 1246226, Level 4	Data Validation Report, Level S2BVEM, SDG 1246226
RHP04A	RHP04A-WGN01LF-2410B	24J0245	10/24/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHMW06	RHMW06-WGN01LF-2410B	24J0245	10/24/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHP03	RHP03-WGN01LF-2410B	24J0245	10/24/2024		Laboratory Report, SDG 24J0245, Level 2	Laboratory Report, SDG 24J0245, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0245
RHP02	RHP02-WGN01LF-2410B	24J0254	10/24/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHP01	RHP01-WGN01LF-2410B	24J0254	10/24/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHMW16	RHMW16-WGN01LF-2410B	24J0254	10/24/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHP01	RHP01-WGN01LF-2410B	580-145175-1	10/24/2024		Laboratory Report, SDG 580-145175-1, Level 2	Laboratory Report, SDG 580-145175-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145175-1
RHP02	RHP02-WGN01LF-2410B	580-145175-1	10/24/2024		Laboratory Report, SDG 580-145175-1, Level 2	Laboratory Report, SDG 580-145175-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145175-1
RHMW06	RHMW06-WGN01LF-2410B	580-145179-1	10/24/2024		Laboratory Report, SDG 580-145179-1, Level 2	Laboratory Report, SDG 580-145179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145179-1
RHMW16	RHMW16-WGN01LF-2410B	580-145179-1	10/24/2024		Laboratory Report, SDG 580-145179-1, Level 2	Laboratory Report, SDG 580-145179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145179-1
RHP03	RHP03-WGN01LF-2410B	580-145179-1	10/24/2024		Laboratory Report, SDG 580-145179-1, Level 2	Laboratory Report, SDG 580-145179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145179-1
RHP04A	RHP04A-WGN01LF-2410B	580-145179-1	10/24/2024		Laboratory Report, SDG 580-145179-1, Level 2	Laboratory Report, SDG 580-145179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145179-1
RHP04A	RHP04A-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHP03	RHP03-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHP02	RHP02-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW16	RHMW16-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW06	RHMW06-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHP01	RHP01-WGN01LF-2410B	B24102311	10/24/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHP03	RHP03-WGN01B-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP04A	RHP04A-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP04A	RHP04A-WGN01B-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP03	RHP03-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP02	RHP02-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP01	RHP01-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP01	RHP01-WGN01B-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHMW16	RHMW16-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHMW06	RHMW06-WGN01LF-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHMW06	RHMW06-WGN01B-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHP02	RHP02-WGN01B-2410B	FC19902	10/24/2024		Laboratory Report, SDG FC19902, Level 2	Laboratory Report, SDG FC19902, Level 4	Data Validation Report, Level 2B, SDG FC19902
RHMW09	RHMW09-WGN01LF-2410B	1246277	10/25/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHMW10	RHMW10-WGN01LF-2410B	1246277	10/25/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHMW19	RHMW19-WGN01LF-2410B	1246277	10/25/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHP05	RHP05-WGN01LF-2410B	1246277	10/25/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHMW09	RHMW09-WGN01LF-2410B	24J0254	10/25/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHMW10	RHMW10-WGN01LF-2410B	24J0254	10/25/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHMW19	RHMW19-WGN01LF-2410B	24J0254	10/25/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHP05	RHP05-WGN01LF-2410B	24J0254	10/25/2024		Laboratory Report, SDG 24J0254, Level 2	Laboratory Report, SDG 24J0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0254
RHMW19	RHMW19-WGN01LF-2410B	580-145178-1	10/25/2024		Laboratory Report, SDG 580-145178-1, Level 2	Laboratory Report, SDG 580-145178-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145178-1
RHP05	RHP05-WGN01LF-2410B	580-145178-1	10/25/2024		Laboratory Report, SDG 580-145178-1, Level 2	Laboratory Report, SDG 580-145178-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145178-1
RHMW09	RHMW09-WGN01LF-2410B	580-145178-1	10/25/2024		Laboratory Report, SDG 580-145178-1, Level 2	Laboratory Report, SDG 580-145178-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145178-1
RHMW10	RHMW10-WGN01LF-2410B	580-145178-1	10/25/2024		Laboratory Report, SDG 580-145178-1, Level 2	Laboratory Report, SDG 580-145178-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145178-1
RHP05	RHP05-WGN01LF-2410B	B24102311	10/25/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW19	RHMW19-WGN01LF-2410B	B24102311	10/25/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW09	RHMW09-WGN01LF-2410B	B24102311	10/25/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW10	RHMW10-WGN01LF-2410B	B24102311	10/25/2024		Laboratory Report, SDG B24102311, Level 2	Laboratory Report, SDG B24102311, Level 4	Data Validation Report, Level S2BVEM, SDG B24102311
RHMW09	RHMW09-WGN01B-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW09	RHMW09-WGN01LF-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW10	RHMW10-WGN01B-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW10	RHMW10-WGN01LF-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW19	RHMW19-WGN01B-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW19	RHMW19-WGN01LF-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHP05	RHP05-WGN01B-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHP05	RHP05-WGN01LF-2410B	FC19918	10/25/2024		Laboratory Report, SDG FC19918, Level 2, Revision 1	Laboratory Report, SDG FC19918, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC19918
RHMW13-04	RHMW13-04-WGN01G-2410B	1246277	10/28/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
NMW26	NMW26-WGN01LF-2410B	1246277	10/28/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
NMW27	NMW27-WGN01LF-2410B	1246277	10/28/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHMW17	RHMW17-WGN01LF-2410B	1246277	10/28/2024		Laboratory Report, SDG 1246277, Level 2	Laboratory Report, SDG 1246277, Level 4	Data Validation Report, Level S2BVEM, SDG 1246277
RHMW17	RHMW17-WGFD01LF-2410B	24J0270	10/28/2024		Laboratory Report, SDG 24J0270, Level 2	Laboratory Report, SDG 24J0270, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0270
NMW27	NMW27-WGN01LF-2410B	24J0270	10/28/2024		Laboratory Report, SDG 24J0270, Level 2	Laboratory Report, SDG 24J0270, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0270
RHMW17	RHMW17-WGN01LF-2410B	24J0270	10/28/2024		Laboratory Report, SDG 24J0270, Level 2	Laboratory Report, SDG 24J0270, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0270
RHMW13-04	RHMW13-04-WGN01G-2410B	24J0307	10/28/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
NMW26	NMW26-WGN01LF-2410B	24J0307	10/28/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
NMW26	NMW26-WGN01LF-2410B	580-145231-1	10/28/2024	(b) (4)	Laboratory Report, SDG 580-145231-1, Level 2	Laboratory Report, SDG 580-145231-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145231-1
NMW27	NMW27-WGN01LF-2410B	580-145231-1	10/28/2024		Laboratory Report, SDG 580-145231-1, Level 2	Laboratory Report, SDG 580-145231-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145231-1
RHMW13-04	RHMW13-04-WGN01G-2410B	580-145231-1	10/28/2024		Laboratory Report, SDG 580-145231-1, Level 2	Laboratory Report, SDG 580-145231-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145231-1
RHMW17	RHMW17-WGN01LF-2410B	580-145231-1	10/28/2024		Laboratory Report, SDG 580-145231-1, Level 2	Laboratory Report, SDG 580-145231-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145231-1
NMW26	NMW26-WGN01LF-2410B	B24102429	10/28/2024		Laboratory Report, SDG B24102429, Level 2	Laboratory Report, SDG B24102429, Level 4	Data Validation Report, Level S2BVEM, SDG B24102429, Revision
RHMW13-04	RHMW13-04-WGN01G-2410B	B24102429	10/28/2024		Laboratory Report, SDG B24102429, Level 2	Laboratory Report, SDG B24102429, Level 4	Data Validation Report, Level S2BVEM, SDG B24102429, Revision
RHMW17	RHMW17-WGFD01LF-2410B	B24102429	10/28/2024		Laboratory Report, SDG B24102429, Level 2	Laboratory Report, SDG B24102429, Level 4	Data Validation Report, Level S2BVEM, SDG B24102429, Revision
RHMW17	RHMW17-WGN01LF-2410B	B24102429	10/28/2024		Laboratory Report, SDG B24102429, Level 2	Laboratory Report, SDG B24102429, Level 4	Data Validation Report, Level S2BVEM, SDG B24102429, Revision
RHMW17	RHMW17-WGN01LF-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
RHMW17	RHMW17-WGFD01LF-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
RHMW17	RHMW17-WGFD01B-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
RHMW17	RHMW17-WGN01B-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
NMW27	NMW27-WGN01LF-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
NMW26	NMW26-WGN01LF-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
NMW26	NMW26-WGN01B-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
RHMW13-04	RHMW13-04-WGN01G-2410B	FC19960	10/28/2024		Laboratory Report, SDG FC19960, Level 2, Revision 3	Laboratory Report, SDG FC19960, Level 4, Revision 3	Data Validation Report, Level 2B, SDG FC19960
RHP04C	RHP04C-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
RHMW04	RHMW04-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
RHP04B	RHP04B-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
NMW33	NMW33-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
NMW32	NMW32-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
NMW34	NMW34-WGN01LF-2410B	1246307	10/29/2024		Laboratory Report, SDG 1246307, Level 2	Laboratory Report, SDG 1246307, Level 4	Data Validation Report, Level S2BVEM, SDG 1246307
NMW32	NMW32-WGFD01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
NMW32	NMW32-WGN01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
NMW34	NMW34-WGFD01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
NMW34	NMW34-WGN01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
RHMW04	RHMW04-WGN01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
RHP04B	RHP04B-WGN01LF-2410B	24J0307	10/29/2024		Laboratory Report, SDG 24J0307, Level 2	Laboratory Report, SDG 24J0307, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0307
NMW33	NMW33-WGN01LF-2410B	24J0321	10/29/2024		Laboratory Report, SDG 24J0321, Level 2	Laboratory Report, SDG 24J0321, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0321
RHP04C	RHP04C-WGN01LF-2410B	24J0321	10/29/2024		Laboratory Report, SDG 24J0321, Level 2	Laboratory Report, SDG 24J0321, Level 4	Data Validation Report, Level S2BVEM, SDG 24J0321
RHP04B	RHP04B-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
RHP04C	RHP04C-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
RHMW04	RHMW04-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
RHP04B	RHP04B-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
RHP04C	RHP04C-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
NMW34	NMW34-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
NMW33	NMW33-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
NMW32	NMW32-WGN01LF-2410B	580-145281-1	10/29/2024		Laboratory Report, SDG 580-145281-1, Level 2	Laboratory Report, SDG 580-145281-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145281-1
RHP04B	RHP04B-WGN01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
RHMW04	RHMW04-WGN01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
NMW34	NMW34-WGN01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
RHP04C	RHP04C-WGN01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
NMW32	NMW32-WGN01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
NMW32	NMW32-WGFD01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
NMW34	NMW34-WGFD01LF-2410B	B24102575	10/29/2024		Laboratory Report, SDG B24102575, Level 2	Laboratory Report, SDG B24102575, Level 4	Data Validation Report, Level S4VEM, SDG B24102575
NMW33	NMW33-WGN01LF-2410B	B24102634	10/29/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
NMW25	NMW25-WGN01LF-2410B	1246315	10/30/2024		Laboratory Report, SDG 1246315, Level 2	Laboratory Report, SDG 1246315, Level 4	Data Validation Report, Level S2BVEM, SDG 1246315
NMW30	NMW30-WGN01LF-2410B	1246315	10/30/2024		Laboratory Report, SDG 1246315, Level 2	Laboratory Report, SDG 1246315, Level 4	Data Validation Report, Level S2BVEM, SDG 1246315
RHMW18	RHMW18-WGN01LF-2410B	1246315	10/30/2024		Laboratory Report, SDG 1246315, Level 2	Laboratory Report, SDG 1246315, Level 4	Data Validation Report, Level S2BVEM, SDG 1246315
RHP08B	RHP08B-WGN01LF-2410B	1246315	10/30/2024		Laboratory Report, SDG 1246315, Level 2	Laboratory Report, SDG 1246315, Level 4	Data Validation Report, Level S2BVEM, SDG 1246315
RHP08C	RHP08C-WGN01LF-2410B	1246315	10/30/2024		Laboratory Report, SDG 1246315, Level 2	Laboratory Report, SDG 1246315, Level 4	Data Validation Report, Level S2BVEM, SDG 1246315
RHP08C	RHP08C-WGN01LF-2410B	24K0003	10/30/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
RHP08B	RHP08B-WGN01LF-2410B	24K0003	10/30/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
NMW25	NMW25-WGN01LF-2410B	24K0003	10/30/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
NMW30	NMW30-WGN01LF-2410B	24K0003	10/30/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
RHMW18	RHMW18-WGN01LF-2410B	24K0003	10/30/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
NMW25	NMW25-WGN01LF-2410B	580-145334-1	10/30/2024		Laboratory Report, SDG 580-145334-1, Level 2	Laboratory Report, SDG 580-145334-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145334-1
NMW30	NMW30-WGN01LF-2410B	580-145334-1	10/30/2024		Laboratory Report, SDG 580-145334-1, Level 2	Laboratory Report, SDG 580-145334-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145334-1
RHMW18	RHMW18-WGN01LF-2410B	580-145334-1	10/30/2024		Laboratory Report, SDG 580-145334-1, Level 2	Laboratory Report, SDG 580-145334-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145334-1
RHP08B	RHP08B-WGN01LF-2410B	580-145334-1	10/30/2024		Laboratory Report, SDG 580-145334-1, Level 2	Laboratory Report, SDG 580-145334-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145334-1
RHP08C	RHP08C-WGN01LF-2410B	580-145334-1	10/30/2024		Laboratory Report, SDG 580-145334-1, Level 2	Laboratory Report, SDG 580-145334-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145334-1
NMW25	NMW25-WGN01LF-2410B	B24102634	10/30/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
NMW30	NMW30-WGN01LF-2410B	B24102634	10/30/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
RHMW18	RHMW18-WGN01LF-2410B	B24102634	10/30/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
RHP08B	RHP08B-WGN01LF-2410B	B24102634	10/30/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
RHP08C	RHP08C-WGN01LF-2410B	B24102634	10/30/2024		Laboratory Report, SDG B24102634, Level 2, Revision	Laboratory Report, SDG B24102634, Level 4	Data Validation Report, Level S4VEM, SDG B24102634
RHMW12A	RHMW12A-WGN01LF-2410B	1246341	10/31/2024		Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341
OWDFMW08A	OWDFMW08A-WGN01LF-2410B	1246341	10/31/2024		Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW20	RHMW20-WGN01LF-2410B	1246341	10/31/2024	(b) (4)	Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341
NMW24	NMW24-WGN01LF-2410B	1246341	10/31/2024		Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341
HDMW2253-03	HDMW2253-03-WGN01LF-2410B	1246341	10/31/2024		Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341
OWDFMW03A	OWDFMW03A-WGN01LF-2410B	1246341	10/31/2024		Laboratory Report, SDG 1246341, Level 2	Laboratory Report, SDG 1246341, Level 4	Data Validation Report, Level S2BVEM, SDG 1246341
OWDFMW03A	OWDFMW03A-WGN01LF-2410B	24K0003	10/31/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
OWDFMW08A	OWDFMW08A-WGN01LF-2410B	24K0003	10/31/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
HDMW2253-03	HDMW2253-03-WGN01LF-2410B	24K0003	10/31/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
NMW24	NMW24-WGN01LF-2410B	24K0003	10/31/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
RHMW12A	RHMW12A-WGN01LF-2410B	24K0003	10/31/2024		Laboratory Report, SDG 24K0003, Level 2	Laboratory Report, SDG 24K0003, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0003
RHMW20	RHMW20-WGN01LF-2410B	24K0008	10/31/2024		Laboratory Report, SDG 24K0008, Level 2	Laboratory Report, SDG 24K0008, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0008
HDMW2253-03	HDMW2253-03-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
NMW24	NMW24-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
OWDFMW03A	OWDFMW03A-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
OWDFMW08A	OWDFMW08A-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
RHMW12A	RHMW12A-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
RHMW20	RHMW20-WGN01LF-2410B	580-145397-1	10/31/2024		Laboratory Report, SDG 580-145397-1, Level 2	Laboratory Report, SDG 580-145397-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145397-1
HDMW2253-03	HDMW2253-03-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
NMW24	NMW24-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
OWDFMW03A	OWDFMW03A-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
OWDFMW08A	OWDFMW08A-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
RHMW12A	RHMW12A-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
RHMW20	RHMW20-WGN01LF-2410B	B24110059	10/31/2024		Laboratory Report, SDG B24110059, Level 2	Laboratory Report, SDG B24110059, Level 4	Data Validation Report, Level S4VEM, SDG B24110059
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RHP06	RHP06-WGN01LF-2411A	1246372	11/4/2024	(b) (4)	Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHMW21	RHMW21-WGN01LF-2411A	1246372	11/4/2024		Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHP08	RHP08-WGN01LF-2411A	1246372	11/4/2024		Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHMW02	RHMW02-WGN01LF-2411A	1246372	11/4/2024		Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHMW01R	RHMW01R-WGN01LF-2411A	1246372	11/4/2024		Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHMW08	RHMW08-WGN01LF-2411A	1246372	11/4/2024		Laboratory Report, SDG 1246372, Level 2	Laboratory Report, SDG 1246372, Level 4	Data Validation Report, Level S4VEM, SDG 1246372
RHMW01R	RHMW01R-WGN01LF-2411A	24K0017	11/4/2024		Laboratory Report, SDG 24K0017, Level 2	Laboratory Report, SDG 24K0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0017
RHMW02	RHMW02-WGN01LF-2411A	24K0017	11/4/2024		Laboratory Report, SDG 24K0017, Level 2	Laboratory Report, SDG 24K0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0017
RHP06	RHP06-WGN01LF-2411A	24K0017	11/4/2024		Laboratory Report, SDG 24K0017, Level 2	Laboratory Report, SDG 24K0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0017
RHP08	RHP08-WGN01LF-2411A	24K0017	11/4/2024		Laboratory Report, SDG 24K0017, Level 2	Laboratory Report, SDG 24K0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0017
RHMW08	RHMW08-WGN01LF-2411A	24K0031	11/4/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHMW21	RHMW21-WGN01LF-2411A	24K0031	11/4/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHP08	RHP08-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHP06	RHP06-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHMW21	RHMW21-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHMW01R	RHMW01R-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHMW02	RHMW02-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHMW08	RHMW08-WGN01LF-2411A	580-145507-1	11/4/2024		Laboratory Report, SDG 580-145507-1, Level 2	Laboratory Report, SDG 580-145507-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145507-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2411A	1246415	11/5/2024		Laboratory Report, SDG 1246415, Level 2	Laboratory Report, SDG 1246415, Level 4	Data Validation Report, Level S2BVEM, SDG 1246415
RHMW03	RHMW03-WGN01LF-2411A	1246415	11/5/2024		Laboratory Report, SDG 1246415, Level 2	Laboratory Report, SDG 1246415, Level 4	Data Validation Report, Level S2BVEM, SDG 1246415
RHMW15-05	RHMW15-05-WGN01G-2411A	1246415	11/5/2024		Laboratory Report, SDG 1246415, Level 2	Laboratory Report, SDG 1246415, Level 4	Data Validation Report, Level S2BVEM, SDG 1246415
RHMW2254-01	RHMW2254-01-WGN01LF-2411A	1246415	11/5/2024		Laboratory Report, SDG 1246415, Level 2	Laboratory Report, SDG 1246415, Level 4	Data Validation Report, Level S2BVEM, SDG 1246415
RHSF-PUMP	RHSF-PUMP-WGN01G-2411A	24K0031	11/5/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHMW2254-01	RHMW2254-01-WGN01LF-2411A	24K0031	11/5/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHMW15-05	RHMW15-05-WGN01G-2411A	24K0031	11/5/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHMW03	RHMW03-WGN01LF-2411A	24K0031	11/5/2024		Laboratory Report, SDG 24K0031, Level 2	Laboratory Report, SDG 24K0031, Level 4	Data Validation Report, Level S4VEM, SDG 24K0031
RHMW03	RHMW03-WGN01LF-2411A	580-145550-1	11/5/2024		Laboratory Report, SDG 580-145550-1, Level 2	Laboratory Report, SDG 580-145550-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145550-1
RHMW15-05	RHMW15-05-WGN01G-2411A	580-145550-1	11/5/2024		Laboratory Report, SDG 580-145550-1, Level 2	Laboratory Report, SDG 580-145550-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145550-1
RHMW2254-01	RHMW2254-01-WGN01LF-2411A	580-145550-1	11/5/2024		Laboratory Report, SDG 580-145550-1, Level 2	Laboratory Report, SDG 580-145550-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145550-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2411A	580-145550-1	11/5/2024		Laboratory Report, SDG 580-145550-1, Level 2	Laboratory Report, SDG 580-145550-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145550-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW2254-01	RHMW2254-01-WGN01LF-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW2254-01	RHMW2254-01-WGN01B-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW15-05	RHMW15-05-WGN01G-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW03	RHMW03-WGN01LF-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW03	RHMW03-WGN01B-2411A	FC20217	11/5/2024		Laboratory Report, SDG FC20217, Level 2, Revision 2	Laboratory Report, SDG FC20217, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC20217
RHMW05	RHMW05-WGN01LF-2411A	1246429	11/6/2024		Laboratory Report, SDG 1246429, Level 2	Laboratory Report, SDG 1246429, Level 4	Data Validation Report, Level S2BVEM, SDG 1246429
RHMW11-05	RHMW11-05-WGN01G-2411A	1246429	11/6/2024		Laboratory Report, SDG 1246429, Level 2	Laboratory Report, SDG 1246429, Level 4	Data Validation Report, Level S2BVEM, SDG 1246429
RHMW14-03	RHMW14-03-WGN01G-2411A	1246429	11/6/2024		Laboratory Report, SDG 1246429, Level 2	Laboratory Report, SDG 1246429, Level 4	Data Validation Report, Level S2BVEM, SDG 1246429
RHP07	RHP07-WGN01LF-2411A	1246429	11/6/2024		Laboratory Report, SDG 1246429, Level 2	Laboratory Report, SDG 1246429, Level 4	Data Validation Report, Level S2BVEM, SDG 1246429
RHP07	RHP07-WGN01LF-2411A	24K0036	11/6/2024		Laboratory Report, SDG 24K0036, Level 2	Laboratory Report, SDG 24K0036, Level 4	Data Validation Report, Level S4VEM, SDG 24K0036
RHMW14-03	RHMW14-03-WGN01G-2411A	24K0036	11/6/2024		Laboratory Report, SDG 24K0036, Level 2	Laboratory Report, SDG 24K0036, Level 4	Data Validation Report, Level S4VEM, SDG 24K0036
RHMW05	RHMW05-WGN01LF-2411A	24K0036	11/6/2024		Laboratory Report, SDG 24K0036, Level 2	Laboratory Report, SDG 24K0036, Level 4	Data Validation Report, Level S4VEM, SDG 24K0036

