Navy Closure Task Force

Revised
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

December 10, 2024
Revised February 27, 2025

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N62742-23-D-1802
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Executive Summary

This Quarterly Release Response Report covering the reporting period July 11 to October 8, 2024, 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). In addition, the Spring 2024 TGM updates include revision to the total petroleum hydrocarbon (TPH) Environmental Action Level (EAL) for groundwater samples and comparison to the total concentration of petroleum hydrocarbons, which is detailed in Section 9.3.1.4 of this report (DOH 2024c). The groundwater data reporting also includes laboratory data for samples collected prior to this period that were finalized (validated) during this period. A revised report was issued on February 27, 2025 to remove the “Draft” watermark on Figure 1 and update Appendix B.3.1 to remove the RHP08C results from the RHP08 summary table, change total organic carbon and non-volatile dissolved organic carbon min/max for RHP08, and correct natural attenuation parameter concentration units.

This Quarterly Release Response Report also 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 2023g). 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) pump and treat system at Red Hill Shaft.
- Site characterization planning activities for the Collection, Holding, and Transfer (CHT) Tank.
- Remediation pilot test planning and installation activities.

Results from this reporting period indicate the following:

- Soil vapor impacts associated with the January 2014, May 2021, and November 2021 Releases are decreasing over time, consistent with natural attenuation of light nonaqueous-phase liquid in the environment.
- Groundwater concentrations for all fuel-related contaminants appear to be declining or 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	GRO DRO (ND after SGC) ORO (ND after SGC)	TPH: 329 µg/L (screening criterion: 193 µg/L)
RHMW01R	GRO DRO (lower after SGC) ORO (ND after SGC)	TPH: 228; 222; 337; 201 µg/L (screening criterion: 193 µg/L)
RHMW02	GRO DRO (lower after SGC) ORO (lower after SGC) 1-Methylnaphthalene Naphthalene	TPH: 1786; 2133; 960; 1632; 2977; 1735; 4735; 1894; 1779; 1718; 1627; 1732; 1120; 1234 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW03	DRO (lower after SGC) ORO (ND after SGC)	TPH: 1596 µg/L (screening criterion: 193 µg/L) (below SSRBL [a,b]: 4,500 µg/L)
RHMW04	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	Indeno(1,2,3-cd)pyrene: 0.036 J µg/L (screening criterion: 0.018 µg/L)
RHMW05	None	None
RHMW06	DRO (ND after SGC)	None
RHMW08	DRO (ND after SGC) ORO (ND after SGC)	TPH: 368 µg/L (screening criterion: 193 µg/L)
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: 392 µg/L (screening criterion: 193 µg/L)
RHMW18	DRO (ND after SGC) ORO (ND after SGC)	TPH: 322 µg/L (screening criterion: 193 µg/L)
RHMW19	None	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW20	None	None
RHMW21	DRO (lower after SGC) ORO (ND after SGC)	TPH: 494; 503; 202 µg/L (screening criterion: 193 µg/L)
HDMW2253-01	None	None
RHP01	DRO (ND after SGC) ORO (ND after SGC)	TPH: 270 µg/L (screening criterion: 193 µg/L)
RHP02	ORO (ND after SGC)	None
RHP03	None	None
RHP04A	None	None
RHP04B	DRO (ND after SGC) ORO (ND after SGC)	TPH: 235 µg/L (screening criterion: 193 µg/L)
RHP04C	None	None
RHP05	None	None
RHP06	None	None
RHP07	None	None
RHP08	DRO (lower after SGC) ORO (ND after SGC)	TPH: 250 µg/L (screening criterion: 193 µg/L)
RHP08C	None	None
NMW24	DRO (ND after SGC) ORO (ND after SGC)	TPH: 426 µg/L (screening criterion: 193 µg/L)
NMW25	None	None
NMW26	ORO (ND after SGC)	None
NMW30	None	None
NMW32	DRO (ND after SGC)	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	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 2023g) 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).

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 treatment system.

Planned future actions include:

- Continued soil vapor monitoring at sampling locations within the Facility tank farm and in the (b) (3) (A) 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 pump and treat system at Red Hill Shaft
- Continued site characterization activities at the CHT Tank, Holding Tank/Leach Tank area, and in the (b) (3) (A) Tunnels near Red Hill Shaft
- Continued remediation pilot test in the (b) (3) (A) and Holding Tank/Leach Tank area, and (b) (3) (A) near Red Hill Shaft

The United States Department of the Navy continues to expand the groundwater monitoring well network, both on-site and off-site, including establishing new well locations to monitor groundwater quality between Red Hill and offsite water supply wells, including additional off-site 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 off-site 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 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
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
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
SGC	silica gel cleanup
SIM	selected ion monitoring
SVE	soil vapor extraction
SVMP	soil vapor monitoring point
SVOC	semivolatile organic compound
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 July 11 to October 8, 2024, for monitoring locations at the Red Hill Bulk Fuel Storage Facility (Facility), Joint Base Pearl Harbor-Hickam (JBPHH), O'ahu, Hawai'i. This Quarterly RRR continues to include quarterly long-term monitoring (LTM) data and evaluation, so a separate Quarterly Groundwater Monitoring Report is not submitted. A revised report was issued on February 27, 2025 to remove the "Draft" watermark on Figure 1 and update Appendix B.3.1 to remove the RHP08C results from the RHP08 summary table, change total organic carbon (TOC) and non-volatile dissolved organic carbon (NVDOC) min/max for RHP08, and correct natural attenuation parameter concentration units.

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 Hawai'i 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 retention line. The fuel remained contained in the fire suppression system retention line until it was damaged on November 20, 2021.
- **November 2021 Release:** On November 20, 2021, fuel in the fire suppression recovery drain line was released into the [redacted] Tunnel, traveled on the concrete tunnel floor toward the [redacted] portal, and collected in a sump ([redacted] Sump) and a sanitary sewer sump near the [redacted] portal. Fuel that entered the [redacted] Sump was either recovered, released to the subsurface adjacent to the sump, or pumped from the sump to an underground Holding Tank and Leach Tank system [redacted], 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 [redacted], 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 Hawai'i 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) pump and treat system at Red Hill Shaft
- Continued (b) (3) (A) Tunnel site characterization activities
- Continued CHT Tank site characterization investigation planning activities
- Continued remediation and treatability study pilot test planning activities

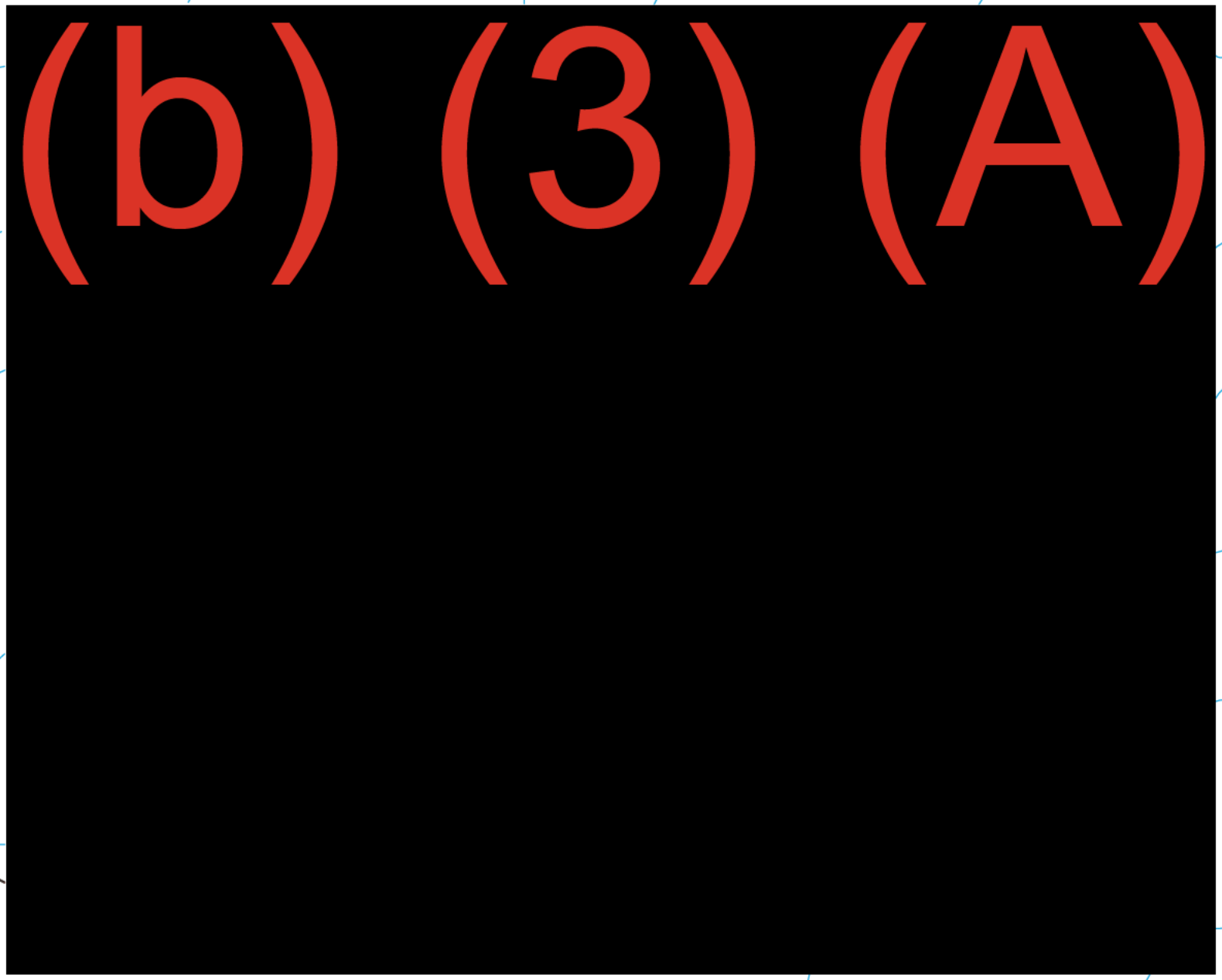
This report presents field observations and final analytical results available through this reporting period, including:

- 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

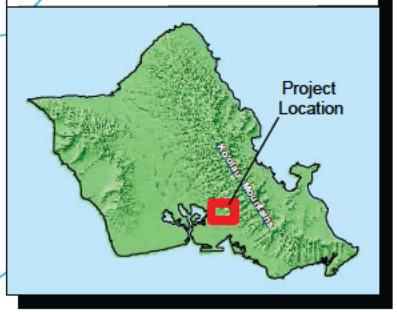
Separate reporting has been provided to the Regulatory Agencies (DOH and the U.S. Environmental Protection Agency [EPA]) for investigations conducted at the (b) (3) (A) Tunnel area, the Holding Tank and Leach Tank area, and the CHT Tank area, as summarized in Section 3.0.

In addition to the activities described in this report, the Navy has conducted fuel recovery efforts since December 2021 and is continuing operation of the GAC pump and treat system at Red Hill Shaft, which began in January 2022. Fuel recovery efforts include the use of sorbent materials, skimmers, direct recovery from piping, and soil excavation. In addition, the GAC pump and treat system for Red Hill Shaft groundwater will continue to remove any dissolved constituents that are captured by pumping in the vicinity of Red Hill Shaft, as described in the *Red Hill Shaft Recovery and Monitoring Plan* (IDWST 2022).

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.



Location Map



Legend

- Former Fuel Storage Tank
- Delineation Well
- OWDFMW Well
- Red Hill Monitoring
- Sentinel Well
- Water Supply
- Red Hill Facility Boundary
- Access Tunnel or
- 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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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.

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 (b) (3) (A) 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 2023g).

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 drain line were impacted by fuel, and the below-tank SVMPs exhibited elevated organic vapor concentrations on field instruments (photoionization detectors [PIDs]).

November 2021 Release: On November 20, 2021, a release of JP-5 fuel occurred in the [redacted] Tunnel of the Facility (Figure 1). Some of the JP-5 fuel that was first released on May 6, 2021, was released from an overhead 14-inch polyvinyl chloride fire suppression recovery drain line at a location approximately [redacted] of the Red Hill Shaft water supply pumping station and approximately [redacted] ft east of the [redacted]. 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 [redacted] 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 recovery drain line, [redacted] Sump, connected piping, and the Holding Tank/Leach Tank 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 Holding Tank and Leach Tank, 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.

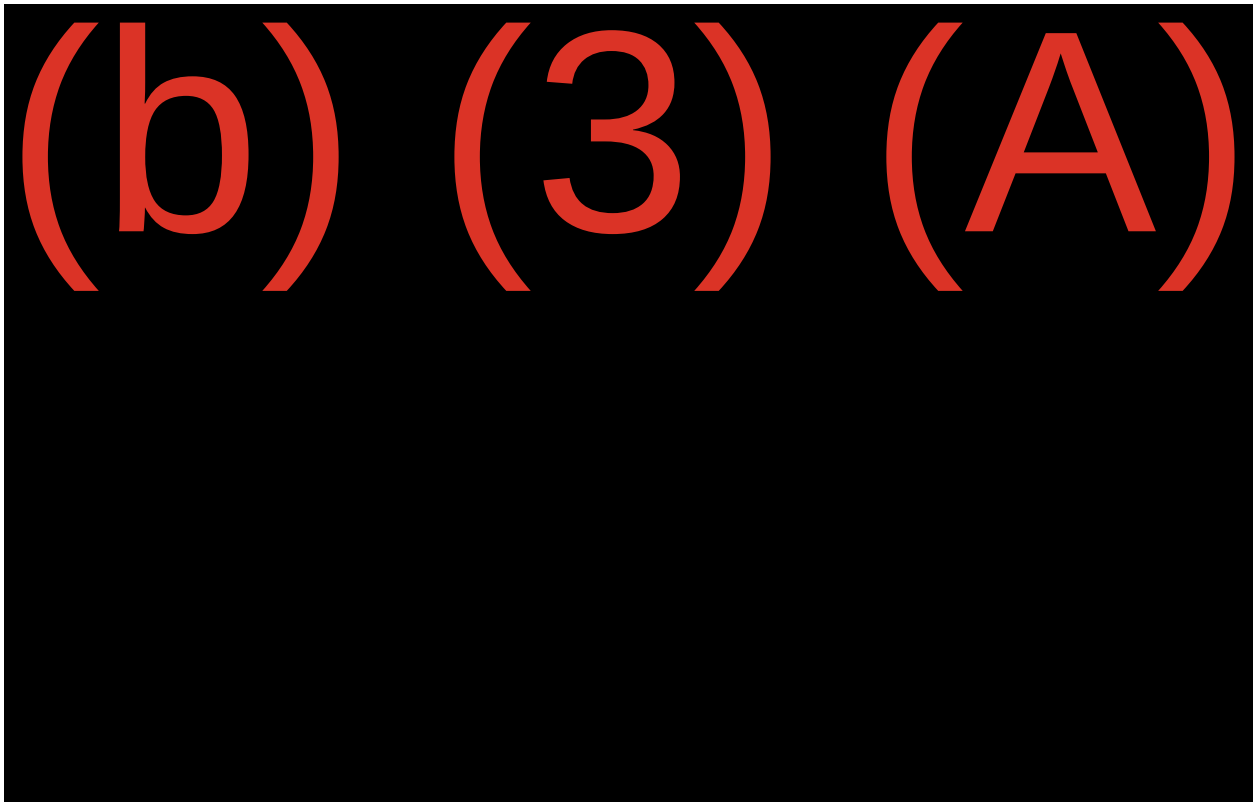


Figure 2: Adit 3 and Pearl Harbor Tunnel Layout Map

2.1 Site Description

The 144-acre underground fuel storage Facility is located in south-central O‘ahu approximately 2–3 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 (b) (3) (A) ft above an underlying basal aquifer that is a major municipal and military drinking water source.

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 Ko‘olau Volcanic series. The Ko‘olau 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 a‘ā lava flows are present in the Ko‘olau 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 Hawai‘i 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) 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 [redacted] ft below the bottom of these streams. In the vicinity of Adit 3 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 [redacted] ft west of the nearest fuel storage tank. Red Hill Shaft and Navy Well 2255-32 (Navy 'Aiea Hālawa Shaft, located approximately [redacted] 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 [redacted] 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 at the Hālawa Interchange, 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 2024e), while remaining sludge and piping will be removed during Facility closure operations under command of the Navy Closure Task Force – Red Hill.[1]

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

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 liquid petroleum hydrocarbon fuels (LNAPL) 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.

Investigation Report	Summary
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.
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 Recovery Drain Line releases.
Phase 1 and *Phase 2 Technical Memoranda, Holding Tank and Leach Tank Characterization, November 2021 Pipeline Release* (DON 2022k; 2023e)	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; 2023h; 2023i; 2023j; 2023k; 2024g)	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 2023c)	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 2023m)	Presented in-progress results of the Adit 3 site characterization effort.

Investigation Report	Summary
Draft Site Characterization Report, November 2021 JP-5 Release in Adit 3, Operable Unit 1 (DON 2023l); revised August 2024	Presented draft results of the (b) (3) (A) site characterization effort for the shallow vadose zone (Operable Unit 1 [OU-1]).
Final Report of Findings, Red Hill Shaft Flow Optimization Study (DON 2023d)	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 2024e)	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 2024a)	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
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 Adit 3; 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 planned 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 Adit 3 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.

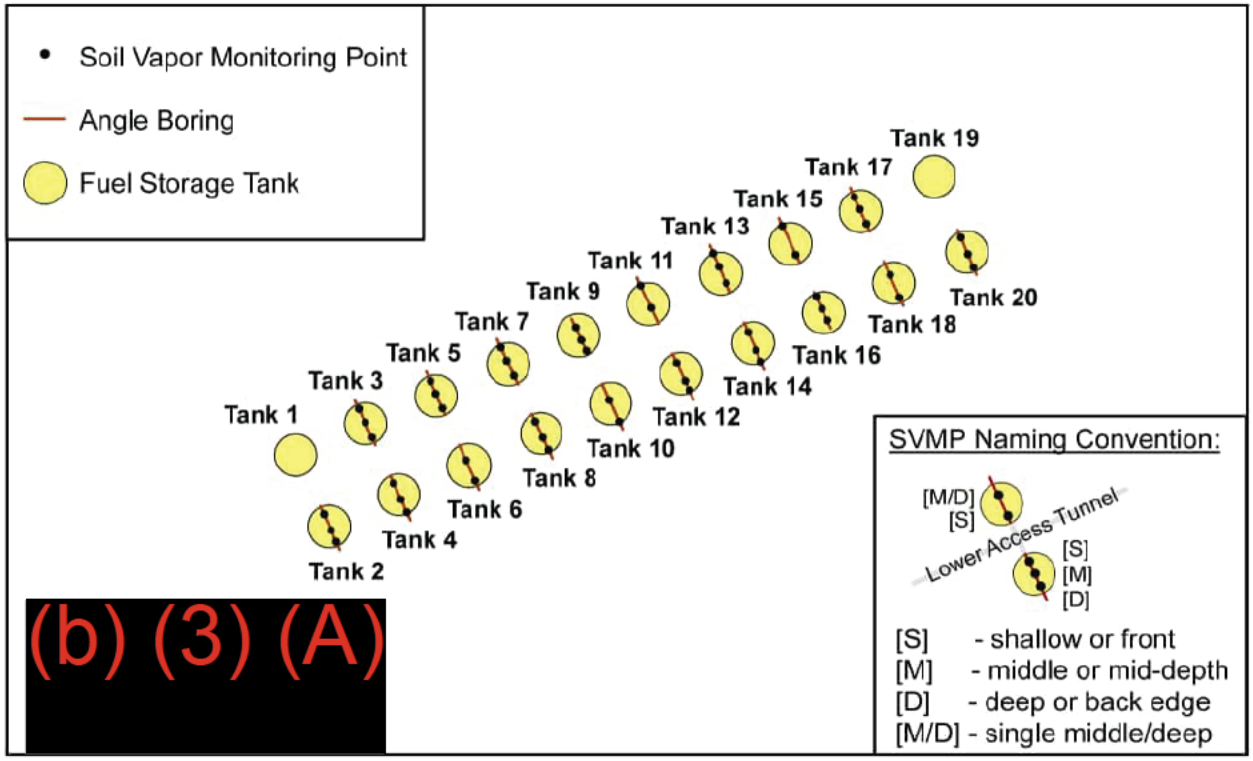


Figure 3: Soil Vapor Monitoring Network Below the Red Hill Fuel Storage Tanks

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. New delineation wells RHP08B and RHP08C with screens below the water table completed installation in September 2024 and August 2024, respectively.

Sentinel Wells: Installation of "NMW" sentinel wells continues as part of expanding the groundwater monitoring network following the November 2021 Release, with completion and sampling of NMW24 in 2022; NMW25, NMW26, NMW30, NMW32, and NMW33 in 2023; and NMW34 in 2024 (Figure 1). NMW27 is currently being drilled and is pending completion in the next Quarterly RRR period.

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 2024f). 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 *March 2024 Consolidated Groundwater Sampling Plan* 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)
RHMW2254-01 [a]	Sampling Point	Inside Facility boundary	2005	(b)(3)
RHMW01R	Single Screen	Inside Facility boundary	2021	232
RHMW02	Single Screen	Inside Facility boundary	2005	299
RHMW03	Single Screen	Inside Facility boundary	2005	271
RHMW04	Single Screen	Inside Facility boundary	2005	81
RHMW05	Single Screen	Inside Facility boundary	2009	225
RHMW06	Single Screen	Inside Facility boundary	2014	104
RHMW08	Single Screen	Inside Facility boundary	2016	64
RHMW09	Single Screen	Inside Facility boundary	2016	376
RHMW10	Single Screen	Inside Facility boundary	2017	452
RHMW11	Multilevel	Hālawa Correctional Facility	2017	3 [c]
RHMW12A	Single Screen	Hālawa Correctional Facility	2021	166
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
RHMW17	Single Screen	Inside Facility boundary	2022	54
RHMW18	Single Screen	Inside Facility boundary	2023	249
RHMW19	Single Screen	Inside Facility boundary	2020	441
RHMW20	Single Screen	Inside Facility boundary	2023	60
RHMW21	Single Screen	Inside Facility boundary	2024	323
HDMW2253-03 [b]	Deep Monitoring Well	Hālawa Correctional Facility	2000	20
RHP01	Single Screen	Inside Facility boundary	2022	28
RHP02	Single Screen	Inside Facility boundary	2022	33
RHP03	Single Screen	Inside Facility boundary	2022	53
RHP04A	Single Screen	Inside Facility boundary	2022	129

Location ID	Type	Location	Year Installed	Approximate Distance to South Hālawa Stream (meters)
RHP04B	Deep Monitoring Well	Inside Facility boundary	2022	123
RHP04C	Deep Monitoring Well	Inside Facility boundary	2023	121
RHP05	Single Screen	South of Facility boundary	2022	186
RHP06	Single Screen	South of Facility boundary	2023	157
RHP07	Single Screen	Inside Facility boundary	2023	77
RHP08	Single Screen	South of Facility boundary	2023	165
RHP08B	Deep Monitoring Well	South of Facility boundary	2024	148
RHP08C	Deep Monitoring Well	South of Facility boundary	2024	147
NMW24	Single Screen	Northwest of Facility boundary	2022	1,835
NMW25	Single Screen	South of Facility boundary	2023	887
NMW26	Single Screen	North of Facility boundary	2024	2,043
NMW30	Single Screen	South of Facility boundary	2023	462
NMW32	Single Screen	West of Facility boundary	2023	457
NMW33	Single Screen	Southwest of Facility boundary	2023	1,850
NMW34	Single Screen	Northwest of Facility boundary	2024	1,498
OWDFMW03A	Single Screen	Inside Facility boundary	2021	40
OWDFMW08A	Single Screen	Inside Facility boundary	2021	60
RHSF-PUMP	Sampling Point	Inside Facility boundary	—	(b)(3) [redacted]

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.
[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.

Table 3-2: Description of Multilevel Monitoring Zones

Well	Number of Zones	Description	Zone(s) Currently Monitored	Zones Not Currently Monitored
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.	Zone 5	Zones 1 to 4 [a] Zones 6 to 8 [b]
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. • Zones 1 through 4 are completed deeper.	Zone 5	Zones 1 to 4 [a]
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.	Zone 3	Zones 1 to 2 [a] Zones 4 to 8 [b]
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. • Zones 1 through 4 are completed deeper.	Zone 5	Zones 1 to 4 [a]

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 [redacted] 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* [redacted] *Operable Unit 1*, submitted to the Regulatory Agencies for review on May 19, 2023 (DON 2023l). The Navy responded to separate DOH and EPA review comments provided in July 2024 and prepared a revised report in August 2024 (DON 2024h).

Site characterization activities of the perched water zone continue at [redacted] 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 [redacted] Tunnels. Two additional nested DSVMPs 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 and Former Leach Tank Site Characterization

A multi-phase subsurface site characterization and removal action of contaminated soil at the Holding Tank/Leach Tank 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 xylenes (BTEX); and naphthalene, 1-methylnaphthalene (1MN), and 2-methylnaphthalene (2MN). 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 2023e) on July 13, 2023. In addition, a *Draft Closure Report, Concrete Tank Removal* was provided to the Regulatory Agencies in June 2023 (DON 2023c). The Navy is currently responding to DOH review comments on both documents provided in June 2024.

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.

Once the removal action confirmation sampling results have been evaluated, the Navy will develop 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.

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 Adit 3 (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 2024i), the Regulatory Agencies conditionally approved the plan on April 12, 2024, and the Navy published a Final Addendum in October 2024 (DON 2024d). 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 515 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), located beside an aboveground BWS water tank southwest of the Red Hill fuel storage tanks adjacent to the Facility boundary near RHMW09. 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).

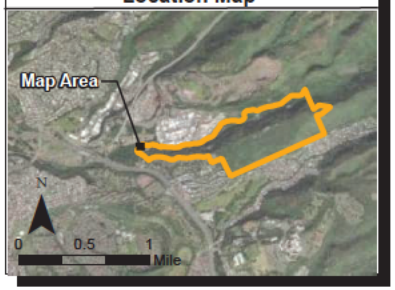
3.7 Remediation Pilot Test at Adit 3

3.7.1 Completed Work

A bench-scale test (JP-5 weathering treatability study) was completed between November and December 2023 to validate that the volatility of JP-5 will 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 2024b). The test results indicated that air sparging (AS) and soil vapor extraction (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 non-aqueous-phase liquid mobility and viscosity will increase as lower molecular weight compounds are removed.



Location Map



Legend

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

G:\N\627422\3F01\42_697103\10-HNL_1900\CAD\GIS\920 GIS\202 Map\03 RRR\Rpt_HT-LT Sample Loc\Map 20241125.mxd 11/25/2024

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An approximately 4-month shallow-zone SVE pilot test was conducted from April 22, 2024, through August 12, 2024, to evaluate SVE for remediating fuel released to the shallow subsurface environment in the vicinity of (b) (3) (A) by the November 2021 Release. The objectives of the shallow SVE pilot test were to assess the effectiveness of the technology in heterogenous volcanic lithologies, assess the constructability of the technology, and identify design parameters prior to potential full-scale implementation.

The Navy submitted a shallow SVE technical memorandum to the Regulatory Agencies on August 2, 2024, to present a preliminary evaluation of the SVE system based on initial step and constant rate testing (DON 2024b). The memorandum indicated that the shallow SVE system induced vacuum distribution beneath the tunnel floor over 570 ft, in the same areas where perched water and impacts in the shallow subsurface were previously identified. The memorandum recommended AS testing because the SVE system appears to be capable of capturing vapors from the proposed AS footprint without additional shallow SVE wells.

3.7.2 Ongoing Work

After the 4-month shallow SVE pilot test was completed on August 2, 2024, the Navy began preparation of a shallow SVE report to document the results of the pilot test, including system configuration, vacuum influence in the extraction area, and gas composition of extracted and subsurface vapors, and to provide recommendations regarding the application of shallow SVE in a larger-scale system. The shallow SVE report will be submitted to the Regulatory Agencies in December 2024.

In preparation for a deep SVE pilot test, 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 January 2025.

3.7.3 Future Work

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

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).

Adit 3 Soil Vapor Monitoring: Routine monitoring of the SVMPs installed in the tunnel floor near (b) (3) (A) 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 5.3 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 Holding Tank and Former Leach Tank area are included below. As noted in Section 3.0, the data for these two investigations are documented in separate reports (DON 2023l; 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 in July and August using Summa canisters from SVMPs SV15S, 15D, 17S, 17D, 18S, 18D, 20M, and 20D for TO-3 and TO-15 analysis.

5.1.2 (b) (3) (A) and Pearl Harbor Tunnel SVMPs

Two SVMP monitoring events were conducted during this reporting period using handheld PIDs, as part of implementing the *Preliminary Site Characterization Plan* (DON 2022e) and *LNAPL Site Characterization Plan* (DON 2022j) (Section 3.2), including both planned monthly SVMP monitoring events and out-of-frequency events conducted in response to rainfall events. Figure 5A shows the organic vapor concentrations measured during the reporting period, 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 current reporting period.

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

Field work conducted for the Shallow SVE and natural source-zone depletion pilot projects at (b) (3) (A) (Section 3.7) during this reporting period included:

- Regular operation and maintenance of the shallow SVE system was conducted through August 12, 2024. The system was shut down due to concerns of potential short-circuiting when drilling of deep SVE wells and deep SVMPs resumed.
- Mobilization of drilling equipment and supplies to Adit 3 began on August 15, 2024. Drilling of deep SVE well 2S+025-SVE-1 was started on August 22, 2024; however, work was paused on September 13, 2024, to accommodate soil vapor pilot sampling conducted under a different contract task order. Drilling of 2S+025-SVE-1 resumed on October 28, 2024. One additional deep SVE well, two deep SVMPs, and two intermediate SVMPs are planned after completion of 2S+025-SVE-1.

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 5.3 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.

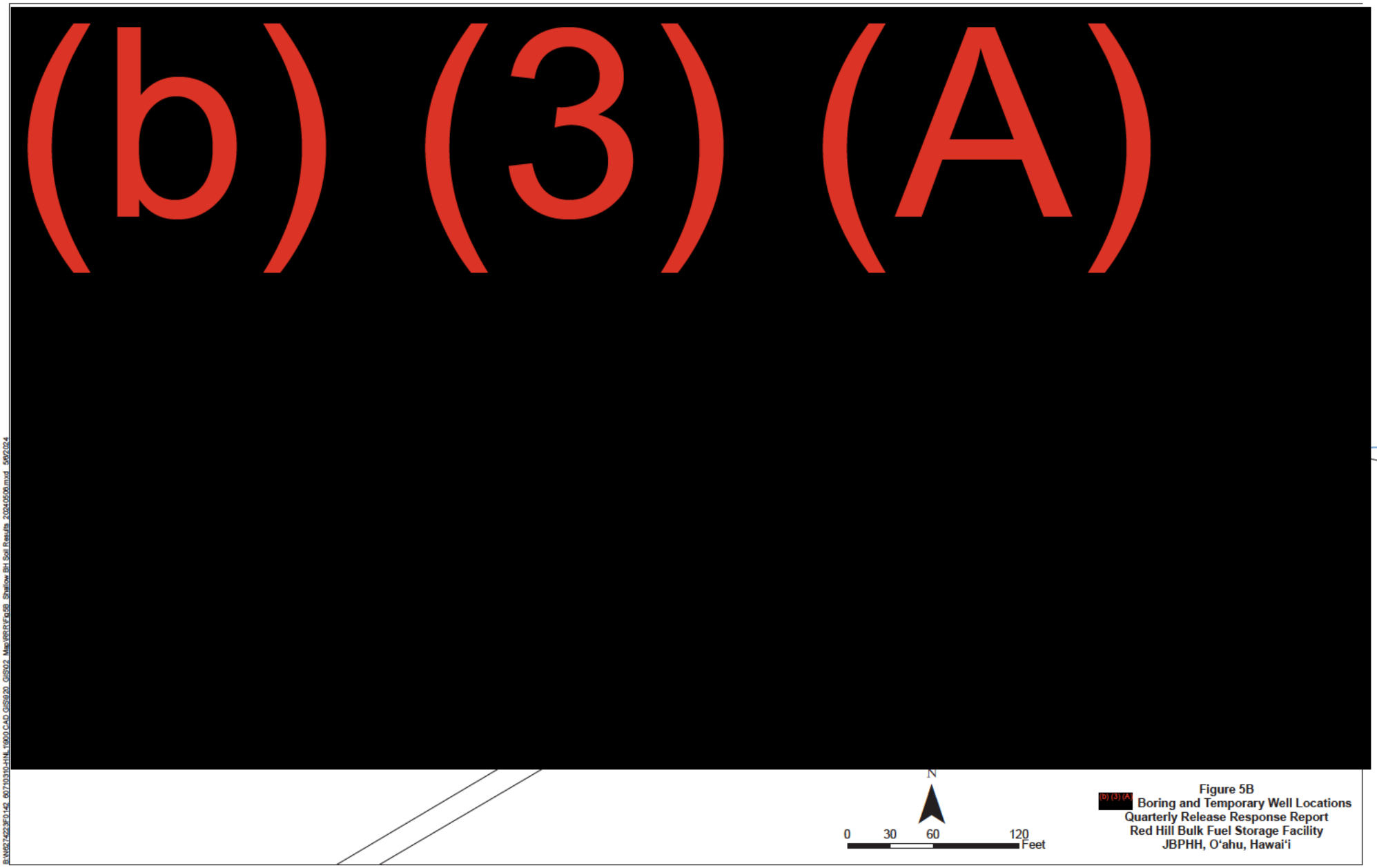
Due to confined aquifer conditions, RHMW12A and RHMW16 have submerged well screens; therefore, LNAPL gauging was not appropriate. Similarly, HDMW2253-03 is a deep monitoring well installed by the State of Hawai‘i Department of Land and Natural Resources with a solid casing to approximately 50 ft below 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).

| Event No | Date | (b) (3)-(A) | | |


(b) (3) (A)
N
0
30
60
120
Feet
(b) (3) (A)
Figure 5B
Boring and Temporary Well Locations
Quarterly Release Response Report
Red Hill Bulk Fuel Storage Facility
JBPHH, O'ahu, Hawai'i

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

- 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, [redacted], and RHP05, RHP06, and RHP08/08B/08C, located just outside the Facility boundary south of Red Hill Shaft.
- Sentinel wells at locations north (NMW26), northwest (NMW24 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 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
August 2024 (1st Sample Event)	RHP03, RHP04A, OWDFMW03A, OWDFMW08A
September 2024 (1st Sample Event)	RHMW04, RHMW06, RHMW17, RHMW20
September 2024 (2nd Sample Event)	RHMW10, RHMW19
October 2024 (1st Sample Event)	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 utilized 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 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

Parameter	Number and Type of Containers per Sample	Preservative	Holding Time
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
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) (3) (A) [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
		Ethyl Benzene	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	—

—	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

Source: (DOH 2024a; 2024b)

[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 twice-a-month 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 2023k).

Two [redacted] 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 2023k). Except for LNAPL observed in temporary monitoring wells screened in the shallow perched water located beneath the [redacted] 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 5.0 parts per million by volume (ppmv) or less. Shake test/PID screening concentrations were all 0.0 ppmv.

At [redacted] LNAPL was not detected at 22 out of 23 borehole locations and five out of seven temporary well locations. LNAPL was detected at one borehole location ([redacted]-100-BH) and two temporary well locations ([redacted]+015-TW and A3-010-TW) at thicknesses ranging from a sheen to 0.06 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. The measuring tape correction factors were updated as described in a December 14, 2022, letter from the U.S. Geological Survey and are included in Appendix B.2.2. 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, including 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 2023k) and the Third Quarter 2023 GW LTM Report (DON 2023f).

During this reporting period, basal groundwater elevations beneath and near the site ranged from 15.54 to 20.68 ft above msl except at NMW33, where groundwater elevations ranged from 13.06 to 13.26 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 noted during groundwater sampling field activities this reporting period:

- A metallic odor was observed during all sampling events at RHMW11.
- The water collected from HDMW2253-01 was intermittently observed to be cloudy or contain particulates. Particulates were also observed intermittently in water collected from NMW26 and NMW32.
- Organic or sulfurous odors were observed intermittently at RHMW02. An organic odor was also observed during one sampling event at RHMW01R.

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) (3) (A) [redacted]. 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: NMW32, RHMW08, RHMW10, RHMW16, and RHP06.