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW11-05	RHMW11-05-WGN01G-2411A	24K0044	11/6/2024	(b) (4)	Laboratory Report, SDG 24K0044, Level 2	Laboratory Report, SDG 24K0044, Level 4	Data Validation Report, Level S4VEM, SDG 24K0044
RHMW05	RHMW05-WGN01LF-2411A	580-145577-1	11/6/2024		Laboratory Report, SDG 580-145577-1, Level 2	Laboratory Report, SDG 580-145577-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145577-1
RHMW11-05	RHMW11-05-WGN01G-2411A	580-145577-1	11/6/2024		Laboratory Report, SDG 580-145577-1, Level 2	Laboratory Report, SDG 580-145577-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145577-1
RHMW14-03	RHMW14-03-WGN01G-2411A	580-145577-1	11/6/2024		Laboratory Report, SDG 580-145577-1, Level 2	Laboratory Report, SDG 580-145577-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145577-1
RHP07	RHP07-WGN01LF-2411A	580-145577-1	11/6/2024		Laboratory Report, SDG 580-145577-1, Level 2	Laboratory Report, SDG 580-145577-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145577-1
RHP07	RHP07-WGN01LF-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHP07	RHP07-WGN01B-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHMW14-03	RHMW14-03-WGN01G-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHMW11-05	RHMW11-05-WGN01G-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHMW05	RHMW05-WGN01LF-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHMW05	RHMW05-WGN01B-2411A	FC20258	11/6/2024		Laboratory Report, SDG FC20258, Level 2, Revision 1	Laboratory Report, SDG FC20258, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20258
RHMW06	RHMW06-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHMW16	RHMW16-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHP01	RHP01-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHP02	RHP02-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHP03	RHP03-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHP04A	RHP04A-WGN01LF-2411A	1246465_Rev1	11/7/2024		Laboratory Report, SDG 1246465, Level 2	Laboratory Report, SDG 1246465, Level 4	Data Validation Report, Level S2BVEM, SDG 1246465
RHP04A	RHP04A-WGN01LF-2411A	24K0044	11/7/2024		Laboratory Report, SDG 24K0044, Level 2	Laboratory Report, SDG 24K0044, Level 4	Data Validation Report, Level S4VEM, SDG 24K0044
RHP02	RHP02-WGN01LF-2411A	24K0044	11/7/2024		Laboratory Report, SDG 24K0044, Level 2	Laboratory Report, SDG 24K0044, Level 4	Data Validation Report, Level S4VEM, SDG 24K0044
RHP03	RHP03-WGN01LF-2411A	24K0044	11/7/2024		Laboratory Report, SDG 24K0044, Level 2	Laboratory Report, SDG 24K0044, Level 4	Data Validation Report, Level S4VEM, SDG 24K0044
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RHMW16	RHMW16-WGN01LF-2411A	24K0044	11/7/2024		Laboratory Report, SDG 24K0044, Level 2	Laboratory Report, SDG 24K0044, Level 4	Data Validation Report, Level S4VEM, SDG 24K0044
RHP01	RHP01-WGN01LF-2411A	24K0062	11/7/2024		Laboratory Report, SDG 24K0062, Level 2	Laboratory Report, SDG 24K0062, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0062
RHMW06	RHMW06-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHMW16	RHMW16-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHP01	RHP01-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHP02	RHP02-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHP03	RHP03-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHP04A	RHP04A-WGN01LF-2411A	580-145634-1	11/7/2024		Laboratory Report, SDG 580-145634-1, Level 2	Laboratory Report, SDG 580-145634-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-145634-1
RHP04A	RHP04A-WGN01B-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP04A	RHP04A-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP03	RHP03-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP02	RHP02-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP02	RHP02-WGN01B-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP03	RHP03-WGN01B-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP01	RHP01-WGN01B-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHP01	RHP01-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHMW16	RHMW16-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHMW06	RHMW06-WGN01LF-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHMW06	RHMW06-WGN01B-2411A	FC20288	11/7/2024		Laboratory Report, SDG FC20288, Level 2, Revision 1	Laboratory Report, SDG FC20288, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20288
RHMW19	RHMW19-WGN01LF-2411A	1246509	11/8/2024		Laboratory Report, SDG 1246509, Level 2	Laboratory Report, SDG 1246509, Level 4	Data Validation Report, Level S2BVEM, SDG 1246509
RHP05	RHP05-WGN01LF-2411A	1246509	11/8/2024		Laboratory Report, SDG 1246509, Level 2	Laboratory Report, SDG 1246509, Level 4	Data Validation Report, Level S2BVEM, SDG 1246509
RHMW09	RHMW09-WGN01LF-2411A	1246509	11/8/2024		Laboratory Report, SDG 1246509, Level 2	Laboratory Report, SDG 1246509, Level 4	Data Validation Report, Level S2BVEM, SDG 1246509
RHMW10	RHMW10-WGN01LF-2411A	1246509	11/8/2024		Laboratory Report, SDG 1246509, Level 2	Laboratory Report, SDG 1246509, Level 4	Data Validation Report, Level S2BVEM, SDG 1246509
RHMW09	RHMW09-WGN01LF-2411A	24K0062	11/8/2024		Laboratory Report, SDG 24K0062, Level 2	Laboratory Report, SDG 24K0062, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0062
RHMW10	RHMW10-WGN01LF-2411A	24K0062	11/8/2024		Laboratory Report, SDG 24K0062, Level 2	Laboratory Report, SDG 24K0062, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0062
RHMW19	RHMW19-WGN01LF-2411A	24K0062	11/8/2024		Laboratory Report, SDG 24K0062, Level 2	Laboratory Report, SDG 24K0062, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0062
RHP05	RHP05-WGN01LF-2411A	24K0062	11/8/2024		Laboratory Report, SDG 24K0062, Level 2	Laboratory Report, SDG 24K0062, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0062
RHP05	RHP05-WGN01LF-2411A	580-145681-1	11/8/2024		Laboratory Report, SDG 580-145681-1, Level 2	Laboratory Report, SDG 580-145681-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145681-1
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RHMW19	RHMW19-WGN01LF-2411A	580-145681-1	11/8/2024		Laboratory Report, SDG 580-145681-1, Level 2	Laboratory Report, SDG 580-145681-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145681-1
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RHMW19	RHMW19-WGN01LF-2411A	FC20309	11/8/2024		Laboratory Report, SDG FC20309, Level 2, Revision 2	Laboratory Report, SDG FC20309, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20309
RHMW19	RHMW19-WGN01B-2411A	FC20309	11/8/2024		Laboratory Report, SDG FC20309, Level 2, Revision 2	Laboratory Report, SDG FC20309, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20309
RHMW10	RHMW10-WGN01LF-2411A	FC20309	11/8/2024		Laboratory Report, SDG FC20309, Level 2, Revision 2	Laboratory Report, SDG FC20309, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20309
RHMW10	RHMW10-WGN01B-2411A	FC20309	11/8/2024		Laboratory Report, SDG FC20309, Level 2, Revision 2	Laboratory Report, SDG FC20309, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20309
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NMW25	NMW25-WGN01LF-2411A	1246509	11/11/2024		Laboratory Report, SDG 1246509, Level 2	Laboratory Report, SDG 1246509, Level 4	Data Validation Report, Level S2BVEM, SDG 1246509
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Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