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 ORO detected results were qualified as estimated since FD precision was outside of control limits.
- One nitrate (as Nitrogen) not detected result was qualified as estimated since the MS duplicate precision was outside of control limits.
- One alkalinity detected result was qualified as estimated since the lab replicate 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] (%)
DRO	RHSF-PUMP-WGN01G-2407B	91.19 J	—
	RHSF-PUMP-WGFD01G-2407B	141 U	
ORO	RHSF-PUMP-WGN01G-2407B	237.6 J	—
	RHSF-PUMP-WGFD01G-2407B	189 U	
GRO	RHMW01R-WGN01LF-2407B	50 J	—
	RHMW01R-WGFD01LF-2407B	50 U	
DRO	RHMW01R-WGN01LF-2406B	112 J	3.5
	RHMW01R-WGFD01LF-2406B	116 J	
	RHMW01R-WGN01LF-2407A	106 J	2.9
	RHMW01R-WGFD01LF-2407A	103 J	
	RHMW01R-WGN01LF-2407B	148.6 J	13
	RHMW01R-WGFD01LF-2407B	169 J	
	RHMW01R-WGN01LF-2407B	172 J	10
	RHMW01R-WGFD01LF-2407B	155 J	
	RHMW01R-WGN01LF-2408A	201 J	12
	RHMW01R-WGFD01LF-2408A	179 J	
	RHMW01R-WGN01LF-2408B	179 J	9.4
	RHMW01R-WGFD01LF-2408B	163 J	
	RHMW01R-WGN01LF-2409A	172 J	18
	RHMW01R-WGFD01LF-2409A	143 J	
	RHMW01R-WGN01LF-2409B	121 J	5.6
	RHMW01R-WGFD01LF-2409B	128 J	
DRO SGC	RHMW01R-WGN01LF-2406B	120 J	14
	RHMW01R-WGFD01LF-2406B	104 J	

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
	RHMW01R-WGN01LF-2407A	87.1 J	—
	RHMW01R-WGFD01LF-2407A	100 U	
	RHMW01R-WGN01LF-2407B	118 J	7.9
	RHMW01R-WGFD01LF-2407B	109 J	
	RHMW01R-WGN01LF-2408A	142 J	14
	RHMW01R-WGFD01LF-2408A	124 J	
	RHMW01R-WGN01LF-2408B	157 J	13
	RHMW01R-WGFD01LF-2408B	138 J	
	RHMW01R-WGN01LF-2409A	110 J	15
	RHMW01R-WGFD01LF-2409A	94.3 J	
ORO	RHMW01R-WGN01LF-2407B	79.46 J	72
	RHMW01R-WGFD01LF-2407B	168.4 J	
RHMW02			
GRO	RHMW02-WGN01LF-2407A	50 U	—
	RHMW02-WGFD01LF-2407A	54.1 J	
DRO	RHMW02-WGN01LF-2406B	1670	17
	RHMW02-WGFD01LF-2406B	1980	
	RHMW02-WGN01LF-2407A	961 J	42
	RHMW02-WGFD01LF-2407A	1470 J	
	RHMW02-WGN01LF-2407B	2170	17
	RHMW02-WGFD01LF-2407B	2574	
	RHMW02-WGN01LF-2407B	1570	3.8
	RHMW02-WGFD01LF-2407B	1630	
	RHMW02-WGN01LF-2408A	1780	3.4
	RHMW02-WGFD01LF-2408A	1720	
	RHMW02-WGN01LF-2408B	1530	6.3
	RHMW02-WGFD01LF-2408B	1630	
	RHMW02-WGN01LF-2409A	1040	7.4
	RHMW02-WGFD01LF-2409A	1120	
DRO SGC	RHMW02-WGN01LF-2406B	1410	25
	RHMW02-WGFD01LF-2406B	1810	
	RHMW02-WGN01LF-2407A	897	5.3
	RHMW02-WGFD01LF-2407A	946 J-	
	RHMW02-WGN01LF-2407B	113.8 J	12
	RHMW02-WGFD01LF-2407B	127.8 J	
	RHMW02-WGN01LF-2407B	1240	2.4
	RHMW02-WGFD01LF-2407B	1210	
DRO SGC (cont'd)	RHMW02-WGN01LF-2408A	1310	10
	RHMW02-WGFD01LF-2408A	1180	

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
	RHMW02-WGN01LF-2408B	1230	11
	RHMW02-WGFD01LF-2408B	1370	
	RHMW02-WGN01LF-2409A	746	4.1
	RHMW02-WGFD01LF-2409A	777	
ORO	RHMW02-WGN01LF-2406B	118 J	26
	RHMW02-WGFD01LF-2406B	154 J	
	RHMW02-WGN01LF-2407A	170 U	—
	RHMW02-WGFD01LF-2407A	109 J	
	RHMW02-WGN01LF-2407B	807.2 J	91
	RHMW02-WGFD01LF-2407B	2162 J	
	RHMW02-WGN01LF-2407B	166 J	46
	RHMW02-WGFD01LF-2407B	265	
	RHMW02-WGN01LF-2408B	97.9 J	5.1
	RHMW02-WGFD01LF-2408B	103 J	
	RHMW02-WGN01LF-2409A	80 J	36
	RHMW02-WGFD01LF-2409A	115 J	
ORO SGC	RHMW02-WGN01LF-2406B	91.1 J	21
	RHMW02-WGFD01LF-2406B	113 J	
	RHMW02-WGN01LF-2407B	133 J	3.8
	RHMW02-WGFD01LF-2407B	128 J	
1MN	RHMW02-WGN01LF-2406B	0.41 J	—
	RHMW02-WGFD01LF-2406B	0.40 U	
	RHMW02-WGN01LF-2408A	0.42 U	—
	RHMW02-WGFD01LF-2408A	0.55 J	
Naphthalene	RHMW02-WGN01LF-2406B	1.2	35
	RHMW02-WGFD01LF-2406B	0.84	
	RHMW02-WGN01LF-2407A	0.69 J	12
	RHMW02-WGFD01LF-2407A	0.61 J	
	RHMW02-WGN01LF-2407B	0.81 J	1.2
	RHMW02-WGFD01LF-2407B	0.82 J	
	RHMW02-WGN01LF-2408A	1.0	57
	RHMW02-WGFD01LF-2408A	1.8	
	RHMW02-WGN01LF-2408B	0.79 J	16
	RHMW02-WGFD01LF-2408B	0.67 J	
	RHMW02-WGN01LF-2409A	0.35 J	43
	RHMW02-WGFD01LF-2409A	0.54 J	
DRO	RHMW17-WGN01LF-2406B	122 J	17
	RHMW17-WGFD01LF-2406B	144 J	

Analyte	Sample ID	Concentration (µg/L)	RPD [a,b] (%)
	RHMW17-WGN01LF-2407B	140 U	—
	RHMW17-WGFD01LF-2407B	107.6 J	
DRO SGC	RHMW17-WGN01LF-2406B	94.5 J	22
	RHMW17-WGFD01LF-2406B	118 J	
ORO	RHMW17-WGN01LF-2407B	187 U	—
	RHMW17-WGFD01LF-2407B	284.4 J	
DRO	RHP08-WGN01LF-2408A	100 U	—
	RHP08-WGFD01LF-2408A	101 J	
	RHP08-WGN01LF-2409A	135 J	19
	RHP08-WGFD01LF-2409A	164 J	
DRO SGC	RHP08-WGN01LF-2409A	96.7 J	6.3
	RHP08-WGFD01LF-2409A	103 J	
ORO	RHP08-WGN01LF-2409A	170 U	—
	RHP08-WGFD01LF-2409A	85.6 J	

— not calculable
% 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] $\text{RPD} = \frac{|(x2 - x1)|}{((X2+X1)/2)}$.

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 the DoD or established by the individual laboratory.

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 control limits for accuracy are dependent on the analytical method and based on historical laboratory or DoD data.

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).

Not-detected results are at the limit of detection (LOD):

- Twenty-seven primary and two FD not-detected results for VOCs were qualified as UJ because the %D for the initial or closing CCV exceeded control limits.
- Two primary not-detected results for VOCs were qualified as UJ because QC sample percent recoveries were outside the acceptance limit.
- PAHs were not detected in 112 primary and 13 FD samples and were qualified as UJ due to high %RSDs (%RSD >15%).
- Eleven primary and three FD not-detected results for phenol were qualified as UJ and J, respectively, because the %D for the initial and closing CCV exceeded control limits.
- One primary not-detected result for phenol was qualified as UJ because the QC sample percent recovery was outside the acceptance limit.
- 2-(2-methoxyethoxy)-ethanol (2-2-MEE) was not detected in 10 primary samples and one FD; it was qualified as UJ because QC sample percent recoveries were outside the acceptance limit.
- 1,2-Dibromoethane was not detected in two primary samples and was qualified as UJ because QC sample percent recoveries were outside the acceptance limit.
- Chloride was detected in six primary samples and was qualified as J- because QC sample percent recoveries were outside the acceptance limit.
- Nitrate (as Nitrogen) was detected in one primary sample and was qualified as J- because the QC sample percent recovery was outside the acceptance limit.
- Nitrate-nitrite (as Nitrogen) was detected in one primary sample and was qualified as J- because the QC sample percent recovery was outside the acceptance limit.
- Alkalinity was detected in 37 primary samples and was qualified as J+ because the QC sample recoveries were outside the acceptance limit.
- Sodium was detected in one primary sample and was qualified as J+ because the QC sample recovery was outside the acceptance limit.

Rejected data occurred due to significant deficiencies in meeting the published method and project QC criteria, as described in Section 8.3.4.

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.

During the sampling rounds for this reporting period:

- 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.
- Prior to the Consolidated Groundwater Sampling Program (DOH 2024b), groundwater samples from wells that are screened across the water table were collected with a bailer, based on DOH's request:[2]
  - Sampling with a bailer was requested to collect water at the groundwater/air interface along with any potential LNAPL that may be present. Sampling with a bailer may introduce air and turbulence to the sample, which may volatilize VOCs in the groundwater matrix. The bailer technique is also less repeatable and therefore adds a degree of variability into the results, which may be less representative of actual conditions at the water table.
  - In addition, DOH requested no purging be associated with this method; therefore, the methodology is likely to be affected by any localized equilibrium within the well and filter pack, and the results may not represent water flowing through the aquifer.
  - This methodology is contrary to the DOH *Technical Guidance Manual for the Implementation of the Hawaii State Contingency Plan* (DOH 2024c), which "recommends that low-flow purging and sampling approaches be utilized whenever feasible in order to improve the representativeness of the sample data."

Representativeness is also evaluated through compliance with the method-specific recommended sample holding time, method-specific sample preservation and through the analysis of blank samples, including method blank, equipment blank, field blank, 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:

- Six nitrate-nitrite (as Nitrogen), 87 NVDOC, and 99 TOC sample results that were 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:

- Four nitrate (as Nitrogen) detected results were flagged J+ due to contamination in the instrument blank.

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

- Twenty-one nitrate-nitrite (as Nitrogen) results were flagged J+ due to contamination in the instrument blank.
- Nineteen NVDOC results were flagged J+ due to contamination in the laboratory or instrument blank.
- Nineteen total organic carbon results were flagged J+ due to contamination in the laboratory or 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 and ORO not detected results were flagged as UJ and one DRO detected result was flagged as J due to sample preparation occurring beyond the method-recommended holding time.
- One ORO silica gel cleanup (SGC) not detected result was flagged as UJ and one DRO and ORO SGC detected result was flagged as J- due to sample preparation occurring beyond the method-recommended holding time.
- Three PAH not-detected results were flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- One phenol not-detected results were flagged as UJ due to sample preparation occurring beyond the method-recommended holding time.
- Two nitrate (as Nitrogen) not detected result was flagged as UJ and twelve chloride, nitrate (as Nitrogen), or sulfate detected results were flagged as J- due to sample analysis occurring beyond the method-recommended holding time.

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

- Three 2-2-MEE and six ferrous iron not detected results were flagged as UJ, and five ferrous iron results were flagged as J because sample temperatures were above the data validation guideline and method required temperature of 0–6 degrees Celsius (°C).
- One ferrous iron not detected result was flagged as UJ since the sample was received with a pH greater than the method requirement of < 2.

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 significant 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 and one FD sample for phenol were qualified as R because QC sample percent recoveries were significantly outside the acceptance limit.
- Seven primary samples for ferrous iron were qualified as R because the cooler temperature was above the data validation guideline and method required temperature of 0–6°C and greater than 10°C.

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.[3] 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).

Laboratory results for below-tank SVMPs during this reporting period are consistent with recent monitoring periods. 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 no additional out-of-frequency monitoring events occurred during this monitoring period. Figure 5A shows the results of soil vapor monitoring from subslab and shallow SVMPs installed in the floor of the (b) (3) (A) Tunnels during the reporting period. 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 2023k).

Remedial pilot studies began in March 2024 and the 4-month shallow SVE Pilot Test was completed in September 2024. The objective of this pilot test was to evaluate the system's zone of influence and the rate of hydrocarbon removal. Two parameters were monitored to evaluate the system's zone of influence. This included the observed vacuum distribution throughout areas of known impacts and changes in soil gas composition. The system maintained a vapor extraction rate of around 160 scfm, most of which was from the Hume Line. The vacuum distribution was then monitored in the shallow subsurface with noting any vacuum propagation into the underlying basalt. An observation of a vacuum response across the area where AS is being considered indicates that the system is capturing the soil gas in the vicinity of the monitoring points. During the duration of system operation, a noticeable reduction in carbon dioxide and methane suggested accelerated changes in air exchange. A rebound in carbon dioxide was then observed after the system was turned off. This observation suggested promotion of microbial growth which 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 were removed. This was primarily due to low VOC concentrations being observed at the shallow soil vapor points. Future phases of the planned pilot study will incorporate deeper extraction points with the expectation of higher VOC mass removal.

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 not detected at any monitoring location other than the (b) (3) (A) Tunnel. Groundwater monitoring well headspace concentrations were 5.0 ppmv or less.

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

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 2023k) and the Third Quarter 2023 GW LTM Report (DON 2023f).

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 the 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	GRO DRO (ND after SGC) ORO (ND after SGC)	TPH: 329 µg/L (screening criterion: 193 µg/L)
RHMW01R	GRO DRO (lower after SGC) ORO (ND after SGC)	TPH: 228; 222; 337; 201 µg/L (screening criterion: 193 µg/L)
RHMW02	GRO DRO (lower after SGC) ORO (lower after SGC) 1-Methylnaphthalene Naphthalene	TPH: 1786; 2133; 960; 1632; 2977; 1735; 4735; 1894; 1779; 1718; 1627; 1732; 1120; 1234 µg/L (screening criterion: 193 µg/L) (below SSRBL: 4,500 µg/L)
RHMW03	DRO (lower after SGC) ORO (ND after SGC)	TPH: 1596 µg/L (screening criterion: 193 µg/L) (below SSRBL: 4,500 µg/L)
RHMW04	Benzo(a)anthracene Benzo(b)fluoranthene Benzo(k)fluoranthene Chrysene	Indeno(1,2,3-cd)pyrene: 0.036 J µg/L (screening criterion: 0.018 µg/L)

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
RHMW05	None	None
RHMW06	DRO (ND after SGC)	None
RHMW08	DRO (ND after SGC) ORO (ND after SGC)	TPH: 368 µg/L (screening criterion: 193 µg/L)
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: 392 µg/L (screening criterion: 193 µg/L)
RHMW18	DRO (ND after SGC) ORO (ND after SGC)	TPH: 322 µg/L (screening criterion: 193 µg/L)
RHMW19	None	None
RHMW20	None	None
RHMW21	DRO (lower after SGC) ORO (ND after SGC)	TPH: 494; 503; 202 µg/L (screening criterion: 193 µg/L)
HDMW2253-01	None	None
RHP01	DRO (ND after SGC) ORO (ND after SGC)	TPH: 270 µg/L (screening criterion: 193 µg/L)
RHP02	ORO (ND after SGC)	None
RHP03	None	None
RHP04A	None	None
RHP04B	DRO (ND after SGC) ORO (ND after SGC)	TPH: 235 µg/L (screening criterion: 193 µg/L)
RHP04C	None	None
RHP05	None	None
RHP06	None	None
RHP07	None	None
RHP08	DRO (lower after SGC) ORO (ND after SGC)	TPH: 250 µg/L (screening criterion: 193 µg/L)
RHP08C	None	None

Monitoring Location	COPC, Fuel Additive, or Lead Scavenger Detections Below Screening Criterion	Analyte Concentration Exceeding Screening Criterion
NMW24	DRO (ND after SGC) ORO (ND after SGC)	TPH: 426 µg/L (screening criterion: 193 µg/L)
NMW25	None	None
NMW26	ORO (ND after SGC)	None
NMW30	None	None
NMW32	DRO (ND after SGC)	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 2023g) 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).

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Table 9-2. Summary of Analytical Groundwater Results Received During the Current Reporting Period (7/11/2024 through 10/8/2024) (cont'd)

Chemical of Concern	CAS	Method	Unit	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 and Fuel Related Compounds															
All TPH Range Organic Statistics Combined (Sum from each Lab)															
GRO	PHCC6C10	8015	µg/L	275	272	3	1.1%	50	J	61.3	J	RHSF-PUMP	—	—	—
DRO	PHCC10C24	8015	µg/L	323	270	53	16.4%	66.8	J	2574		RHMW02	—	—	—
DRO with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	57	24	33	57.9%	83.1	J	1810		RHMW02	—	—	—
ORO	PHCC24C40	8015	µg/L	323	298	25	7.7%	79.46	J	2162	J	RHMW02	—	—	—
ORO with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	57	53	4	7.0%	ND		133	J	RHMW02	—	—	—
Total Petroleum Hydrocarbons (TPH) Calculation	—	Calculated	µg/L	323	267	56	17.3%	61		4735		RHMW02	193	30	9.3%
TPH Statistic by Laboratory															
GRO (b) (4)	PHCC6C10	8015	µg/L	0	0	0	—	—		—		0	—	—	—
DRO (b) (4)	PHCC10C24	8015	µg/L	48	35	13	27.1%	66.8	J	2574		RHMW02	—	—	—
DRO (b) (4) with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	16	14	2	12.5%	113.8	J	127.8	J	RHMW02	—	—	—
ORO (b) (4)	PHCC24C40	8015	µg/L	48	34	14	29.2%	79.46	J	2162	J	RHMW02	—	—	—
ORO (b) (4) with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	16	16	0	0.0%	ND		ND		—	—	—	—
GRO (b) (4)	PHCC6C10	8015	µg/L	275	272	3	1.1%	50	J	61.3	J	RHSF-PUMP	—	—	—
DRO (b) (4)	PHCC10C24	8015	µg/L	275	235	40	14.5%	86.6	J	1980		RHMW02	—	—	—
DRO (b) (4) with Silica Gel Cleanup	PHCC10C24SGC	8015	µg/L	41	10	31	75.6%	83.1	J	1810		RHMW02	—	—	—
ORO (b) (4)	PHCC24C40	8015	µg/L	275	264	11	4.0%	80	J	265		RHMW02	—	—	—
ORO (b) (4) with Silica Gel Cleanup	PHCC24C40SGC	8015	µg/L	41	37	4	9.8%	91.1	J	133	J	RHMW02	—	—	—
BTEX, Full Suite VOCs, and Lead															
Benzene	71-43-2	8260	µg/L	472	472	0	0.0%	ND		ND		—	5	0	0.0%
Ethylbenzene	100-41-4	8260	µg/L	472	472	0	0.0%	ND		ND		—	30	0	0.0%
Toluene	108-88-3	8260	µg/L	472	472	0	0.0%	ND		ND		—	40	0	0.0%
Xylenes	1330-20-7	8260	µg/L	472	472	0	0.0%	ND		ND		—	20	0	0.0%
1,2,4-Trimethylbenzene	95-63-6	SW8260	µg/L	472	472	0	0.0%	ND		ND		—	—	—	—
1,3,5-Trimethylbenzene	108-67-8	SW8260	µg/L	472	472	0	0.0%	ND		ND		—	—	—	—
Lead Scavengers															
1,2-Dibromoethane	106-93-4	8011	µg/L	244	244	0	0.0%	ND		ND		—	0.04	0	0.0%
1,2-Dichloroethane	107-06-2	8260	µg/L	472	472	0	0.0%	ND		ND		—	5	0	0.0%
Fuel Additives															
Phenol	108-95-2	SW8270	µg/L	273	273	0	0.0%	ND		ND		—	300	0	0.0%
2-(2- Methoxyethoxy)-ethanol	111-77-3	8270	µg/L	48	48	0	0.0%	ND		ND		—	—	—	—
PAHs – COPCs															
1-Methylnaphthalene	90-12-0	8270 SIM	µg/L	275	273	2	0.7%	0.41	J	0.55	J	RHMW02	10	0	0.0%
2-Methylnaphthalene	91-57-6	8270 SIM	µg/L	275	275	0	0.0%	ND		ND		—	10	0	0.0%
Naphthalene	91-20-3	8270 SIM	µg/L	275	263	12	4.4%	0.35	J	1.8		RHMW02	17	0	0.0%

Table 9-2. Summary of Analytical Groundwater Results Received During the Current Reporting Period (7/11/2024 through 10/8/2024)

Chemical of Concern	CAS	Method	Unit	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	275	275	0	0.0%	ND		ND		—	20	0	0.0%
Acenaphthylene	208-96-8	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	300	0	0.0%
Anthracene	120-12-7	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	0.18	0	0.0%
Benzo(a)anthracene	56-55-3	8270SIM	µg/L	275	274	1	0.4%	0.044	J	0.044	J	RHMW04	0.052	0	0.0%
Benzo(a)pyrene	50-32-8	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	0.2	0	0.0%
Benzo(b)fluoranthene	205-99-2	8270SIM	µg/L	275	274	1	0.4%	0.049	J	0.049	J	RHMW04	0.058	0	0.0%
Benzo(g,h,i)perylene	191-24-2	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	0.13	0	0.0%
Benzo(k)fluoranthene	207-08-9	8270SIM	µg/L	275	274	1	0.4%	0.048	J	0.048	J	RHMW04	0.36	0	0.0%
Chrysene	218-01-9	8270SIM	µg/L	275	274	1	0.4%	0.043	J	0.043	J	RHMW04	0.24	0	0.0%
Dibenzo(a,h)anthracene	53-70-3	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	0.0048	0	0.0%
Fluoranthene	206-44-0	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	13	0	0.0%
Fluorene	86-73-7	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	250	0	0.0%
Indeno(1,2,3-cd)pyrene	193-39-5	8270SIM	µg/L	275	274	1	0.4%	0.036	J	0.036	J	RHMW04	0.018	1	0.4%
Phenanthrene	85-01-8	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	250	0	0.0%
Pyrene	129-00-0	8270SIM	µg/L	275	275	0	0.0%	ND		ND		—	68	0	0.0%
Natural Attenuation Parameters															
Alkalinity, Bicarbonate	ALKB	A2320B	µg/L	228	7	221	96.9%	13		280		RHMW03	—	—	—
Alkalinity, Carbonate (as CO3)	ALKC	A2320B	µg/L	228	217	11	4.8%	45		140		RHMW13-04	—	—	—
Alkalinity, Total (as CaCO3)	ALK	A2320B	µg/L	228	1	227	99.6%	13		280		RHMW03	—	—	—
Chloride (as Cl)	16887-00-6	E300	µg/L	228	0	228	100.0%	6.1		510		RHMW20	—	—	—
Iron, Ferrous	15438-31-0	A3500B	µg/L	232	214	18	7.8%	0.16	J	1.7	J	RHMW02	—	—	—
Methane	74-82-8	SW8015	µg/L	244	154	90	36.9%	0.16	J	2940		RHMW02	—	—	—
Nitrate (as N)	NO3N	E300	µg/L	228	32	196	86.0%	0.098	J	5.7		NMW25	—	—	—
Nitrate-Nitrite (as N)	NO3NO2N	E353.2	µg/L	228	29	199	87.3%	0.07	J	6.3		NMW25	—	—	—
NV Dissolved Organic Carbon	DOC	9060	µg/L	239	81	158	66.1%	271	J	6620		RHMW02	—	—	—
Sulfate (as SO4)	14808-79-8	E300	µg/L	228	0	228	100.0%	1	J	160		RHMW19	—	—	—
Total Organic Carbon	TOC	9060	µg/L	239	121	118	49.4%	253	J	6920		RHP07	—	—	—

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, 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 and RHP08C.

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

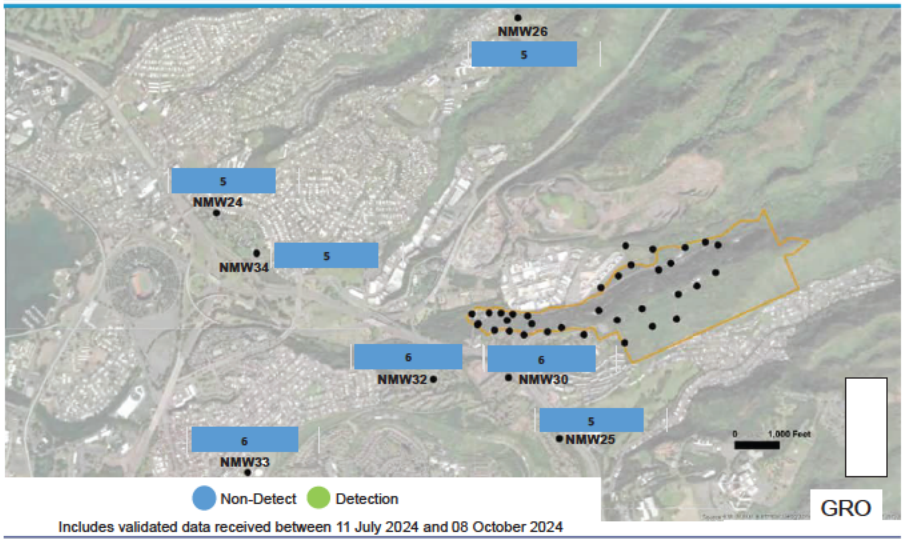
GRO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

GRO Sample Results – Plume Delineation Wells

(b) (3) (A)

GRO Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

Figure 6: GRO Groundwater Analytical Results Summary

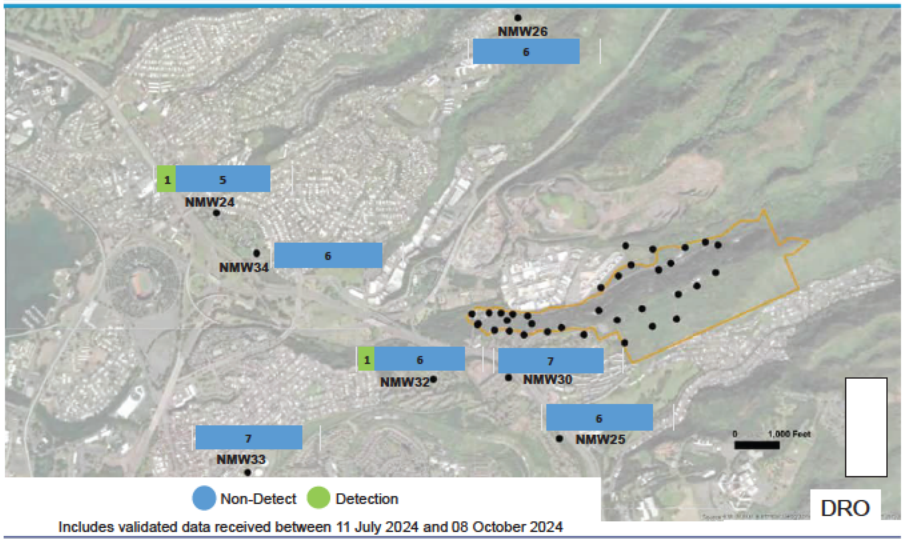
DRO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

DRO Sample Results – Plume Delineation Wells

(b) (3) (A)

DRO Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

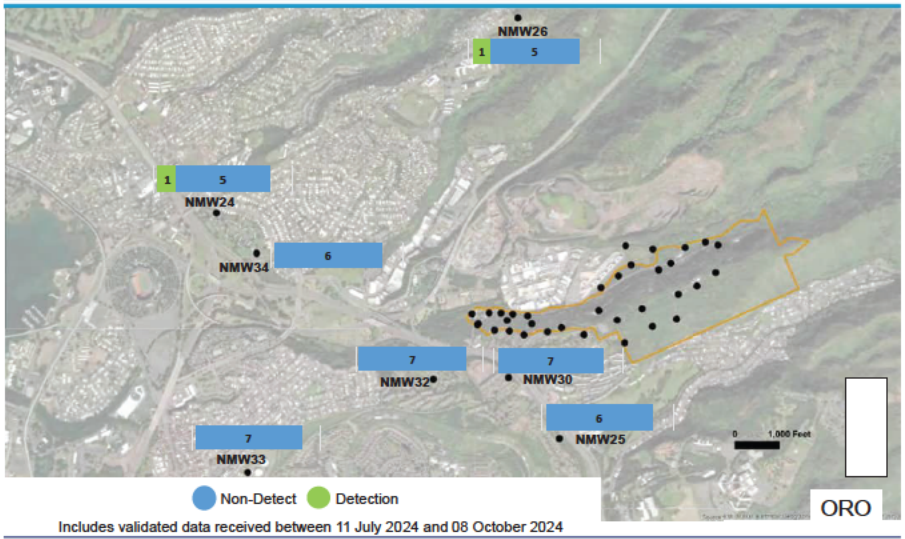
ORO Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

ORO Sample Results – Plume Delineation Wells

(b) (3) (A)

ORO Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

Figure 8: ORO Groundwater Analytical Results Summary

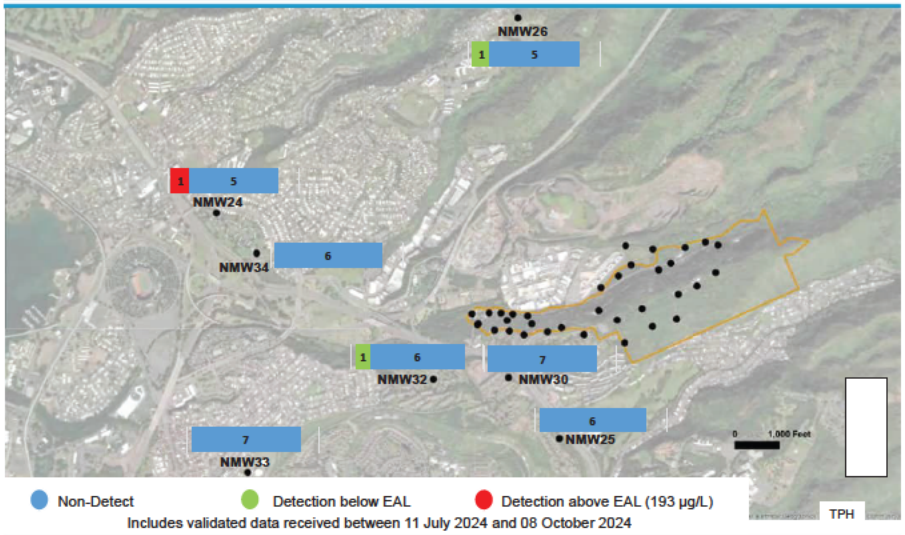
TPH Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

TPH Sample Results – Plume Delineation Wells

(b) (3) (A)

TPH Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

Figure 9: TPH Groundwater Analytical Results Summary

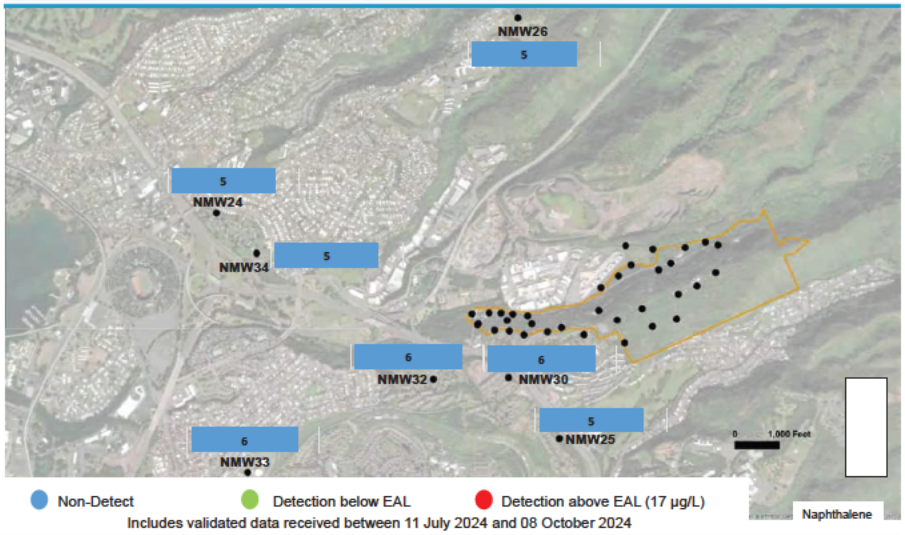
Naphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

Naphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

Naphthalene Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

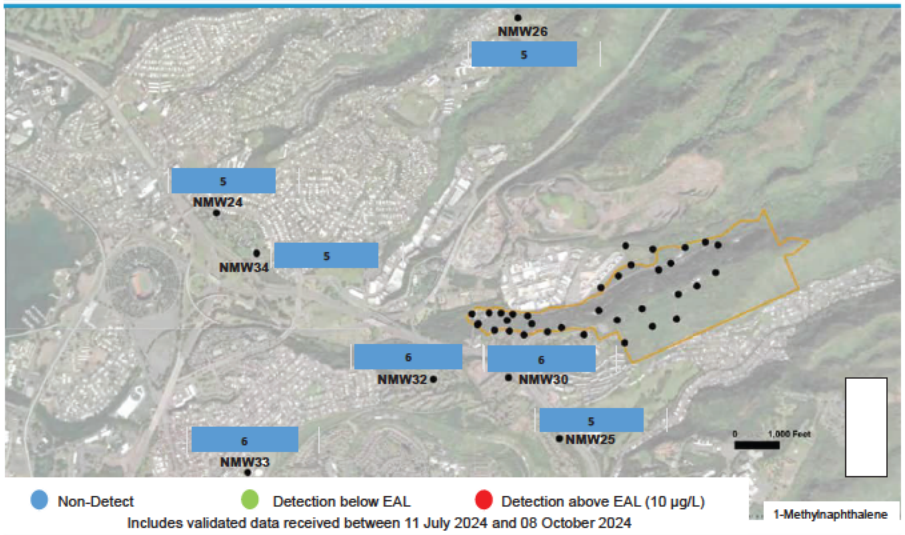
1-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

1-Methylnaphthalene Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

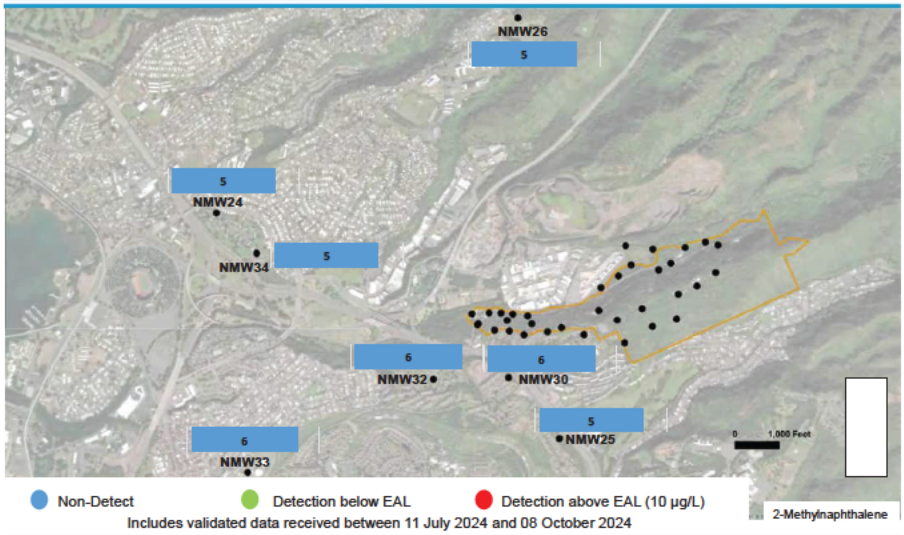
2-Methylnaphthalene Sample Results – Red Hill Monitoring Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Plume Delineation Wells

(b) (3) (A)

2-Methylnaphthalene Sample Results – Sentinel Wells



Includes validated data received between 11 July 2024 and 08 October 2024

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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 many other organic compounds that may be detected within the specific carbon ranges of the methods. The numerical results provided in the text below, and in the referenced figures and tables can measure a larger set of organic compounds including 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 possible additional analysis. 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 once at in-tunnel locations RHMW01R, RHMW02, and Red Hill Shaft Facility (RHSF) Pump. GRO was not detected at any outlying, delineation, or sentinel wells.

9.3.1.2 DRO

As shown on Figure 7, detections were present for samples collected at in-tunnel locations RHSF Pump, RHMW01R, RHMW02, RHMW03, and RHMW21; outlying wells RHMW06, RHMW08, RHMW17, and RHMW18; delineation wells RHP01, RHP04B, and RHP08; and sentinel wells NMW24 and NMW32.

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 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 RHSF Pump and RHMW21; outlying wells RHMW06, RHMW08, RHMW17, and RHMW18; and delineation wells RHP01 and RHP04B have been occurring sporadically and are infrequent or decreasing since the inception of monitoring. Inconsistent concentrations indicate that they are not due to a persistent petroleum plume and are likely due to other organic compounds that are detected in the DRO range. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. RHMW21 is a newly constructed well, and the detections are most likely attributable to well construction materials introduced during drilling or due to laboratory artifacts, as evidenced by detections continuing to decline over time.

- The frequency of low-level concentrations detected in samples collected at in-tunnel locations RHSF Pump and RHMW03; delineation well RHP08; and sentinel wells NMW24 and NMW32 have increased this reporting period. The chromatograms indicate that the low-level detections are not due to petroleum but other organic compounds that are detected in the DRO range which may be introduced from sample handling, preparation, and analysis.
- The sample chromatograms for delineation wells RHP01 and RHP04B are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. Chromatograms exhibited a few relatively large discrete peaks in the C10–C24 range. SGC resulted in partial or complete removal of the peaks.
- 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 wells RHSF Pump, RHMW01R, RHMW02, RHMW03, and RHMW21; outlying well RHMW08, RHMW17, and RHMW18; delineation wells RHP01, RHP02, RHP04B, and RHP08; and sentinel wells NMW24 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. The only concentrations detected from samples from RHMW01R appear to be sporadic for samples analyzed by (b) (4), with no detections reported in the corresponding split samples analyzed by (b) (4). The ORO concentrations and chromatogram from RHMW01R may have some impacts from the groundwater plume associated with RHMW02 since RHMW01R is located hydraulically downgradient from RHMW02. The chromatogram shows a hump that is consistent with middle distillate metabolites.
- Low-level concentrations from samples collected at in-tunnel locations RHSF Pump, RHMW03, and RHMW21; external wells located within the Facility (RHMW08, RHMW17, and RHMW18); most delineation wells (except for RHP08); and most sentinel wells (except for NMW26) are sporadic and 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). Inconsistent concentrations detected indicate that it is not due to a persistent petroleum plume, and is likely due to other organic compounds that are detected in the ORO range. 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 also be evidence of naturally occurring organic compounds that are polar or contaminants introduced during sampling and/or analysis that are detected in the ORO range.
- The chromatograms for the single low-level ORO concentration detected in samples collected at delineation and sentinel wells RHP08 and NMW26, respectively, indicate that the low-level concentrations are not due to petroleum but other organic compounds that are detected in the ORO range which may be introduced from sample handling, preparation, and analysis.

- Samples that were collected at RHMW2254-01 (Red Hill Shaft) sporadically detected ORO compounds. These results included sporadic exceedances of the EAL immediately following the November 2021 Release but concentrations have not exceeded the EAL since November 2022, and include only two detected concentrations throughout 2023. ORO has not been 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 as well as petroleum hydrocarbon-related metabolites. 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, 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 RRR will be comparing the results of the TPH range organics validated during this reporting period to the EALs associated with middle distillate fuels.

Table 6-6c from the Spring 2024 DOH guidance (Volume 2 Appendix 1) identifies action levels for middle distillate fuels in groundwater that may be a drinking water source and less than 150 meters from a surface water ecosystem, based on the amount of degradation of the fuel (DON 2024a, Vol. 2, App. 1). The Navy uses a comparison of the TPH non-SGC and SGC results (based on the silica gel clean-up 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 micrograms per liter (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, nonpetroleum-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 EPA Method 8270 including tentatively identified compounds (TICs). Other than samples from RHMW02, all other samples had few to no TICs reported. The TICs reported were not detected in laboratory and/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 4,735 µg/L.
- Samples collected during the July 2024 quarterly event from in-tunnel locations RHMW01R, RHMW03, RHMW21, and RHSF Pump; outlying wells RHMW08, RHMW17, and RHMW18; delineation wells RHP01 and RHP04B; and sentinel well NMW24.

- Samples collected during the August and September monthly events from in-tunnel wells RHMW01R and RHMW21, and delineation well RHP08.

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. Only one set of samples from RHMW02 had a few carboxylic acid TICs that could be fuel biodegradation products; however, the laboratory has reported that some of the carboxylic acids are known to be coming from wash bin and/or skin contact.
- Samples exceeding the EAL from RHMW01R included DRO concentrations and chromatograms that are consistent with potential metabolites from middle distillates.
- 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 locations RHMW03 and RHSF Pump are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. Chromatograms show several early eluting wide, large peaks and an unresolved, messy baseline which extends into the C40 range in some of the samples. The samples were extracted using EPA Method 3520C, which results in typically higher detections than EPA Method 3510C. TPH range organics was not detected in the split sample that was extracted by EPA Method 3510C. Further investigation using Method 8270, in an attempt to tentatively identify unknown peaks, did not support the presence of any fuel-related or fuel degradation compounds.
- Inconsistent concentrations detected at RHMW08, RHMW17 and RHMW18 indicate that they are not due to a persistent petroleum plume and are likely due to other organic compounds that are detected in the TPH ranges. The chromatograms are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites.
- Based on the review of chromatograms and other qualitative assessments, TPH range organic results exceeding EALs from samples collected during the monthly events from RHMW21 are not characteristic of fuel, water-soluble components of fuel, or fuel metabolites. RHMW21 is a newly constructed well, and the detections are most likely attributed to well construction materials introduced during drilling, as evidenced by detections continuing to decline over time. Further investigation using Method 8270 to try to tentatively identify unknown peaks did not support the presence of any fuel-related or fuel degradation compounds.
- Based on the review of chromatograms and other qualitative assessments, TPH range organic results exceeding EALs from samples collected at delineation wells RHP01, RHP04B, and RHP08, and sentinel well NMW24 indicate that the low-level detections in the DRO or ORO ranges are not due to petroleum but other organic compounds that are detected which may be introduced from sample handling, preparation, and analysis. This is further supported with subsequent and previous sampling events which were not detected for DRO and ORO.

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.

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

Location	Lab[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
RHMW01R	(b) (4)	FC16545	RHMW01R-WGN01LF-2406B	6/17/2024	Primary	112	J	120	J	—[b]	<160	U	<160	U	—
RHMW01R		FC16545	RHMW01R-WGFD01LF-2406B	6/17/2024	Field Duplicate	116	J	104	J	10%	<160	U	<160	U	—
RHMW01R		FC16926	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	106	J	87.1	J	18%	<170	UJ	<170	UJ	—
RHMW01R		FC16926	RHMW01R-WGFD01LF-2407A	7/1/2024	Field Duplicate	103	J	<100	U	100%	<170	U	<170	U	—
RHMW01R		FC17231	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	172	J	118	J	31%	<160	U	<160	U	—
RHMW01R		FC17231	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	155	J	109	J	30%	<160	U	<160	U	—
RHMW01R		FC17737	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	201	J	142	J	29%	<170	U	<170	U	—
RHMW01R		FC17737	RHMW01R-WGFD01LF-2408A	8/5/2024	Field Duplicate	179	J	124	J	31%	<170	U	<170	U	—
RHMW01R		FC18287	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	179	J	157	J	12%	<170	U	<170	U	—
RHMW01R		FC18287	RHMW01R-WGFD01LF-2408B	8/22/2024	Field Duplicate	163	J	138	J	15%	<170	U	<170	U	—
RHMW01R		FC18543	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	172	J	110	J	36%	<160	U	<160	U	—
RHMW01R		FC18543	RHMW01R-WGFD01LF-2409A	9/3/2024	Field Duplicate	143	J	94.3	J	34%	<160	U	<160	U	—
RHMW01R		FC18893	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	121	J	<100	U	100%	<170	U	<170	U	—
RHMW01R		FC18893	RHMW01R-WGFD01LF-2409B	9/16/2024	Field Duplicate	128	J	<100	U	100%	<170	U	<170	U	—
RHMW02		FC16545	RHMW02-WGN01LF-2406B	6/17/2024	Primary	1670		1410		16%	118	J	91.1	J	23%
RHMW02		FC16545	RHMW02-WGFD01LF-2406B	6/17/2024	Field Duplicate	1980		1810		9%	154	J	113	J	27%
RHMW02		FC16926	RHMW02-WGN01LF-2407A	7/1/2024	Primary	961	J	897		7%	<170	U	<170	U	—
RHMW02		FC16926	RHMW02-WGFD01LF-2407A	7/1/2024	Field Duplicate	1470	J	946	J-	36%	109	J	<170	UJ	100%
RHMW02		FC17231	RHMW02-WGN01LF-2407B	7/15/2024	Primary	1570		1240		21%	166	J	133	J	20%
RHMW02		FC17231	RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	1630		1210		26%	265		128	J	52%
RHMW02		FC17737	RHMW02-WGN01LF-2408A	8/5/2024	Primary	1780		1310		26%	<170	U	<170	U	—
RHMW02		FC17737	RHMW02-WGFD01LF-2408A	8/5/2024	Field Duplicate	1720		1180		31%	<170	U	<170	U	—
RHMW02		FC18287	RHMW02-WGN01LF-2408B	8/22/2024	Primary	1530		1230		20%	97.9	J	<170	U	100%
RHMW02		FC18287	RHMW02-WGFD01LF-2408B	8/22/2024	Field Duplicate	1630		1370		16%	103	J	<170	U	100%
RHMW02		FC18543	RHMW02-WGN01LF-2409A	9/3/2024	Primary	1040		746		28%	80	J	<160	U	100%
RHMW02		FC18543	RHMW02-WGFD01LF-2409A	9/3/2024	Field Duplicate	1120		777		31%	115	J	<160	U	100%
RHMW03		FC16624	RHMW03-WGN01LF-2406B	6/19/2024	Primary	95.3	J	85.4	J	10%	<160	U	<160	U	—
RHMW03		FC17772	RHMW03-WGN01LF-2408A	8/6/2024	Primary	96	J	<100	U	100%	<170	U	<170	U	—
RHMW03		FC18177	RHMW03-WGN01LF-2408B	8/20/2024	Primary	88.8	J	83.1	J	6%	<170	U	<170	U	—
RHMW03		FC18543	RHMW03-WGN01LF-2409A	9/3/2024	Primary	89	J	<100	U	100%	<160	U	<160	U	—
RHMW06		FC18287	RHMW06-WGN01LF-2408B	8/22/2024	Primary	109	J	<100	U	100%	<170	U	<170	U	—
RHMW17		FC16725	RHMW17-WGN01LF-2406B	6/24/2024	Primary	122	J	94.5	J	23%	<160	U	<160	U	—
RHMW17		FC16725	RHMW17-WGFD01LF-2406B	6/24/2024	Field Duplicate	144	J	118	J	18%	<160	U	<160	U	—
RHMW21		FC17737	RHMW21-WGN01LF-2408A	8/5/2024	Primary	503		123	J	76%	<170	U	<170	U	—
RHMW21		FC18287	RHMW21-WGN01LF-2408B	8/22/2024	Primary	202	J	161	J	20%	<170	U	<170	U	—
RHMW21		FC18599	RHMW21-WGN01LF-2409A	9/4/2024	Primary	88.8	J	<100	U	100%	<170	U	<170	U	—
RHP08		FC17772	RHP08-WGFD01LF-2408A	8/6/2024	Field Duplicate	101	J	<100	U	100%	<170	U	<170	U	—
RHP08		FC18707	RHP08-WGN01LF-2409A	9/9/2024	Primary	135	J	96.7	J	28%	<170	U	<170	U	—
RHP08		FC18707	RHP08-WGFD01LF-2409A	9/9/2024	Field Duplicate	164	J	103	J	37%	85.6	J	<170	U	100%
NMW26		FC16725	NMW26-WGN01LF-2406B	6/24/2024	Primary	<100	U	<100	U	—	86.3	J	<170	U	100%
NMW32		FC17165	NMW32-WGN01LF-2407A	7/11/2024	Primary	86.6	J	<100	U	100%	<170	U	<170	U	—

Table 9-3: Comparison of TPH Concentrations Without and With Silica Gel Cleanup (cont'd)

Table 9-3 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 = microgram per liter (same as parts per billion)

[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.

J = estimated value

J- = estimated value, low bias

J+ = estimated value, high bias

U = nondetect value

SGC = Silica Gel Cleanup

TPH-DRO = total petroleum hydrocarbons-diesel range organics

TPH-ORO = total petroleum hydrocarbons-residual range

Typically, 60 to 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 BTEX

BTEX were not detected at any sampling location for data validated during this reporting period.

9.3.4 SVOCs

Phenol and 2-2-MEE were monitored in accordance with the Red Hill Consolidated Groundwater Sampling Program (DOH 2024b). Phenol and 2-2-MEE were not detected in any monitoring well.

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.

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; however, unlike the previous reporting period, 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 benzo(a)anthracene benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene, were detected and indeno(1,2,3-cd)pyrene exceeded the EAL in one sample collected at RHMW04. Total petroleum hydrocarbons were not detected in these samples, and PAHs were not detected in other samples from the outlying wells, which suggests that these PAHs did not represent the groundwater. It has been reported by the lab that the detects are due to a suspected laboratory contaminant. These pyrogenic PAHs were not detected in prior or subsequent sampling events for RHMW04. Other pyrogenic PAHs were not detected in groundwater sampled from wells validated during this reporting period.

9.3.6 Natural Attenuation Parameters

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 beneficially consumed by microorganisms first 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 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 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 at three tank farm wells (RHMW01R, RHMW02, and RHP04B), all of which have exhibited the presence of dissolved TPH range organics. In addition, newly installed RHMW21, also located within the tank farm and in proximity to the May 2021 Release and RHMW11-05, located spatially between the tank farm release locations and Red Hill Shaft and with historical detections of TPH, exhibited negative ORP readings. The reading at RHMW11-05 potentially indicates groundwater flow from the tank release locations toward Red Hill Shaft.

9.3.6.2 TEMPERATURE

Temperature is known to influence metabolic rates for microorganisms, with temperatures between 5ºC 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 22.3°C to 20.8°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, and RHP04B). Non-detect nitrate concentrations were also evident at on-site well RHMW11-05 located (b) (3) (A) , recently installed tank farm well RHMW21, and recently installed off-site well NMW26. Additional monitoring is required to confirm geochemical conditions at recently installed off-site well NMW26.

Remaining wells had nitrate concentrations similar to or greater than historical background nitrate levels for the site, with the highest concentrations being detected at off-site 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 tank farm well RHMW21 (non-detect) and newly installed delineation well RHP08C, where it was detected at a concentration of 3.3 J 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 in the presence of low DO but positive ORP and in a single event at RHMW11-05. Concentrations ranged from 0.16 J mg/L (RHMW11-05) to 1.6 mg/L (RHMW02). 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 4.1 and 5.7 mg/L, respectively (both wells consistently exhibit elevated dissolved hydrocarbons). The highest detected concentrations were 120 mg/L at off-site well NMW25 and 160 mg/L at on-site well RHMW19. 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 samples from RHMW01R, RHMW02, RHMW21, RHP04B, HDMW2253-03, NMW30, and NMW32 at concentrations greater than 1 µg/L.

Methane concentrations at RHMW02 were significantly elevated over the other wells, with detected concentrations ranging from 1,860 to 2,940 µg/L. Elevated methane concentrations at the referenced wells, especially RHMW02 suggest that methanogenic biodegradation is occurring in proximity to 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 are measured at recently installed off-site wells NMW25, NMW32, and NMW33 and at source area well RHMW03. Elevated alkalinity at RHMW03 may be attributable to the presence of carbon dioxide produced by biodegradation processes occurring at these locations, which is underscored by historical detections of TPH. Elevated alkalinity at the other 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).

Additionally, Table 9-3 illustrates weathering of non-polar petroleum fractions to weathered polar fractions, again supporting natural attenuation processes.

While variability exists in the comprehensive data sets, sufficient evidence is realized to conclude that natural attenuation via biodegradation and other natural attenuation processes is occurring in proximity to documented release points and will continue to occur given the geochemical conditions evident in the aquifer.

Additional evaluation of natural source-zone depletion and natural attenuation at the Facility is discussed in the AOC Statement of Work Sections 6 and 7 CSM report (DON 2019a) and the Investigation and Remediation of Releases Report (DON 2020c).

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 20, 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 525 ppmv collected on December 20, 2021, to the recent maximum of 42 ppmv detected on August 15, 2024.

10.2 Groundwater Impacts

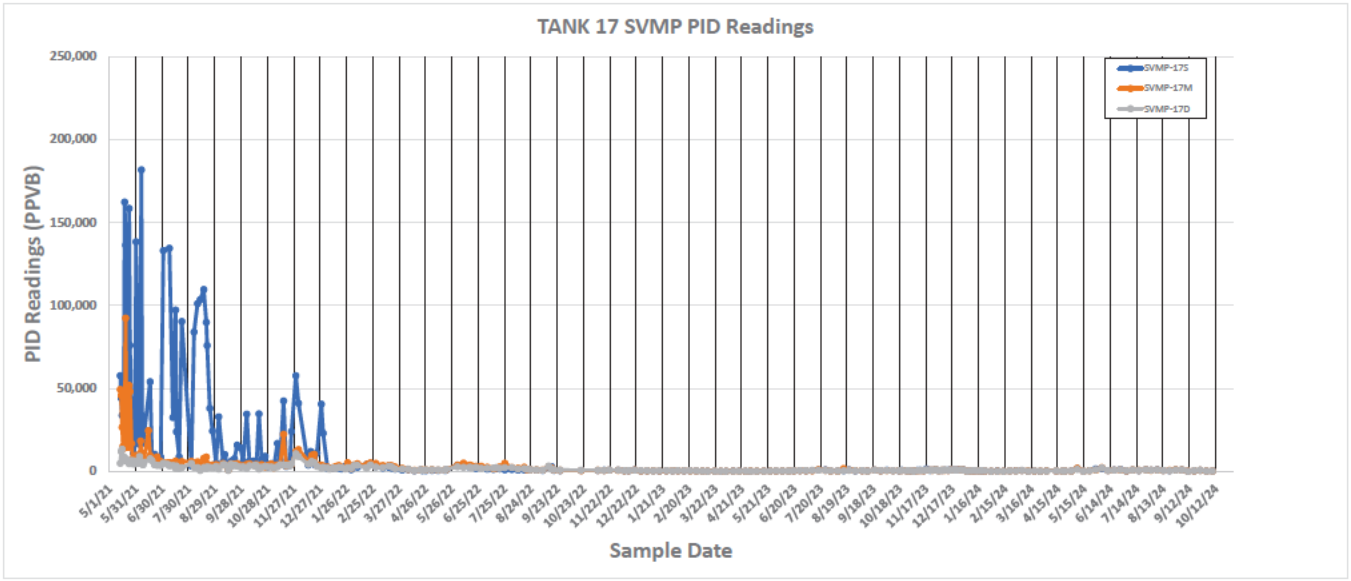
Summary statistics include all groundwater samples completing validation during this reporting period regardless of sample collection date.

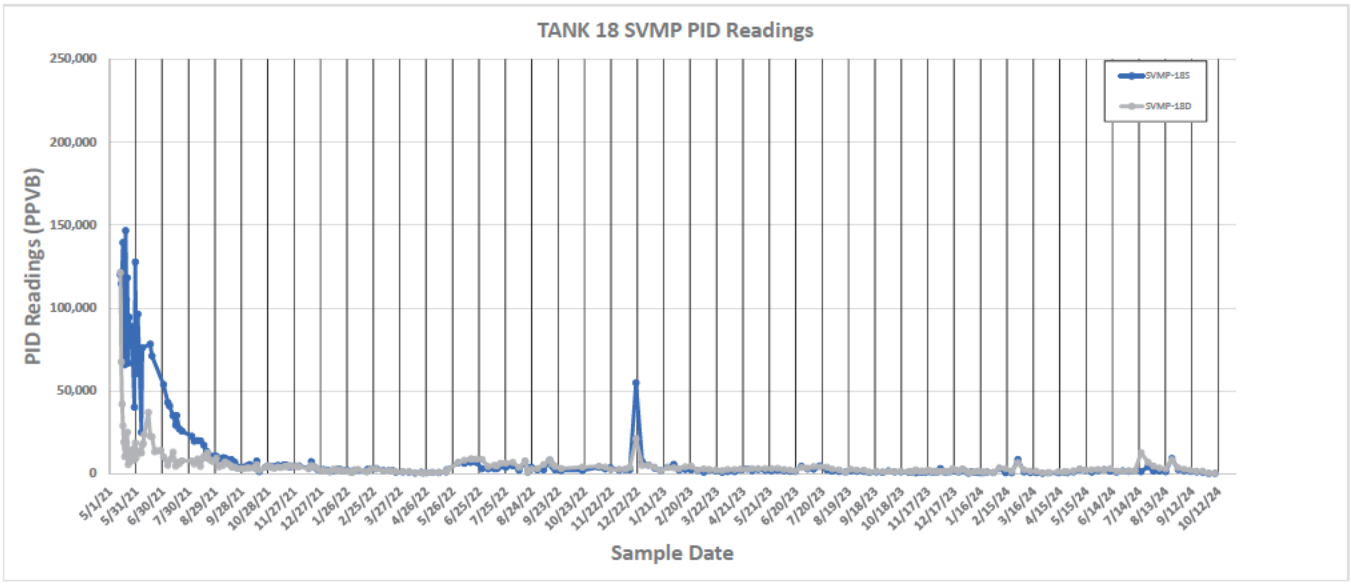
Table 9-2 presents summary statistics for all groundwater sampling results presented in Section 9.3. Table 10-1 presents the summary of groundwater concentrations detected above the DOH EALs as distilled from the summary statistics.

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:

- BTEX, 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.
- PAHs (except for COPCs naphthalene and 2MN in samples from RHMW02; and benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, and indeno(1,2,3-cd)pyrene in one sample from RHMW04).
- DRO and ORO were detected most often at in-tunnel sampling locations and appear to be stable. Sporadic, unconnected, and inconsistent detections for samples collected at the offsite wells suggest that there is no evidence of an expanding plume.
- For samples collected at groundwater monitoring wells other than in-tunnel wells RHMW02 and RHMW01R, chromatographic profiles for DRO and ORO during this reporting period are distinctly different from what is expected from fuels, dissolved fuel components, or metabolites.





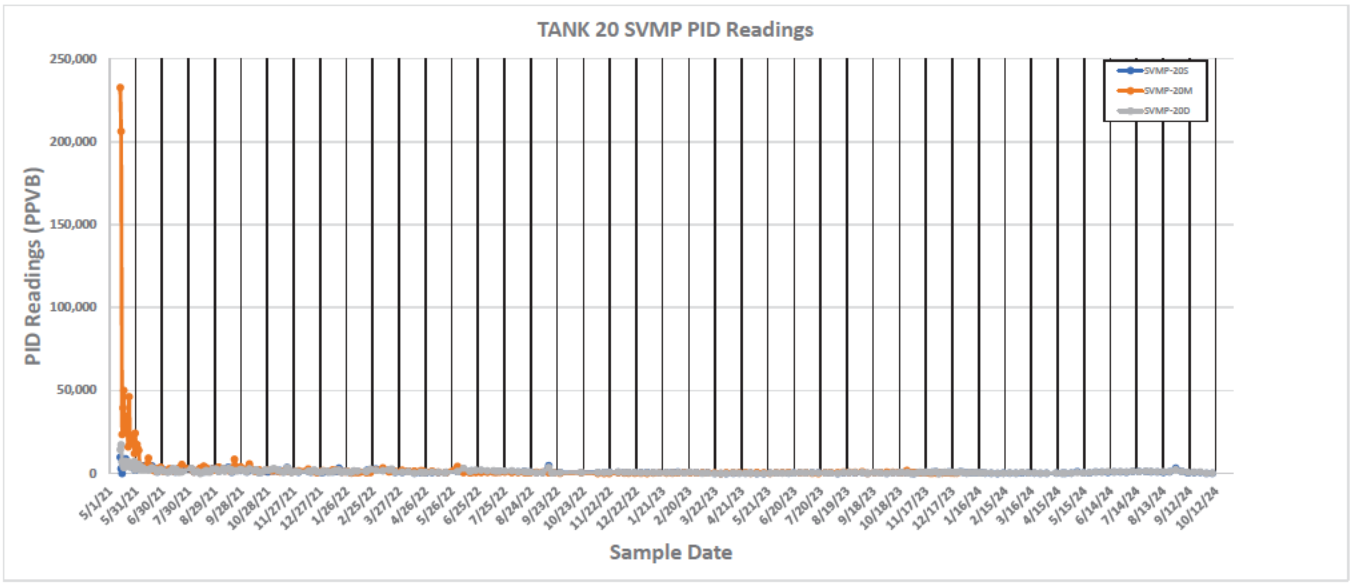


Figure 13: SVM PID Readings for Tanks 17, 18, and 20

Table 10–1: Summary of Groundwater Screening Level Exceedances

Analyte						Total Petroleum Hydrocarbons (TPH) Calculation	Indeno(1,2,3-cd)pyrene	
CAS No.						—	193-39-5	
Method						Calculated	8270SIM	
2024 DOH Tier 1 EAL						193	0.018	
Units						µg/L	µg/L	
Location	Sampling Method	Laboratory	Sample ID	Sampling Date	Type	Result	Result	
NMW24	Low-Flow	[redacted]	NMW24-WGN01LF-2407B	7/26/2024	Primary	426	—	
RHMW01R	Low-Flow		RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	337	—	
RHMW01R	Low-Flow		RHMW01R-WGN01LF-2407B	7/15/2024	Primary	228	—	
RHMW01R	Low-Flow		RHMW01R-WGN01LF-2407B	7/15/2024	Primary	222	—	
RHMW01R	Low-Flow		RHMW01R-WGN01LF-2408A	8/5/2024	Primary	201	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2406B	6/17/2024	Field Duplicate	2133	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2406B	6/17/2024	Primary	1786	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2407A	7/1/2024	Field Duplicate	1632	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2407A	7/1/2024	Primary	960	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	4735	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	1894	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2407B	7/15/2024	Primary	2977	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2407B	7/15/2024	Primary	1735	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2408A	8/5/2024	Field Duplicate	1718	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2408A	8/5/2024	Primary	1779	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2408B	8/22/2024	Field Duplicate	1732	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2408B	8/22/2024	Primary	1627	—	
RHMW02	Low-Flow		RHMW02-WGFD01LF-2409A	9/3/2024	Field Duplicate	1234	—	
RHMW02	Low-Flow		RHMW02-WGN01LF-2409A	9/3/2024	Primary	1120	—	
RHMW03	Low-Flow		RHMW03-WGN01LF-2407B	7/16/2024	Primary	1596	—	
RHMW04	Low-Flow		RHMW04-WGN01LF-2407A	7/9/2024	Primary	—	0.036	J
RHMW08	Low-Flow		RHMW08-WGN01LF-2407B	7/15/2024	Primary	368	—	
RHMW17	Low-Flow		RHMW17-WGFD01LF-2407B	7/22/2024	Field Duplicate	392	—	
RHMW18	Low-Flow		RHMW18-WGN01LF-2407B	7/25/2024	Primary	322	—	
RHMW21	Low-Flow		RHMW21-WGN01LF-2407B	7/22/2024	Primary	494	—	
RHMW21	Low-Flow		RHMW21-WGN01LF-2408A	8/5/2024	Primary	503	—	
RHMW21	Low-Flow		RHMW21-WGN01LF-2408B	8/22/2024	Primary	202	—	
RHP01	Low-Flow		RHP01-WGN01LF-2407B	7/18/2024	Primary	270	—	
RHP04B	Low-Flow		RHP04B-WGN01LF-2407B	7/23/2024	Primary	235	—	
RHP08	Low-Flow		RHP08-WGFD01LF-2409A	9/9/2024	Field Duplicate	250	—	
RHSF-PUMP	Spigot		RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	329	—	

Acronyms and Footnotes:

CAS – Chemical Abstracts Service

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

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

% – percent

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

Green text indicates results have completed third-party validation.

The TPH range organics (defined as the sum of GRO, DRO, and ORO) new action level of 193 µg/L for degraded middle distillates was exceeded at all samples from in-tunnel well RHMW02, less frequently in RHMW01R and inconsistently in other in-tunnel and outlying well samples in this reporting period.

Samples with TPH range organics exceeding the action level were analyzed for non-target TICs using EPA Method 8270. Other than for one set of samples from RHMW02, all other samples had few to no TICs reported. The few reported TICs that were also not detected in laboratory and/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, unconnected, and inconsistent, suggesting that there is no evidence of an expanding and continuous petroleum groundwater plume. 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 are detected in the DRO and ORO ranges that may be introduced during sample handling, preparation, and analysis or in well construction operations.

Persistent detections of DRO, and to a 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 hydraulically downgradient from RHMW02, for groundwater sampled at RHMW01R.

TPH range organics (GRO+DRO+ORO) results exceeding the 100 percent degraded EAL for middle distillates, 193 µg/L, for samples that were validated during the current reporting period include all samples from RHMW02; less frequently at in-tunnel well RHMW01R; and infrequently at in-tunnel wells RHMW03, RHMW21, and RHSF Pump and outlying wells RHMW04, RHMW08, RHMW17, and RHMW18. Furthermore, the detections with exceedances at RHMW03 and RHSF Pump were only reported in the samples analyzed by (b) (4) but split samples analyzed by (b) (4) had no detections of TPH-range organics. Only samples from RHMW02 have evidence of fuel soluble components (naphthalenes) and fuel metabolites.

Only one set of samples from RHMW02 had a few carboxylic acid TICs that could be fuel biodegradation products; however, the laboratory has reported that some of the carboxylic acids are known to be coming from wash bin and/or skin contact.

During well construction for RHMW21, LNAPL was observed subsurface during drilling. Although fuel-related TPH was reported in samples collected during well construction, subsequent groundwater monitoring samples, which include further investigation using Method 8270 to try to tentatively identify unknown peaks, did not support the presence of any fuel-related or fuel degradation compounds. RHMW21 is a newly constructed well, and the detections in the groundwater monitoring samples are most likely attributed to well construction materials introduced during drilling as evidenced by detections continuing to decline over time.

PAH COPCs (naphthalene and 1MN) were consistently detected only for the samples collected at in-tunnel well RHMW02 (as expected from historical data for this well) but none exceeded screening levels. A pyrogenic PAH (indeno(1,2,3-cd)pyrene) exceeded the EAL, and benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, and chrysene were detected in one sample collected at RHMW04. DRO and ORO were not detected in this sample, and PAHs were not detected in other samples from the in-tunnel or outlying wells. It has been reported by the lab that the detects are due to cross contamination. These pyrogenic PAHs were not detected in prior or subsequent sampling events for

RHMW04. There were no PAHs detected in any other groundwater sampled from wells validated during this reporting period.

In summary, samples from in-tunnel wells RHMW01R and RHMW02 are stable, with consistent detections of TPH, naphthalene, and 1MN in RHMW02, and with less frequency at RHMW01R. The chromatograms are consistent with dissolved fuel compounds in RHMW02 and fuel metabolites in both wells. Concentrations in samples collected at the outlying wells are also stable, with infrequent low-level detections of TPH, and are inconsistent with fuel sources.

10.2.2 Delineation Wells

DRO and/or ORO were detected in only one sample from RHP01, RHP02, RHP04B, and RHP08 with TPH range organic screening level exceedances for RHP01, RHP04B, and RHP08. The samples from RHP01, RHP02, and RHP04B were analyzed by (b) (4) but these detections were not confirmed in split samples from each of the wells also analyzed by (b) (4). Result discrepancies between both labs may be due to different extraction methods.

The chromatograms from analysis of all four samples indicate that the low-level detections are not due to petroleum but other organic compounds that are detected in the DRO and ORO range which may be introduced from sample handling, preparation, and analysis. Furthermore, there were no TICs reported for these samples in the TPH range. 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 and ORO were detected exceeding the TPH organic range screening level in one sample from NMW24 analyzed by (b) (4). The corresponding split sample analyzed by (b) (4) did not confirm the presence of any TPH. Result discrepancies between both labs may be due to different extraction methods.

ORO was detected only in one sample from NMW26 and NMW32. The chromatograms indicate that the low-level detections are not due to petroleum but other organic compounds that are detected and may be introduced from sample handling, preparation, and analysis or in 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. Shallow phase of remedial pilot study has established the zone of effectiveness, and the system has demonstrated, when active, that there is an increased flow of air.

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 RHMW01R and RHMW02. No LNAPL was observed during the reporting period in any groundwater monitoring wells regardless of the detection method used, and groundwater monitoring well headspace concentrations were generally low. Samples 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 at the outlying wells have infrequent low-level detections of TPH-range organics that are inconsistent 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. Furthermore, there were no TICs reported for these samples in the TPH organic range. These results are not representative of the groundwater at these locations and are likely due to random sample or analysis artifacts or cross-contamination. 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 wells RHMW02 and, to a much lesser extent, RHMW01R. Sample concentrations of all formerly elevated COPCs near Red Hill Shaft have decreased considerably since operation of skimmers, sorbents, and the Red Hill Shaft GAC treatment system, with most results below the detection limit.

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 except for samples from RHMW02 and RHMW01R (consistent with historical results for these two wells). 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) (4) including installation of additional DSVMPs and SVE points for the remedial pilot study
- Initial site characterization activities at the CHT Tank 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
- Effectiveness of the Red Hill Shaft GAC pump and treat system in containing impacted groundwater and preventing additional migration of contaminants
- Potential future migration of contaminants and potential impacts to off-site 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 2023e)
- *Closure Report, Concrete Tank Removal* (DON 2023c)

The comprehensive data set for the (b) (4) 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 – Soil Vapor PID Concentrations
Appendix A.2 – Soil Vapor Chromatograms

Appendix A.1 – Soil Vapor PID Concentrations

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

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

| | SVMP | | |

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

Appendix A.1: Background Tunnel Air Soil Vapor PID Concentration Readings (ppbv)

Date	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6	Tank 7	Tank 8	Tank 9	Tank 10	Tank 11	Tank 12	Tank 13	Tank 14	Tank 15	Tank 16	Tank 17	Tank 18	Tank 20
10/8/2024	569	398	164	191	182	157	177	151	155	269	228	284	251	110	239	176	288	221
10/1/2024	432	87	121	106	226	98	101	121	53	58	67	84	60	157	104	124	86	177
9/24/2024	283	744	449	777	418	691	579	550	420	704	924	594	541	537	444	752	527	605
9/17/2024	647	156	419	330	3597	271	332	210	149	271	128	294	266	376	198	455	348	681
9/10/2024	14	3	2	10	28	0	0	50	48	31	27	29	38	42	101	236	267	594
9/3/2024	271	1277	591	951	2333	524	720	557	401	977	633	1938	1109	1488	1434	1153	2143	1174
8/27/2024	1609	351	381	476	1937	618	559	865	947	649	649	1236	1241	748	908	1038	1033	2928
8/20/2024	607	315	475	302	501	1261	1179	1304	740	798	792	652	651	644	508	459	1998	1333
8/13/2024	992	810	1021	453	526	1160	1252	423	412	256	369	867	746	634	580	648	834	520
8/6/2024	2358	1029	882	1221	5254	1508	1465	367	163	148	38	381	324	559	262	951	1109	773
7/30/2024	203	181	548	377	537	532	606	744	578	433	510	504	668	848	1616	944	976	1065
7/24/2024	2126	1033	474	1000	731	1530	1811	711	974	621	574	493	418	592	525	1222	3555	1130
7/16/2024	1958	1247	1169	1402	1512	841	884	958	609	480	692	752	799	746	810	617	703	616

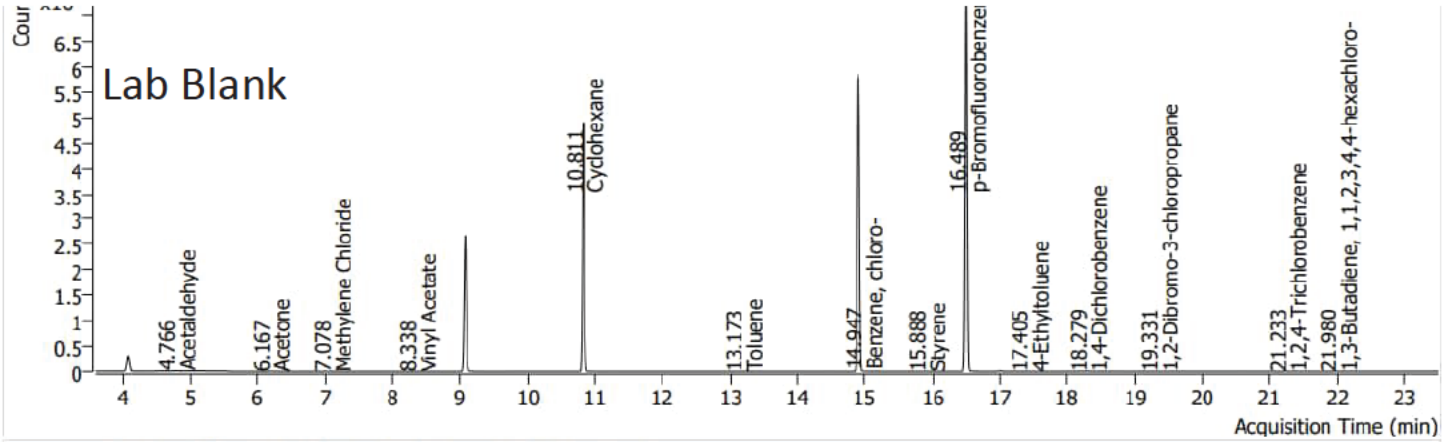
Notes:
Tank readings are background ambient air conditions and are reported in parts per billion by volume (ppbv).