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NMW24	NMW24-WGN01LF-2411A	24K0071	11/11/2024		Laboratory Report, SDG 24K0071, Level 2	Laboratory Report, SDG 24K0071, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0071
NMW25	NMW25-WGN01LF-2411A	24K0071	11/11/2024		Laboratory Report, SDG 24K0071, Level 2	Laboratory Report, SDG 24K0071, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0071
RHMW04	RHMW04-WGN01LF-2411A	24K0071	11/11/2024		Laboratory Report, SDG 24K0071, Level 2	Laboratory Report, SDG 24K0071, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0071
RHP04B	RHP04B-WGN01LF-2411A	24K0071	11/11/2024		Laboratory Report, SDG 24K0071, Level 2	Laboratory Report, SDG 24K0071, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0071
RHP04C	RHP04C-WGN01LF-2411A	24K0071	11/11/2024		Laboratory Report, SDG 24K0071, Level 2	Laboratory Report, SDG 24K0071, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0071
RHP04C	RHP04C-WGN01LF-2411A	580-145726-1	11/11/2024		Laboratory Report, SDG 580-145726-1, Level 2	Laboratory Report, SDG 580-145726-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145726-1
RHMW04	RHMW04-WGN01LF-2411A	580-145726-1	11/11/2024		Laboratory Report, SDG 580-145726-1, Level 2	Laboratory Report, SDG 580-145726-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145726-1
RHP04B	RHP04B-WGN01LF-2411A	580-145726-1	11/11/2024		Laboratory Report, SDG 580-145726-1, Level 2	Laboratory Report, SDG 580-145726-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145726-1
NMW24	NMW24-WGN01LF-2411A	580-145726-1	11/11/2024		Laboratory Report, SDG 580-145726-1, Level 2	Laboratory Report, SDG 580-145726-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145726-1
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RHP04C	RHP04C-WGN01LF-2411A	FC20354	11/11/2024		Laboratory Report, SDG FC20354, Level 2, Revision 1	Laboratory Report, SDG FC20354, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20354
NMW24	NMW24-WGN01B-2411A	FC20354	11/11/2024		Laboratory Report, SDG FC20354, Level 2, Revision 1	Laboratory Report, SDG FC20354, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20354
NMW24	NMW24-WGN01LF-2411A	FC20354	11/11/2024		Laboratory Report, SDG FC20354, Level 2, Revision 1	Laboratory Report, SDG FC20354, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20354
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RHMW04	RHMW04-WGN01LF-2411A	FC20354	11/11/2024		Laboratory Report, SDG FC20354, Level 2, Revision 1	Laboratory Report, SDG FC20354, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20354
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RHMW17	RHMW17-WGN01LF-2411A	24K0086	11/12/2024		Laboratory Report, SDG 24K0086, Level 2	Laboratory Report, SDG 24K0086, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0086
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NMW26	NMW26-WGN01LF-2411A	580-145767-1	11/12/2024		Laboratory Report, SDG 580-145767-1, Level 2	Laboratory Report, SDG 580-145767-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145767-1
RHMW17	RHMW17-WGN01LF-2411A	580-145767-1	11/12/2024		Laboratory Report, SDG 580-145767-1, Level 2	Laboratory Report, SDG 580-145767-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145767-1
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RHMW17	RHMW17-WGN01LF-2411A	FC20403	11/12/2024		Laboratory Report, SDG FC20403, Level 2, Revision 2	Laboratory Report, SDG FC20403, Level 4, Revision 2	Data Validation Report, Level 4, SDG FC20403
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NMW32	NMW32-WGN01LF-2411A	24K0099	11/13/2024		Laboratory Report, SDG 24K0099, Level 2	Laboratory Report, SDG 24K0099, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0099
NMW33	NMW33-WGN01LF-2411A	24K0099	11/13/2024		Laboratory Report, SDG 24K0099, Level 2	Laboratory Report, SDG 24K0099, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0099
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OWDFMW03A	OWDFMW03A-WGN01LF-2411A	580-145801-1	11/13/2024		Laboratory Report, SDG 580-145801-1, Level 2	Laboratory Report, SDG 580-145801-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145801-1
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NMW32	NMW32-WGN01LF-2411A	580-145801-1	11/13/2024		Laboratory Report, SDG 580-145801-1, Level 2	Laboratory Report, SDG 580-145801-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145801-1
NMW30	NMW30-WGN01LF-2411A	1246572	11/14/2024		Laboratory Report, SDG 1246572, Level 2	Laboratory Report, SDG 1246572, Level 4	Data Validation Report, Level S2BVEM, SDG 1246572
RHMW18	RHMW18-WGN01LF-2411A	1246572	11/14/2024		Laboratory Report, SDG 1246572, Level 2	Laboratory Report, SDG 1246572, Level 4	Data Validation Report, Level S2BVEM, SDG 1246572
RHP08B	RHP08B-WGN01LF-2411A	1246572	11/14/2024		Laboratory Report, SDG 1246572, Level 2	Laboratory Report, SDG 1246572, Level 4	Data Validation Report, Level S2BVEM, SDG 1246572
RHP08C	RHP08C-WGN01LF-2411A	1246572	11/14/2024		Laboratory Report, SDG 1246572, Level 2	Laboratory Report, SDG 1246572, Level 4	Data Validation Report, Level S2BVEM, SDG 1246572
NMW30	NMW30-WGN01LF-2411A	24K0115	11/14/2024		Laboratory Report, SDG 24K0115, Level 2	Laboratory Report, SDG 24K0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0115
RHMW18	RHMW18-WGN01LF-2411A	24K0115	11/14/2024		Laboratory Report, SDG 24K0115, Level 2	Laboratory Report, SDG 24K0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0115
RHP08B	RHP08B-WGN01LF-2411A	24K0115	11/14/2024		Laboratory Report, SDG 24K0115, Level 2	Laboratory Report, SDG 24K0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0115
RHP08C	RHP08C-WGN01LF-2411A	24K0115	11/14/2024		Laboratory Report, SDG 24K0115, Level 2	Laboratory Report, SDG 24K0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0115
NMW30	NMW30-WGN01LF-2411A	580-145831-1	11/14/2024		Laboratory Report, SDG 580-145831-1, Level 2	Laboratory Report, SDG 580-145831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145831-1
RHMW18	RHMW18-WGN01LF-2411A	580-145831-1	11/14/2024		Laboratory Report, SDG 580-145831-1, Level 2	Laboratory Report, SDG 580-145831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145831-1
RHP08B	RHP08B-WGN01LF-2411A	580-145831-1	11/14/2024		Laboratory Report, SDG 580-145831-1, Level 2	Laboratory Report, SDG 580-145831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145831-1
RHP08C	RHP08C-WGN01LF-2411A	580-145831-1	11/14/2024		Laboratory Report, SDG 580-145831-1, Level 2	Laboratory Report, SDG 580-145831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145831-1
RHP08B	RHP08B-WGN01LF-2411A	FC20484	11/14/2024		Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484
RHMW18	RHMW18-WGN01LF-2411A	FC20484	11/14/2024		Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484
RHP08C	RHP08C-WGN01LF-2411A	FC20484	11/14/2024		Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484
NMW30	NMW30-WGN01LF-2411A	FC20484	11/14/2024		Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
NMW30	NMW30-WGN01B-2411A	FC20484	11/14/2024	(b) (4)	Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484
RHMW18	RHMW18-WGN01B-2411A	FC20484	11/14/2024		Laboratory Report, SDG FC20484, Level 2	Laboratory Report, SDG FC20484, Level 4	Data Validation Report, Level 2B, SDG FC20484
HDMW2253-03	HDMW2253-03-WGN01LF-2411A	1246607	11/15/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
NMW27	NMW27-WGN01LF-2411A	1246607	11/15/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
NMW34	NMW34-WGN01LF-2411A	1246607	11/15/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW12A	RHMW12A-WGN01LF-2411A	1246607	11/15/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW12A	RHMW12A-WGN01LF-2411A	24K0124	11/15/2024		Laboratory Report, SDG 24K0124, Level 2	Laboratory Report, SDG 24K0124, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0124
NMW34	NMW34-WGN01LF-2411A	24K0124	11/15/2024		Laboratory Report, SDG 24K0124, Level 2	Laboratory Report, SDG 24K0124, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0124
NMW27	NMW27-WGN01LF-2411A	24K0124	11/15/2024		Laboratory Report, SDG 24K0124, Level 2	Laboratory Report, SDG 24K0124, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0124
HDMW2253-03	HDMW2253-03-WGN01LF-2411A	24K0124	11/15/2024		Laboratory Report, SDG 24K0124, Level 2	Laboratory Report, SDG 24K0124, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0124
HDMW2253-03	HDMW2253-03-WGN01LF-2411A	580-145872-1	11/15/2024		Laboratory Report, SDG 580-145872-1, Level 2	Laboratory Report, SDG 580-145872-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145872-1
NMW27	NMW27-WGN01LF-2411A	580-145872-1	11/15/2024		Laboratory Report, SDG 580-145872-1, Level 2	Laboratory Report, SDG 580-145872-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145872-1
NMW34	NMW34-WGN01LF-2411A	580-145872-1	11/15/2024		Laboratory Report, SDG 580-145872-1, Level 2	Laboratory Report, SDG 580-145872-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145872-1
RHMW12A	RHMW12A-WGN01LF-2411A	580-145872-1	11/15/2024		Laboratory Report, SDG 580-145872-1, Level 2	Laboratory Report, SDG 580-145872-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145872-1
RHMW12A	RHMW12A-WGN01LF-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
NMW34	NMW34-WGN01LF-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
NMW34	NMW34-WGFD01LF-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
NMW34	NMW34-WGN01B-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
NMW27	NMW27-WGN01LF-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
HDMW2253-03	HDMW2253-03-WGN01LF-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
NMW34	NMW34-WGFD01B-2411A	FC20518	11/15/2024		Laboratory Report, SDG FC20518, Level 2, Revision 1	Laboratory Report, SDG FC20518, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20518
RHMW01R	RHMW01R-WGN01LF-2411B	1246607	11/18/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW02	RHMW02-WGN01LF-2411B	1246607	11/18/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW08	RHMW08-WGN01LF-2411B	1246607	11/18/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW15-05	RHMW15-05-WGN01G-2411B	1246607	11/18/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW21	RHMW21-WGN01LF-2411B	1246607	11/18/2024		Laboratory Report, SDG 1246607, Level 2	Laboratory Report, SDG 1246607, Level 4	Data Validation Report, Level S2BVEM, SDG 1246607
RHMW21	RHMW21-WGN01LF-2411B	24K0135	11/18/2024		Laboratory Report, SDG 24K0135, Level 2	Laboratory Report, SDG 24K0135, Level 4	Data Validation Report, Level S4VEM, SDG 24K0135
RHMW15-05	RHMW15-05-WGN01G-2411B	24K0135	11/18/2024		Laboratory Report, SDG 24K0135, Level 2	Laboratory Report, SDG 24K0135, Level 4	Data Validation Report, Level S4VEM, SDG 24K0135
RHMW02	RHMW02-WGN01LF-2411B	24K0135	11/18/2024		Laboratory Report, SDG 24K0135, Level 2	Laboratory Report, SDG 24K0135, Level 4	Data Validation Report, Level S4VEM, SDG 24K0135
RHMW01R	RHMW01R-WGN01LF-2411B	24K0135	11/18/2024		Laboratory Report, SDG 24K0135, Level 2	Laboratory Report, SDG 24K0135, Level 4	Data Validation Report, Level S4VEM, SDG 24K0135
RHMW08	RHMW08-WGN01LF-2411B	24K0135	11/18/2024		Laboratory Report, SDG 24K0135, Level 2	Laboratory Report, SDG 24K0135, Level 4	Data Validation Report, Level S4VEM, SDG 24K0135
RHMW01R	RHMW01R-WGN01LF-2411B	580-145928-1	11/18/2024		Laboratory Report, SDG 580-145928-1, Level 2	Laboratory Report, SDG 580-145928-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145928-1
RHMW02	RHMW02-WGN01LF-2411B	580-145928-1	11/18/2024		Laboratory Report, SDG 580-145928-1, Level 2	Laboratory Report, SDG 580-145928-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145928-1
RHMW08	RHMW08-WGN01LF-2411B	580-145928-1	11/18/2024		Laboratory Report, SDG 580-145928-1, Level 2	Laboratory Report, SDG 580-145928-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145928-1
RHMW15-05	RHMW15-05-WGN01G-2411B	580-145928-1	11/18/2024		Laboratory Report, SDG 580-145928-1, Level 2	Laboratory Report, SDG 580-145928-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145928-1
RHMW21	RHMW21-WGN01LF-2411B	580-145928-1	11/18/2024		Laboratory Report, SDG 580-145928-1, Level 2	Laboratory Report, SDG 580-145928-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145928-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHP06	RHP06-WGN01LF-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHP08	RHP08-WGN01LF-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHMW2254-01	RHMW2254-01-WGN01LF-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHMW03	RHMW03-WGN01LF-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHP05	RHP05-WGN01LF-2411B	1246631	11/19/2024		Laboratory Report, SDG 1246631, Level 2	Laboratory Report, SDG 1246631, Level 4	Data Validation Report, Level S4VEM, SDG 1246631
RHMW03	RHMW03-WGN01LF-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHMW2254-01	RHMW2254-01-WGN01LF-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHP05	RHP05-WGN01LF-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHP06	RHP06-WGN01LF-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHP08	RHP08-WGN01LF-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHSF-PUMP	RHSF-PUMP-WGN01G-2411B	24K0146	11/19/2024		Laboratory Report, SDG 24K0146, Level 2	Laboratory Report, SDG 24K0146, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0146
RHSF-PUMP	RHSF-PUMP-WGN01G-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHP08	RHP08-WGN01LF-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHP06	RHP06-WGN01LF-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHMW2254-01	RHMW2254-01-WGN01LF-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHMW03	RHMW03-WGN01LF-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHP05	RHP05-WGN01LF-2411B	580-145984-1	11/19/2024		Laboratory Report, SDG 580-145984-1, Level 2	Laboratory Report, SDG 580-145984-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-145984-1
RHP06	RHP06-WGN01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHSF-PUMP	RHSF-PUMP-WGN01G-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP08	RHP08-WGN01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP08	RHP08-WGN01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP08	RHP08-WGFD01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP08	RHP08-WGFD01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP06	RHP06-WGN01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHMW2254-01	RHMW2254-01-WGN01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP05	RHP05-WGN01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP05	RHP05-WGFD01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP05	RHP05-WGFD01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHMW2254-01	RHMW2254-01-WGN01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW03	RHMW03-WGN01LF-2411B	FC20620	11/19/2024	(b) (4)	Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHMW03	RHMW03-WGN01B-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP05	RHP05-WGN01LF-2411B	FC20620	11/19/2024		Laboratory Report, SDG FC20620, Level 2	Laboratory Report, SDG FC20620, Level 4	Data Validation Report, Level 2B, SDG FC20620
RHP07	RHP07-WGN01LF-2411B	1246643	11/20/2024		Laboratory Report, SDG 1246643, Level 2	Laboratory Report, SDG 1246643, Level 4	Data Validation Report, Level S2BVEM, SDG 1246643
RHMW05	RHMW05-WGN01LF-2411B	1246643	11/20/2024		Laboratory Report, SDG 1246643, Level 2	Laboratory Report, SDG 1246643, Level 4	Data Validation Report, Level S2BVEM, SDG 1246643
RHMW11-05	RHMW11-05-WGN01G-2411B	1246643	11/20/2024		Laboratory Report, SDG 1246643, Level 2	Laboratory Report, SDG 1246643, Level 4	Data Validation Report, Level S2BVEM, SDG 1246643
RHMW14-03	RHMW14-03-WGN01G-2411B	1246643	11/20/2024		Laboratory Report, SDG 1246643, Level 2	Laboratory Report, SDG 1246643, Level 4	Data Validation Report, Level S2BVEM, SDG 1246643
RHMW16	RHMW16-WGN01LF-2411B	1246643	11/20/2024		Laboratory Report, SDG 1246643, Level 2	Laboratory Report, SDG 1246643, Level 4	Data Validation Report, Level S2BVEM, SDG 1246643
RHMW14-03	RHMW14-03-WGN01G-2411B	24K0158	11/20/2024		Laboratory Report, SDG 24K0158, Level 2	Laboratory Report, SDG 24K0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0158
RHP07	RHP07-WGN01LF-2411B	24K0158	11/20/2024		Laboratory Report, SDG 24K0158, Level 2	Laboratory Report, SDG 24K0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0158
RHMW05	RHMW05-WGN01LF-2411B	24K0158	11/20/2024		Laboratory Report, SDG 24K0158, Level 2	Laboratory Report, SDG 24K0158, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0158
RHMW11-05	RHMW11-05-WGN01G-2411B	24K0178	11/20/2024		Laboratory Report, SDG 24K0178, Level 2	Laboratory Report, SDG 24K0178, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0178
RHMW16	RHMW16-WGN01LF-2411B	24K0178	11/20/2024		Laboratory Report, SDG 24K0178, Level 2	Laboratory Report, SDG 24K0178, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0178
RHMW05	RHMW05-WGN01LF-2411B	580-146023-1	11/20/2024		Laboratory Report, SDG 580-146023-1, Level 2	Laboratory Report, SDG 580-146023-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146023-1
RHMW11-05	RHMW11-05-WGN01G-2411B	580-146023-1	11/20/2024		Laboratory Report, SDG 580-146023-1, Level 2	Laboratory Report, SDG 580-146023-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146023-1
RHMW14-03	RHMW14-03-WGN01G-2411B	580-146023-1	11/20/2024		Laboratory Report, SDG 580-146023-1, Level 2	Laboratory Report, SDG 580-146023-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146023-1
RHMW16	RHMW16-WGN01LF-2411B	580-146023-1	11/20/2024		Laboratory Report, SDG 580-146023-1, Level 2	Laboratory Report, SDG 580-146023-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146023-1
RHP07	RHP07-WGN01LF-2411B	580-146023-1	11/20/2024		Laboratory Report, SDG 580-146023-1, Level 2	Laboratory Report, SDG 580-146023-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146023-1
RHMW05	RHMW05-WGN01B-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHMW05	RHMW05-WGN01LF-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHMW11-05	RHMW11-05-WGN01G-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHMW14-03	RHMW14-03-WGN01G-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHMW16	RHMW16-WGN01LF-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHP07	RHP07-WGN01B-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHP07	RHP07-WGN01LF-2411B	FC20681	11/20/2024		Laboratory Report, SDG FC20681, Level 2	Laboratory Report, SDG FC20681, Level 4	Data Validation Report, Level 2B, SDG FC20681
RHP03	RHP03-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHP04A	RHP04A-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHP02	RHP02-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHP01	RHP01-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHMW10	RHMW10-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHMW06	RHMW06-WGN01LF-2411B	1246658	11/21/2024		Laboratory Report, SDG 1246658, Level 2	Laboratory Report, SDG 1246658, Level 4	Data Validation Report, Level S2BVEM, SDG 1246658
RHMW06	RHMW06-WGN01LF-2411B	24K0178	11/21/2024		Laboratory Report, SDG 24K0178, Level 2	Laboratory Report, SDG 24K0178, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0178
RHP02	RHP02-WGN01LF-2411B	24K0178	11/21/2024		Laboratory Report, SDG 24K0178, Level 2	Laboratory Report, SDG 24K0178, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0178
RHP04A	RHP04A-WGN01LF-2411B	24K0178	11/21/2024		Laboratory Report, SDG 24K0178, Level 2	Laboratory Report, SDG 24K0178, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0178
RHMW10	RHMW10-WGN01LF-2411B	24K0184	11/21/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHP01	RHP01-WGN01LF-2411B	24K0184	11/21/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHP03	RHP03-WGN01LF-2411B	24K0184	11/21/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHMW06	RHMW06-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHMW10	RHMW10-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHP01	RHP01-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHP02	RHP02-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHP03	RHP03-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHP04A	RHP04A-WGN01LF-2411B	580-146071-1	11/21/2024		Laboratory Report, SDG 580-146071-1, Level 2	Laboratory Report, SDG 580-146071-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146071-1
RHP03	RHP03-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP03	RHP03-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP02	RHP02-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP04A	RHP04A-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP04A	RHP04A-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP02	RHP02-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHMW10	RHMW10-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP01	RHP01-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHMW06	RHMW06-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHMW06	RHMW06-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHP01	RHP01-WGN01LF-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
RHMW10	RHMW10-WGN01B-2411B	FC20750	11/21/2024		Laboratory Report, SDG FC20750, Level 2	Laboratory Report, SDG FC20750, Level 4	Data Validation Report, Level 2B, SDG FC20750
NMW24	NMW24-WGN01LF-2411B	1246682	11/22/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHMW09	RHMW09-WGN01LF-2411B	1246682	11/22/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHMW13-04	RHMW13-04-WGN01G-2411B	1246682	11/22/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHMW17	RHMW17-WGN01LF-2411B	1246682	11/22/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHMW19	RHMW19-WGN01LF-2411B	1246682	11/22/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
NMW24	NMW24-WGN01LF-2411B	24K0184	11/22/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHMW17	RHMW17-WGN01LF-2411B	24K0184	11/22/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHMW19	RHMW19-WGN01LF-2411B	24K0184	11/22/2024		Laboratory Report, SDG 24K0184, Level 2	Laboratory Report, SDG 24K0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0184
RHMW09	RHMW09-WGN01LF-2411B	24K0202	11/22/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
RHMW13-04	RHMW13-04-WGN01G-2411B	24K0202	11/22/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
RHMW19	RHMW19-WGN01LF-2411B	580-146101-1	11/22/2024		Laboratory Report, SDG 580-146101-1, Level 2	Laboratory Report, SDG 580-146101-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146101-1