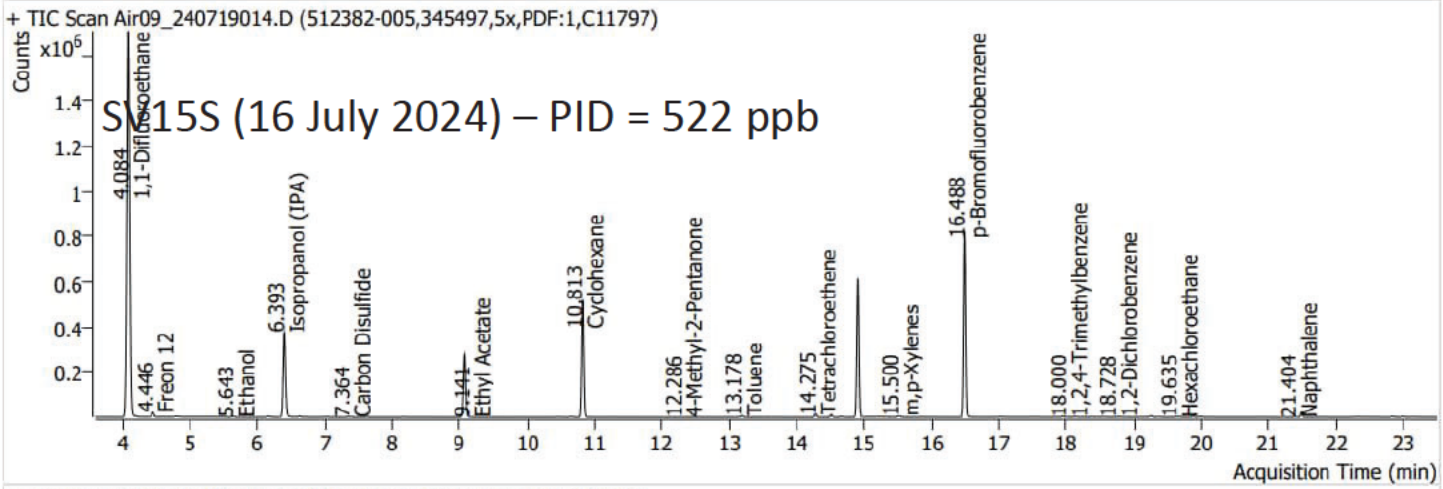
Legend:
ppbv - parts per billion by volume

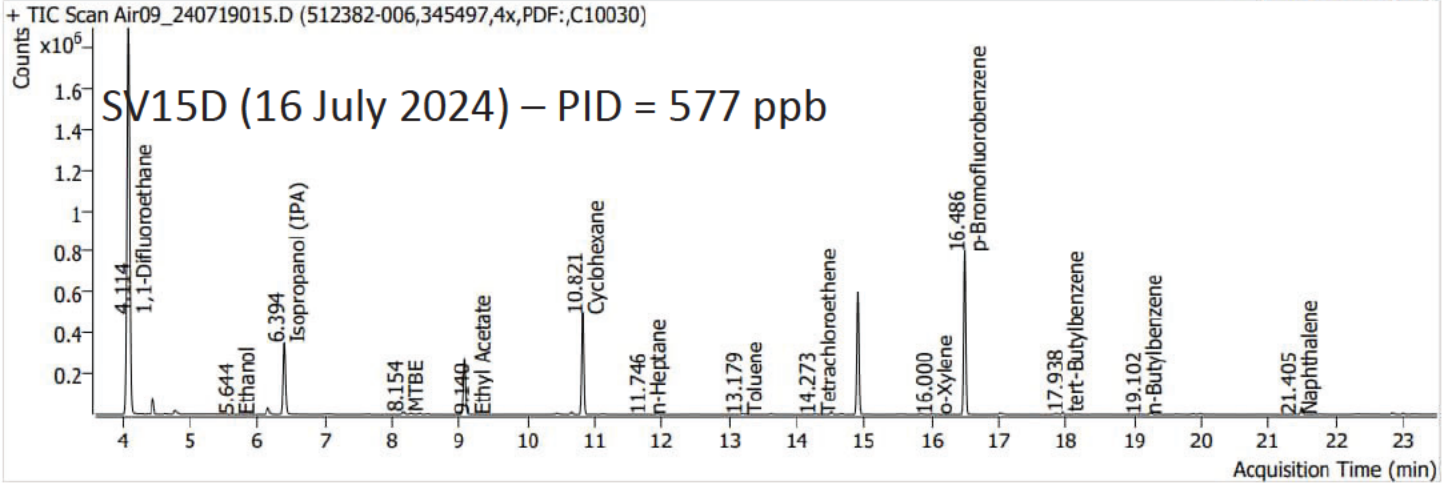
Appendix A.2 – Soil Vapor Chromatograms

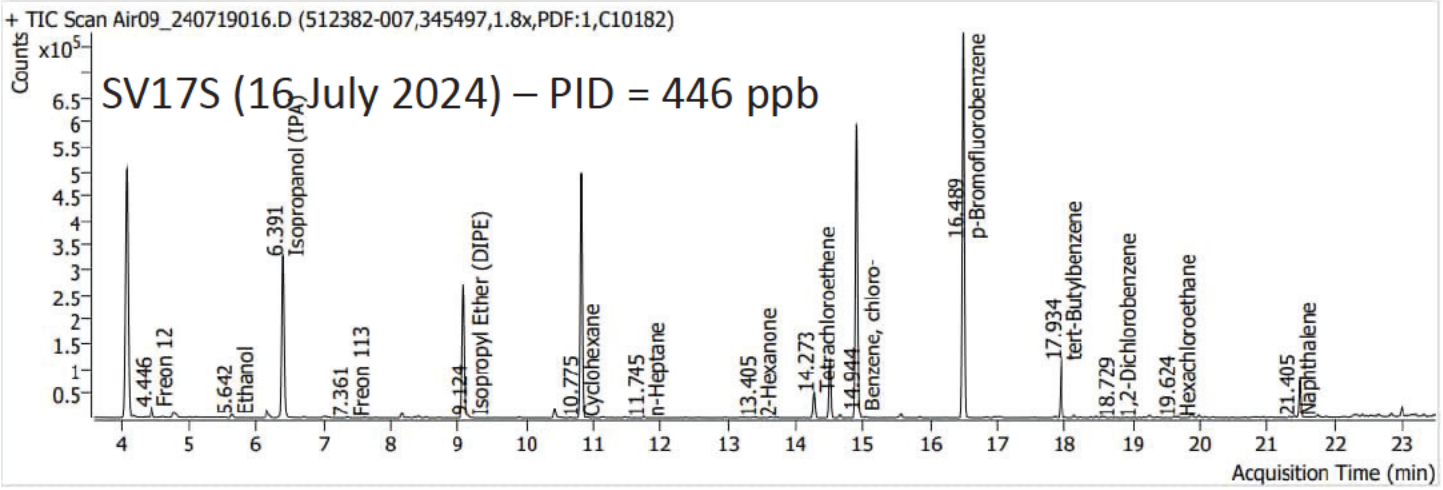
July 2024
Soil Vapor Samples

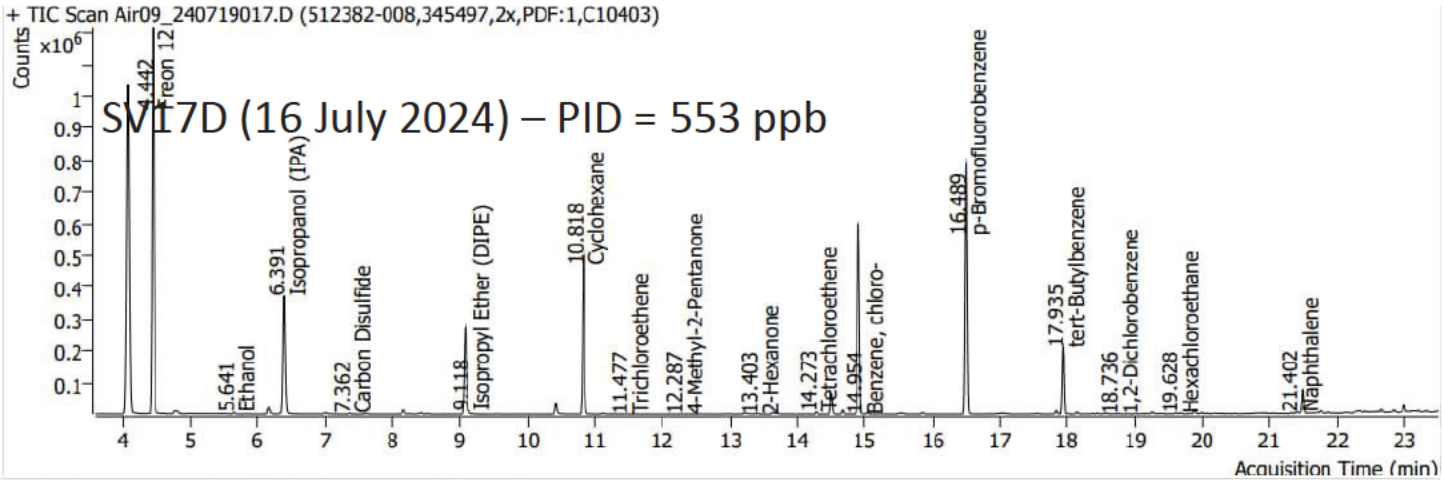
Mass Spec Chromatograms

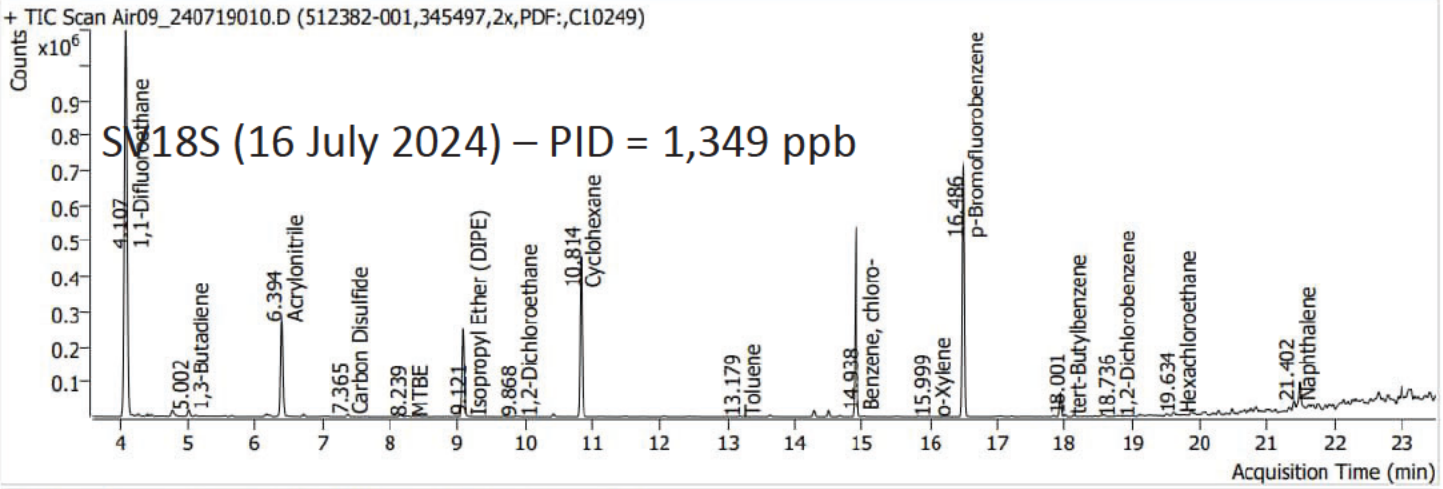

Lab Blank
4.766 Acetaldehyde
6.167 Acetone
7.078 Methylene Chloride
8.338 Vinyl Acetate
10.811 Cyclohexane
13.173 Toluene
14.947 Benzene, chloro-
15.888 Styrene
16.489 p-Bromofluorobenzene
17.405 4-Ethyltoluene
18.279 1,4-Dichlorobenzene
19.331 1,2-Dibromo-3-chloropropane
21.233 1,2,4-Trichlorobenzene
21.980 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

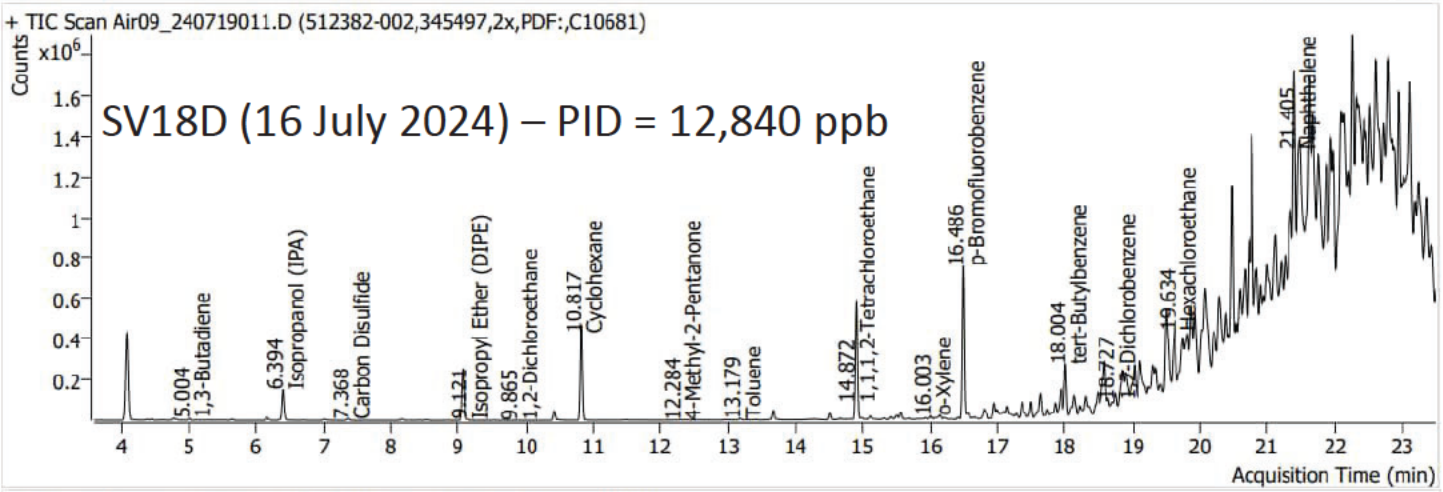

+ TIC Scan Air09_240719014.D (512382-005,345497,5x,PDF:1,C11797)
Counts
x10^6
SV15S (16 July 2024) – PID = 522 ppb
4.084 1,1-Difluoroethane
4.446 Freon 12
5.643 Ethanol
6.393 Isopropanol (IPA)
7.364 Carbon Disulfide
9.141 Ethyl Acetate
10.813 Cyclohexane
12.286 4-Methyl-2-Pentanone
13.178 Toluene
14.275 Tetrachloroethene
15.500 m,p-Xylenes
16.488 p-Bromofluorobenzene
18.000 1,2,4-Trimethylbenzene
18.728 1,2-Dichlorobenzene
19.635 Hexachloroethane
21.404 Naphthalene
Acquisition Time (min)

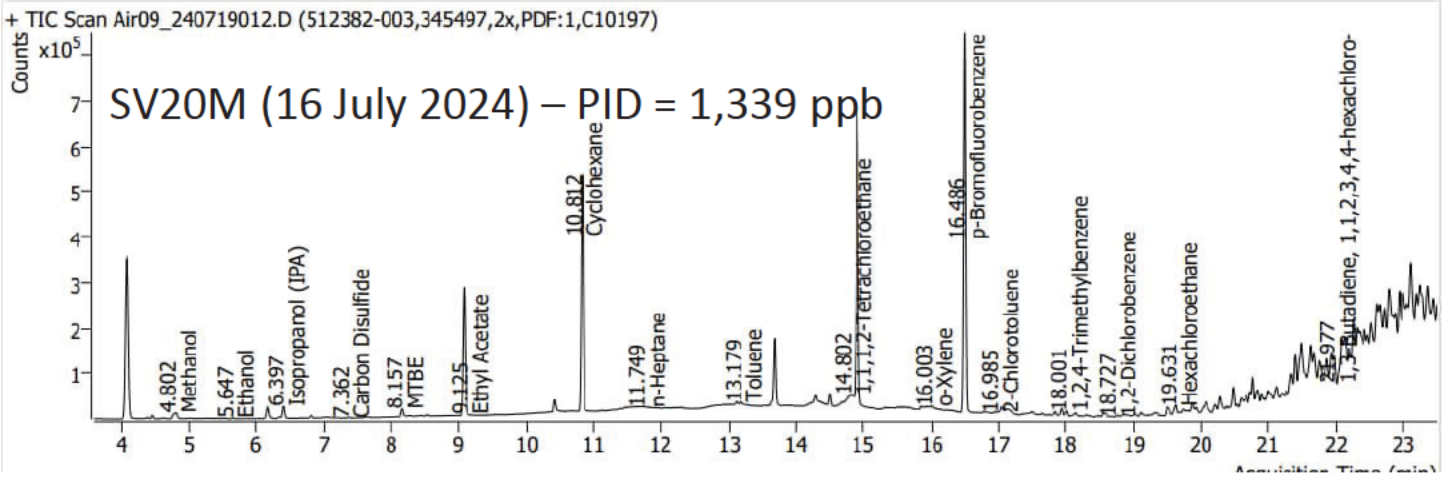

+ TIC Scan Air09_240719015.D (512382-006,345497,4x,PDF:,C10030)
Counts
x10^6
SV15D (16 July 2024) – PID = 577 ppb
4.114 1,1-Difluoroethane
5.644 Ethanol
6.394 Isopropanol (IPA)
8.154 MTBE
9.140 Ethyl Acetate
10.821 Cyclohexane
11.746 n-Heptane
13.179 Toluene
14.273 Tetrachloroethene
16.000 o-Xylene
16.486 p-Bromofluorobenzene
17.938 tert-Butylbenzene
19.102 n-Butylbenzene
21.405 Naphthalene
Acquisition Time (min)

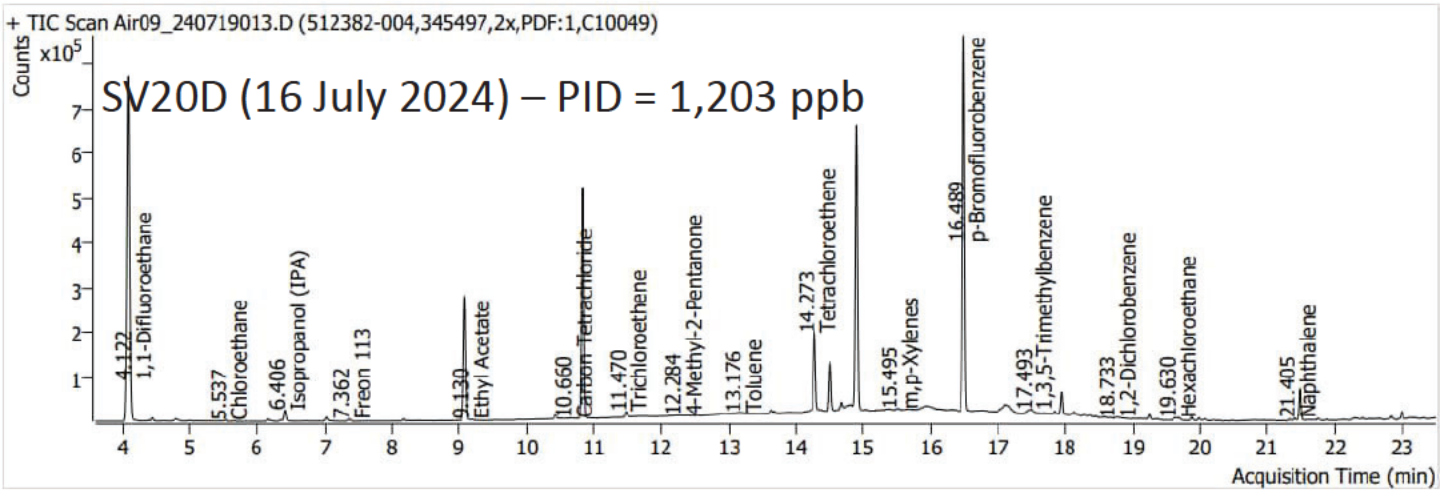

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Counts
x10^5
SV17S (16 July 2024) – PID = 446 ppb
4.446 Freon 12
5.642 Ethanol
6.391 Isopropanol (IPA)
7.361 Freon 113
9.124 Isopropyl Ether (DIPE)
10.775 Cyclohexane
11.745 n-Heptane
13.405 2-Hexanone
14.273 Tetrachloroethene
14.944 Benzene, chloro-
16.489 p-Bromofluorobenzene
17.934 tert-Butylbenzene
18.729 1,2-Dichlorobenzene
19.624 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_240719017.D (512382-008,345497,2x,PDF:1,C10403)
SV17D (16 July 2024) – PID = 553 ppb
Counts
x10^6
4.442 Freon 12
5.641 Ethanol
6.391 Isopropanol (IPA)
7.362 Carbon Disulfide
9.118 Isopropyl Ether (DIPE)
10.818 Cyclohexane
11.477 Trichloroethene
12.287 4-Methyl-2-Pentanone
13.403 2-Hexanone
14.273 Tetrachloroethene
14.954 Benzene, chloro-
16.489 p-Bromofluorobenzene
17.935 tert-Butylbenzene
18.736 1,2-Dichlorobenzene
19.628 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)


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SV18S (16 July 2024) – PID = 1,349 ppb
Counts
x10^6
4.107 1,1-Difluoroethane
5.002 1,3-Butadiene
6.394 Acrylonitrile
7.365 Carbon Disulfide
8.239 MTBE
9.121 Isopropyl Ether (DIPE)
9.868 1,2-Dichloroethane
10.814 Cyclohexane
13.179 Toluene
14.938 Benzene, chloro-
15.999 o-Xylene
16.486 p-Bromofluorobenzene
18.001 tert-Butylbenzene
18.736 1,2-Dichlorobenzene
19.634 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)

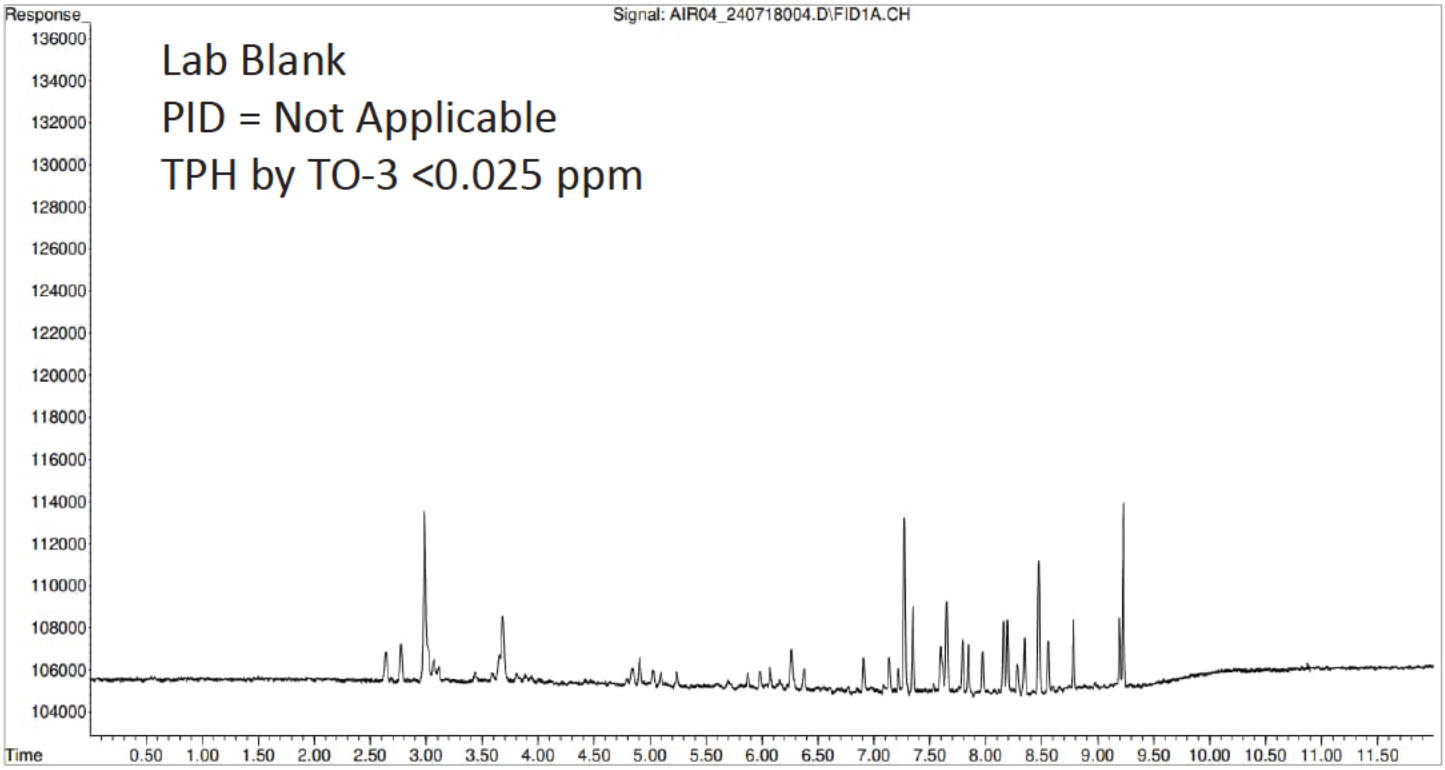

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SV18D (16 July 2024) – PID = 12,840 ppb
Counts
x10^6
5.004 1,3-Butadiene
6.394 Isopropanol (IPA)
7.368 Carbon Disulfide
9.121 Isopropyl Ether (DIPE)
9.865 1,2-Dichloroethane
10.817 Cyclohexane
12.284 4-Methyl-2-Pentanone
13.179 Toluene
14.872 1,1,1,2-Tetrachloroethane
16.003 o-Xylene
16.486 p-Bromofluorobenzene
18.004 tert-Butylbenzene
18.727 1,2-Dichlorobenzene
19.634 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)

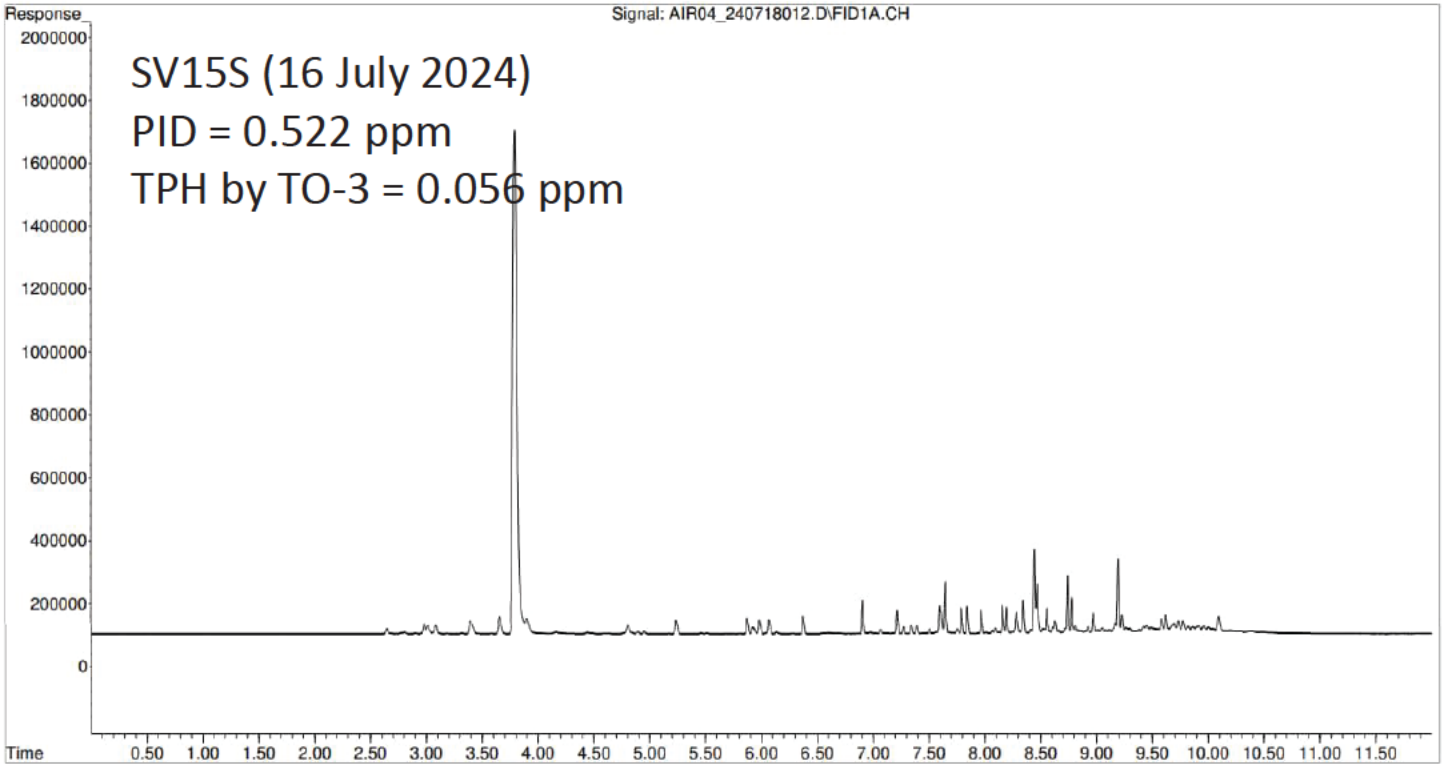

+ TIC Scan Air09_240719012.D (512382-003,345497,2x,PDF:1,C10197)
SV20M (16 July 2024) – PID = 1,339 ppb
Counts
x10^5
4.802 Methanol
5.647 Ethanol
6.397 Isopropanol (IPA)
7.362 Carbon Disulfide
8.157 MTBE
9.125 Ethyl Acetate
10.812 Cyclohexane
11.749 n-Heptane
13.179 Toluene
14.802 1,1,1,2-Tetrachloroethane
16.003 o-Xylene
16.486 p-Bromofluorobenzene
16.985 2-Chlorotoluene
18.001 1,2,4-Trimethylbenzene
18.727 1,2-Dichlorobenzene
19.631 Hexachloroethane
21.977 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-

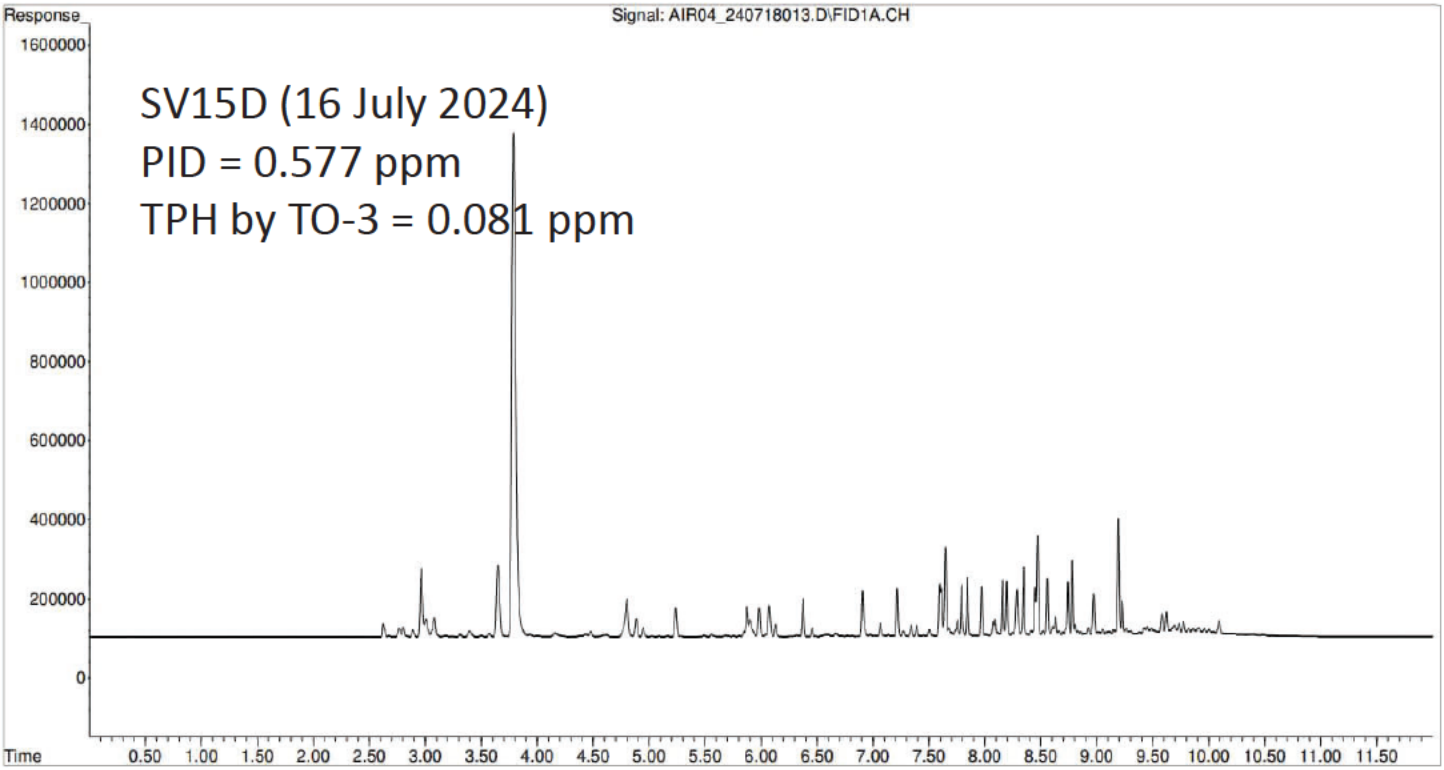

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Counts
x10^5
SV20D (16 July 2024) – PID = 1,203 ppb
4.122 1,1-Difluoroethane
5.537 Chloroethane
6.406 Isopropanol (IPA)
7.362 Freon 113
9.130 Ethyl Acetate
10.660 Carbon Tetrachloride
11.470 Trichloroethene
12.284 4-Methyl-2-Pentanone
13.176 Toluene
14.273 Tetrachloroethene
15.495 m,p-Xylenes
16.489 p-Bromofluorobenzene
17.493 1,3,5-Trimethylbenzene
18.733 1,2-Dichlorobenzene
19.630 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)

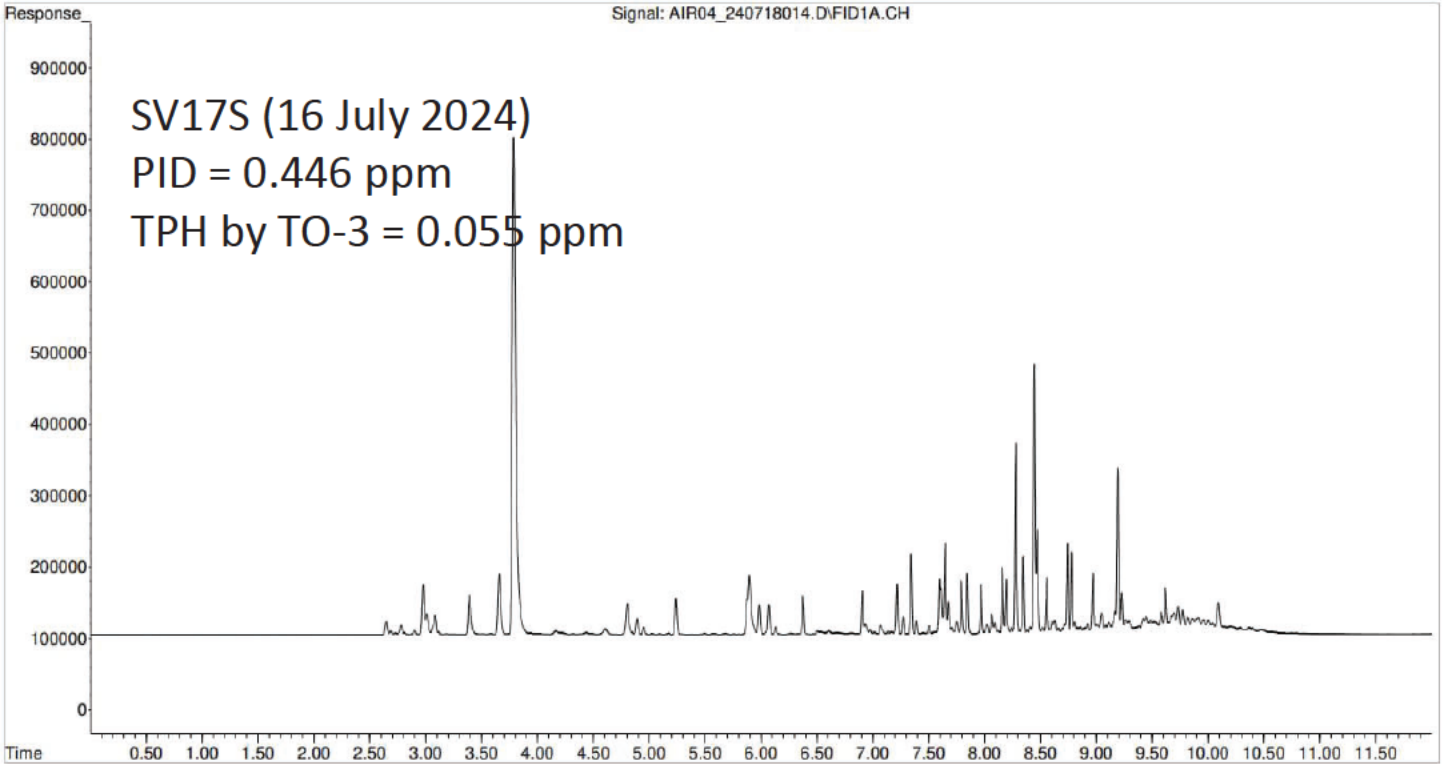
July 2024
Soil Vapor Samples

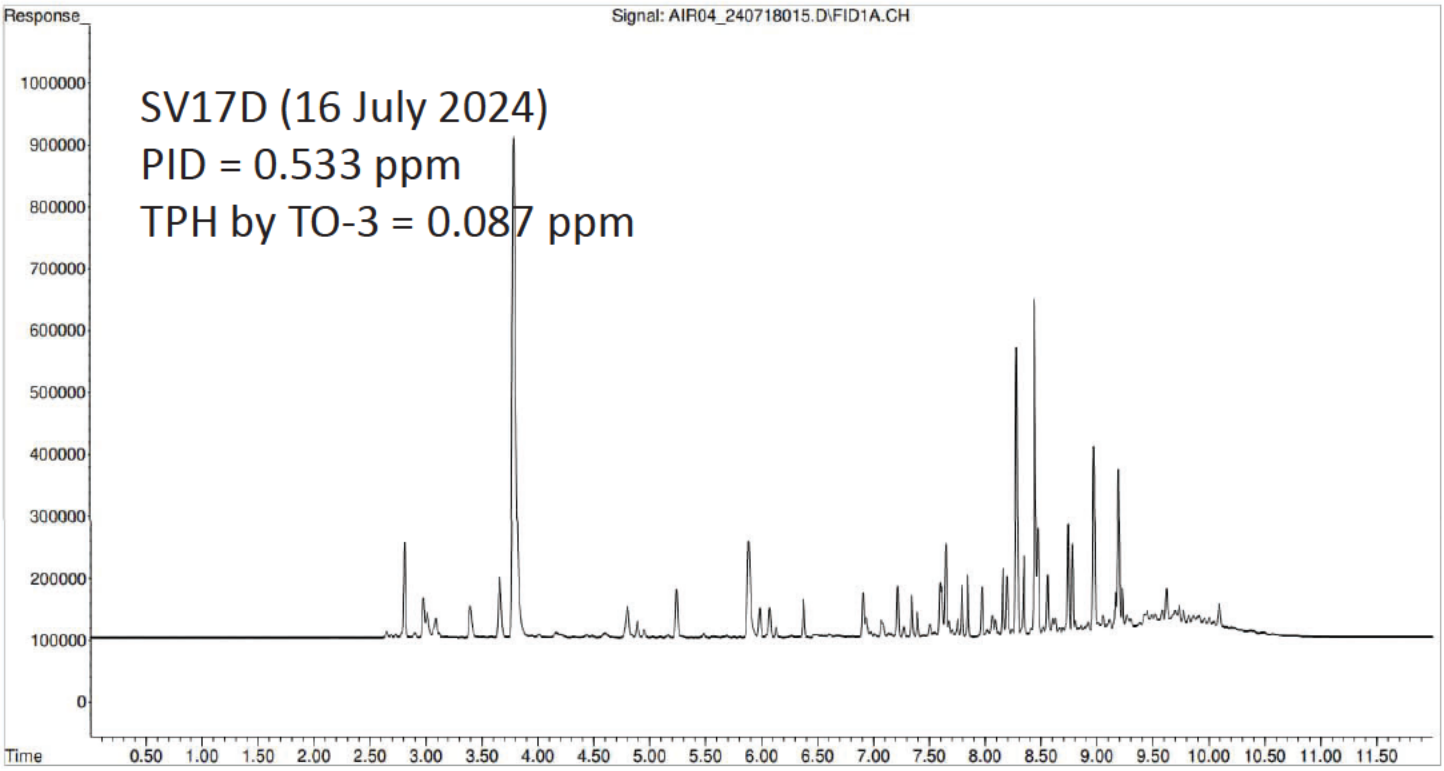
FID Chromatograms

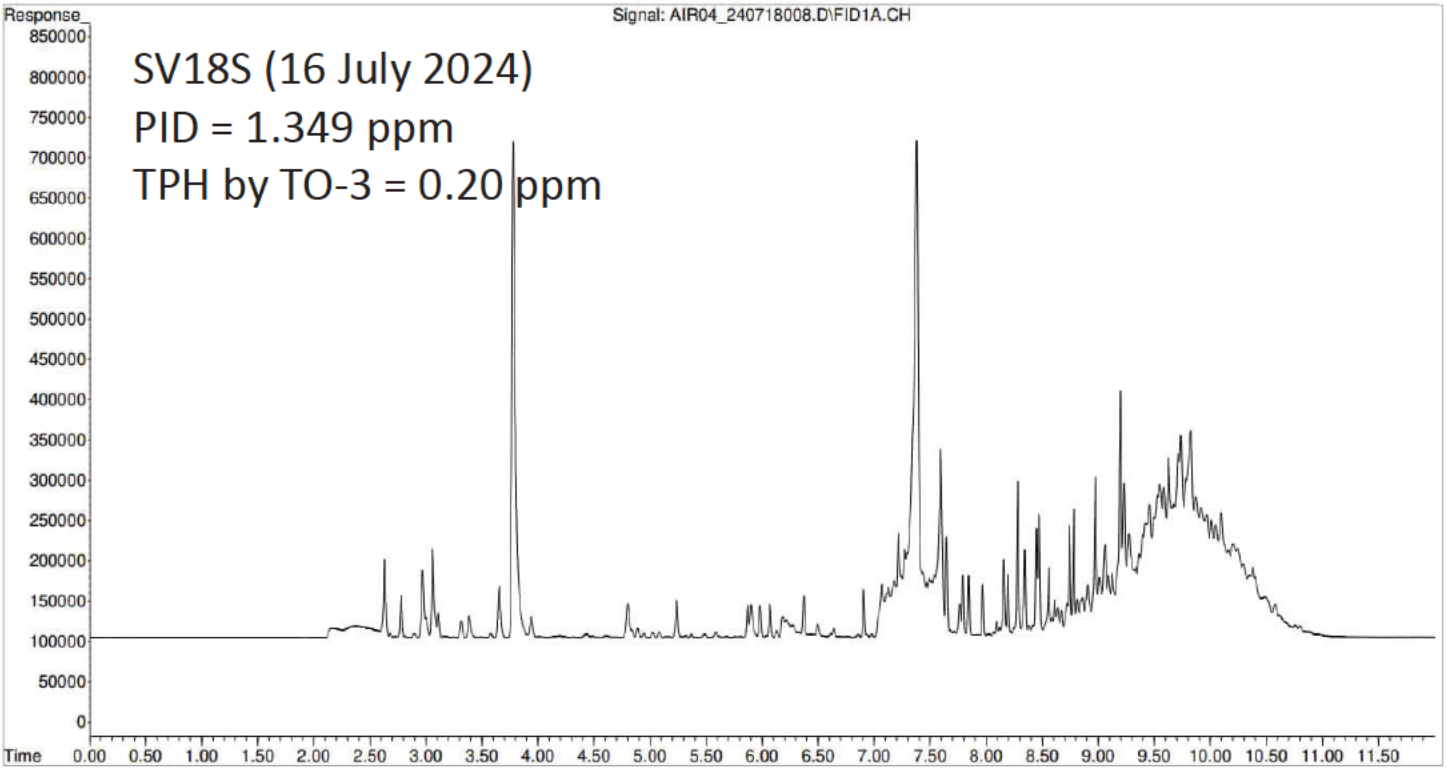

Response
Signal: AIR04_240718004.D\FID1A.CH
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
136000
134000
132000
130000
128000
126000
124000
122000
120000
118000
116000
114000
112000
110000
108000
106000
104000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

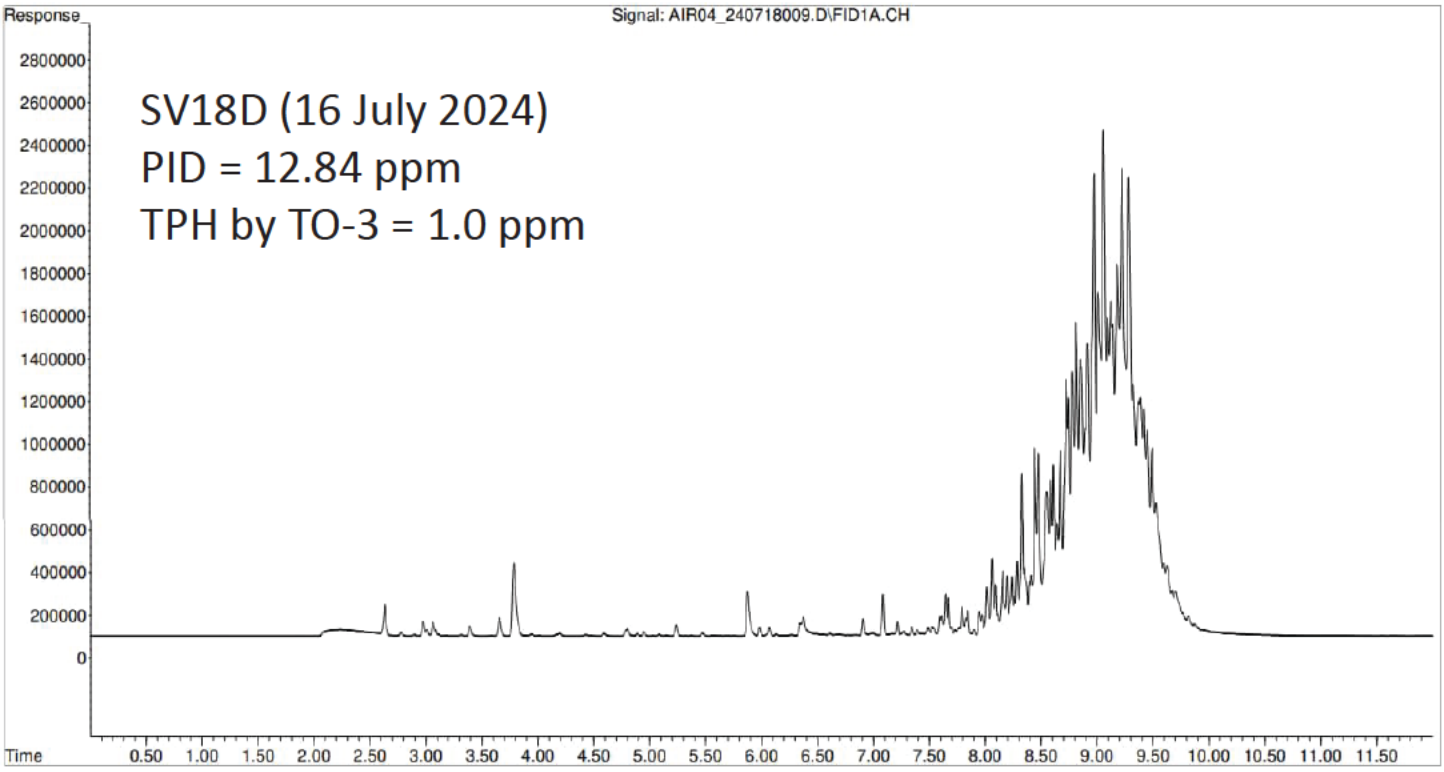

Response
Signal: AIR04_240718012.D\FID1A.CH
SV15S (16 July 2024)
PID = 0.522 ppm
TPH by TO-3 = 0.056 ppm
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

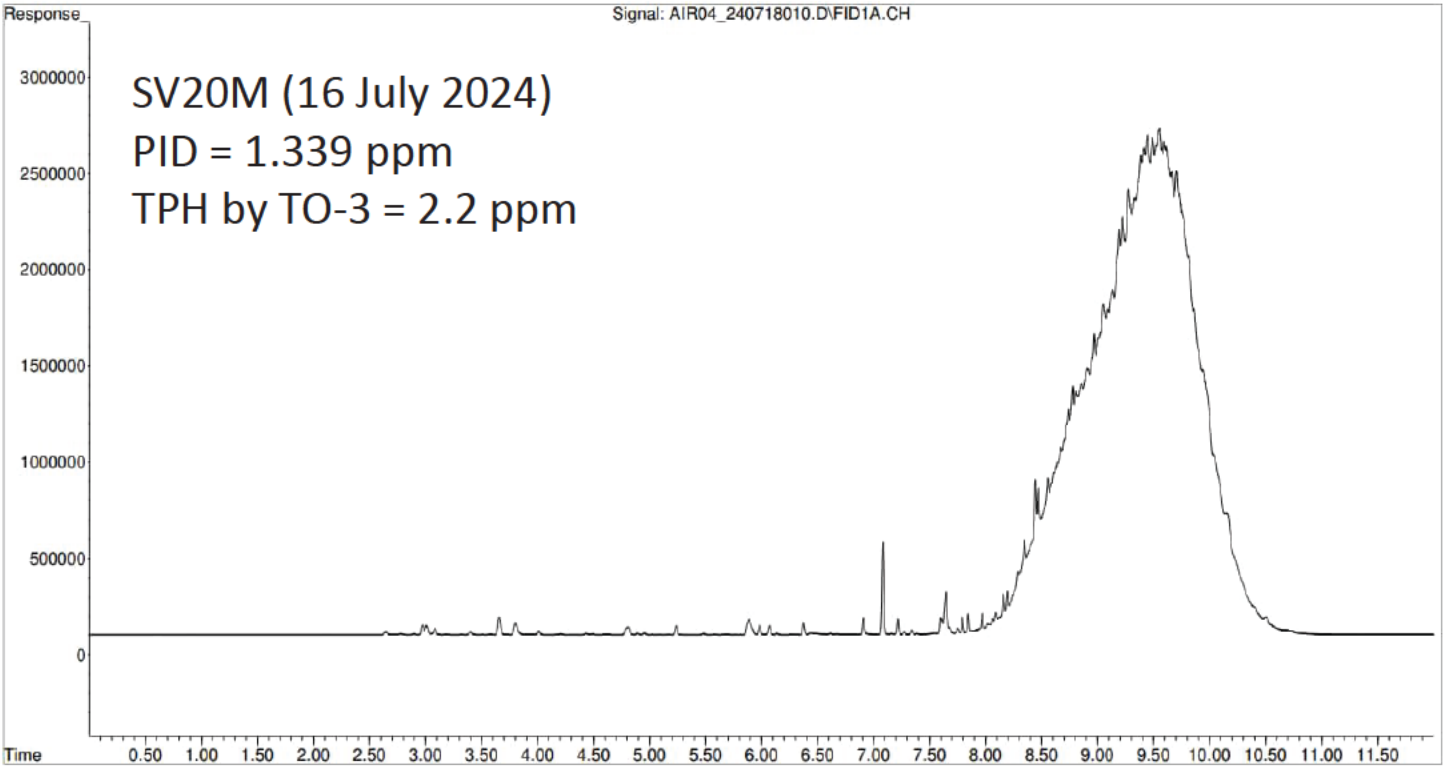

Response_
Signal: AIR04_240718013.D\FID1A.CH
SV15D (16 July 2024)
PID = 0.577 ppm
TPH by TO-3 = 0.081 ppm
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

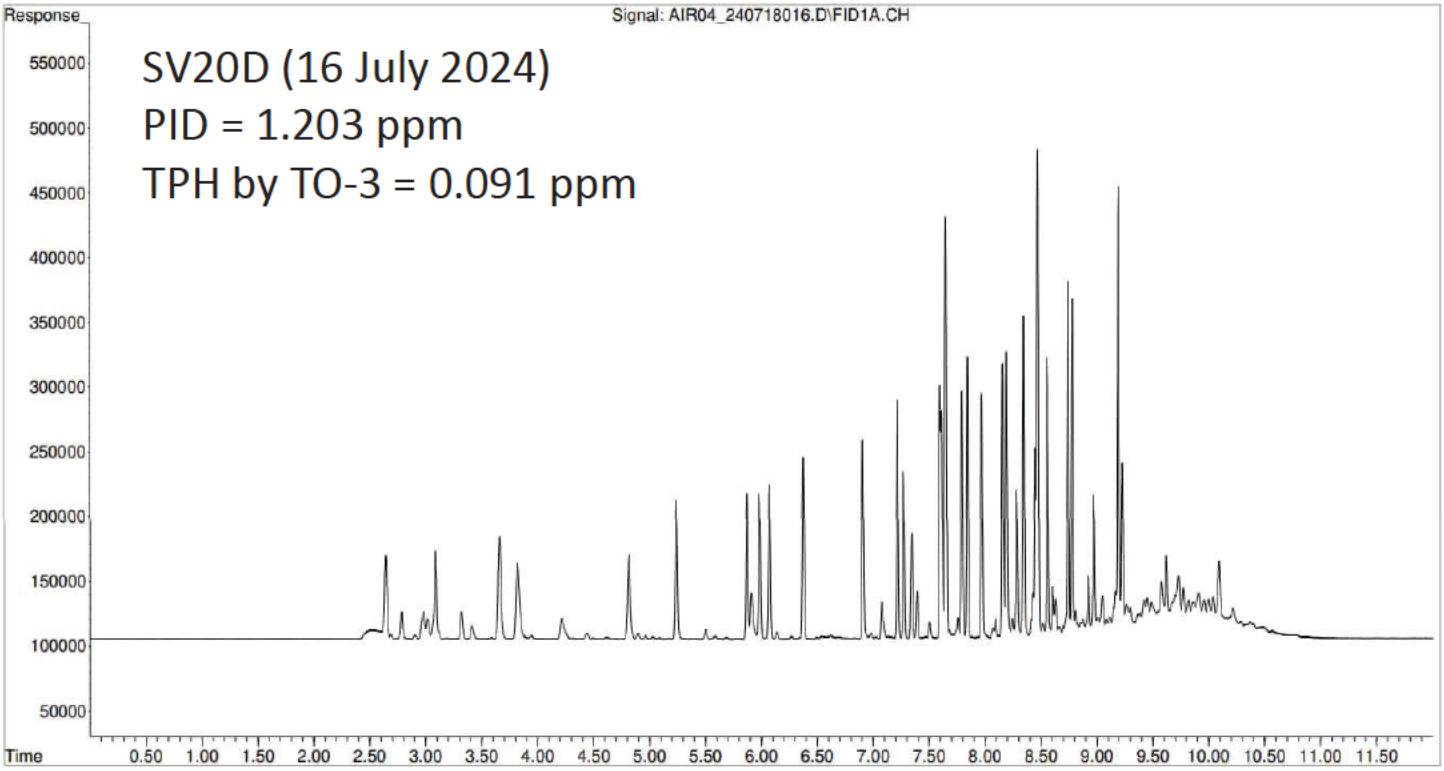

Response_
Signal: AIR04_240718014.D\FID1A.CH
SV17S (16 July 2024)
PID = 0.446 ppm
TPH by TO-3 = 0.055 ppm
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_240718015.D\FID1A.CH
SV17D (16 July 2024)
PID = 0.533 ppm
TPH by TO-3 = 0.087 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_240718008.D\FID1A.CH
SV18S (16 July 2024)
PID = 1.349 ppm
TPH by TO-3 = 0.20 ppm
850000
800000
750000
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
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

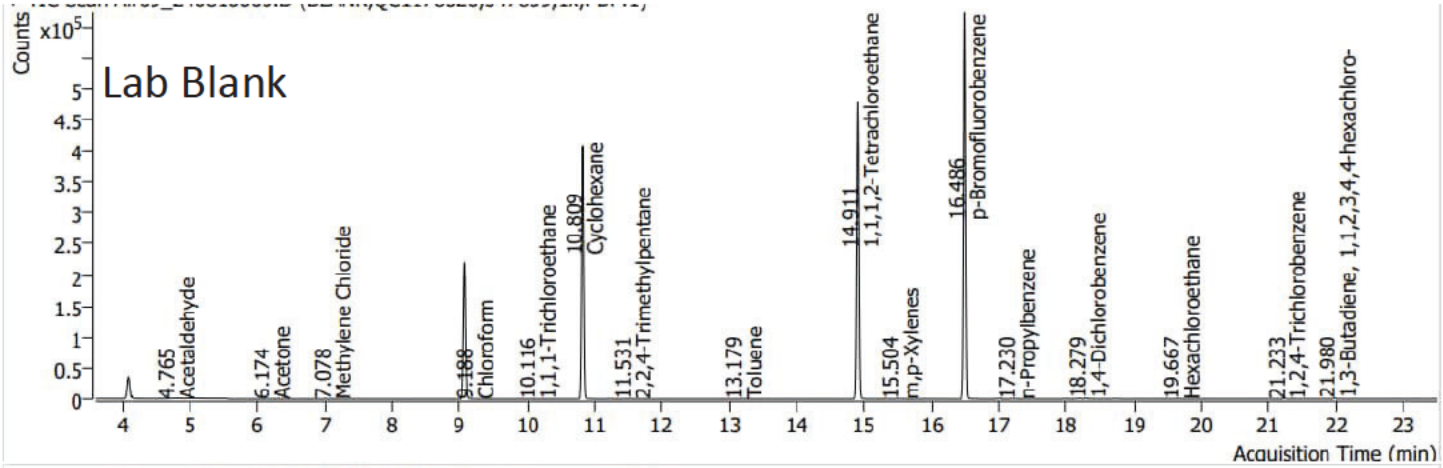

Response_
Signal: AIR04_240718009.D\FID1A.CH
SV18D (16 July 2024)
PID = 12.84 ppm
TPH by TO-3 = 1.0 ppm
2800000
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

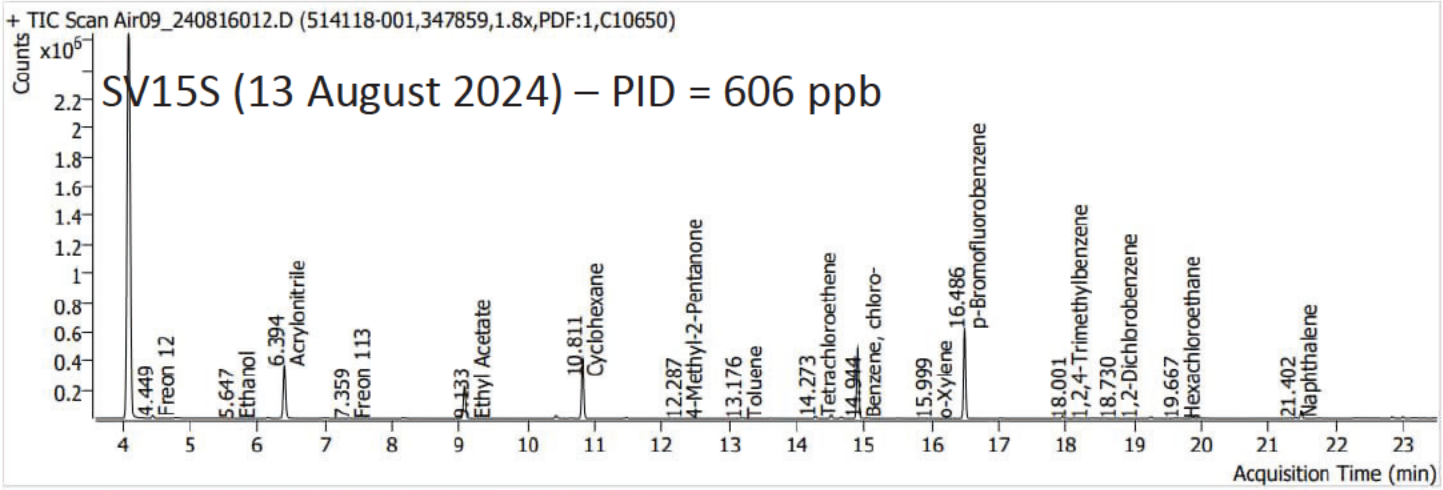

Response_
Signal: AIR04_240718010.D\FID1A.CH
SV20M (16 July 2024)
PID = 1.339 ppm
TPH by TO-3 = 2.2 ppm
3000000
2500000
2000000
1500000
1000000
500000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

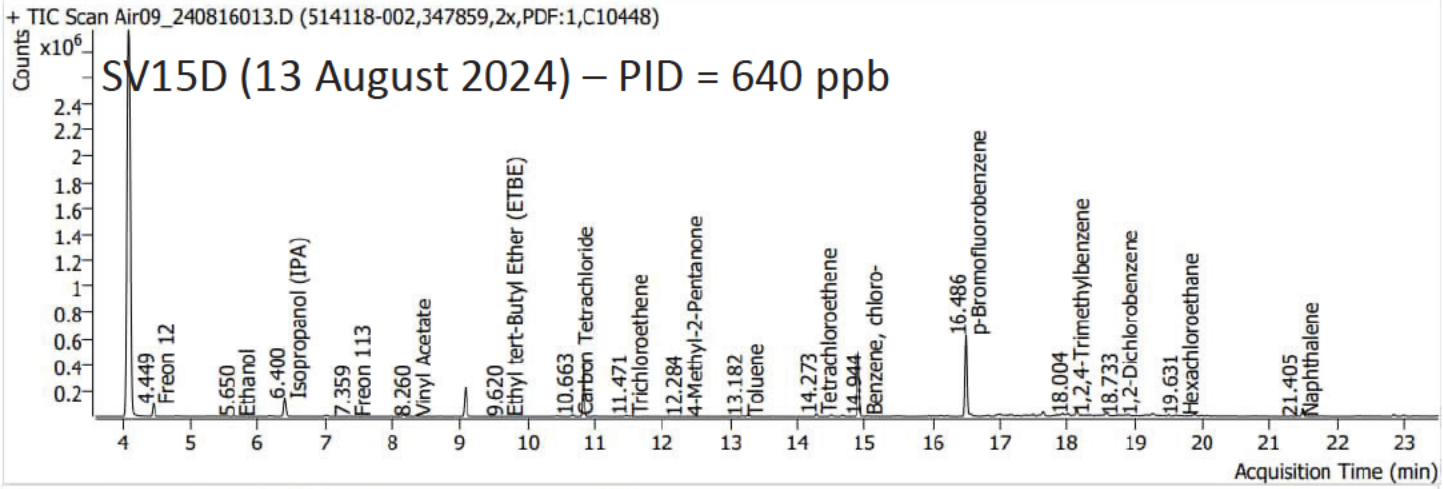

Response_
Signal: AIR04_240718016.D\FID1A.CH
SV20D (16 July 2024)
PID = 1.203 ppm
TPH by TO-3 = 0.091 ppm
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

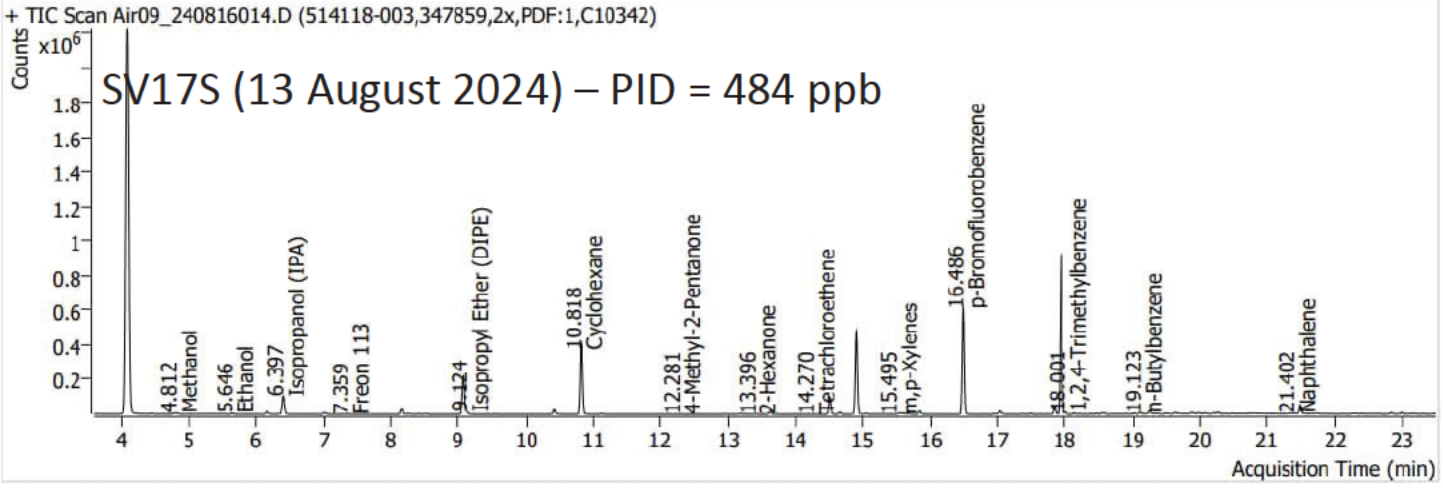
August 2024
Soil Vapor Samples

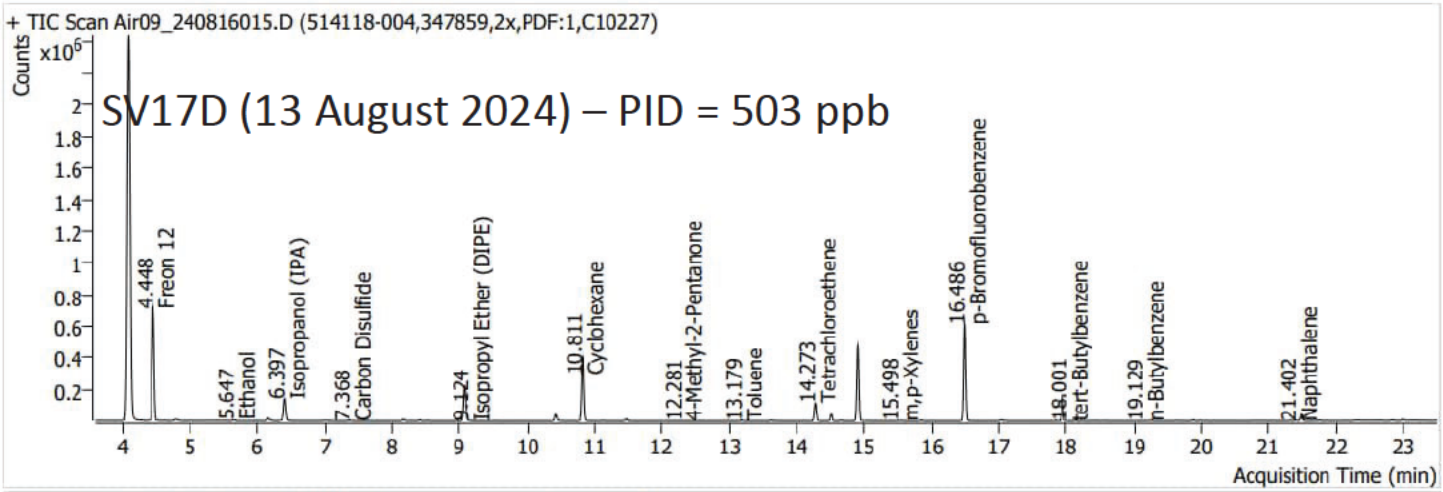
Mass Spec Chromatograms

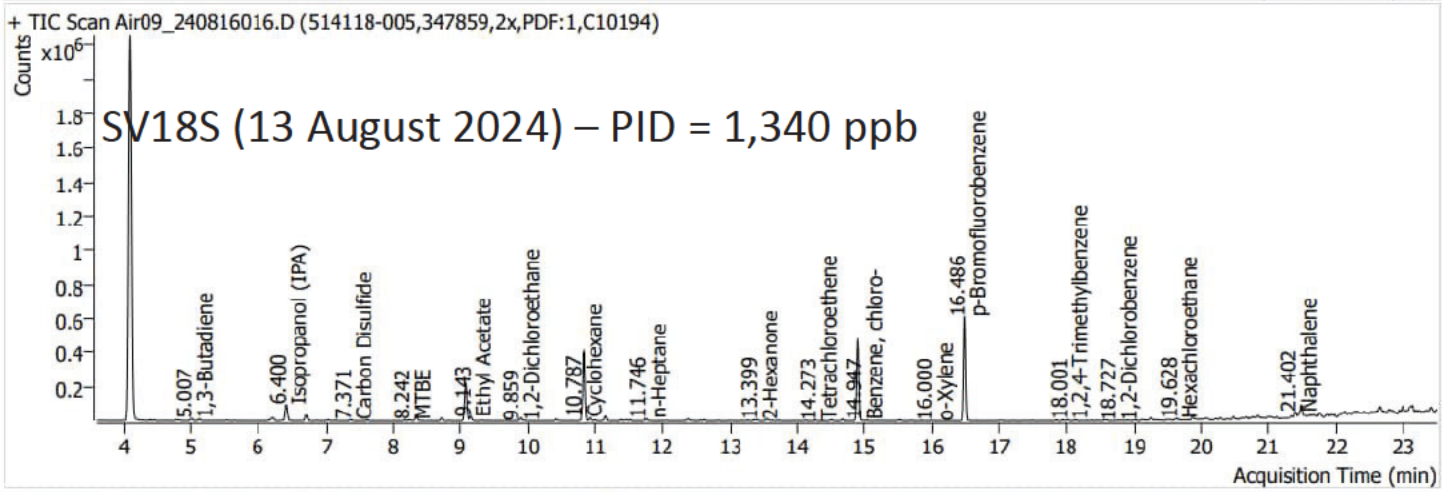

Lab Blank
Counts
x10^5
4.765 Acetaldehyde
6.174 Acetone
7.078 Methylene Chloride
9.188 Chloroform
10.116 1,1,1-Trichloroethane
10.809 Cyclohexane
11.531 2,2,4-Trimethylpentane
13.179 Toluene
14.911 1,1,1,2-Tetrachloroethane
15.504 m,p-Xylenes
16.486 p-Bromofluorobenzene
17.230 n-Propylbenzene
18.279 1,4-Dichlorobenzene
19.667 Hexachloroethane
21.233 1,2,4-Trichlorobenzene
21.980 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

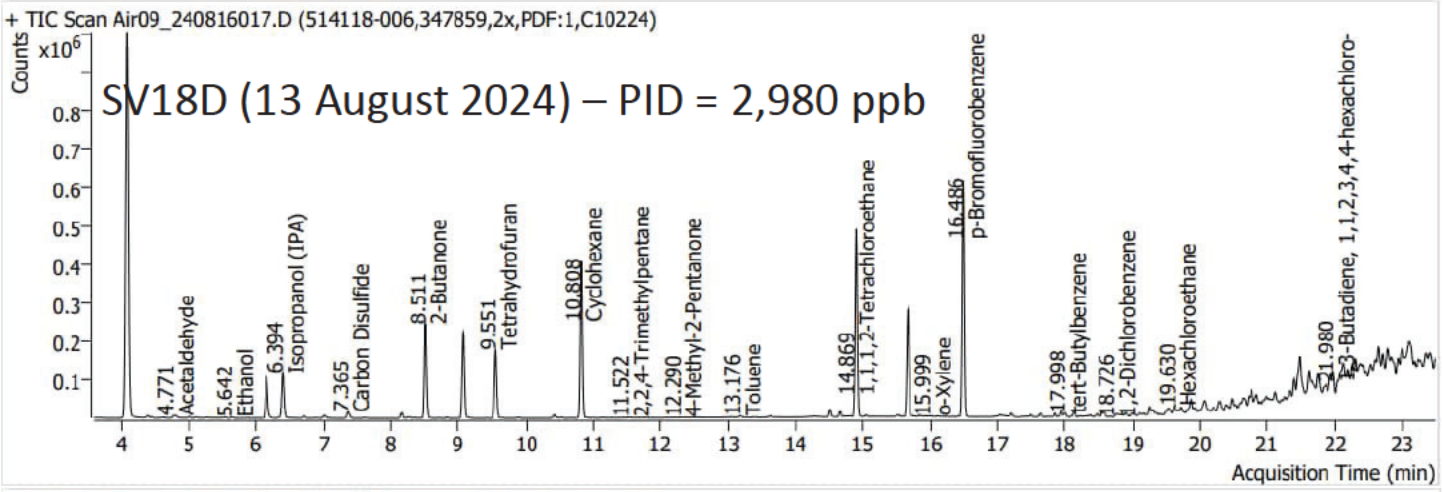

+ TIC Scan Air09_240816012.D (514118-001,347859,1.8x,PDF:1,C10650)
SV15S (13 August 2024) – PID = 606 ppb
Counts
x10^6
4.449 Freon 12
5.647 Ethanol
6.394 Acrylonitrile
7.359 Freon 113
9.133 Ethyl Acetate
10.811 Cyclohexane
12.287 4-Methyl-2-Pentanone
13.176 Toluene
14.273 Tetrachloroethene
14.944 Benzene, chloro-
15.999 o-Xylene
16.486 p-Bromofluorobenzene
18.001 1,2,4-Trimethylbenzene
18.730 1,2-Dichlorobenzene
19.667 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)

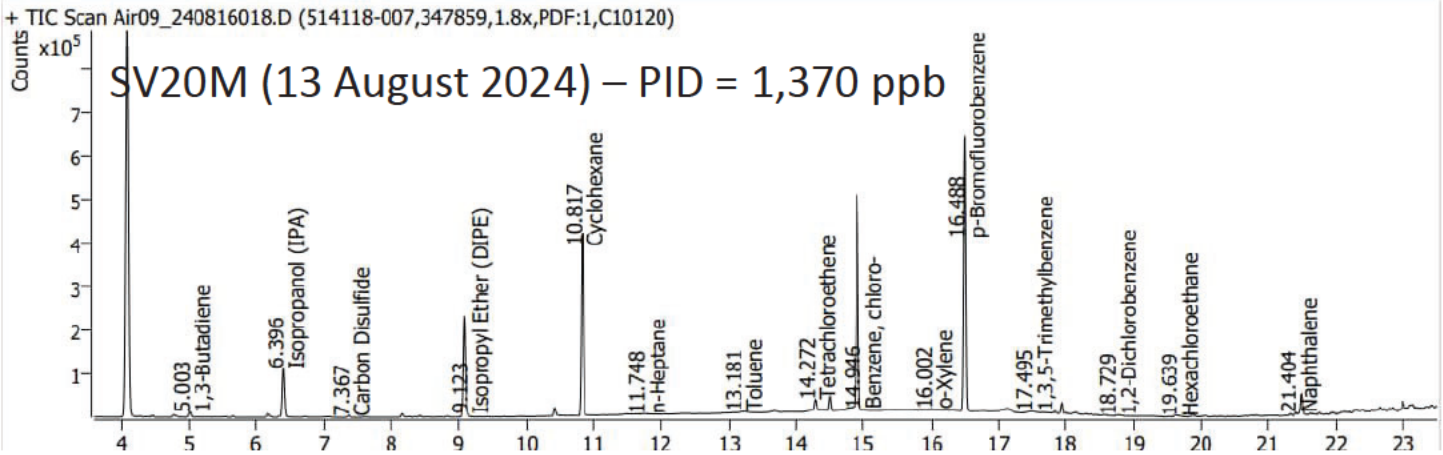

+ TIC Scan Air09_240816013.D (514118-002,347859,2x,PDF:1,C10448)
SV15D (13 August 2024) – PID = 640 ppb
Counts
x10^6
4.449 Freon 12
5.650 Ethanol
6.400 Isopropanol (IPA)
7.359 Freon 113
8.260 Vinyl Acetate
9.620 Ethyl tert-Butyl Ether (ETBE)
10.663 Carbon Tetrachloride
11.471 Trichloroethene
12.284 4-Methyl-2-Pentanone
13.182 Toluene
14.273 Tetrachloroethene
14.944 Benzene, chloro-
16.486 p-Bromofluorobenzene
18.004 1,2,4-Trimethylbenzene
18.733 1,2-Dichlorobenzene
19.631 Hexachloroethane
21.405 Naphthalene
Acquisition Time (min)