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW13-04	RHMW13-04-WGN01G-2411B	580-146101-1	11/22/2024	(b) (4)	Laboratory Report, SDG 580-146101-1, Level 2	Laboratory Report, SDG 580-146101-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146101-1
RHMW17	RHMW17-WGN01LF-2411B	580-146101-1	11/22/2024		Laboratory Report, SDG 580-146101-1, Level 2	Laboratory Report, SDG 580-146101-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146101-1
NMW24	NMW24-WGN01LF-2411B	580-146101-1	11/22/2024		Laboratory Report, SDG 580-146101-1, Level 2	Laboratory Report, SDG 580-146101-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146101-1
RHMW09	RHMW09-WGN01LF-2411B	580-146101-1	11/22/2024		Laboratory Report, SDG 580-146101-1, Level 2	Laboratory Report, SDG 580-146101-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146101-1
NMW24	NMW24-WGN01B-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
NMW24	NMW24-WGN01LF-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW09	RHMW09-WGN01B-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW09	RHMW09-WGN01LF-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW17	RHMW17-WGFD01B-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW17	RHMW17-WGFD01LF-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW17	RHMW17-WGN01B-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW17	RHMW17-WGN01LF-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW19	RHMW19-WGN01B-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW19	RHMW19-WGN01LF-2411B	FC20776	11/22/2024		Laboratory Report, SDG FC20776, Level 2	Laboratory Report, SDG FC20776, Level 4	Data Validation Report, Level 2B, SDG FC20776
RHMW13-04	RHMW13-04-WGN01G-2411B	FC20788	11/22/2024		Laboratory Report, SDG FC20788, Level 2	Laboratory Report, SDG FC20788, Level 4	Data Validation Report, Level 2B, SDG FC20788
RHP08B	RHP08B-WGN01LF-2411B	1246682	11/24/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHP08C	RHP08C-WGN01LF-2411B	1246682	11/24/2024		Laboratory Report, SDG 1246682, Level 2	Laboratory Report, SDG 1246682, Level 4	Data Validation Report, Level S2BVEM, SDG 1246682
RHP08C	RHP08C-WGN01LF-2411B	24K0202	11/24/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
RHP08B	RHP08B-WGN01LF-2411B	24K0202	11/24/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
RHP08C	RHP08C-WGN01LF-2411B	580-146104-1	11/24/2024		Laboratory Report, SDG 580-146104-1, Level 2	Laboratory Report, SDG 580-146104-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146104-1
RHP08B	RHP08B-WGN01LF-2411B	580-146104-1	11/24/2024		Laboratory Report, SDG 580-146104-1, Level 2	Laboratory Report, SDG 580-146104-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146104-1
RHP08B	RHP08B-WGN01LF-2411B	FC20788	11/24/2024		Laboratory Report, SDG FC20788, Level 2	Laboratory Report, SDG FC20788, Level 4	Data Validation Report, Level 2B, SDG FC20788
RHP08C	RHP08C-WGN01LF-2411B	FC20788	11/24/2024		Laboratory Report, SDG FC20788, Level 2	Laboratory Report, SDG FC20788, Level 4	Data Validation Report, Level 2B, SDG FC20788
HDMW2253-03	HDMW2253-03-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW26	NMW26-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW27	NMW27-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW32	NMW32-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW33	NMW33-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW34	NMW34-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
OWDFMW03A	OWDFMW03A-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
OWDFMW08A	OWDFMW08A-WGN01LF-2411B	1246691	11/25/2024		Laboratory Report, SDG 1246691, Level 2	Laboratory Report, SDG 1246691, Level 4	Data Validation Report, Level S2BVEM, SDG 1246691
NMW33	NMW33-WGN01LF-2411B	24K0202	11/25/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
NMW32	NMW32-WGN01LF-2411B	24K0202	11/25/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
HDMW2253-03	HDMW2253-03-WGN01LF-2411B	24K0202	11/25/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
NMW26	NMW26-WGN01LF-2411B	24K0202	11/25/2024		Laboratory Report, SDG 24K0202, Level 2	Laboratory Report, SDG 24K0202, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0202
NMW27	NMW27-WGN01LF-2411B	24K0219	11/25/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
NMW34	NMW34-WGN01LF-2411B	24K0219	11/25/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
OWDFMW03A	OWDFMW03A-WGN01LF-2411B	24K0219	11/25/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
OWDFMW08A	OWDFMW08A-WGN01LF-2411B	24K0219	11/25/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
HDMW2253-03	HDMW2253-03-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW26	NMW26-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW27	NMW27-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW32	NMW32-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW33	NMW33-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW34	NMW34-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
OWDFMW03A	OWDFMW03A-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
OWDFMW08A	OWDFMW08A-WGN01LF-2411B	580-146131-1	11/25/2024		Laboratory Report, SDG 580-146131-1, Level 2	Laboratory Report, SDG 580-146131-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146131-1
NMW34	NMW34-WGFD01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW34	NMW34-WGN01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW34	NMW34-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
OWDFMW08A	OWDFMW08A-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW33	NMW33-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
OWDFMW03A	OWDFMW03A-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW33	NMW33-WGN01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW34	NMW34-WGFD01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW32	NMW32-WGN01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
HDMW2253-03	HDMW2253-03-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW26	NMW26-WGN01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW26	NMW26-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW32	NMW32-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW32	NMW32-WGFD01B-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW32	NMW32-WGFD01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW27	NMW27-WGN01LF-2411B	FC20861	11/25/2024		Laboratory Report, SDG FC20861, Level 2, Revision 1	Laboratory Report, SDG FC20861, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20861
NMW25	NMW25-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
NMW30	NMW30-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHMW04	RHMW04-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712