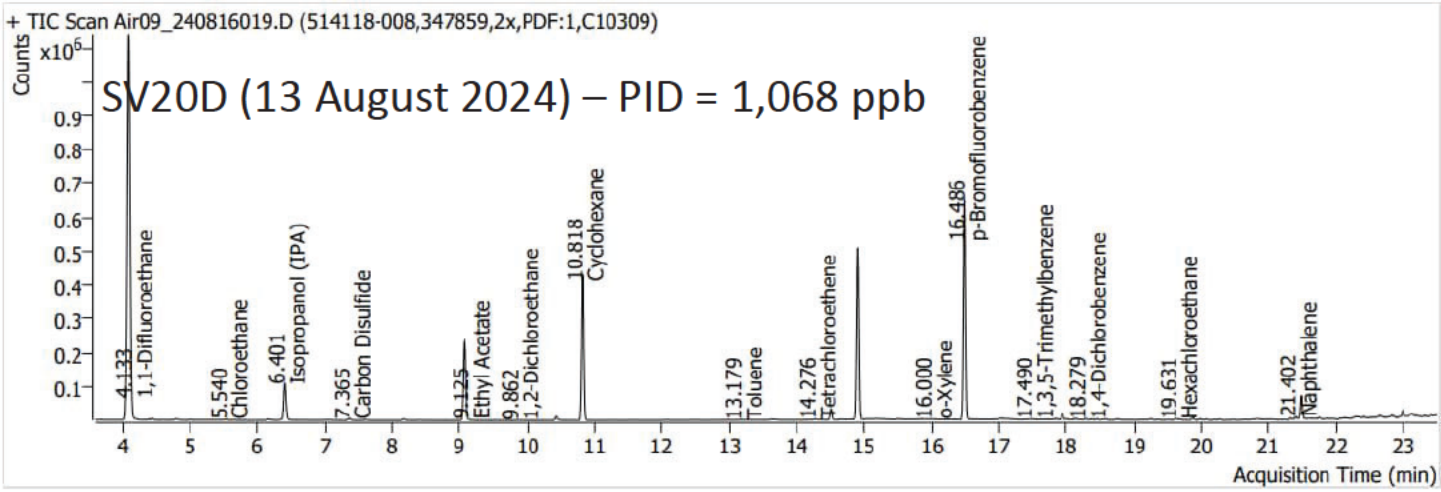

+ TIC Scan Air09_240816014.D (514118-003,347859,2x,PDF:1,C10342)
SV17S (13 August 2024) – PID = 484 ppb
Counts
x10^6
4.812 Methanol
5.646 Ethanol
6.397 Isopropanol (IPA)
7.359 Freon 113
9.124 Isopropyl Ether (DIPE)
10.818 Cyclohexane
12.281 4-Methyl-2-Pentanone
13.396 2-Hexanone
14.270 Tetrachloroethene
15.495 m,p-Xylenes
16.486 p-Bromofluorobenzene
18.001 1,2,4-Trimethylbenzene
19.123 n-Butylbenzene
21.402 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_240816015.D (514118-004,347859,2x,PDF:1,C10227)
Counts
x10^6
SV17D (13 August 2024) – PID = 503 ppb
4.448 Freon 12
5.647 Ethanol
6.397 Isopropanol (IPA)
7.368 Carbon Disulfide
9.124 Isopropyl Ether (DIPE)
10.811 Cyclohexane
12.281 4-Methyl-2-Pentanone
13.179 Toluene
14.273 Tetrachloroethene
15.498 m,p-Xylenes
16.486 p-Bromofluorobenzene
18.001 tert-Butylbenzene
19.129 n-Butylbenzene
21.402 Naphthalene
Acquisition Time (min)


+ TIC Scan Air09_240816016.D (514118-005,347859,2x,PDF:1,C10194)
Counts
x10^6
SV18S (13 August 2024) – PID = 1,340 ppb
5.007 1,3-Butadiene
6.400 Isopropanol (IPA)
7.371 Carbon Disulfide
8.242 MTBE
9.143 Ethyl Acetate
9.859 1,2-Dichloroethane
10.787 Cyclohexane
11.746 n-Heptane
13.399 2-Hexanone
14.273 Tetrachloroethene
14.947 Benzene, chloro-
16.000 o-Xylene
16.486 p-Bromofluorobenzene
18.001 1,2,4-Trimethylbenzene
18.727 1,2-Dichlorobenzene
19.628 Hexachloroethane
21.402 Naphthalene
Acquisition Time (min)

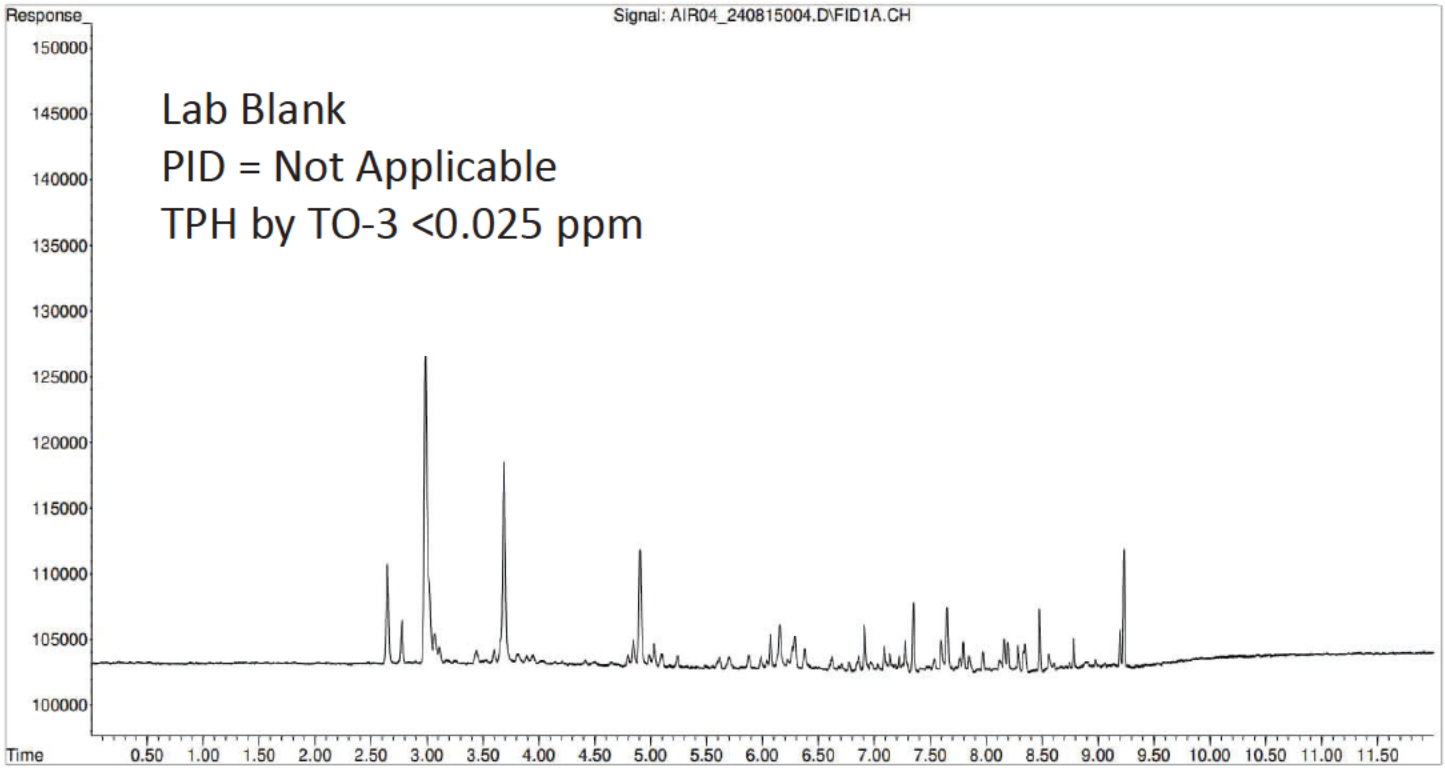

+ TIC Scan Air09_240816017.D (514118-006,347859,2x,PDF:1,C10224)
Counts
x10^6
SV18D (13 August 2024) – PID = 2,980 ppb
4.771 Acetaldehyde
5.642 Ethanol
6.394 Isopropanol (IPA)
7.365 Carbon Disulfide
8.511 2-Butanone
9.551 Tetrahydrofuran
10.808 Cyclohexane
11.522 2,2,4-Trimethylpentane
12.290 4-Methyl-2-Pentanone
13.176 Toluene
14.869 1,1,1,2-Tetrachloroethane
15.999 o-Xylene
16.486 p-Bromofluorobenzene
17.998 tert-Butylbenzene
18.726 1,2-Dichlorobenzene
19.630 Hexachloroethane
21.980 1,3-Butadiene, 1,1,2,3,4,4-hexachloro-
Acquisition Time (min)

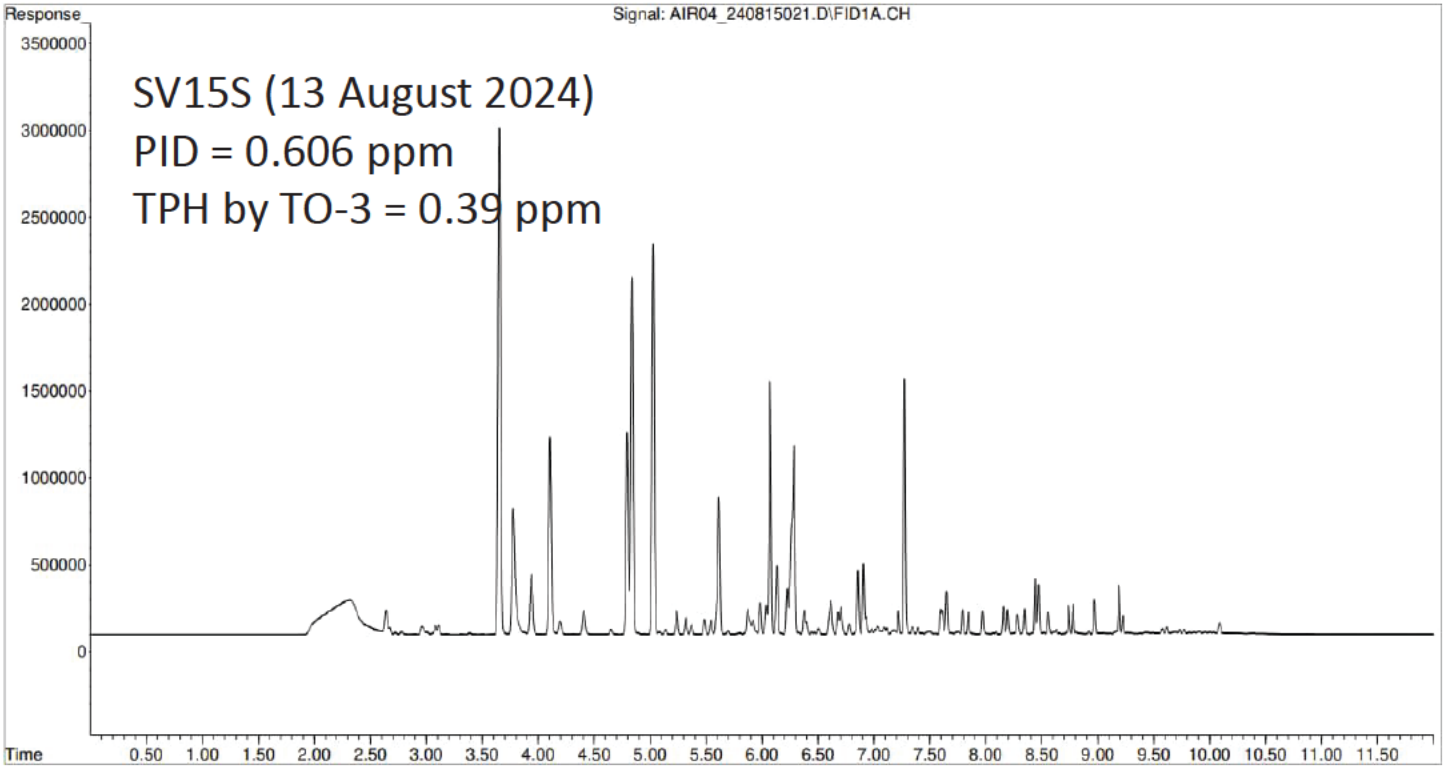

+ TIC Scan Air09_240816018.D (514118-007,347859,1.8x,PDF:1,C10120)
Counts
x10^5
SV20M (13 August 2024) – PID = 1,370 ppb
5.003 1,3-Butadiene
6.396 Isopropanol (IPA)
7.367 Carbon Disulfide
9.123 Isopropyl Ether (DIPE)
10.817 Cyclohexane
11.748 n-Heptane
13.181 Toluene
14.272 Tetrachloroethene
14.946 Benzene, chloro-
16.002 o-Xylene
16.488 p-Bromofluorobenzene
17.495 1,3,5-Trimethylbenzene
18.729 1,2-Dichlorobenzene
19.639 Hexachloroethane
21.404 Naphthalene

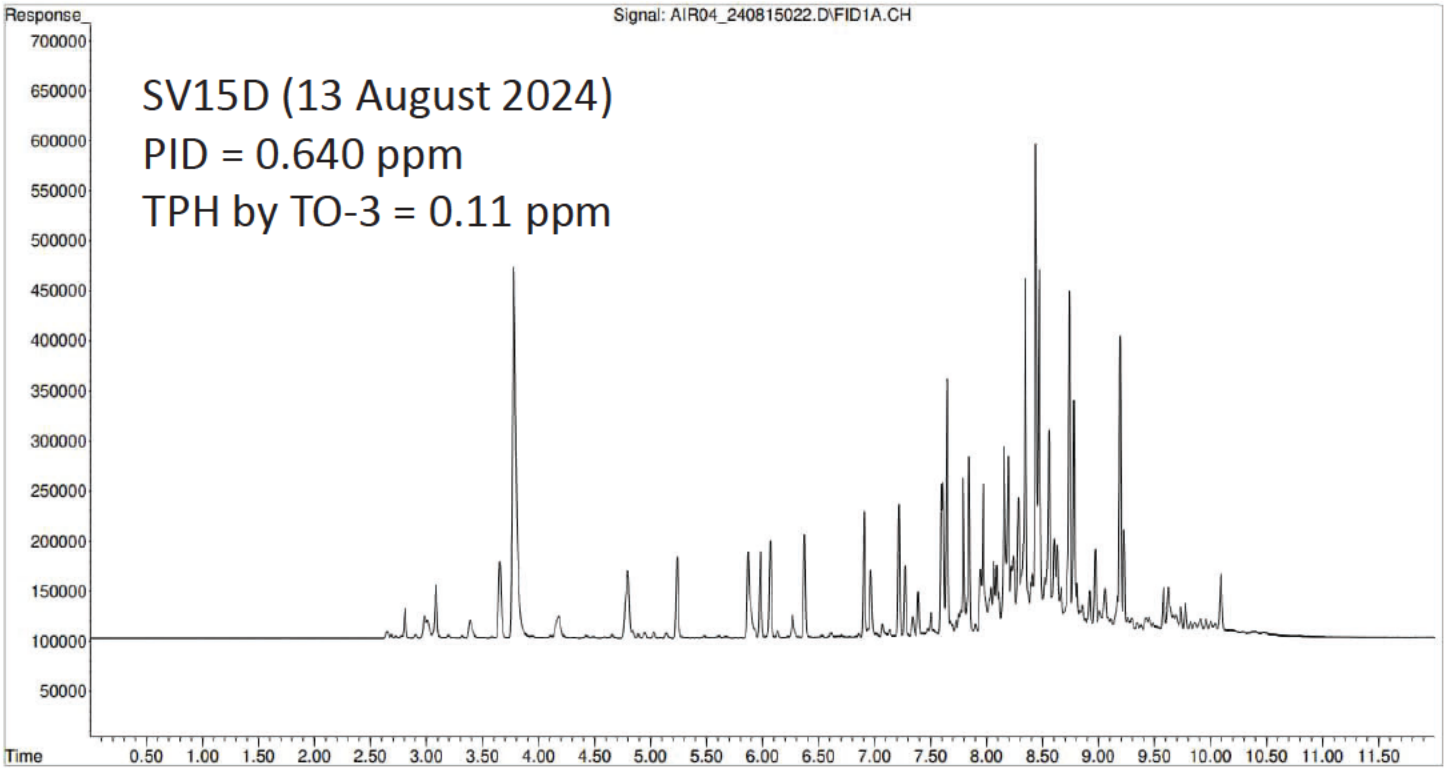

+ TIC Scan Air09_240816019.D (514118-008,347859,2x,PDF:1,C10309)
SV20D (13 August 2024) – PID = 1,068 ppb
Counts
x10^6
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4.133 1,1-Difluoroethane
5.540 Chloroethane
6.401 Isopropanol (IPA)
7.365 Carbon Disulfide
9.125 Ethyl Acetate
9.862 1,2-Dichloroethane
10.818 Cyclohexane
13.179 Toluene
14.276 Tetrachloroethene
16.000 o-Xylene
16.486 p-Bromofluorobenzene
17.490 1,3,5-Trimethylbenzene
18.279 1,4-Dichlorobenzene
19.631 Hexachloroethane
21.402 Naphthalene
4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Acquisition Time (min)

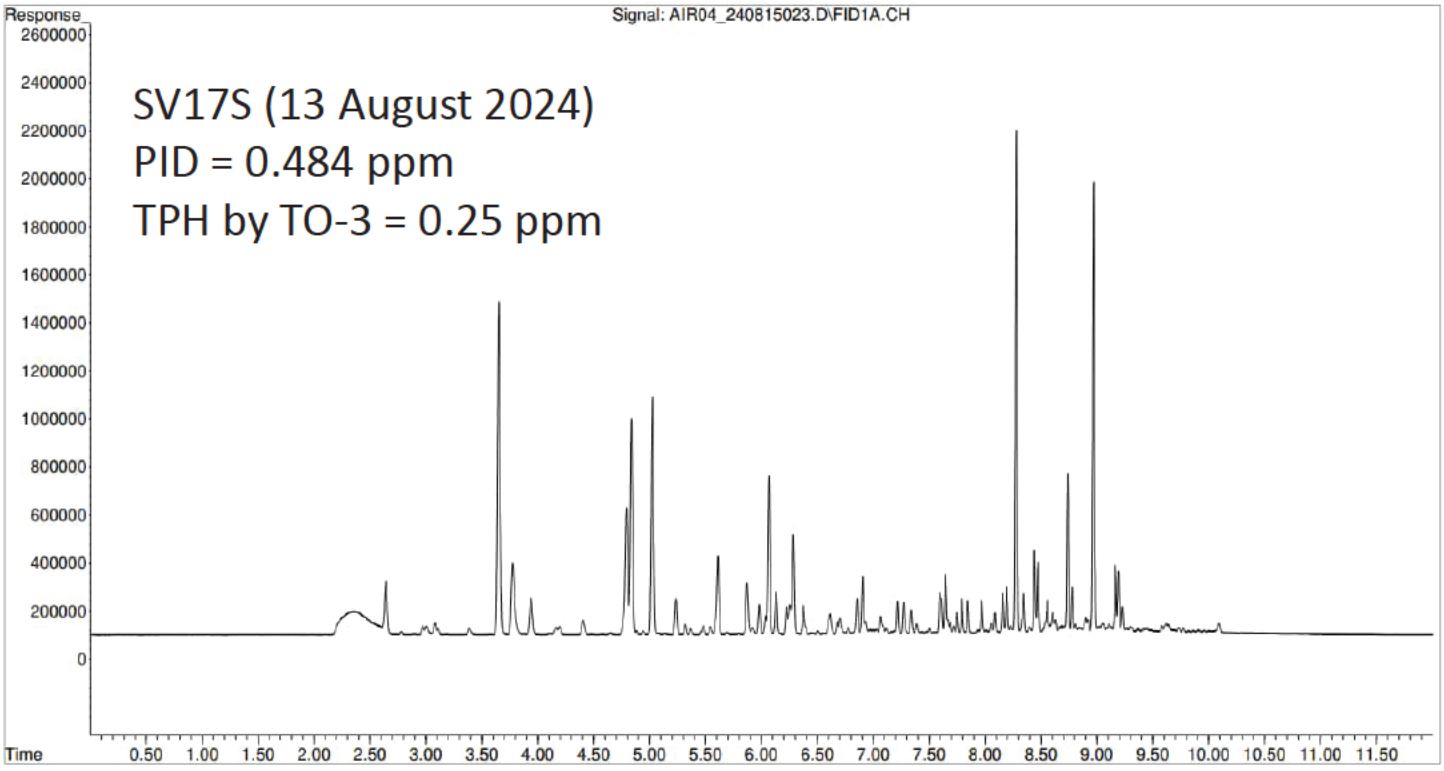
August 2024
Soil Vapor Samples

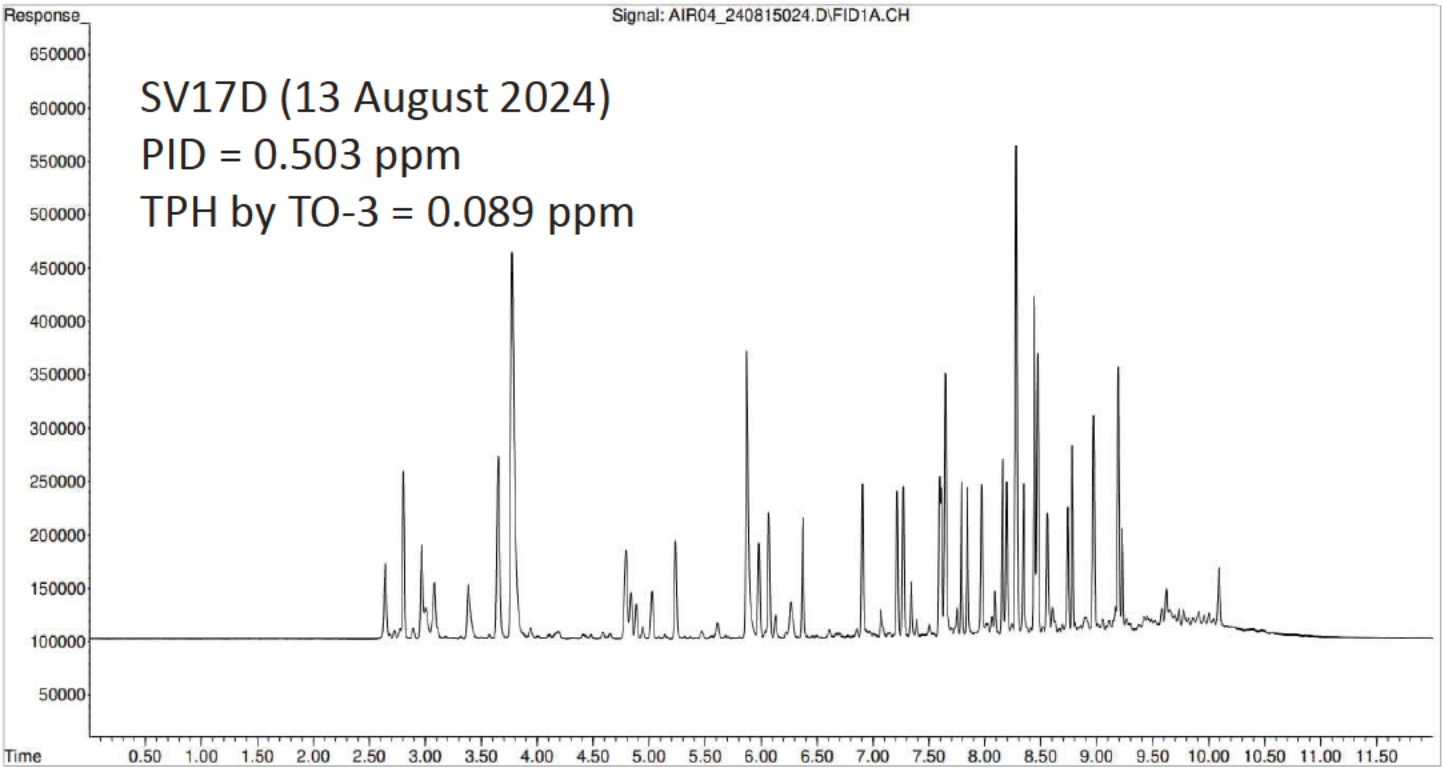
FID Chromatograms

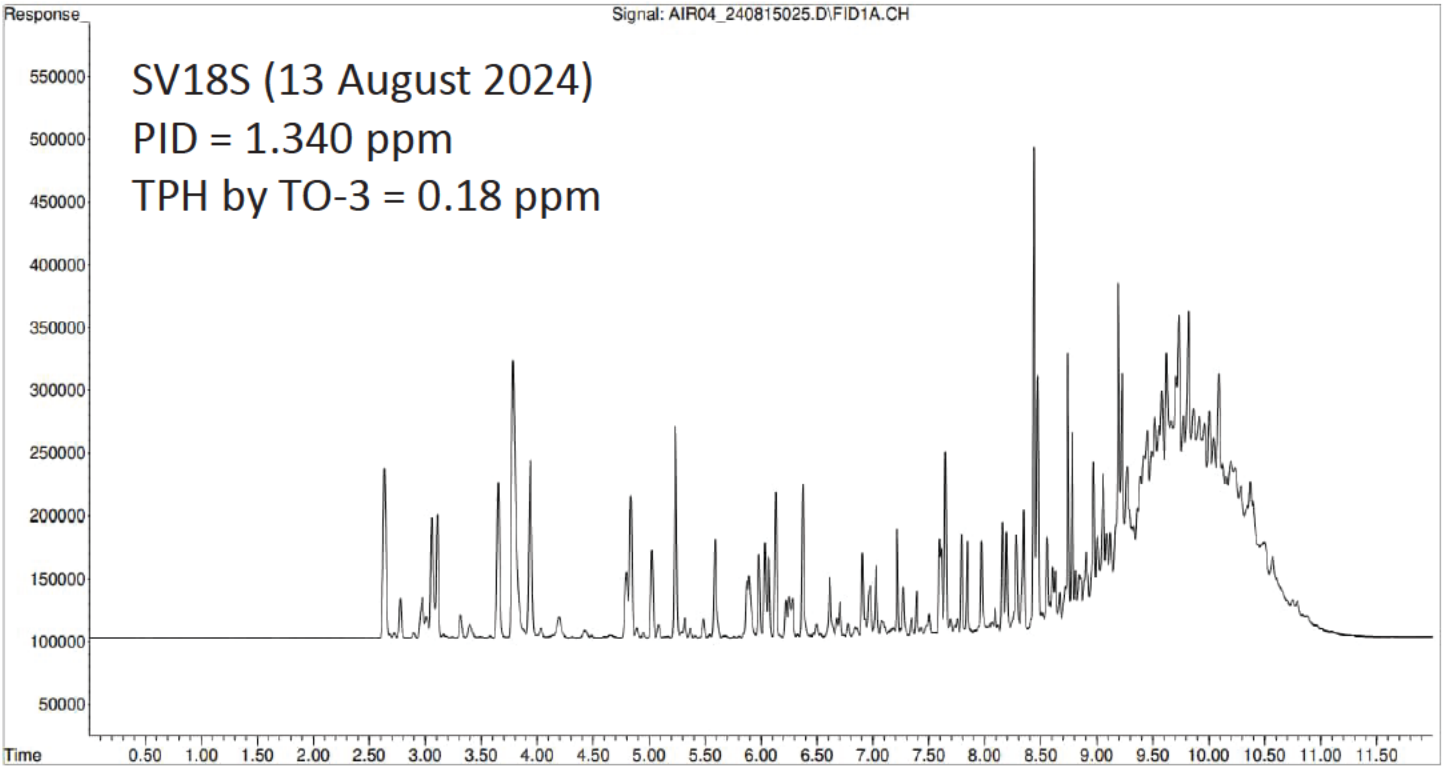

Response
Signal: AIR04_240815004.D\FID1A.CH
150000
145000
140000
135000
130000
125000
120000
115000
110000
105000
100000
Lab Blank
PID = Not Applicable
TPH by TO-3 <0.025 ppm
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

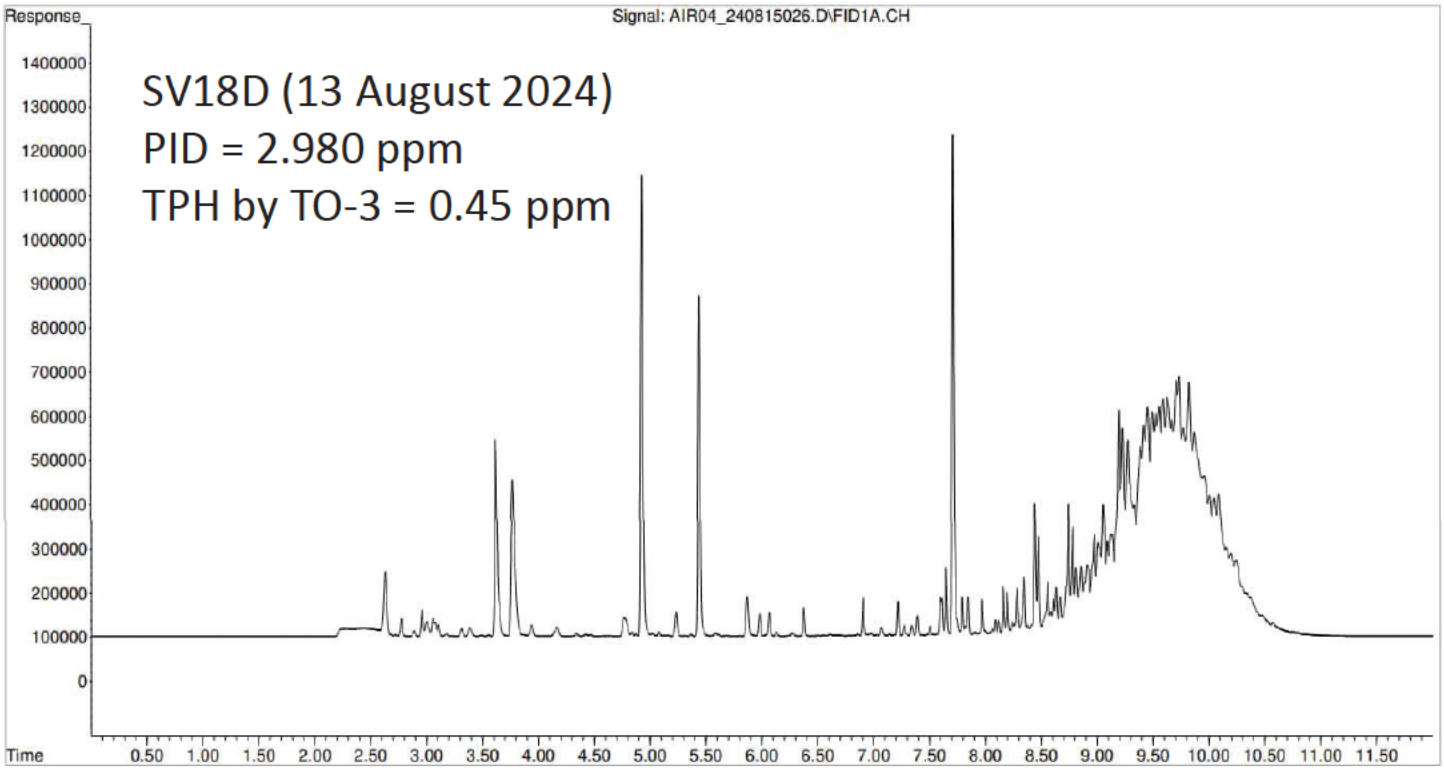

Response
Signal: AIR04_240815021.D\FID1A.CH
3500000
3000000
2500000
2000000
1500000
1000000
500000
0
SV15S (13 August 2024)
PID = 0.606 ppm
TPH by TO-3 = 0.39 ppm
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

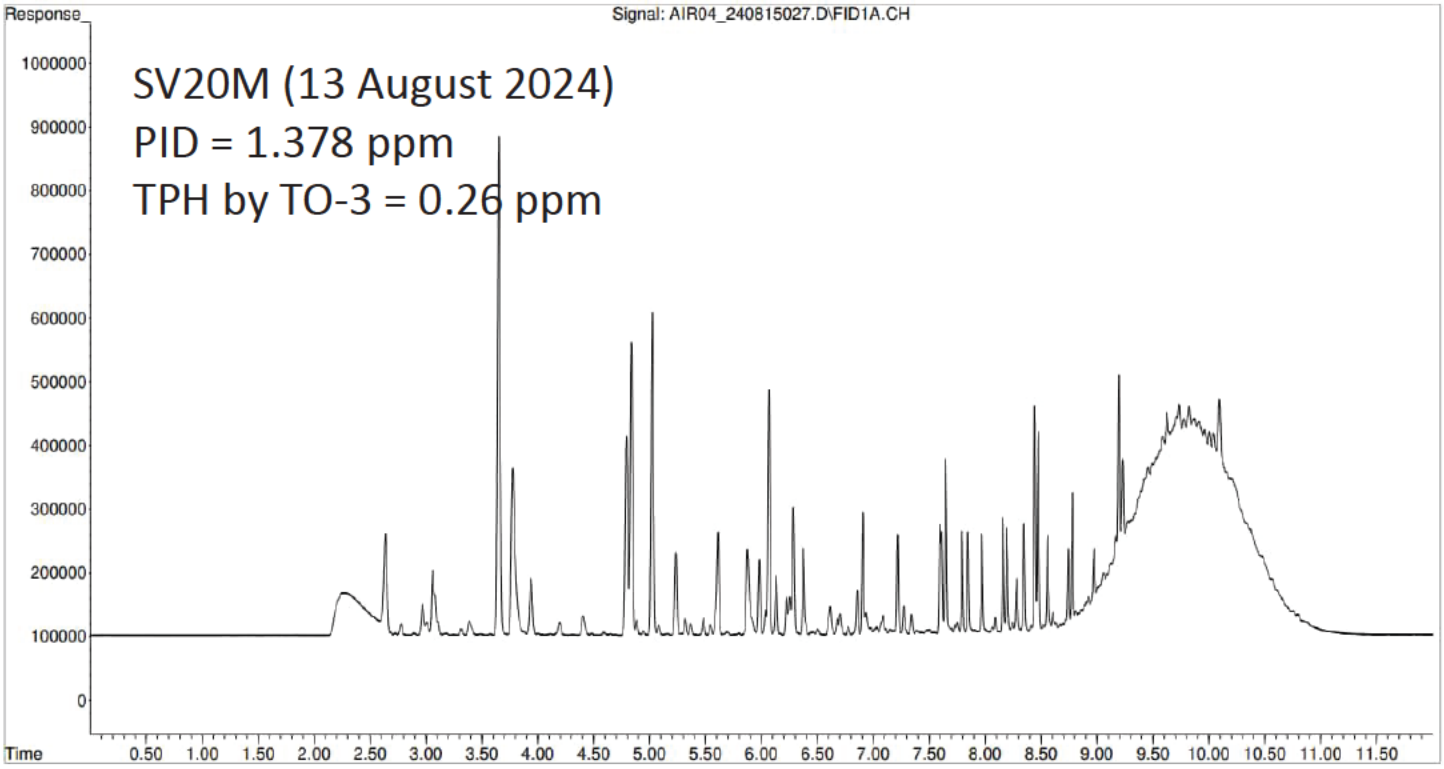

Response_
Signal: AIR04_240815022.D\FID1A.CH
SV15D (13 August 2024)
PID = 0.640 ppm
TPH by TO-3 = 0.11 ppm
700000
650000
600000
550000
500000
450000
400000
350000
300000
250000
200000
150000
100000
50000
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50

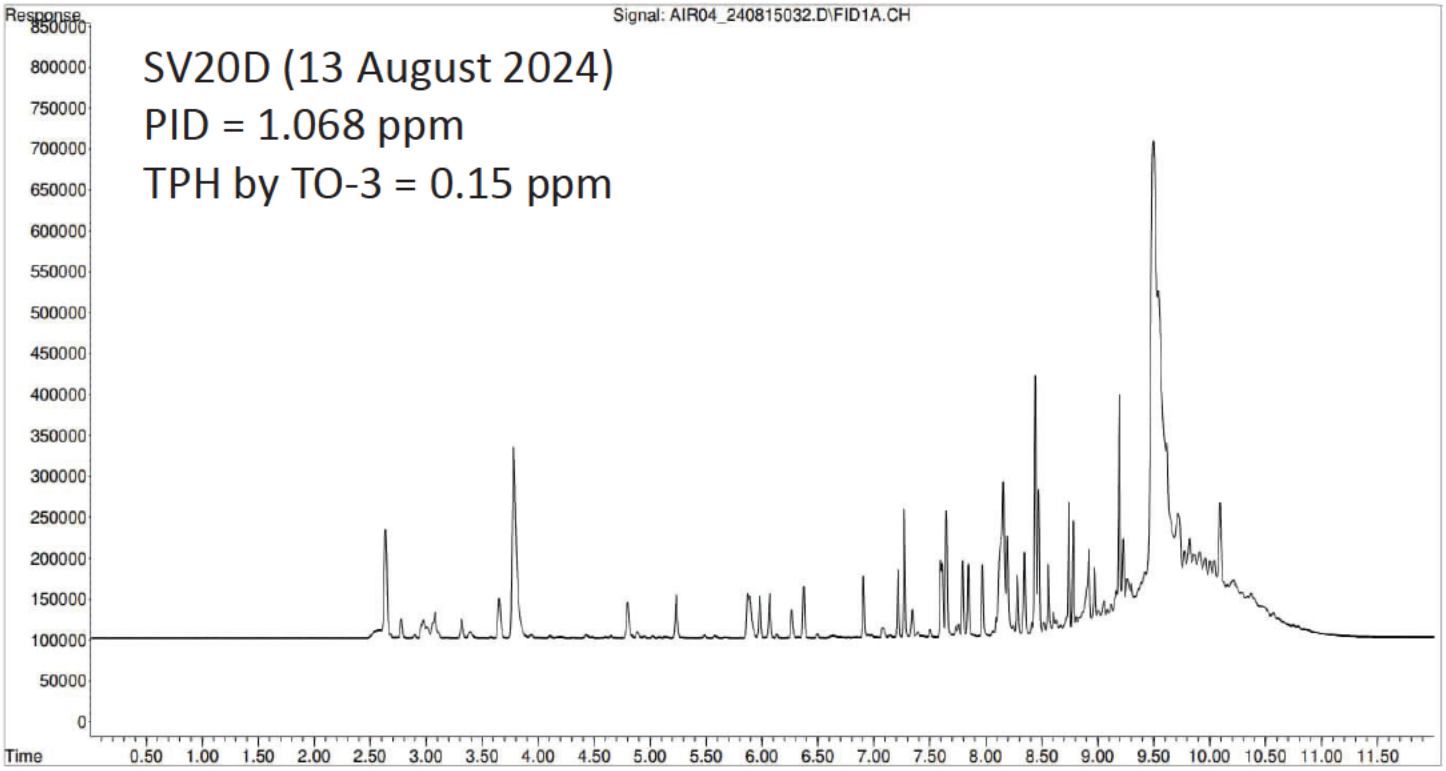

Response_
Signal: AIR04_240815023.D\FID1A.CH
SV17S (13 August 2024)
PID = 0.484 ppm
TPH by TO-3 = 0.25 ppm
2600000
2400000
2200000
2000000
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
Time
0.50 1.00 1.50 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 6.00 6.50 7.00 7.50 8.00 8.50 9.00 9.50 10.00 10.50 11.00 11.50