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Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHMW12A	RHMW12A-WGN01LF-2411B	1246712	11/26/2024	(b) (4)	Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHMW18	RHMW18-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHMW20	RHMW20-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHP04B	RHP04B-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHP04C	RHP04C-WGN01LF-2411B	1246712	11/26/2024		Laboratory Report, SDG 1246712, Level 2	Laboratory Report, SDG 1246712, Level 4	Data Validation Report, Level S2BVEM, SDG 1246712
RHMW20	RHMW20-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHP04C	RHP04C-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHP04B	RHP04B-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHMW18	RHMW18-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHMW04	RHMW04-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
NMW30	NMW30-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
NMW25	NMW25-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHMW12A	RHMW12A-WGN01LF-2411B	24K0219	11/26/2024		Laboratory Report, SDG 24K0219, Level 2	Laboratory Report, SDG 24K0219, Level 4	Data Validation Report, Level S2BVEM, SDG 24K0219
RHMW20	RHMW20-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
NMW25	NMW25-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
NMW30	NMW30-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHMW04	RHMW04-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHMW12A	RHMW12A-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHMW18	RHMW18-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHP04B	RHP04B-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHP04C	RHP04C-WGN01LF-2411B	580-146154-1	11/26/2024		Laboratory Report, SDG 580-146154-1, Level 2, Revision 1	Laboratory Report, SDG 580-146154-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-146154-1
RHMW18	RHMW18-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW20	RHMW20-WGN01B-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW18	RHMW18-WGN01B-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHP04B	RHP04B-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW20	RHMW20-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHP04C	RHP04C-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW12A	RHMW12A-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW04	RHMW04-WGN01B-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
NMW30	NMW30-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
NMW30	NMW30-WGN01B-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
NMW25	NMW25-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
NMW25	NMW25-WGN01B-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
RHMW04	RHMW04-WGN01LF-2411B	FC20885	11/26/2024		Laboratory Report, SDG FC20885, Level 2	Laboratory Report, SDG FC20885, Level 4	Data Validation Report, Level 2B, SDG FC20885
December 2024 Monthly & Quarter 4 Sampling							
RHMW21	RHMW21-WGN01LF-2412A	1246742	12/2/2024	(b) (4)	Laboratory Report, SDG 1246742, Level 2	Laboratory Report, SDG 1246742, Level 4	Data Validation Report, Level S2BVEM, SDG 1246742
RHMW15-05	RHMW15-05-WGN01G-2412A	1246742	12/2/2024		Laboratory Report, SDG 1246742, Level 2	Laboratory Report, SDG 1246742, Level 4	Data Validation Report, Level S2BVEM, SDG 1246742
RHMW08	RHMW08-WGN01LF-2412A	1246742	12/2/2024		Laboratory Report, SDG 1246742, Level 2	Laboratory Report, SDG 1246742, Level 4	Data Validation Report, Level S2BVEM, SDG 1246742
RHMW01R	RHMW01R-WGN01LF-2412A	1246742	12/2/2024		Laboratory Report, SDG 1246742, Level 2	Laboratory Report, SDG 1246742, Level 4	Data Validation Report, Level S2BVEM, SDG 1246742
RHMW02	RHMW02-WGN01LF-2412A	1246742	12/2/2024		Laboratory Report, SDG 1246742, Level 2	Laboratory Report, SDG 1246742, Level 4	Data Validation Report, Level S2BVEM, SDG 1246742
RHMW01R	RHMW01R-WGN01LF-2412A	24L0018	12/2/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW02	RHMW02-WGN01LF-2412A	24L0018	12/2/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW08	RHMW08-WGN01LF-2412A	24L0018	12/2/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW15-05	RHMW15-05-WGN01G-2412A	24L0018	12/2/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW21	RHMW21-WGN01LF-2412A	24L0018	12/2/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW21	RHMW21-WGN01LF-2412A	580-146249-1	12/2/2024		Laboratory Report, SDG 580-146249-1, Level 2	Laboratory Report, SDG 580-146249-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146249-1
RHMW08	RHMW08-WGN01LF-2412A	580-146249-1	12/2/2024		Laboratory Report, SDG 580-146249-1, Level 2	Laboratory Report, SDG 580-146249-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146249-1
RHMW15-05	RHMW15-05-WGN01G-2412A	580-146249-1	12/2/2024		Laboratory Report, SDG 580-146249-1, Level 2	Laboratory Report, SDG 580-146249-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146249-1
RHMW01R	RHMW01R-WGN01LF-2412A	580-146249-1	12/2/2024		Laboratory Report, SDG 580-146249-1, Level 2	Laboratory Report, SDG 580-146249-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146249-1
RHMW02	RHMW02-WGN01LF-2412A	580-146249-1	12/2/2024		Laboratory Report, SDG 580-146249-1, Level 2	Laboratory Report, SDG 580-146249-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146249-1
RHMW10	RHMW10-WGN01LF-2412A	1246759	12/3/2024		Laboratory Report, SDG 1246759, Level 2	Laboratory Report, SDG 1246759, Level 4	Data Validation Report, Level S2BVEM, SDG 1246759
RHP05	RHP05-WGN01LF-2412A	1246759	12/3/2024		Laboratory Report, SDG 1246759, Level 2	Laboratory Report, SDG 1246759, Level 4	Data Validation Report, Level S2BVEM, SDG 1246759
RHP06	RHP06-WGN01LF-2412A	1246759	12/3/2024		Laboratory Report, SDG 1246759, Level 2	Laboratory Report, SDG 1246759, Level 4	Data Validation Report, Level S2BVEM, SDG 1246759
RHP08	RHP08-WGN01LF-2412A	1246759	12/3/2024		Laboratory Report, SDG 1246759, Level 2	Laboratory Report, SDG 1246759, Level 4	Data Validation Report, Level S2BVEM, SDG 1246759
RHP06	RHP06-WGN01LF-2412A	24L0018	12/3/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHP08	RHP08-WGN01LF-2412A	24L0018	12/3/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW10	RHMW10-WGN01LF-2412A	24L0018	12/3/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHP05	RHP05-WGN01LF-2412A	24L0018	12/3/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW10	RHMW10-WGN01LF-2412A	580-146274-1	12/3/2024		Laboratory Report, SDG 580-146274-1, Level 2	Laboratory Report, SDG 580-146274-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146274-1
RHP05	RHP05-WGN01LF-2412A	580-146274-1	12/3/2024		Laboratory Report, SDG 580-146274-1, Level 2	Laboratory Report, SDG 580-146274-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146274-1
RHP06	RHP06-WGN01LF-2412A	580-146274-1	12/3/2024		Laboratory Report, SDG 580-146274-1, Level 2	Laboratory Report, SDG 580-146274-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146274-1
RHP08	RHP08-WGN01LF-2412A	580-146274-1	12/3/2024		Laboratory Report, SDG 580-146274-1, Level 2	Laboratory Report, SDG 580-146274-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146274-1
RHP06	RHP06-WGN01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP08	RHP08-WGN01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP08	RHP08-WGFD01LF-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP08	RHP08-WGFD01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980

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Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
RHP06	RHP06-WGN01LF-2412A	FC20980	12/3/2024	(b) (4)	Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP08	RHP08-WGN01LF-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP05	RHP05-WGN01LF-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP05	RHP05-WGFD01LF-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHMW10	RHMW10-WGN01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP05	RHP05-WGN01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHP05	RHP05-WGFD01B-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHMW10	RHMW10-WGN01LF-2412A	FC20980	12/3/2024		Laboratory Report, SDG FC20980, Level 2, Revision 1	Laboratory Report, SDG FC20980, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC20980
RHMW05	RHMW05-WGN01LF-2412A	1246802	12/4/2024		Laboratory Report, SDG 1246802, Level 2	Laboratory Report, SDG 1246802, Level 4	Data Validation Report, Level S2BVEM, SDG 1246802
RHMW11-05	RHMW11-05-WGN01G-2412A	1246802	12/4/2024		Laboratory Report, SDG 1246802, Level 2	Laboratory Report, SDG 1246802, Level 4	Data Validation Report, Level S2BVEM, SDG 1246802
RHMW14-03	RHMW14-03-WGN01G-2412A	1246802	12/4/2024		Laboratory Report, SDG 1246802, Level 2	Laboratory Report, SDG 1246802, Level 4	Data Validation Report, Level S2BVEM, SDG 1246802
RHP07	RHP07-WGN01LF-2412A	1246802	12/4/2024		Laboratory Report, SDG 1246802, Level 2	Laboratory Report, SDG 1246802, Level 4	Data Validation Report, Level S2BVEM, SDG 1246802
RHMW05	RHMW05-WGN01LF-2412A	24L0026	12/4/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW14-03	RHMW14-03-WGN01G-2412A	24L0026	12/4/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHP07	RHP07-WGN01LF-2412A	24L0026	12/4/2024		Laboratory Report, SDG 24L0018, Level 2	Laboratory Report, SDG 24L0018, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0018
RHMW11-05	RHMW11-05-WGN01G-2412A	24L0032	12/4/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
RHMW05	RHMW05-WGN01LF-2412A	580-146357-1	12/4/2024		Laboratory Report, SDG 580-146357-1, Level 2	Laboratory Report, SDG 580-146357-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146357-1
RHMW11-05	RHMW11-05-WGN01G-2412A	580-146357-1	12/4/2024		Laboratory Report, SDG 580-146357-1, Level 2	Laboratory Report, SDG 580-146357-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146357-1
RHMW14-03	RHMW14-03-WGN01G-2412A	580-146357-1	12/4/2024		Laboratory Report, SDG 580-146357-1, Level 2	Laboratory Report, SDG 580-146357-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146357-1
RHP07	RHP07-WGN01LF-2412A	580-146357-1	12/4/2024		Laboratory Report, SDG 580-146357-1, Level 2	Laboratory Report, SDG 580-146357-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146357-1
RHP04A	RHP04A-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHP02	RHP02-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHP03	RHP03-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHMW16	RHMW16-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHMW06	RHMW06-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHP01	RHP01-WGN01LF-2412A	1246830	12/5/2024		Laboratory Report, SDG 1246830, Level 2	Laboratory Report, SDG 1246830, Level 4	Data Validation Report, Level S4VEM, SDG 1246830
RHMW06	RHMW06-WGN01LF-2412A	24L0032	12/5/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
RHMW16	RHMW16-WGN01LF-2412A	24L0032	12/5/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
RHP01	RHP01-WGN01LF-2412A	24L0032	12/5/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
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RHP03	RHP03-WGN01LF-2412A	24L0032	12/5/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
RHP04A	RHP04A-WGN01LF-2412A	24L0032	12/5/2024		Laboratory Report, SDG 24L0032, Level 2	Laboratory Report, SDG 24L0032, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0032
RHP04A	RHP04A-WGN01LF-2412A	580-146381-1	12/5/2024		Laboratory Report, SDG 580-146381-1, Level 2	Laboratory Report, SDG 580-146381-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146381-1
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RHP02	RHP02-WGN01LF-2412A	580-146381-1	12/5/2024		Laboratory Report, SDG 580-146381-1, Level 2	Laboratory Report, SDG 580-146381-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146381-1
RHMW06	RHMW06-WGN01LF-2412A	580-146381-1	12/5/2024		Laboratory Report, SDG 580-146381-1, Level 2	Laboratory Report, SDG 580-146381-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146381-1
RHMW16	RHMW16-WGN01LF-2412A	580-146381-1	12/5/2024		Laboratory Report, SDG 580-146381-1, Level 2	Laboratory Report, SDG 580-146381-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146381-1
RHP01	RHP01-WGN01LF-2412A	580-146381-1	12/5/2024		Laboratory Report, SDG 580-146381-1, Level 2	Laboratory Report, SDG 580-146381-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-146381-1
RHP03	RHP03-WGN01B-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP04A	RHP04A-WGN01B-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP03	RHP03-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP04A	RHP04A-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP02	RHP02-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHMW16	RHMW16-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP01	RHP01-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP02	RHP02-WGN01B-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHMW06	RHMW06-WGN01B-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHMW06	RHMW06-WGN01LF-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
RHP01	RHP01-WGN01B-2412A	FC21053	12/5/2024		Laboratory Report, SDG FC21053, Level 2	Laboratory Report, SDG FC21053, Level 4	Data Validation Report, Level 2B, SDG FC21053
NMW25	NMW25-WGN01LF-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHMW03	RHMW03-WGN01LF-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHMW09	RHMW09-WGN01LF-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHMW19	RHMW19-WGN01LF-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHMW2254-01	RHMW2254-01-WGN01LF-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHSF-PUMP	RHSF-PUMP-WGN01G-2412A	24L0044	12/6/2024		Laboratory Report, SDG 24L0044, Level 2	Laboratory Report, SDG 24L0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0044
RHMW2254-01	RHMW2254-01-WGN01LF-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
RHMW19	RHMW19-WGN01LF-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
RHMW03	RHMW03-WGN01LF-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
NMW25	NMW25-WGN01LF-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
RHMW09	RHMW09-WGN01LF-2412A	580-146396-1	12/6/2024		Laboratory Report, SDG 580-146396-1, Level 2	Laboratory Report, SDG 580-146396-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146396-1
RHMW19	RHMW19-WGN01LF-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHSF-PUMP	RHSF-PUMP-WGN01G-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW2254-01	RHMW2254-01-WGN01LF-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW2254-01	RHMW2254-01-WGN01B-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW19	RHMW19-WGN01B-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
NMW25	NMW25-WGN01B-2412A	FC21060	12/6/2024	(b) (4)	Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW09	RHMW09-WGN01B-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW03	RHMW03-WGN01LF-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW03	RHMW03-WGN01B-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
NMW25	NMW25-WGN01LF-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
RHMW09	RHMW09-WGN01LF-2412A	FC21060	12/6/2024		Laboratory Report, SDG FC21060, Level 2	Laboratory Report, SDG FC21060, Level 4	Data Validation Report, Level 2B, SDG FC21060
NMW26	NMW26-WGN01LF-2412A	24L0055	12/9/2024		Laboratory Report, SDG 24L0055, Level 2	Laboratory Report, SDG 24L0055, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0055
RHMW17	RHMW17-WGN01LF-2412A	24L0055	12/9/2024		Laboratory Report, SDG 24L0055, Level 2	Laboratory Report, SDG 24L0055, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0055
RHMW13-04	RHMW13-04-WGN01G-2412A	24L0078	12/9/2024		Laboratory Report, SDG 24L0078, Level 2	Laboratory Report, SDG 24L0078, Level 4	Data Validation Report, Level S4VEM, SDG 24L0078
RHMW17	RHMW17-WGN01LF-2412A	580-146438-1	12/9/2024		Laboratory Report, SDG 580-146438-1, Level 2	Laboratory Report, SDG 580-146438-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146438-1
RHMW13-04	RHMW13-04-WGN01G-2412A	580-146438-1	12/9/2024		Laboratory Report, SDG 580-146438-1, Level 2	Laboratory Report, SDG 580-146438-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146438-1
NMW26	NMW26-WGN01LF-2412A	580-146438-1	12/9/2024		Laboratory Report, SDG 580-146438-1, Level 2	Laboratory Report, SDG 580-146438-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146438-1
NMW26	NMW26-WGN01B-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
NMW26	NMW26-WGN01LF-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHMW13-04	RHMW13-04-WGN01G-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHMW17	RHMW17-WGFD01B-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHMW17	RHMW17-WGFD01LF-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHMW17	RHMW17-WGN01B-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHMW17	RHMW17-WGN01LF-2412A	FC21099	12/9/2024		Laboratory Report, SDG FC21099, Level 2	Laboratory Report, SDG FC21099, Level 4	Data Validation Report, Level 2B, SDG FC21099
RHP04C	RHP04C-WGN01LF-2412A	1246868	12/10/2024		Laboratory Report, SDG 1246868 Level 2	Laboratory Report, SDG 1246868 Level 4	Data Validation Report, Level S2BVEM 1246868
RHP04B	RHP04B-WGN01LF-2412A	1246868	12/10/2024		Laboratory Report, SDG 1246868 Level 2	Laboratory Report, SDG 1246868 Level 4	Data Validation Report, Level S2BVEM 1246868
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NMW24	NMW24-WGN01LF-2412A	24L0078	12/10/2024		Laboratory Report, SDG 24L0078, Level 2	Laboratory Report, SDG 24L0078, Level 4	Data Validation Report, Level S4VEM, SDG 24L0078
RHMW04	RHMW04-WGN01LF-2412A	24L0078	12/10/2024		Laboratory Report, SDG 24L0078, Level 2	Laboratory Report, SDG 24L0078, Level 4	Data Validation Report, Level S4VEM, SDG 24L0078
RHP04B	RHP04B-WGN01LF-2412A	24L0078	12/10/2024		Laboratory Report, SDG 24L0078, Level 2	Laboratory Report, SDG 24L0078, Level 4	Data Validation Report, Level S4VEM, SDG 24L0078
RHP04C	RHP04C-WGN01LF-2412A	580-146471-1	12/10/2024		Laboratory Report, SDG 580-146471-1, Level 2	Laboratory Report, SDG 580-146471-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146471-1
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NMW24	NMW24-WGN01LF-2412A	580-146471-1	12/10/2024		Laboratory Report, SDG 580-146471-1, Level 2	Laboratory Report, SDG 580-146471-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146471-1
RHMW04	RHMW04-WGN01LF-2412A	580-146471-1	12/10/2024		Laboratory Report, SDG 580-146471-1, Level 2	Laboratory Report, SDG 580-146471-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146471-1
NMW32	NMW32-WGN01LF-2412A	1246896	12/11/2024		Laboratory Report, SDG 1246896 Level 2	Laboratory Report, SDG 1246896 Level 4	Data Validation Report, Level S2BVEM 1246896
NMW33	NMW33-WGN01LF-2412A	1246896	12/11/2024		Laboratory Report, SDG 1246896 Level 2	Laboratory Report, SDG 1246896 Level 4	Data Validation Report, Level S2BVEM 1246896
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OWDFMW03A	OWDFMW03A-WGN01LF-2412A	24L0085	12/11/2024		Laboratory Report, SDG 24L0085, Level 2	Laboratory Report, SDG 24L0085, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0085
NMW32	NMW32-WGN01LF-2412A	24L0085	12/11/2024		Laboratory Report, SDG 24L0085, Level 2	Laboratory Report, SDG 24L0085, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0085
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OWDFMW08A	OWDFMW08A-WGN01LF-2412A	24L0085	12/11/2024		Laboratory Report, SDG 24L0085, Level 2	Laboratory Report, SDG 24L0085, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0085
RHMW20	RHMW20-WGN01LF-2412A	24L0085	12/11/2024		Laboratory Report, SDG 24L0085, Level 2	Laboratory Report, SDG 24L0085, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0085
OWDFMW08A	OWDFMW08A-WGN01LF-2412A	580-146533-1	12/11/2024		Laboratory Report, SDG 580-146533-1, Level 2	Laboratory Report, SDG 580-146533-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146533-1
OWDFMW03A	OWDFMW03A-WGN01LF-2412A	580-146533-1	12/11/2024		Laboratory Report, SDG 580-146533-1, Level 2	Laboratory Report, SDG 580-146533-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146533-1
RHMW20	RHMW20-WGN01LF-2412A	580-146533-1	12/11/2024		Laboratory Report, SDG 580-146533-1, Level 2	Laboratory Report, SDG 580-146533-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146533-1
NMW32	NMW32-WGN01LF-2412A	580-146533-1	12/11/2024		Laboratory Report, SDG 580-146533-1, Level 2	Laboratory Report, SDG 580-146533-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146533-1
NMW33	NMW33-WGN01LF-2412A	580-146533-1	12/11/2024		Laboratory Report, SDG 580-146533-1, Level 2	Laboratory Report, SDG 580-146533-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146533-1
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RHP08B	RHP08B-WGN01LF-2412A	1246921	12/12/2024		Laboratory Report, SDG 1246921 Level 2	Laboratory Report, SDG 1246921 Level 4	Data Validation Report, Level S2BVEM 1246921
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RHP08C	RHP08C-WGN01LF-2412A	24L0108	12/12/2024		Laboratory Report, SDG 24L0108, Level 2	Laboratory Report, SDG 24L0108, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0108
RHP08C	RHP08C-WGN01LF-2412A	580-146568-1	12/12/2024		Laboratory Report, SDG 580-146568-1, Level 2	Laboratory Report, SDG 580-146568-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146568-1
NMW30	NMW30-WGN01LF-2412A	580-146568-1	12/12/2024		Laboratory Report, SDG 580-146568-1, Level 2	Laboratory Report, SDG 580-146568-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146568-1
RHMW18	RHMW18-WGN01LF-2412A	580-146568-1	12/12/2024		Laboratory Report, SDG 580-146568-1, Level 2	Laboratory Report, SDG 580-146568-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146568-1
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RHP08C	RHP08C-WGN01LF-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
RHMW18	RHMW18-WGN01LF-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
RHP08B	RHP08B-WGN01LF-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
NMW30	NMW30-WGN01LF-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
NMW30	NMW30-WGN01B-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
RHMW18	RHMW18-WGN01B-2412A	FC21264	12/12/2024		Laboratory Report, SDG FC21264, Level 2	Laboratory Report, SDG FC21264, Level 4	Data Validation Report, Level 2B, SDG FC21264
RHMW12A	RHMW12A-WGN01LF-2412A	1246946	12/13/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
NMW34	NMW34-WGN01LF-2412A	1246946	12/13/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946

Appendix D-1: Index of Analytical Laboratory Reports and Data Validation Reports, by Sample Collection Date (cont'd)