Response_
Signal: AIR04_240815024.D\FID1A.CH
SV17D (13 August 2024)
PID = 0.503 ppm
TPH by TO-3 = 0.089 ppm
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_240815025.D\FID1A.CH
SV18S (13 August 2024)
PID = 1.340 ppm
TPH by TO-3 = 0.18 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_240815026.D\FID1A.CH
SV18D (13 August 2024)
PID = 2.980 ppm
TPH by TO-3 = 0.45 ppm
1400000
1300000
1200000
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_240815027.D\FID1A.CH
SV20M (13 August 2024)
PID = 1.378 ppm
TPH by TO-3 = 0.26 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_240815032.D\FID1A.CH
SV20D (13 August 2024)
PID = 1.068 ppm
TPH by TO-3 = 0.15 ppm
850000
800000
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

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 June and Q2 GW LTM

Event ID: 2163

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 (BNA/SIM/E)	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)
	NMW24	WL	NMW24-WGN01B-2406B	0	0	WG	N	1	B	2024-06-26 08:40 AM	2406SG20B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled																	*
	NMW24	WL	NMW24-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 09:25 AM	2406AP20B	FEDEX	276400045533	6/26/2024	6/27/2024		24F0261	7	7	S2BVEM	Sampled						*											
	NMW24	WL	NMW24-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 09:25 AM	2406EU20B	ALASKA CARGO	027-32862583	6/26/2024	6/27/2024		580-141527-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW24	WL	NMW24-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 09:25 AM	2406AK20B	ALASKA CARGO	027-33149675	6/26/2024	6/27/2024		1243149	7	7	S2BVEM	Sampled									*		*					
	NMW24	WL	NMW24-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 09:25 AM	2406SG20B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-28 10:20 AM	2406AP29B	FEDEX	276489086663	6/28/2024	6/29/2024		24F0295	7	7	S2BVEM	Sampled						*											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-28 10:20 AM	2406EU29B	ALASKA CARGO	027-33149664	6/28/2024	6/29/2024		580-141637-1	7	7	S2BVEM	Sampled		*	*					*									
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-28 10:20 AM	2406AK29B	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243279	7	7	S2BVEM	Sampled									*		*					
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-28 10:20 AM	2406SG29B	UNITED CARGO	016-70781410	6/28/2024	6/29/2024		FC16877	7	7	S2BVEM	Sampled; No SGC				*	*		*		*		*	*	*	*	*	*
	RHMW11-05	WL	RHMW11-05-WGN01G-2406B	0	0	WG	N	1	G	2024-06-19 01:40 PM	2406SG10B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW12A	WL	RHMW12A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 10:40 AM	2406AP11B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*											
	RHMW12A	WL	RHMW12A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 10:40 AM	2406EU11B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*					*									
	RHMW12A	WL	RHMW12A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 10:40 AM	2406AK11B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled									*		*					
	RHMW12A	WL	RHMW12A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 10:40 AM	2406SG11B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW14-03	WL	RHMW14-03-WGN01G-2406B	0	0	WG	N	1	G	2024-06-19 10:05 AM	2406SG13B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	NMW25	WL	NMW25-WGN01B-2406B	0	0	WG	N	1	B	2024-06-26 10:40 AM	2406SG31B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled																	*
	NMW25	WL	NMW25-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:15 AM	2406AP31B	FEDEX	276400045533	6/26/2024	6/27/2024		24F0261	7	7	S2BVEM	Sampled						*											
	NMW25	WL	NMW25-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:15 AM	2406EU31B	ALASKA CARGO	027-32862583	6/26/2024	6/27/2024		580-141527-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW25	WL	NMW25-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:15 AM	2406AK31B	ALASKA CARGO	027-33149675	6/26/2024	6/27/2024		1243149	7	7	S2BVEM	Sampled									*		*					
	NMW25	WL	NMW25-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:15 AM	2406SG31B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	NMW26	WL	NMW26-WGN01B-2406B	0	0	WG	N	1	B	2024-06-24 09:00 AM	2406SG37B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled																	*
	NMW26	WL	NMW26-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 11:25 AM	2406AP37B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*											
	NMW26	WL	NMW26-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 11:25 AM	2406AK37B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled									*		*					
	NMW26	WL	NMW26-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 11:25 AM	2406SG37B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled				*	*		*			*		*	*	*	*	*
	NMW30	WL	NMW30-WGN01B-2406B	0	0	WG	N	1	B	2024-06-27 08:10 AM	2406SG35B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled																	*
	NMW30	WL	NMW30-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 09:05 AM	2406AP35B	FEDEX	276445789114	6/27/2024	6/28/2024		24F0281	7	7	S2BVEM	Sampled						*											
	NMW30	WL	NMW30-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 09:05 AM	2406EU35B	ALASKA CARGO	027-32862524	6/27/2024	6/28/2024		580-141582-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW30	WL	NMW30-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 09:05 AM	2406AK35B	ALASKA CARGO	027- 32862561	6/27/2024	6/28/2024		1243190	7	7	S2BVEM	Sampled									*		*					
	NMW30	WL	NMW30-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 09:05 AM	2406SG35B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	NMW32	WL	NMW32-WGN01B-2406B	0	0	WG	N	1	B	2024-06-27 10:40 AM	2406SG32B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled																	*
	NMW32	WL	NMW32-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 11:20 AM	2406AP32B	FEDEX	276445789114	6/27/2024	6/28/2024		24F0281	7	7	S2BVEM	Sampled						*											
	NMW32	WL	NMW32-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 11:20 AM	2406EU32B	ALASKA CARGO	027-32862524	6/27/2024	6/28/2024		580-141582-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW32	WL	NMW32-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 11:20 AM	2406AK32B	ALASKA CARGO	027- 32862561	6/27/2024	6/28/2024		1243190	7	7	S2BVEM	Sampled									*		*					
	NMW32	WL	NMW32-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 11:20 AM	2406SG32B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	NMW33	WL	NMW33-WGN01B-2406B	0	0	WG	N	1	B	2024-06-25 11:42 AM	2406SG34B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled																	*
	NMW33	WL	NMW33-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 12:05 PM	2406AP34B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*											
	NMW33	WL	NMW33-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 12:05 PM	2406EU34B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW33	WL	NMW33-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 12:05 PM	2406AK34B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled									*		*					
	NMW33	WL	NMW33-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 12:05 PM	2406SG34B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	NMW34	WL	NMW34-WGN01B-2406B	0	0	WG	N	1	B	2024-06-25 08:25 AM	2406SG39B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled																	*
	NMW34	WL	NMW34-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 08:50 AM	2406AP39B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*											
	NMW34	WL	NMW34-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 08:50 AM	2406EU39B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*					*									
	NMW34	WL	NMW34-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 08:50 AM	2406AK39B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled									*		*					
	NMW34	WL	NMW34-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 08:50 AM	2406SG39B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 08:55 AM	2406AP40B	FEDEX	276400045533	6/26/2024	6/27/2024		24F0261	7	7	S2BVEM	Sampled						*											
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 08:55 AM	2406EU40B	ALASKA CARGO	027-32862583	6/26/2024	6/27/2024		580-141527-1	7	7	S2BVEM	Sampled		*	*					*									
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 08:55 AM	2406AK40B	ALASKA CARGO	027-33149675	6/26/2024	6/27/2024		1243149	7	7	S2BVEM	Sampled									*		*					
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 08:55 AM	2406SG40B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 10:10 AM	2406AP41B	FEDEX	276400045533	6/26/2024	6/27/2024		24F0261	7	7	S2BVEM	Sampled						*											
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 10:10 AM	2406EU41B	ALASKA CARGO	027-32862583	6/26/2024	6/27/2024		580-141527-1	7	7	S2BVEM	Sampled		*	*					*									
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 10:10 AM	2406AK41B	ALASKA CARGO	027-33149675	6/26/2024	6/27/2024		1243149	7	7	S2BVEM	Sampled									*		*					
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 10:10 AM	2406SG41B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW01R	WL	RHMW01R-WGFD01B-2406B	0	0	WG	FD	1	B	2024-06-17 09:05 AM	2406SG01B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled																	*
	RHMW01R	WL	RHMW01R-WGFD01LF-2406B	0	0	WG	FD	1	LF	2024-06-17 10:50 AM	2406SG01B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled				*							*						*
	RHMW01R	WL	RHMW01R-WGN01B-2406B	0	0	WG	N	1	B	2024-06-17 09:05 AM	2406SG01B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled																	*
	RHMW01R	WL	RHMW01R-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-17 10:50 AM	2406SG01B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled				*	*		*			*		*	*	*	*	*
	RHMW02	WL	RHMW02-WGFD01B-2406B	0	0	WG	FD	1	B	2024-06-17 11:50 AM	2406SG02B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled																	*
	RHMW02	WL	RHMW02-WGFD01LF-2406B	0	0	WG	FD	1	LF	2024-06-17 12:20 PM	2406SG02B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled				*							*						*
	RHMW02	WL	RHMW02-WGN01B-2406B	0	0	WG	N	1	B	2024-06-17 11:50 AM	2406SG02B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled																	*
	RHMW02	WL	RHMW02-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-17 12:20 PM	2406SG02B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled				*	*		*			*		*	*	*	*	*
	RHMW03	WL	RHMW03-WGN01B-2406B	0	0	WG	N	1	B	2024-06-19 08:55 AM	2406SG03B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled																	*
	RHMW03	WL	RHMW03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-19 09:15 AM	2406SG03B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled				*	*		*			*		*	*	*	*	*
	RHMW04	WL	RHMW04-WGN01B-2406B	0	0	WG	N	1	B	2024-06-25 12:40 PM	2406SG04B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled																	*
	RHMW04	WL	RHMW04-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 01:25 PM	2406AP04B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*											
	RHMW04	WL	RHMW04-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 01:25 PM	2406EU04B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*					*									
	RHMW04	WL	RHMW04-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 01:25 PM	2406AK04B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled									*		*					
	RHMW04	WL	RHMW04-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 01:25 PM	2406SG04B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW05	WL	RHMW05-WGN01B-2406B	0	0	WG	N	1	B	2024-06-18 10:25 AM	2406SG05B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled																	*
	RHMW05	WL	RHMW05-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-18 10:50 AM	2406SG05B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW06	WL	RHMW06-WGN01B-2406B	0	0	WG	N	1	B	2024-06-20 11:45 AM	2406SG06B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled																	*
	RHMW06	WL	RHMW06-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 12:25 PM	2406SG06B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*
	RHMW08	WL	RHMW08-WGN01B-2406B	0	0	WG	N	1	B	2024-06-17 02:15 PM	2406SG07B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled																	*
	RHMW08	WL	RHMW08-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-17 03:45 PM	2406SG07B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled; No SGC				*	*		*			*		*	*	*	*	*

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

Event Name: Monthly 2024 June and Q2 GW LTM

Event ID: 2163

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 (BNA/SIM/E)	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-WGN01B-2406B	0	0	WG	N	1	B	2024-06-18 10:35 AM	2406SG08B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024	(b) (4)	FC16584	7	7	S2BVEM	Sampled																	
	RHMW09	WL	RHMW09-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-18 11:15 AM	2406SG08B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW10	WL	RHMW10-WGN01B-2406B	0	0	WG	N	1	B	2024-06-21 10:15 AM	2406SG09B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled																	*
	RHMW10	WL	RHMW10-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 11:05 AM	2406AK09B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled								*			*					
	RHMW10	WL	RHMW10-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 11:05 AM	2406SG09B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW13-04	WL	RHMW13-04-WGN01G-2406B	0	0	WG	N	1	G	2024-06-24 11:40 AM	2406AP12B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*										
	RHMW13-04	WL	RHMW13-04-WGN01G-2406B	0	0	WG	N	1	G	2024-06-24 11:40 AM	2406AK12B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled								*			*					
	RHMW13-04	WL	RHMW13-04-WGN01G-2406B	0	0	WG	N	1	G	2024-06-24 11:40 AM	2406SG12B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW15-05	WL	RHMW15-05-WGN01G-2406B	0	0	WG	N	1	G	2024-06-17 10:00 AM	2406SG14B	UNITED CARGO	016-92119705	6/17/2024	6/19/2024		FC16545	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW16	WL	RHMW16-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 10:55 AM	2406SG15B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW17	WL	RHMW17-WGFD01B-2406B	0	0	WG	FD	1	B	2024-06-24 08:45 AM	2406SG16B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled																	*
	RHMW17	WL	RHMW17-WGFD01LF-2406B	0	0	WG	FD	1	LF	2024-06-24 09:25 AM	2406SG16B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled				*							*		*	*	*	*
	RHMW17	WL	RHMW17-WGN01B-2406B	0	0	WG	N	1	B	2024-06-24 08:45 AM	2406SG16B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled																	*
	RHMW17	WL	RHMW17-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 09:25 AM	2406AP16B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*										
	RHMW17	WL	RHMW17-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 09:25 AM	2406AK16B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled								*			*					
	RHMW17	WL	RHMW17-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-24 09:25 AM	2406SG16B	UNITED CARGO	016-70710076	6/24/2024	6/26/2024		FC16725	7	7	S2BVEM	Sampled				*	*			*			*		*	*	*	*
	RHMW18	WL	RHMW18-WGN01B-2406B	0	0	WG	N	1	B	2024-06-27 09:10 AM	2406SG36B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled																	*
	RHMW18	WL	RHMW18-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 10:30 AM	2406AP36B	FEDEX	276445789114	6/27/2024	6/28/2024		24F0281	7	7	S2BVEM	Sampled						*										
	RHMW18	WL	RHMW18-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 10:30 AM	2406AK36B	ALASKA CARGO	027-33149642	6/27/2024	6/28/2024		580-141582-1	7	7	S2BVEM	Sampled		*	*						*								
	RHMW18	WL	RHMW18-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 10:30 AM	2406AK36B	ALASKA CARGO	027- 32862561	6/27/2024	6/28/2024		1243190	7	7	S2BVEM	Sampled											*					
	RHMW18	WL	RHMW18-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-27 10:30 AM	2406SG36B	UNITED CARGO	016-70712703	6/27/2024	6/29/2024		FC16872	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW19	WL	RHMW19-WGN01B-2406B	0	0	WG	N	1	B	2024-06-18 08:25 AM	2406SG17B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled																	*
	RHMW19	WL	RHMW19-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-18 09:25 AM	2406SG17B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW20	WL	RHMW20-WGN01B-2406B	0	0	WG	N	1	B	2024-06-26 11:18 AM	2406SG18B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled																	*
	RHMW20	WL	RHMW20-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:55 AM	2406AP18B	FEDEX	276400045533	6/26/2024	6/27/2024		24F0261	7	7	S2BVEM	Sampled						*										
	RHMW20	WL	RHMW20-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:55 AM	2406EU18B	ALASKA CARGO	027-32862583	6/26/2024	6/27/2024		580-141527-1	7	7	S2BVEM	Sampled		*	*						*								
	RHMW20	WL	RHMW20-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:55 AM	2406AK18B	ALASKA CARGO	027-33149675	6/26/2024	6/27/2024		1243149	7	7	S2BVEM	Sampled											*					
	RHMW20	WL	RHMW20-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-26 11:55 AM	2406SG18B	UNITED CARGO	016-70711163	6/26/2024	6/28/2024		FC16817	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2406B	0	0	WG	N	1	B	2024-06-19 10:50 AM	2406SG19B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled																	*
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-19 11:10 AM	2406SG19B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP01	WL	RHP01-WGN01B-2406B	0	0	WG	N	1	B	2024-06-20 08:35 AM	2406SG21B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled																	*
	RHP01	WL	RHP01-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 09:05 AM	2406SG21B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP02	WL	RHP02-WGN01B-2406B	0	0	WG	N	1	B	2024-06-20 11:55 AM	2406SG22B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled																	*
	RHP02	WL	RHP02-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 12:50 PM	2406SG22B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP03	WL	RHP03-WGN01B-2406B	0	0	WG	N	1	B	2024-06-20 10:30 AM	2406SG23B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled																	*
	RHP03	WL	RHP03-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 11:00 AM	2406SG23B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP04A	WL	RHP04A-WGN01B-2406B	0	0	WG	N	1	B	2024-06-20 08:20 AM	2406SG24B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled																	*
	RHP04A	WL	RHP04A-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-20 09:15 AM	2406SG24B	UNITED CARGO	016-68717644	6/20/2024	6/22/2024		FC16667	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP04B	WL	RHP04B-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 09:20 AM	2406AP25B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*										
	RHP04B	WL	RHP04B-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 09:20 AM	2406EU25B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*						*								
	RHP04B	WL	RHP04B-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 09:20 AM	2406AK25B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled											*					
	RHP04B	WL	RHP04B-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 09:20 AM	2406SG25B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP04C	WL	RHP04C-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 11:30 AM	2406AP26B	FEDEX	276353107124	6/25/2024	6/26/2024		24F0252	7	7	S2BVEM	Sampled						*										
	RHP04C	WL	RHP04C-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 11:30 AM	2406EU26B	ALASKA CARGO	027-32862546	6/25/2024	6/26/2024		580-141495-1	7	7	S2BVEM	Sampled		*	*						*								
	RHP04C	WL	RHP04C-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 11:30 AM	2406AK26B	ALASKA CARGO	027-32862513	6/25/2024	6/26/2024		1243133	7	7	S2BVEM	Sampled											*					
	RHP04C	WL	RHP04C-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-25 11:30 AM	2406SG26B	UNITED CARGO	016-70710194	6/25/2024	6/27/2024		FC16768	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP05	WL	RHP05-WGN01B-2406B	0	0	WG	N	1	B	2024-06-21 08:15 AM	2406SG27B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled																	*
	RHP05	WL	RHP05-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 08:55 AM	2406AK27B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled											*					
	RHP05	WL	RHP05-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 08:55 AM	2406SG27B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP06	WL	RHP06-WGN01B-2406B	0	0	WG	N	1	B	2024-06-21 10:25 AM	2406SG30B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled																	*
	RHP06	WL	RHP06-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 11:00 AM	2406AK30B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled											*					
	RHP06	WL	RHP06-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 11:00 AM	2406SG30B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP07	WL	RHP07-WGN01B-2406B	0	0	WG	N	1	B	2024-06-18 09:00 AM	2406SG28B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled																	*
	RHP07	WL	RHP07-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-18 09:30 AM	2406SG28B	UNITED CARGO	016-68716642	6/18/2024	6/20/2024		FC16584	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHP08	WL	RHP08-WGFD01B-2406B	0	0	WG	FD	1	B	2024-06-21 08:25 AM	2406SG33B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled																	*
	RHP08	WL	RHP08-WGFD01LF-2406B	0	0	WG	FD	1	LF	2024-06-21 09:00 AM	2406SG33B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled; No SGC				*							*		*	*	*	*
	RHP08	WL	RHP08-WGN01B-2406B	0	0	WG	N	1	B	2024-06-21 08:25 AM	2406SG33B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled																	*
	RHP08	WL	RHP08-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 09:00 AM	2406AK33B	ALASKA CARGO	027-33149642	6/24/2024	6/25/2024		1243112	7	7	S2BVEM	Sampled											*					
	RHP08	WL	RHP08-WGN01LF-2406B	0	0	WG	N	1	LF	2024-06-21 09:00 AM	2406SG33B	UNITED CARGO	016-68718112	6/21/2024	6/22/2024		FC16682	7	7	S2BVEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2406B	0	0	WG	FD	1	G	2024-06-19 11:45 AM	2406SG42B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled; No SGC				*	*			*			*		*	*	*	*
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2406B	0	0	WG	N	1	G	2024-06-19 11:45 AM	2406SG42B	UNITED CARGO	016-68717390	6/19/2024	6/21/2024		FC16624	7	7	S4VEM	Sampled; No SGC				*	*			*			*		*	*	*	*

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	Z2M:EE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNA5ME)	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 (M8015Y)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Alea	NMW24	WL	NMW24-WGN01B-2407A	0	0	WG	N	1	B	2024-07-10 08:45 AM	2407SG20A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024	(b) (4)	FC17124	7	7	S2BVEM	Sampled																							•
	NMW24	WL	NMW24-WGN01B-2407B	0	0	WG	N	1	B	2024-07-26 08:30 AM	2407SG20B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled									•														•
	NMW24	WL	NMW24-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:15 AM	2407AP20A	FEDEX	276920290607	7/10/2024	7/11/2024		24G0067	7	7	S4VEM	Sampled																							
	NMW24	WL	NMW24-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:15 AM	2407EU20A	ALASKA CARGO	027-33149826	7/10/2024	7/11/2024		580-141951-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW24	WL	NMW24-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:15 AM	2407AK20A	ALASKA CARGO	027- 33149830	7/10/2024	7/11/2024		1243524	7	7	S2BVEM	Sampled												•											
	NMW24	WL	NMW24-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:15 AM	2407SG20A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024		FC17124	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	NMW24	WL	NMW24-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 08:55 AM	2407AP20B	FEDEX	27756989772	7/26/2024	7/27/2024		24G0254	7	7	S2BVEM	Sampled	•						•																
	NMW24	WL	NMW24-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 08:55 AM	2407EN20B	UNITED CARGO	016-01626111	7/26/2024	7/27/2024		B24072301	7	7	S2BVEM	Sampled																			•	•			
	NMW24	WL	NMW24-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 08:55 AM	2407EU20B	ALASKA CARGO	027-33482153	7/26/2024	7/27/2024		580-142445-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	NMW24	WL	NMW24-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 08:55 AM	2407AK20B	ALASKA CARGO	027-33482120	7/29/2024	7/31/2024		1244063	7	7	S2BVEM	Sampled												•											
	NMW24	WL	NMW24-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 08:55 AM	2407SG20B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled; No SGC					•	•			•			•					•	•			•	•
																						S2BVEM Count	*1*	*2*	*0*	*2*	*1*	*1*	*1*	*0*	*1*	*2*	*2*	*1*	*1*	*0*	*1*	*2*	*1*	*1*	*1*	*1*	*1*	*2*
																						S4VEM Count	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*2*
																						Site Location Count	*1*	*2*	*0*	*2*	*2*	*2*	*2*	*0*	*2*	*2*	*2*	*2*	*2*	*1*	*0*	*1*	*2*	*2*	*2*	*1*	*1*	*2*	*4*
Halawa Correctional Facility	HDMW22S3-03	WL	HDMW22S3-03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 09:05 AM	2407AP29A	FEDEX	277010313782	7/12/2024	7/13/2024		24G0117	7	7	S2BVEM	Sampled									•														
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 09:05 AM	2407EU29A	ALASKA CARGO	027-33149756	7/12/2024	7/15/2024		580-142027-1	7	7	S2BVEM	Sampled			•		•						•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 09:05 AM	2407AK29A	ALASKA CARGO	027-33482024	7/15/2024	7/16/2024		1243639	7	7	S2BVEM	Sampled												•											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 09:05 AM	2407SG29A	UNITED CARGO	016-38589740	7/12/2024	7/13/2024		FC17167	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 09:10 AM	2407AP29B	FEDEX	27756989772	7/26/2024	7/27/2024		24G0254	7	7	S2BVEM	Sampled	•						•																
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 09:10 AM	2407EN29B	UNITED CARGO	016-01626111	7/26/2024	7/27/2024		B24072301	7	7	S2BVEM	Sampled; No SGC																			•	•			
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 09:10 AM	2407EU29B	ALASKA CARGO	027-33482153	7/26/2024	7/27/2024		580-142445-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 09:10 AM	2407AK29B	ALASKA CARGO	027-33482120	7/29/2024	7/31/2024		1244063	7	7	S2BVEM	Sampled												•											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 09:10 AM	2407SG29B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 12:23 PM	2407AP10A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled									•														
	RHMW11-05	WL	RHMW11-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 12:23 PM	2407EU10A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 12:23 PM	2407AK10A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 12:23 PM	2407SG10A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW11-05	WL	RHMW11-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 02:00 PM	2407AP10B	FEDEX	277251259798	7/18/2024	7/19/2024		24G0172	7	7	S2BVEM	Sampled	•						•																
	RHMW11-05	WL	RHMW11-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 02:00 PM	2407EN10B	UNITED CARGO	016-01171472	7/17/2024	7/18/2024		B24071480	7	7	S2BVEM	Sampled; No SGC																			•	•			
	RHMW11-05	WL	RHMW11-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 02:00 PM	2407EU10B	ALASKA CARGO	027-33149885	7/17/2024	7/18/2024		580-142138-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	RHMW11-05	WL	RHMW11-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 02:00 PM	2407AK10B	ALASKA CARGO	027-33482046	7/17/2024	7/18/2024		1243721	7	7	S2BVEM	Sampled												•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 02:00 PM	2407SG10B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 10:55 AM	2407AP11A	FEDEX	277010313782	7/12/2024	7/13/2024		24G0117	7	7	S2BVEM	Sampled									•														
	RHMW12A	WL	RHMW12A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 10:55 AM	2407EU11A	ALASKA CARGO	027-33149756	7/12/2024	7/15/2024		580-142027-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW12A	WL	RHMW12A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 10:55 AM	2407AK11A	ALASKA CARGO	027-33482024	7/15/2024	7/16/2024		1243639	7	7	S2BVEM	Sampled												•											
	RHMW12A	WL	RHMW12A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-12 10:55 AM	2407SG11A	UNITED CARGO	016-38589740	7/12/2024	7/13/2024		FC17167	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW12A	WL	RHMW12A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:15 AM	2407AP11B	FEDEX	27756989772	7/26/2024	7/27/2024		24G0254	7	7	S2BVEM	Sampled	•						•																
	RHMW12A	WL	RHMW12A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:15 AM	2407EN11B	UNITED CARGO	016-01626111	7/26/2024	7/27/2024		B24072301	7	7	S2BVEM	Sampled; No SGC																			•	•			
	RHMW12A	WL	RHMW12A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:15 AM	2407EU11B	ALASKA CARGO	027-33482153	7/26/2024	7/27/2024		580-142445-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	RHMW12A	WL	RHMW12A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:15 AM	2407AK11B	ALASKA CARGO	027-33482120	7/29/2024	7/31/2024		1244063	7	7	S2BVEM	Sampled												•											
	RHMW12A	WL	RHMW12A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:15 AM	2407SG11B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 09:10 AM	2407AP13A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled									•														
	RHMW14-03	WL	RHMW14-03-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 09:10 AM	2407EU13A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 09:10 AM	2407AK13A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2407A	0	0	WG	N	1	G	2024-07-03 09:10 AM	2407SG13A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	RHMW14-03	WL	RHMW14-03-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 09:40 AM	2407AP13B	FEDEX	277251259798	7/18/2024	7/19/2024		24G0172	7	7	S2BVEM	Sampled	•						•																
	RHMW14-03	WL	RHMW14-03-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 09:40 AM	2407EN13B	UNITED CARGO	016-01171472	7/17/2024	7/18/2024		B24071480	7	7	S2BVEM	Sampled; No SGC																			•	•			
	RHMW14-03	WL	RHMW14-03-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 09:40 AM	2407EU13B	ALASKA CARGO	027-33149885	7/17/2024	7/18/2024		580-142138-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	RHMW14-03	WL	RHMW14-03-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 09:40 AM	2407AK13B	ALASKA CARGO	027-33482046	7/17/2024	7/18/2024		1243721	7	7	S2BVEM	Sampled												•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2407B	0	0	WG	N	1	G	2024-07-17 09:40 AM	2407SG13B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
																						S2BVEM Count	*4*	*8*	*0*	*8*	*6*	*6*	*8*	*0*	*6*	*8*	*8*	*6*	*4*	*0*	*4*	*8*	*6*	*6*	*4*	*4*	*6*	*6*
																						S4VEM Count	*0*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*2*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*2*	*2*	*0*	*0*	*2*	*2*
																						Site Location Count	*4*	*8*	*0*	*8*	*8*	*8*	*8*	*0*	*8*	*8*	*8*	*8*	*4*	*0*	*4*	*8*	*8*	*8*	*4*	*4*	*8*	*8*
	NMW25	WL	NMW25-WGN01B-2407A	0	0	WG	N	1	B	2024-07-10 10:15 AM	2407SG31A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024		FC17124	7	7	S2BVEM	Sampled																							•
	NMW25	WL	NMW25-WGN01B-2407B	0	0	WG	N	1	B	2024-07-26 10:25 AM	2407SG31B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled																							•
	NMW25	WL	NMW25-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 10:55 AM	2407AP31A	FEDEX	276920290607	7/10/2024	7/11/2024		24G0067	7	7	S4VEM	Sampled									•														
	NMW25	WL	NMW25-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 10:55 AM	2407EU31A	ALASKA CARGO	027-33149826	7/10/2024	7/11/2024		580-141951-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW25	WL	NMW25-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 10:55 AM	2407AK31A	ALASKA CARGO	027- 33149830	7/10/2024	7/11/2024		1243524	7	7	S2BVEM	Sampled												•											
	NMW25	WL	NMW25-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 10:55 AM	2407SG31A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024		FC17124	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	NMW25	WL	NMW25-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:11 AM	2407AP31B	FEDEX	27756989772	7/26/2024	7/27/2024		24G0254	7	7	S2BVEM	Sampled	•						•																
	NMW25	WL	NMW25-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:11 AM	2407EN31B	UNITED CARGO	016-01626111	7/26/2024	7/27/2024		B24072301	7	7	S2BVEM	Sampled; No SGC																			•	•			
	NMW25	WL	NMW25-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:11 AM	2407EU31B	ALASKA CARGO	027-33482153	7/26/2024	7/27/2024		580-142445-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	NMW25	WL	NMW25-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:11 AM	2407AK31B	ALASKA CARGO	027-33482120	7/29/2024	7/31/2024		1244063	7	7	S2BVEM	Sampled												•											
	NMW25	WL	NMW25-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-26 11:11 AM	2407SG31B	UNITED CARGO	016-07856391	7/26/2024	7/27/2024		FC17560	7	7	S4VEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	NMW26	WL	NMW26-WGN01B-2407A	0	0	WG	N	1	B	2024-07-08 08:50 AM	2407SG37A	UNITED CARGO	016-22898573	7/8/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled																							•
	NMW26	WL	NMW26-WGN01B-2407B	0	0	WG	N	1	B	2024-07-24 08:40 AM	2407SG37B	UNITED CARGO	016-01486310	7/24/2024	7/26/2024		FC17481	7	7	S2BVEM	Sampled																							•
	NMW26	WL	NMW26-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 12:40 PM	2407AP37A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled									•														
	NMW26	WL	NMW26-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 12:40 PM	2407EU37A	ALASKA CARGO	027-33149734	7/8/2024	7/9/2024		580-141848-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW26	WL	NMW26-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 12:40 PM	2407AK37A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•											
	NMW26	WL	NMW26-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 12:40 PM	2407SG37A	UNITED CARGO	016-22898573	7/8/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	NMW26	WL	NMW26-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 10:30 AM	2407AP37B	FEDEX	277477422254	7/24/2024	7/25/2024		24G0217	7	7	S2BVEM	Sampled	•						•																
	NMW26	WL	NMW26-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 10:30 AM	2407EN37B	UNITED CARGO	016-01620006	7/24/2024	7/25/2024		B24072118	7	7	S2BVEM	Sampled; No SGC																			•	•			
	NMW26	WL	NMW26-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 10:30 AM	2407EU37B	ALASKA CARGO	027-33482142	7/24/2024	7/25/2024		580-142367-1	7	7	S2BVEM	Sampled			•		•						•			•		•							
	NMW26	WL	NMW26-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 10:30 AM	2407AK37B	ALASKA CARGO	027-33482116	7/24/2024	7/25/2024		1243925	7	7	S2BVEM	Sampled												•											
	NMW26	WL	NMW26-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 10:30 AM	2407SG37B	UNITED CARGO	016-01486310	7/24/2024	7/26/2024		FC17481	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•			•	•
	NMW30	WL	NMW30-WGN01B-2407A	0	0	WG	N	1	B	2024-07-11 11:35 AM	2407SG35A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled																							•
	NMW30	WL	NMW30-WGN01B-2407B	0	0	WG	N	1	B	2024-07-25 08:20 AM	2407SG35B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled																							•
	NMW30	WL	NMW30-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 01:15 PM	2407AP35A	FEDEX	276967009631	7/11/2024	7/12/2024		24G0117	7	7	S2BVEM	Sampled									•														