Sample Location Identifier	Sample ID	SDG	Sample Collection Date	Laboratory	Level 2 Lab Report PDF	Level 4 Lab Report PDF	DVR PDF
HDMW2253-03	HDMW2253-03-WGN01LF-2412A	1246946	12/13/2024	(b) (4)	Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
NMW27	NMW27-WGN01LF-2412A	1246946	12/13/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
HDMW2253-03	HDMW2253-03-WGN01LF-2412A	24L0115	12/13/2024		Laboratory Report, SDG 24L0115, Level 2	Laboratory Report, SDG 24L0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0115
NMW27	NMW27-WGN01LF-2412A	24L0115	12/13/2024		Laboratory Report, SDG 24L0115, Level 2	Laboratory Report, SDG 24L0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0115
NMW34	NMW34-WGN01LF-2412A	24L0115	12/13/2024		Laboratory Report, SDG 24L0115, Level 2	Laboratory Report, SDG 24L0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0115
RHMW12A	RHMW12A-WGN01LF-2412A	24L0115	12/13/2024		Laboratory Report, SDG 24L0115, Level 2	Laboratory Report, SDG 24L0115, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0115
RHMW12A	RHMW12A-WGN01LF-2412A	580-146618-1	12/13/2024		Laboratory Report, SDG 580-146618-1, Level 2	Laboratory Report, SDG 580-146618-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146618-1
HDMW2253-03	HDMW2253-03-WGN01LF-2412A	580-146618-1	12/13/2024		Laboratory Report, SDG 580-146618-1, Level 2	Laboratory Report, SDG 580-146618-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146618-1
NMW27	NMW27-WGN01LF-2412A	580-146618-1	12/13/2024		Laboratory Report, SDG 580-146618-1, Level 2	Laboratory Report, SDG 580-146618-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146618-1
NMW34	NMW34-WGN01LF-2412A	580-146618-1	12/13/2024		Laboratory Report, SDG 580-146618-1, Level 2	Laboratory Report, SDG 580-146618-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-146618-1
RHMW08	RHMW08-WGN01LF-2412B	1246946	12/16/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
RHMW15-05	RHMW15-05-WGN01G-2412B	1246946	12/16/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
RHMW01R	RHMW01R-WGN01LF-2412B	1246946	12/16/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
RHMW02	RHMW02-WGN01LF-2412B	1246946	12/16/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
RHMW21	RHMW21-WGN01LF-2412B	1246946	12/16/2024		Laboratory Report, SDG 1246946 Level 2	Laboratory Report, SDG 1246946 Level 4	Data Validation Report, Level S2BVEM 1246946
RHMW02	RHMW02-WGN01LF-2412B	24L0126	12/16/2024		Laboratory Report, SDG 24L0126, Level 2	Laboratory Report, SDG 24L0126, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0126
RHMW01R	RHMW01R-WGN01LF-2412B	24L0126	12/16/2024		Laboratory Report, SDG 24L0126, Level 2	Laboratory Report, SDG 24L0126, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0126
RHMW08	RHMW08-WGN01LF-2412B	24L0126	12/16/2024		Laboratory Report, SDG 24L0126, Level 2	Laboratory Report, SDG 24L0126, Level 4	Data Validation Report, Level S2BVEM, SDG 24L0126

Notes:
APPL = Agriculture & Priority Pollutants Laboratories, Inc., Clovis CA
COC = chain of custody
DVR = data validation report
Energy = Energy Laboratories, Inc., Billings MT
Eurofins = Eurofins Seattle & Lancaster
SDG = sample delivery group
SGS Anchorage = SGS North America Inc, Anchorage, AK
SGS Orlando = SGS North America Inc, Orlando, FL
— DVR is unavailable

Appendix E – EDMS Navigation

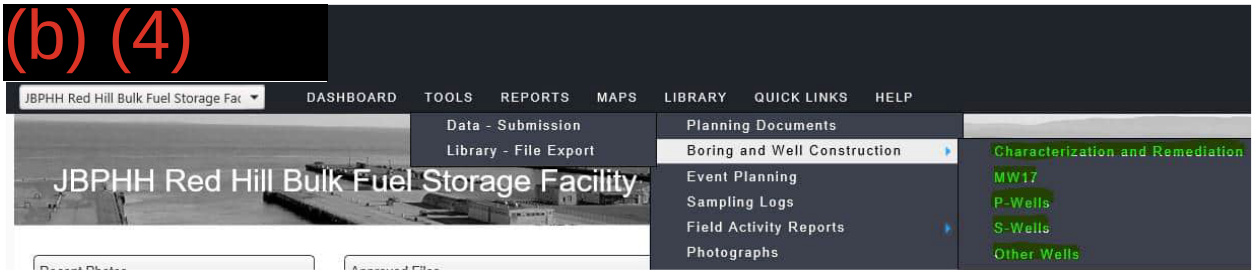
Detailed data referenced in this Quarterly Release Response Report are provided in the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) at (b) (4)

Navigation tips for accessing the following data in EDMS are provided below:

- Boring and Well Construction Logs
- Groundwater Quality Parameter Data
- Characterization and Remediation Data
- Characterization and Remediation Analytical Laboratory Reports
- Soil Vapor Analytical Laboratory Reports – Below-Tank Sampling Locations
- Soil Vapor Data – Below-Tank Sampling Locations
- Soil Vapor Analytical Laboratory Reports – Adit 3 Tunnel Sampling Locations
- Groundwater Analytical Laboratory Reports
- Data Validation Reports
- Data Validation Qualifier Tables
- Environmental Data Report Tables

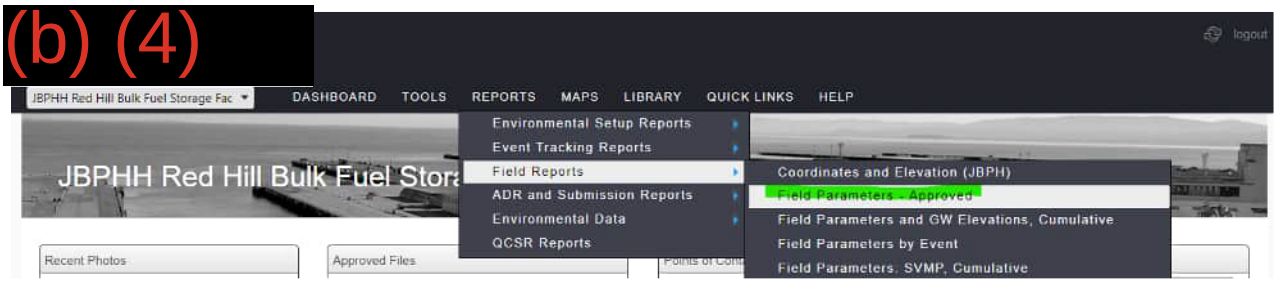
Boring and Well Construction Logs: Approved boring and well construction logs can be accessed through Library → Boring and Well Construction:

- **Boring and Well Construction Subcategories:** Characterization and Remediation, MW17 (RHMW17), P-Wells (Delineation), S-Wells (Sentinel), and Other Wells (NOI and GW LTM).

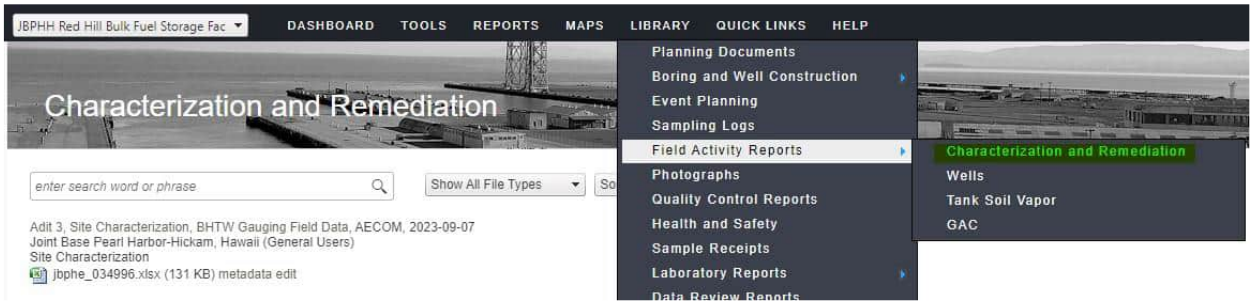


Groundwater Quality Parameter Data: Approved groundwater quality parameter data can be accessed through Reports → Field Reports → Field Parameters – Approved:

- NOI data are stored under RHS Recovery and Monitoring.
- Delineation and Sentinel Well data are stored under JBPHH Site Characterization.
- Consolidated Groundwater Program data are stored under RH Consolidated Groundwater Project.
- Long Term Groundwater Program data are stored under RH Long Term Groundwater Project.



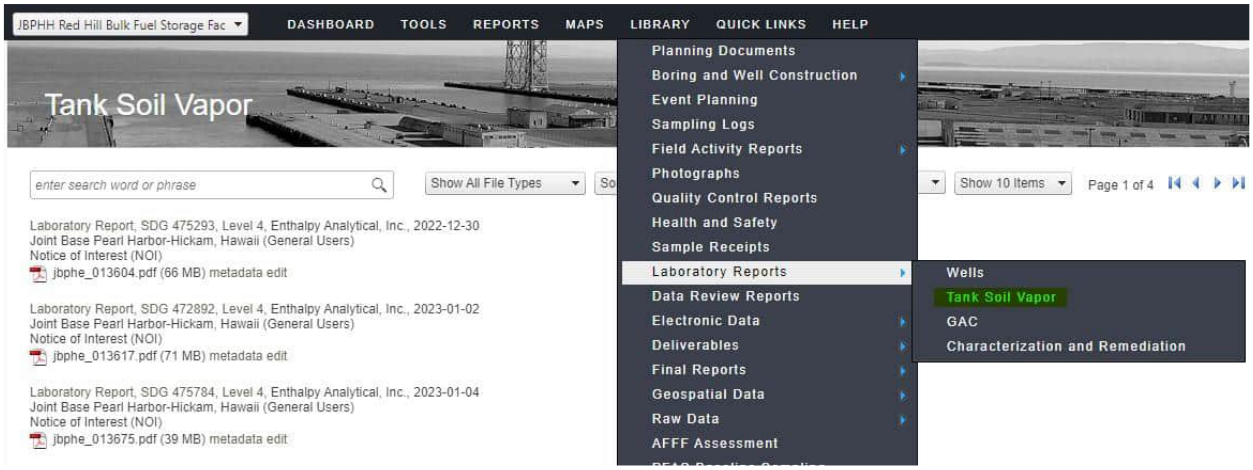
Characterization and Remediation Data: Approved characterization and remediation raw data can be accessed through Library → Field Activity Reports → Characterization and Remediation.



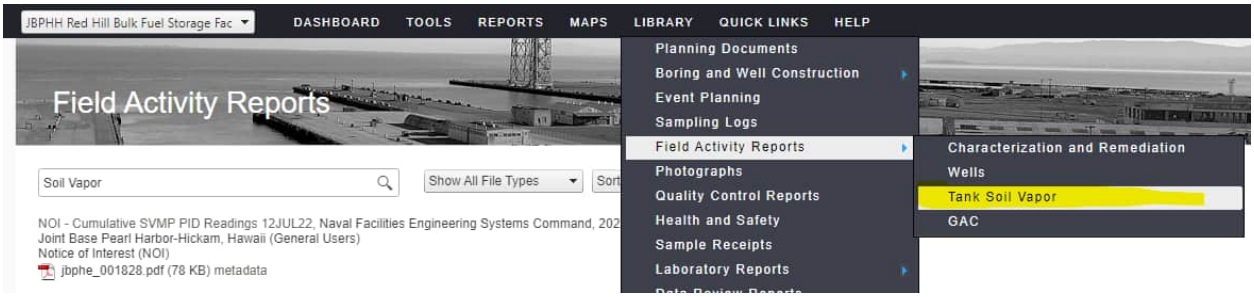
Characterization and Remediation Analytical Laboratory Reports: Approved characterization analytical laboratory reports can be accessed through Library → Laboratory Reports → Characterization and Remediation.



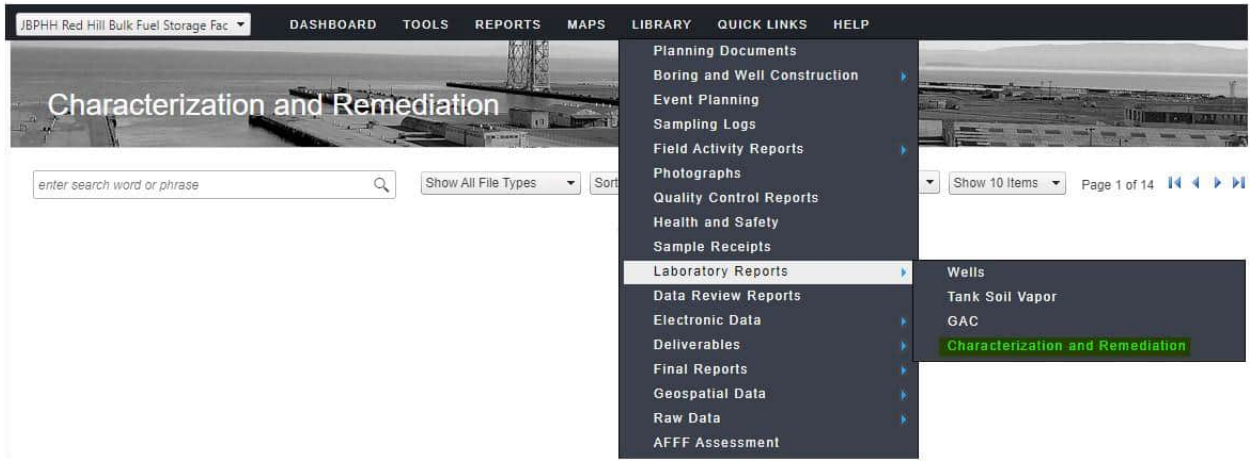
Soil Vapor Analytical Laboratory Reports – Below Tank Sampling Locations: Approved soil vapor monitoring analytical laboratory reports for below tank locations can be accessed through Library → Laboratory Reports → Tank Soil Vapor.



Soil Vapor Data– Below Tank Sampling Locations: Cumulative soil vapor data can be accessed through Library → Field Activity Reports → Tank Soil Vapor.

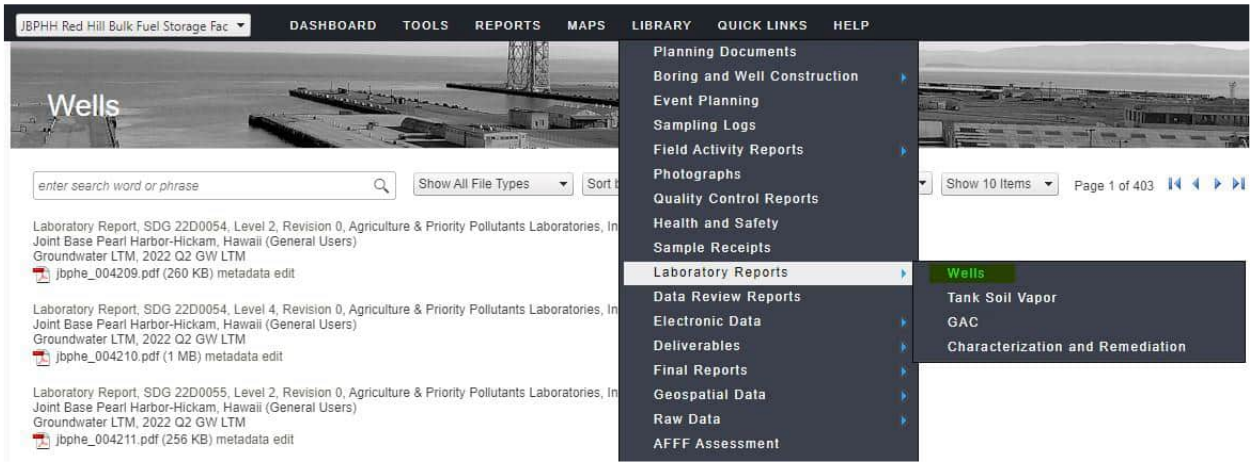


Soil Vapor Analytical Laboratory Reports – Adit 3 Tunnel Sampling Locations: Approved soil vapor monitoring analytical laboratory reports for Adit 3 Tunnel sampling locations can be accessed through Library → Laboratory Reports → Characterization and Remediation.



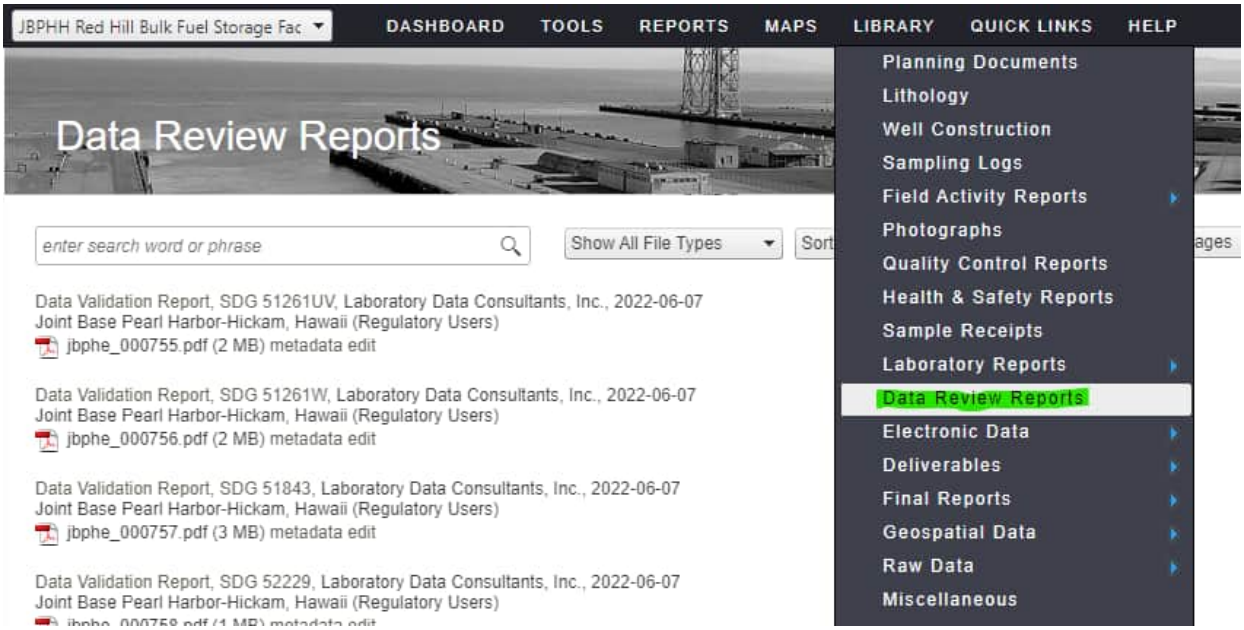
Groundwater Analytical Laboratory Reports: Approved groundwater monitoring analytical laboratory reports can be accessed through Library → Laboratory Reports:

- **Laboratory Reports Subcategories:** Wells → Coverage for Level 2 and Level 4 laboratory reports are Notice of Interest (NOI), P-Wells (Delineation), S-Wells (Sentinel), Groundwater LTM, and Consolidated Groundwater Program.



Data Validation Reports: Data validation reports can be accessed through Library → Data Review Reports:

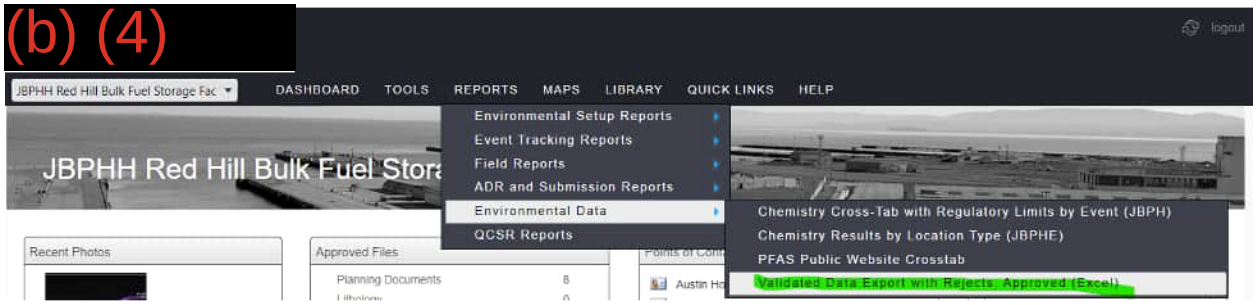
- Coverage for data validation reports are Notice of Interest (NOI), P-Wells (Delineation), S-Wells (Sentinel), Groundwater LTM, and Consolidated Groundwater Program.



Data Validation Qualifier Tables: Qualified validation results for groundwater data for this reporting period can be accessed through Reports → Environmental Data → Validated Data Export with Rejects, Approved (Excel):

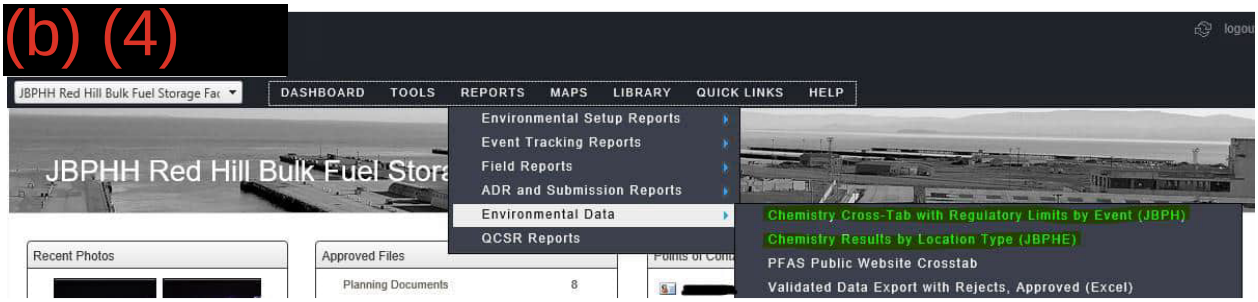
- NOI data are stored under RHS Recovery and Monitoring.

- Delineation and Sentinel Well data are stored under JBPHH Site Characterization.
- Consolidated Groundwater Program data are stored under RH Consolidated Groundwater Project.
- Long Term Groundwater Program data are stored under RH Long Term Groundwater Project.



Environmental Data Report Tables: Validated results for soil, groundwater, and soil vapor can be accessed through Reports → Environmental Data → Chemistry Cross-Tab with Regulatory Limits by Event (JBPH) or Chemistry Results by Location Type (JBPHE).

- Characterization and Remediation data are stored under JBPHH Site Characterization, and event(s) of interest can be selected from the drop-down menu.



Appendix F – DOH Sample Deviation Letter, June 24, 2024

JOSH GREEN, M.D.
GOVERNOR OF HAWAI'I
KE KIA'ĀINA O KA MOKU'ĀINA 'O HAWAI'I

KENNETH S. FINK, MD, MGA, MPH
DIRECTOR OF HEALTH
KA LUNA HO'OKELE

STATE OF HAWAIʻI
DEPARTMENT OF HEALTH
KA ʻOIHANA OLAKINO
P. O. BOX 3378
HONOLULU, HI 96801-3378

In reply, please refer to:
File:

June 24, 2024

Rear Admiral Stephen Barnett
Navy Closure Task Force – Red Hill
440 Fuller Way Building 280
Pearl Harbor, Hawaiʻi 96860
[via email only: (b) (6) [redacted]

Dear Rear Admiral Barnett,

SUBJECT: **Deviation from *Consolidated and Optimization of the Groundwater Sampling Programs, Red Hill Bulk Fuel Storage Facility*, dated April 2024**

On April 22, 2024, the Hawaiʻi Department of Health (DOH) directed the U.S. Department of the Navy (Navy) to implement a revised *Consolidated Groundwater Sampling Program, Red Hill Bulk Fuel Storage Facility*, dated April 2024, hereinafter referred to as the "Groundwater Sampling Plan," to support the Navy's request to reduce the daily average pumping rate of the Red Hill Shaft (RHS) granulated activated carbon (GAC) system from 4.5 to 1.8 million gallons per day. On April 29, 2024, the Navy reduced the daily average pumping rate and as directed in the Groundwater Sampling Plan, initiated increased groundwater monitoring (sampling each monitoring well twice per month), regular data evaluation for evidence of potential plume migration, and weekly status updates to the DOH.

We understand the University of Hawaiʻi (UH) plans to conduct a vertical well profiling and colloidal borescope investigation within the next few months at many of the Navy's groundwater monitoring wells associated with Red Hill. UH has expressed the capability and willingness to also collect water level measurements using transducers in many of these wells to gather additional information that may provide a better understanding of groundwater flow in the Red Hill area. For UH to collect these water level measurements, transducers will need to be left undisturbed in each monitoring well for approximately one additional week, which means groundwater samples cannot be obtained for up to one month for groups of up to nine monitoring wells at a time. Below are the three tentative monitoring well groups where UH would collect the additional water level measurements.

TABLE 1:

Group #2	Group #3	Group #4
OWDFMW02A*	RHMW02	RHMW01R
OWDFMW03A	RHMW03	RHMW05
OWDFMW04A*	RHMW04	RHMW08
OWDFMW05A*	RHMW06	RHMW09
OWDFMW06A*	RHMW10	RHP01
OWDFMW07A*	RHMW17	RHP02
OWDFMW08A	RHMW19	RHP07
RHP03	RHMW20	RHP06
RHP04A		RHP08

* Monitoring well not part of the Groundwater Sampling Plan

Based on our review of validated and unvalidated groundwater monitoring results available as of June 17, 2024, as well as the Navy's data evaluation, there is no evidence of plume migration since the average pumping rate was reduced. In addition, because only up to nine wells at a time would be inaccessible for a maximum of one month, the DOH is willing to allow the Navy to deviate from the Groundwater Sampling Plan to accommodate UH's data collection. The deviation consists of skipping up to one of the two required monitoring events per month for each of the wells included in Table 1 during the one-month study period. All other requirements of the Groundwater Sampling Plan will continue to apply.

After the data collection described above is complete, the Navy must resume following the Groundwater Sampling Plan as written. The DOH will also continue to review incoming data for evidence of potential plume migration. If we identify a significant possibility of movement, the DOH may direct the Navy to abandon the deviation and immediately return to sampling as described in the Groundwater Sampling Plan.

If you have any questions regarding this letter, please contact (b) (6), Red Hill Project Coordinator at (b) (6)@doh.hawaii.gov or (808) 586-4226.

Sincerely,

(b) (6)

KATHLEEN S. HO
Deputy Director for Environmental Health

c: via email only:
(b) (6), UH
(b) (6), EPA
(b) (6), EPA

(b) (6), EPA
RDML Marc Williams, NCTF-RH
(b) (6), NCTF-RH
(b) (6), NCTF-RH
(b) (6), NCTF-RH