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	ZBMEE (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)
	NMW30	WL	NMW30-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 01:15 PM	2407EU35A	ALASKA CARGO	027-33149793	7/11/2024	7/12/2024	(U) (4)	580-141989-1	7	7	S2BVEM	Sampled			•		•					•														
	NMW30	WL	NMW30-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 01:15 PM	2407AK35A	ALASKA CARGO	027-33149804	7/11/2024	7/12/2024		1243571	7	7	S2BVEM	Sampled												•							•						
	NMW30	WL	NMW30-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 01:15 PM	2407SG35A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	NMW30	WL	NMW30-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:30 AM	2407AP35B	FEDEX	277524464694	7/25/2024	7/26/2024		24G0231	7	7	S2BVEM	Sampled		•					•																	
	NMW30	WL	NMW30-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:30 AM	2407EN35B	UNITED CARGO	016-01622865	7/25/2024	7/26/2024		B24072275	7	7	S2BVEM	Sampled; No SGC																				•	•		
	NMW30	WL	NMW30-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:30 AM	2407EU35B	ALASKA CARGO	027-33482083	7/25/2024	7/26/2024		580-142404-1	7	7	S4VEM	Sampled			•		•					•				•										
	NMW30	WL	NMW30-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:30 AM	2407AK35B	ALASKA CARGO	027-33482131	7/25/2024	7/26/2024		1243950	7	7	S2BVEM	Sampled												•											
	NMW30	WL	NMW30-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:30 AM	2407SG35B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	NMW32	WL	NMW32-WGN01B-2407A	0	0	WG	N	1	B	2024-07-11 10:40 AM	2407SG32A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled																							•
	NMW32	WL	NMW32-WGN01B-2407B	0	0	WG	N	1	B	2024-07-25 08:55 AM	2407SG32B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled																							•
	NMW32	WL	NMW32-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 11:20 AM	2407AP32A	FEDEX	276967009631	7/11/2024	7/12/2024		24G0105	7	7	S2BVEM	Sampled								•															
	NMW32	WL	NMW32-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 11:20 AM	2407EU32A	ALASKA CARGO	027-33149793	7/11/2024	7/12/2024		580-141989-1	7	7	S2BVEM	Sampled			•		•					•														
	NMW32	WL	NMW32-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 11:20 AM	2407AK32A	ALASKA CARGO	027-33149804	7/11/2024	7/12/2024		1243571	7	7	S2BVEM	Sampled												•											
	NMW32	WL	NMW32-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 11:20 AM	2407SG32A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled					•	•				•									•	•			•	•
	NMW32	WL	NMW32-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:35 AM	2407AP32B	FEDEX	277524464694	7/25/2024	7/26/2024		24G0231	7	7	S2BVEM	Sampled		•					•																	
	NMW32	WL	NMW32-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:35 AM	2407EN32B	UNITED CARGO	016-01622865	7/25/2024	7/26/2024		B24072275	7	7	S2BVEM	Sampled; No SGC																				•	•		
	NMW32	WL	NMW32-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:35 AM	2407EU32B	ALASKA CARGO	027-33482083	7/25/2024	7/26/2024		580-142404-1	7	7	S4VEM	Sampled			•		•					•				•										
	NMW32	WL	NMW32-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:35 AM	2407AK32B	ALASKA CARGO	027-33482131	7/25/2024	7/26/2024		1243950	7	7	S2BVEM	Sampled												•											
	NMW32	WL	NMW32-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 09:35 AM	2407SG32B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	NMW33	WL	NMW33-WGN01B-2407A	0	0	WG	N	1	B	2024-07-11 08:30 AM	2407SG34A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled																							•
	NMW33	WL	NMW33-WGN01B-2407B	0	0	WG	N	1	B	2024-07-25 11:05 AM	2407SG34B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled																							•
	NMW33	WL	NMW33-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 08:50 AM	2407AP34A	FEDEX	276967009631	7/11/2024	7/12/2024		24G0105	7	7	S2BVEM	Sampled								•															
	NMW33	WL	NMW33-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 08:50 AM	2407EU34A	ALASKA CARGO	027-33149793	7/11/2024	7/12/2024		580-141989-1	7	7	S2BVEM	Sampled			•		•					•														
	NMW33	WL	NMW33-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 08:50 AM	2407AK34A	ALASKA CARGO	027-33149804	7/11/2024	7/12/2024		1243571	7	7	S2BVEM	Sampled												•											
	NMW33	WL	NMW33-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 08:50 AM	2407SG34A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled; No SGC					•	•				•									•	•			•	•
	NMW33	WL	NMW33-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 11:40 AM	2407AP34B	FEDEX	277524464694	7/25/2024	7/26/2024		24G0231	7	7	S2BVEM	Sampled		•					•																	
	NMW33	WL	NMW33-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 11:40 AM	2407EN34B	UNITED CARGO	016-01622865	7/25/2024	7/26/2024		B24072275	7	7	S2BVEM	Sampled; No SGC																				•	•		
	NMW33	WL	NMW33-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 11:40 AM	2407EU34B	ALASKA CARGO	027-33482083	7/25/2024	7/26/2024		580-142404-1	7	7	S4VEM	Sampled			•		•					•				•										
	NMW33	WL	NMW33-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 11:40 AM	2407AK34B	ALASKA CARGO	027-33482131	7/25/2024	7/26/2024		1243950	7	7	S2BVEM	Sampled												•											
	NMW33	WL	NMW33-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 11:40 AM	2407SG34B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	NMW34	WL	NMW34-WGN01B-2407A	0	0	WG	N	1	B	2024-07-09 08:40 AM	2407SG39A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled																							•
	NMW34	WL	NMW34-WGN01B-2407B	0	0	WG	N	1	B	2024-07-23 08:12 AM	2407SG39B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled																							•
	NMW34	WL	NMW34-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407AP39A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled																							
	NMW34	WL	NMW34-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407EU39A	ALASKA CARGO	027-33149712	7/9/2024	7/10/2024		580-141892-1	7	7	S2BVEM	Sampled			•		•					•														
	NMW34	WL	NMW34-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407AK39A	ALASKA CARGO	027-33149815	7/9/2024	7/10/2024		1243475	7	7	S2BVEM	Sampled												•											
	NMW34	WL	NMW34-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407SG39A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	NMW34	WL	NMW34-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 08:55 AM	2407AP39B	FEDEX	277430368623	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		•					•																	
	NMW34	WL	NMW34-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 08:55 AM	2407EN39B	UNITED CARGO	016-01486354	7/23/2024	7/24/2024		B24072012	7	7	S2BVEM	Sampled; No SGC																				•	•		
	NMW34	WL	NMW34-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 08:55 AM	2407EU39B	ALASKA CARGO	027-33482050	7/23/2024	7/24/2024		580-142335-1	7	7	S2BVEM	Sampled			•		•					•				•										
	NMW34	WL	NMW34-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 08:55 AM	2407AK39B	ALASKA CARGO	027-33482094	7/23/2024	7/24/2024		1243878	7	7	S2BVEM	Sampled												•											
	NMW34	WL	NMW34-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 08:55 AM	2407SG39B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:30 AM	2407AP40A	FEDEX	276920290607	7/10/2024	7/11/2024		24G0067	7	7	S4VEM	Sampled								•															
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:30 AM	2407EU40A	ALASKA CARGO	027-33149826	7/10/2024	7/11/2024		580-141951-1	7	7	S2BVEM	Sampled			•		•					•				•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:30 AM	2407AK40A	ALASKA CARGO	027- 33149830	7/10/2024	7/11/2024		1243524	7	7	S2BVEM	Sampled												•											
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 09:30 AM	2407SG40A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024		FC17124	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 09:10 AM	2407AP40B	FEDEX	277477422254	7/24/2024	7/25/2024		24G0217	7	7	S2BVEM	Sampled		•					•																	
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 09:10 AM	2407EN40B	UNITED CARGO	016-01620006	7/24/2024	7/25/2024		B24072118	7	7	S2BVEM	Sampled; No SGC																				•	•		
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 09:10 AM	2407EU40B	ALASKA CARGO	027-33482142	7/24/2024	7/25/2024		580-142367-1	7	7	S2BVEM	Sampled			•		•					•				•										
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 09:10 AM	2407AK40B	ALASKA CARGO	027-33482116	7/24/2024	7/25/2024		1243925	7	7	S2BVEM	Sampled												•											
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 09:10 AM	2407SG40B	UNITED CARGO	016-01486310	7/24/2024	7/26/2024		FC17481	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 11:05 AM	2407AP41A	FEDEX	276920290607	7/10/2024	7/11/2024		24G0067	7	7	S4VEM	Sampled								•															
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 11:05 AM	2407EU41A	ALASKA CARGO	027-33149826	7/10/2024	7/11/2024		580-141951-1	7	7	S2BVEM	Sampled			•		•					•				•										
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 11:05 AM	2407AK41A	ALASKA CARGO	027- 33149830	7/10/2024	7/11/2024		1243524	7	7	S2BVEM	Sampled												•											
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-10 11:05 AM	2407SG41A	UNITED CARGO	016-23126515	7/10/2024	7/12/2024		FC17124	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 11:15 AM	2407AP41B	FEDEX	277477422254	7/24/2024	7/25/2024		24G0217	7	7	S2BVEM	Sampled		•					•																	
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 11:15 AM	2407EN41B	UNITED CARGO	016-01620006	7/24/2024	7/25/2024		B24072118	7	7	S2BVEM	Sampled; No SGC																				•	•		
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 11:15 AM	2407EU41B	ALASKA CARGO	027-33482142	7/24/2024	7/25/2024		580-142367-1	7	7	S2BVEM	Sampled			•		•					•				•										
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 11:15 AM	2407AK41B	ALASKA CARGO	027-33482116	7/24/2024	7/25/2024		1243925	7	7	S2BVEM	Sampled												•											
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-24 11:15 AM	2407SG41B	UNITED CARGO	016-01486310	7/24/2024	7/26/2024		FC17481	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•			•	•
	RHMW01R	WL	RHMW01R-WGFD01B-2407A	0	0	WG	FD	1	B	2024-07-01 09:15 AM	2407SG01A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGFD01B-2407B	0	0	WG	FD	1	B	2024-07-15 09:05 AM	2407SG01B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGFD01LF-2407A	0	0	WG	FD	1	LF	2024-07-01 09:50 AM	2407SG01A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 09:30 AM	2407AP01B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		•					•																	
	RHMW01R	WL	RHMW01R-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 09:30 AM	2407EN01B	UNITED CARGO	016-01170422	7/15/2024	7/16/2024		B24071277	7	7	S2BVEM	Sampled																				•	•		
	RHMW01R	WL	RHMW01R-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 09:30 AM	2407SG01B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGN01B-2407A	0	0	WG	N	1	B	2024-07-01 09:15 AM	2407SG01A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGN01B-2407B	0	0	WG	N	1	B	2024-07-15 09:05 AM	2407SG01B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:50 AM	2407AP01A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled								•															
	RHMW01R	WL	RHMW01R-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:50 AM	2407EU01A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			•		•					•				•										
	RHMW01R	WL	RHMW01R-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:50 AM	2407AK01A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S2BVEM	Sampled												•											
	RHMW01R	WL	RHMW01R-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:50 AM	2407SG01A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled					•	•				•			•					•	•			•	•
	RHMW01R	WL	RHMW01R-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 09:30 AM	2407AP01B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		•					•																	
	RHMW01R	WL	RHMW01R-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 09:30 AM	2407EN01B	UNITED CARGO	016-01170422	7/15/2024	7/16/2024		B24071277	7	7	S2BVEM	Sampled																				•	•		
	RHMW01R	WL	RHMW01R-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 09:30 AM	2407EU01B	ALASKA CARGO	027-34482013	7/15/2024	7/16/2024		580-142059-1	7	7	S4VEM	Sampled			•		•					•				•										
	RHMW01R	WL	RHMW01R-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 09:30 AM	2407AK01B	ALASKA CARGO	027-33482024	7/15/2024	7/16/2024		1243639	7	7	S2BVEM	Sampled												•											
	RHMW01R	WL	RHMW01R-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 09:30 AM	2407SG01B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled					•	•				•			•					•	•			•	•
	RHMW02	WL	RHMW02-WGFD01B-2407A	0	0	WG	FD	1	B	2024-07-01 11:00 AM	2407SG02A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01B-2407B	0	0	WG	FD	1	B	2024-07-15 11:15 AM	2407SG02B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01LF-2407A	0	0	WG	FD	1	LF	2024-07-01 11:30 AM	2407SG02A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled					•					•			•					•	•			•	•
	RHMW02	WL	RHMW02-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 11:45 AM	2407AP02B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		•					•																	

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	2MEE (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 Silica Gel Energy (SW8015C)	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)
	RHMW02	WL	RHMW02-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 11:45 AM	2407EN02B	UNITED CARGO	016-01170422	7/15/2024	7/16/2024	(b) (4)	B24071277	7	7	S2BVEM	Sampled																								
	RHMW02	WL	RHMW02-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-15 11:45 AM	2407SG02B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled					•							•							•	•		•	•
	RHMW02	WL	RHMW02-WGN01B-2407A	0	0	WG	N	1	B	2024-07-01 11:00 AM	2407SG02A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																								
	RHMW02	WL	RHMW02-WGN01B-2407B	0	0	WG	N	1	B	2024-07-15 11:15 AM	2407SG02B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																								•
	RHMW02	WL	RHMW02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 11:30 AM	2407AP02A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled						•																	
	RHMW02	WL	RHMW02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 11:30 AM	2407EU02A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			•		•							•												
	RHMW02	WL	RHMW02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 11:30 AM	2407AK02A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S4VEM	Sampled													•											
	RHMW02	WL	RHMW02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 11:30 AM	2407SG02A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled					•	•					•		•								•	•	
	RHMW02	WL	RHMW02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 11:45 AM	2407AP02B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		•				•																		
	RHMW02	WL	RHMW02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 11:45 AM	2407EN02B	UNITED CARGO	016-01170422	7/15/2024	7/16/2024		B24071277	7	7	S2BVEM	Sampled																						•	•	
	RHMW02	WL	RHMW02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 11:45 AM	2407EU02B	ALASKA CARGO	027-33482013	7/15/2024	7/16/2024		580-142059-1	7	7	S4VEM	Sampled			•		•							•			•		•						
	RHMW02	WL	RHMW02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 11:45 AM	2407AK02B	ALASKA CARGO	027-33482024	7/15/2024	7/16/2024		1243639	7	7	S2BVEM	Sampled													•											
	RHMW02	WL	RHMW02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 11:45 AM	2407SG02B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled					•	•					•		•								•	•	
	RHMW03	WL	RHMW03-WGN01B-2407A	0	0	WG	N	1	B	2024-07-02 08:35 AM	2407SG03A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled																								
	RHMW03	WL	RHMW03-WGN01B-2407B	0	0	WG	N	1	B	2024-07-16 08:50 AM	2407SG03B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled																								•
	RHMW03	WL	RHMW03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407AP03A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled						•																		
	RHMW03	WL	RHMW03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407EU03A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			•		•							•												
	RHMW03	WL	RHMW03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407AK03A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled													•											
	RHMW03	WL	RHMW03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407SG03A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•			
	RHMW03	WL	RHMW03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:30 AM	2407AP03B	FEDEX	277200115626	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		•				•																		
	RHMW03	WL	RHMW03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:30 AM	2407EN03B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled																						•	•	
	RHMW03	WL	RHMW03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:30 AM	2407EU03B	ALASKA CARGO	027-33482061	7/16/2024	7/17/2024		580-142099-1	7	7	S2BVEM	Sampled			•		•							•			•		•						
	RHMW03	WL	RHMW03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:30 AM	2407AK03B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled													•											
	RHMW03	WL	RHMW03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:30 AM	2407SG03B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW04	WL	RHMW04-WGN01B-2407A	0	0	WG	N	1	B	2024-07-09 08:15 AM	2407SG04A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled																								•
	RHMW04	WL	RHMW04-WGN01B-2407B	0	0	WG	N	1	B	2024-07-23 08:30 AM	2407SG04B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled																								•
	RHMW04	WL	RHMW04-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407AP04A	FEDEX	276920290607	7/10/2024	7/11/2024		24G0067	7	7	S4VEM	Sampled						•																		
	RHMW04	WL	RHMW04-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407EU04A	ALASKA CARGO	027-33149712	7/9/2024	7/10/2024		580-141892-1	7	7	S2BVEM	Sampled			•		•							•												
	RHMW04	WL	RHMW04-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407AK04A	ALASKA CARGO	027-33149815	7/9/2024	7/10/2024		1243475	7	7	S2BVEM	Sampled													•											
	RHMW04	WL	RHMW04-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 09:15 AM	2407SG04A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW04	WL	RHMW04-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 09:15 AM	2407AP04B	FEDEX	277430368623	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		•				•																		
	RHMW04	WL	RHMW04-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 09:15 AM	2407EN04B	UNITED CARGO	016-01486354	7/23/2024	7/24/2024		B24072012	7	7	S2BVEM	Sampled; No SGC																						•	•	
	RHMW04	WL	RHMW04-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 09:15 AM	2407EU04B	ALASKA CARGO	027-33482050	7/23/2024	7/24/2024		580-142335-1	7	7	S2BVEM	Sampled			•		•							•			•		•						
	RHMW04	WL	RHMW04-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 09:15 AM	2407AK04B	ALASKA CARGO	027-33482094	7/23/2024	7/24/2024		1243878	7	7	S2BVEM	Sampled													•											
	RHMW04	WL	RHMW04-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 09:15 AM	2407SG04B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW05	WL	RHMW05-WGN01B-2407A	0	0	WG	N	1	B	2024-07-03 10:17 AM	2407SG05A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled																								•
	RHMW05	WL	RHMW05-WGN01B-2407B	0	0	WG	N	1	B	2024-07-17 11:10 AM	2407SG05B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled																								•
	RHMW05	WL	RHMW05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:45 AM	2407AP05A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled						•																		
	RHMW05	WL	RHMW05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:45 AM	2407EU05A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•							•												
	RHMW05	WL	RHMW05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:45 AM	2407AK05A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled													•											
	RHMW05	WL	RHMW05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:45 AM	2407SG05A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled					•	•					•		•						•	•		•	•
	RHMW05	WL	RHMW05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 11:35 AM	2407AP05B	FEDEX	277251259798	7/18/2024	7/19/2024		24G0172	7	7	S2BVEM	Sampled		•				•																		
	RHMW05	WL	RHMW05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 11:35 AM	2407EN05B	UNITED CARGO	016-01171472	7/17/2024	7/18/2024		B24071480	7	7	S2BVEM	Sampled; No SGC																						•	•	
	RHMW05	WL	RHMW05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 11:35 AM	2407EU05B	ALASKA CARGO	027-33149885	7/17/2024	7/18/2024		580-142138-1	7	7	S2BVEM	Sampled			•		•							•			•		•						
	RHMW05	WL	RHMW05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 11:35 AM	2407AK05B	ALASKA CARGO	027-33482046	7/17/2024	7/18/2024		1243721	7	7	S2BVEM	Sampled													•											
	RHMW05	WL	RHMW05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 11:35 AM	2407SG05B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled					•	•					•		•						•	•		•	•
	RHMW06	WL	RHMW06-WGN01B-2407A	0	0	WG	N	1	B	2024-07-01 10:20 AM	2407SG06A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																								•
	RHMW06	WL	RHMW06-WGN01B-2407B	0	0	WG	N	1	B	2024-07-18 01:15 PM	2407SG06B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled																								•
	RHMW06	WL	RHMW06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 10:55 AM	2407AP06A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled						•																		
	RHMW06	WL	RHMW06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 10:55 AM	2407EU06A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			•		•							•												
	RHMW06	WL	RHMW06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 10:55 AM	2407AK06A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S4VEM	Sampled													•											
	RHMW06	WL	RHMW06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 10:55 AM	2407SG06A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW06	WL	RHMW06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:50 PM	2407AP06B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•				•																		
	RHMW06	WL	RHMW06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:50 PM	2407EN06B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																						•	•	
	RHMW06	WL	RHMW06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:50 PM	2407EU06B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			•		•							•			•		•						
	RHMW06	WL	RHMW06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:50 PM	2407AK06B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled													•											
	RHMW06	WL	RHMW06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:50 PM	2407SG06B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW08	WL	RHMW08-WGN01B-2407A	0	0	WG	N	1	B	2024-07-01 08:25 AM	2407SG07A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																								•
	RHMW08	WL	RHMW08-WGN01B-2407B	0	0	WG	N	1	B	2024-07-15 11:20 AM	2407SG07B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled																								•
	RHMW08	WL	RHMW08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:15 AM	2407AP07A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled						•																		
	RHMW08	WL	RHMW08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:15 AM	2407EU07A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			•		•							•												
	RHMW08	WL	RHMW08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:15 AM	2407AK07A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S4VEM	Sampled													•											
	RHMW08	WL	RHMW08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 09:15 AM	2407SG07A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW08	WL	RHMW08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 12:25 PM	2407AP07B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		•				•																		
	RHMW08	WL	RHMW08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 12:25 PM	2407EN07B	UNITED CARGO	016-01170422	7/15/2024	7/16/2024		B24071277	7	7	S2BVEM	Sampled																						•	•	
	RHMW08	WL	RHMW08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 12:25 PM	2407EU07B	ALASKA CARGO	027-33482013	7/15/2024	7/16/2024		580-142059-1	7	7	S4VEM	Sampled			•		•							•			•		•						
	RHMW08	WL	RHMW08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 12:25 PM	2407AK07B	ALASKA CARGO	027- 3482024	7/15/2024	7/16/2024		1243639	7	7	S2BVEM	Sampled													•											
	RHMW08	WL	RHMW08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-15 12:25 PM	2407SG07B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW09	WL	RHMW09-WGN01B-2407A	0	0	WG	N	1	B	2024-07-02 10:15 AM	2407SG08A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled																								•
	RHMW09	WL	RHMW09-WGN01B-2407B	0	0	WG	N	1	B	2024-07-16 08:40 AM	2407SG08B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled																								•
	RHMW09	WL	RHMW09-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:55 AM	2407AP08A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled						•																		
	RHMW09	WL	RHMW09-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:55 AM	2407EU08A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			•		•							•												
	RHMW09	WL	RHMW09-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:55 AM	2407AK08A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled													•											
	RHMW09	WL	RHMW09-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:55 AM	2407SG08A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW09	WL	RHMW09-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:15 AM	2407AP08B	FEDEX	277200115626	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		•				•																		
	RHMW09	WL	RHMW09-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:15 AM	2407EN08B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled; No SGC																						•	•	
	RHMW09	WL	RHMW09-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:15 AM	2407EU08B	ALASKA CARGO	027-33482061	7/16/2024	7/17/2024		580-142099-1	7	7	S2BVEM	Sampled			•		•							•			•		•						
	RHMW09	WL	RHMW09-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:15 AM	2407AK08B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled													•											
	RHMW09	WL	RHMW09-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 09:15 AM	2407SG08B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•		•	•
	RHMW10	WL	RHMW10-WGN01B-2407A	0	0	WG	N	1	B	2024-07-05 08:40 AM	2407SG09A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled																								•

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	Z2M:EE (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)
Red Hill Bulk Fuel Storage Facility	RHMW10	WL	RHMW10-WGN01B-2407B	0	0	WG	N	1	B	2024-07-19 10:40 AM	2407SG09B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024	(b) (4)	FC17308	7	7	S2BVEM	Sampled																								*
	RHMW10	WL	RHMW10-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:25 AM	2407AP10A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled								*																
	RHMW10	WL	RHMW10-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:25 AM	2407EU09A	ALASKA CARGO	027-32862605	7/5/2024	7/6/2024		580-141818-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW10	WL	RHMW10-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:25 AM	2407AK09A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												*							*					
	RHMW10	WL	RHMW10-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:25 AM	2407SG09A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW10	WL	RHMW10-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:30 AM	2407AP09B	FEDEX	27729389842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		*						*																
	RHMW10	WL	RHMW10-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:30 AM	2407EN09B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					*	*		
	RHMW10	WL	RHMW10-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:30 AM	2407EU09B	ALASKA CARGO	027-33149896	7/19/2024	7/20/2024		580-142246-1	7	7	S2BVEM	Sampled			*		*							*				*		*						
	RHMW10	WL	RHMW10-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:30 AM	2407AK09B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												*							*					
	RHMW10	WL	RHMW10-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:30 AM	2407SG09B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW13-04	WL	RHMW13-04-WGN01G-2407A	0	0	WG	N	1	G	2024-07-08 09:45 AM	2407AP12A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled								*																
	RHMW13-04	WL	RHMW13-04-WGN01G-2407A	0	0	WG	N	1	G	2024-07-08 09:45 AM	2407EU12A	ALASKA CARGO	027-33149734	7/8/2024	7/9/2024		580-141848-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW13-04	WL	RHMW13-04-WGN01G-2407A	0	0	WG	N	1	G	2024-07-08 09:45 AM	2407AK12A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												*							*					
	RHMW13-04	WL	RHMW13-04-WGN01G-2407A	0	0	WG	N	1	G	2024-07-08 09:45 AM	2407SG12A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW13-04	WL	RHMW13-04-WGN01G-2407B	0	0	WG	N	1	G	2024-07-22 09:50 AM	2407AP12B	FEDEX	. 277430368623	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		*						*																
	RHMW13-04	WL	RHMW13-04-WGN01G-2407B	0	0	WG	N	1	G	2024-07-22 09:50 AM	2407EN12B	UNITED CARGO	016-01486343	7/22/2024	7/23/2024		B24071879	7	7	S2BVEM	Sampled; No SGC																					*	*		
	RHMW13-04	WL	RHMW13-04-WGN01G-2407B	0	0	WG	N	1	G	2024-07-22 09:50 AM	2407EU12B	ALASKA CARGO	027-33149875	7/22/2024	7/23/2024		580-142298-1	7	7	S2BVEM	Sampled			*		*							*				*		*						
	RHMW13-04	WL	RHMW13-04-WGN01G-2407B	0	0	WG	N	1	G	2024-07-22 09:50 AM	2407AK12B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												*							*					
	RHMW13-04	WL	RHMW13-04-WGN01G-2407B	0	0	WG	N	1	G	2024-07-22 09:50 AM	2407SG12B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW15-05	WL	RHMW15-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-01 10:20 AM	2407AP14A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled								*																
	RHMW15-05	WL	RHMW15-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-01 10:20 AM	2407EU14A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			*		*							*												
	RHMW15-05	WL	RHMW15-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-01 10:20 AM	2407AK14A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S4VEM	Sampled												*							*					
	RHMW15-05	WL	RHMW15-05-WGN01G-2407A	0	0	WG	N	1	G	2024-07-01 10:20 AM	2407SG14A	UNITED CARGO	016-43265611	7/1/2024	7/2/2024		FC16926	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW15-05	WL	RHMW15-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-15 10:00 AM	2407AP14B	FEDEX	277146674569	7/16/2024	7/17/2024		24G0137	7	7	S2BVEM	Sampled		*						*																
	RHMW15-05	WL	RHMW15-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-15 10:00 AM	2407EN14B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled; No SGC																					*	*		
	RHMW15-05	WL	RHMW15-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-15 10:00 AM	2407EU14B	ALASKA CARGO	027-34482013	7/15/2024	7/16/2024		580-142059-1	7	7	S4VEM	Sampled			*		*							*				*		*						
	RHMW15-05	WL	RHMW15-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-15 10:00 AM	2407AK14B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled												*							*					
	RHMW15-05	WL	RHMW15-05-WGN01G-2407B	0	0	WG	N	1	G	2024-07-15 10:00 AM	2407SG14B	UNITED CARGO	016-01170315	7/15/2024	7/17/2024		FC17231	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW16	WL	RHMW16-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:00 AM	2407AP15A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled								*																
	RHMW16	WL	RHMW16-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:00 AM	2407EU15A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW16	WL	RHMW16-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:00 AM	2407AK15A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled												*							*					
	RHMW16	WL	RHMW16-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:00 AM	2407SG15A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW16	WL	RHMW16-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 11:55 AM	2407AP15B	FEDEX	27729389842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		*						*																
	RHMW16	WL	RHMW16-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 11:55 AM	2407EN15B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					*	*		
	RHMW16	WL	RHMW16-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 11:55 AM	2407EU15B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			*		*							*				*		*						
	RHMW16	WL	RHMW16-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 11:55 AM	2407AK15B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled												*							*					
	RHMW16	WL	RHMW16-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 11:55 AM	2407SG15B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW17	WL	RHMW17-WGFD01B-2407A	0	0	WG	FD	1	B	2024-07-08 12:55 PM	2407SG16A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled																								*
	RHMW17	WL	RHMW17-WGFD01B-2407B	0	0	WG	FD	1	B	2024-07-22 10:30 AM	2407SG16B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled																								*
	RHMW17	WL	RHMW17-WGFD01LF-2407A	0	0	WG	FD	1	LF	2024-07-08 01:25 PM	2407SG16A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC						*								*						*				*
	RHMW17	WL	RHMW17-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-22 11:00 AM	2407AP16B	FEDEX	27738105550 9	7/22/2024	7/23/2024		24G0184	7	7	S2BVEM	Sampled		*																						
	RHMW17	WL	RHMW17-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-22 11:00 AM	2407EN16B	UNITED CARGO	016-01486343	7/22/2024	7/23/2024		B24071879	7	7	S2BVEM	Sampled																					*	*		
	RHMW17	WL	RHMW17-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-22 11:00 AM	2407SG16B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW17	WL	RHMW17-WGN01B-2407A	0	0	WG	N	1	B	2024-07-08 12:55 PM	2407SG16A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled																								*
	RHMW17	WL	RHMW17-WGN01B-2407B	0	0	WG	N	1	B	2024-07-22 10:30 AM	2407SG16B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled																								*
	RHMW17	WL	RHMW17-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 01:25 PM	2407AP16A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled								*																
	RHMW17	WL	RHMW17-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 01:25 PM	2407EU16A	ALASKA CARGO	027-33149734	7/8/2024	7/9/2024		580-141848-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW17	WL	RHMW17-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 01:25 PM	2407AK16A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												*							*					
	RHMW17	WL	RHMW17-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-08 01:25 PM	2407SG16A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW17	WL	RHMW17-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 11:00 AM	2407AP16B	FEDEX	27738105550 9	7/22/2024	7/23/2024		24G0184	7	7	S2BVEM	Sampled		*																						
	RHMW17	WL	RHMW17-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 11:00 AM	2407EN16B	UNITED CARGO	016-01486343	7/22/2024	7/23/2024		B24071879	7	7	S2BVEM	Sampled; No SGC																					*	*		
	RHMW17	WL	RHMW17-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 11:00 AM	2407EU16B	ALASKA CARGO	027-33149875	7/22/2024	7/23/2024		580-142298-1	7	7	S2BVEM	Sampled			*		*							*				*		*						
	RHMW17	WL	RHMW17-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 11:00 AM	2407AK16B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												*							*					
	RHMW17	WL	RHMW17-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 11:00 AM	2407SG16B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW18	WL	RHMW18-WGN01B-2407A	0	0	WG	N	1	B	2024-07-11 08:45 AM	2407SG36A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled																								*
	RHMW18	WL	RHMW18-WGN01B-2407B	0	0	WG	N	1	B	2024-07-25 11:45 AM	2407SG36B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled																								*
	RHMW18	WL	RHMW18-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 10:00 AM	2407AP36A	FEDEX	276967009631	7/11/2024	7/12/2024		24G0105	7	7	S2BVEM	Sampled								*																
	RHMW18	WL	RHMW18-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 10:00 AM	2407EU36A	ALASKA CARGO	027-33149793	7/11/2024	7/12/2024		580-141989-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW18	WL	RHMW18-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 10:00 AM	2407AK36A	ALASKA CARGO	027-33149804	7/11/2024	7/12/2024		1243571	7	7	S2BVEM	Sampled												*							*					
	RHMW18	WL	RHMW18-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-11 10:00 AM	2407SG36A	UNITED CARGO	016-38589736	7/11/2024	7/13/2024		FC17165	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW18	WL	RHMW18-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 01:15 PM	2407AP36B	FEDEX	277565989772	7/26/2024	7/27/2024		24G0254	7	7	S2BVEM	Sampled		*						*																
	RHMW18	WL	RHMW18-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 01:15 PM	2407EN36B	UNITED CARGO	016-01622865	7/25/2024	7/26/2024		B24072275	7	7	S2BVEM	Sampled																					*	*		
	RHMW18	WL	RHMW18-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 01:15 PM	2407EU36B	ALASKA CARGO	027-33482083	7/25/2024	7/26/2024		580-142404-1	7	7	S4VEM	Sampled			*		*							*				*		*						
	RHMW18	WL	RHMW18-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 01:15 PM	2407AK36B	ALASKA CARGO	027-33482131	7/25/2024	7/26/2024		1243950	7	7	S2BVEM	Sampled												*							*					
	RHMW18	WL	RHMW18-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-25 01:15 PM	2407SG36B	UNITED CARGO	016-01486321	7/25/2024	7/27/2024		FC17546	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW19	WL	RHMW19-WGN01B-2407A	0	0	WG	N	1	B	2024-07-02 08:15 AM	2407SG17A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled																								*
	RHMW19	WL	RHMW19-WGN01B-2407B	0	0	WG	N	1	B	2024-07-16 10:35 AM	2407SG17B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled																								*
	RHMW19	WL	RHMW19-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407AP17A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled								*																
	RHMW19	WL	RHMW19-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407EU17A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			*		*							*												
	RHMW19	WL	RHMW19-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407AK17A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled												*							*					
	RHMW19	WL	RHMW19-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 09:05 AM	2407SG17A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW19	WL	RHMW19-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:30 AM	2407AP17B	FEDEX	277200115662 6	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		*						*																
	RHMW19	WL	RHMW19-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:30 AM	2407EN17B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled; No SGC																					*	*		
	RHMW19	WL	RHMW19-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:30 AM	2407EU17B	ALASKA CARGO	027-33482061	7/16/2024	7/17/2024		580-142099-1	7	7	S2BVEM	Sampled			*		*							*				*		*						
	RHMW19	WL	RHMW19-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:30 AM	2407AK17B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled												*							*					
	RHMW19	WL	RHMW19-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:30 AM	2407SG17B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled; No SGC					*	*				*				*					*	*			*	*
	RHMW20	WL	RHMW20-WGN01B-2407B	0	0	WG	N	1	B	2024-07-23 10:15 AM	2407SG18B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled																								*
	RHMW20	WL	RHMW20-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 01:00 PM	2407AP18A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled								*																
	RHMW20	WL	RHMW20-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 01:00 PM	2407EU18A	ALASKA CARGO	027-33149712	7/9/2024	7/10/2024		580-141892-1	7	7	S2BVEM	Sampled			*		*							*												

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	2MEE (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 Silica Gel 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)
	RHMW20	WL	RHMW20-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 01:00 PM	2407AK18A	ALASKA CARGO	027-33149815	7/9/2024	7/10/2024	(b) (4)	1243475	7	7	S2BVEM	Sampled												•											
	RHMW20	WL	RHMW20-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 01:00 PM	2407SG18A	UNITED CARGO	016-22896573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHMW20	WL	RHMW20-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:05 AM	2407AP18B	FEDEX	277430368623	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		•					•																	
	RHMW20	WL	RHMW20-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:05 AM	2407EN18B	UNITED CARGO	016-01486354	7/23/2024	7/24/2024		B24072012	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHMW20	WL	RHMW20-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:05 AM	2407EU18B	ALASKA CARGO	027-33482050	7/23/2024	7/24/2024		580-142335-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHMW20	WL	RHMW20-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:05 AM	2407AK18B	ALASKA CARGO	027-33482094	7/23/2024	7/24/2024		1243878	7	7	S2BVEM	Sampled													•					•					
	RHMW20	WL	RHMW20-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:05 AM	2407SG18B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHMW21	WL	RHMW21-WGN01B-2407B	0	0	WG	N	1	B	2024-07-22 09:07 AM	2407SG43B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled																							•
	RHMW21	WL	RHMW21-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 10:35 AM	2407AP43B	FEDEX	277381055509	7/22/2024	7/23/2024		24G0184	7	7	S2BVEM	Sampled		•					•							•										
	RHMW21	WL	RHMW21-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 10:35 AM	2407EN43B	UNITED CARGO	016-01486343	7/22/2024	7/23/2024		B24071879	7	7	S2BVEM	Sampled																					•	•		
	RHMW21	WL	RHMW21-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 10:35 AM	2407EU43B	ALASKA CARGO	027-33149875	7/22/2024	7/23/2024		580-142298-1	7	7	S2BVEM	Sampled			•	•			•		•			•		•		•							
	RHMW21	WL	RHMW21-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 10:35 AM	2407AK43B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled													•					•					
	RHMW21	WL	RHMW21-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-22 10:35 AM	2407SG43B	UNITED CARGO	016-01413720	7/22/2024	7/23/2024		FC17379	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2407A	0	0	WG	N	1	B	2024-07-02 10:40 AM	2407SG19A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled																							•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2407B	0	0	WG	N	1	B	2024-07-16 11:40 AM	2407SG19B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled																							•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 11:00 AM	2407AP19A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled																							
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 11:00 AM	2407EU19A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 11:00 AM	2407AK19A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled													•					•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 11:00 AM	2407SG19A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:55 AM	2407AP19B	FEDEX	277200115626	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		•					•																	
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:55 AM	2407EN19B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled; No SGC																					•	•		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:55 AM	2407EU18B	ALASKA CARGO	027-33482061	7/16/2024	7/17/2024		580-142099-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:55 AM	2407AK19B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled													•					•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-16 11:55 AM	2407SG19B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP01	WL	RHP01-WGN01B-2407A	0	0	WG	N	1	B	2024-07-01 12:20 PM	2407SG21A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled																							•
	RHP01	WL	RHP01-WGN01B-2407B	0	0	WG	N	1	B	2024-07-18 08:55 AM	2407SG21B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled																							•
	RHP01	WL	RHP01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 12:45 PM	2407AP21A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled																							
	RHP01	WL	RHP01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 12:45 PM	2407EU21A	ALASKA CARGO	027-33149686	7/1/2024	7/2/2024		580-141677-1	7	7	S4VEM	Sampled			•		•							•												
	RHP01	WL	RHP01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 12:45 PM	2407AK21A	ALASKA CARGO	027- 33149686	7/1/2024	7/2/2024		1243280	7	7	S4VEM	Sampled													•					•					
	RHP01	WL	RHP01-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-01 12:45 PM	2407SG21A	UNITED CARGO	016-43265611	7/1/2024	7/3/2024		FC16926	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP01	WL	RHP01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:35 AM	2407AP21B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•					•																	
	RHP01	WL	RHP01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:35 AM	2407EN21B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled																					•	•		
	RHP01	WL	RHP01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:35 AM	2407EU21B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHP01	WL	RHP01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:35 AM	2407AK21B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled													•					•					
	RHP01	WL	RHP01-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:35 AM	2407SG21B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP02	WL	RHP02-WGN01B-2407A	0	0	WG	N	1	B	2024-07-02 10:00 AM	2407SG22A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled																							•
	RHP02	WL	RHP02-WGN01B-2407B	0	0	WG	N	1	B	2024-07-18 01:15 PM	2407SG22B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled																							•
	RHP02	WL	RHP02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:35 AM	2407AP22A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled																							
	RHP02	WL	RHP02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:35 AM	2407EU22A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHP02	WL	RHP02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:35 AM	2407AK22A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled													•					•					
	RHP02	WL	RHP02-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-02 10:35 AM	2407SG22A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP02	WL	RHP02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:45 PM	2407AP22B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•					•																	
	RHP02	WL	RHP02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:45 PM	2407EN22B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled																					•	•		
	RHP02	WL	RHP02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:45 PM	2407EU22B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHP02	WL	RHP02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:45 PM	2407AK22B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled													•					•					
	RHP02	WL	RHP02-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 01:45 PM	2407SG22B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP03	WL	RHP03-WGN01B-2407A	0	0	WG	N	1	B	2024-07-03 08:05 AM	2407SG23A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled																							•
	RHP03	WL	RHP03-WGN01B-2407B	0	0	WG	N	1	B	2024-07-18 11:40 AM	2407SG23B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled																							•
	RHP03	WL	RHP03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 08:40 AM	2407AP23A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled																							
	RHP03	WL	RHP03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 08:40 AM	2407EU23A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHP03	WL	RHP03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 08:40 AM	2407AK23A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled													•					•					
	RHP03	WL	RHP03-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 08:40 AM	2407SG23A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP03	WL	RHP03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 12:05 PM	2407AP23B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•					•																	
	RHP03	WL	RHP03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 12:05 PM	2407EN23B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP03	WL	RHP03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 12:05 PM	2407EU23B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHP03	WL	RHP03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 12:05 PM	2407AK23B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled													•					•					
	RHP03	WL	RHP03-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 12:05 PM	2407SG23B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP04A	WL	RHP04A-WGN01B-2407A	0	0	WG	N	1	B	2024-07-03 09:40 AM	2407SG24A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled																							•
	RHP04A	WL	RHP04A-WGN01B-2407B	0	0	WG	N	1	B	2024-07-18 08:35 AM	2407SG24B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled																							•
	RHP04A	WL	RHP04A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:20 AM	2407AP24A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled																							
	RHP04A	WL	RHP04A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:20 AM	2407EU24A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHP04A	WL	RHP04A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:20 AM	2407AK24A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled													•					•					
	RHP04A	WL	RHP04A-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 10:20 AM	2407SG24A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP04A	WL	RHP04A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:20 AM	2407AP24B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•					•																	
	RHP04A	WL	RHP04A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:20 AM	2407EN24B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled																					•	•		
	RHP04A	WL	RHP04A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:20 AM	2407EU24B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		580-142179-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHP04A	WL	RHP04A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:20 AM	2407AK24B	ALASKA CARGO	027-33149852	7/18/2024	7/19/2024		1243769	7	7	S2BVEM	Sampled													•					•					
	RHP04A	WL	RHP04A-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-18 09:20 AM	2407SG24B	UNITED CARGO	016-01170400	7/18/2024	7/23/2024		FC17371	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 12:00 PM	2407AP25A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled																							
	RHP04B	WL	RHP04B-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 12:00 PM	2407EU25A	ALASKA CARGO	027-33149712	7/9/2024	7/10/2024		580-141892-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHP04B	WL	RHP04B-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 12:00 PM	2407AK25A	ALASKA CARGO	027-33149815	7/9/2024	7/10/2024		1243475	7	7	S2BVEM	Sampled													•					•					
	RHP04B	WL	RHP04B-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 12:00 PM	2407SG25A	UNITED CARGO	016-22896573	7/9/2024	7/11/2024		FC17087	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:55 AM	2407AP25B	FEDEX	277430368623	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		•					•																	
	RHP04B	WL	RHP04B-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:55 AM	2407EN25B	UNITED CARGO	016-01486354	7/23/2024	7/24/2024		B24072012	7	7	S2BVEM	Sampled																					•	•		
	RHP04B	WL	RHP04B-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:55 AM	2407EU25B	ALASKA CARGO	027-33482050	7/23/2024	7/24/2024		580-142335-1	7	7	S2BVEM	Sampled			•		•							•			•		•							
	RHP04B	WL	RHP04B-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:55 AM	2407AK25B	ALASKA CARGO	027-33482094	7/23/2024	7/24/2024		1243878	7	7	S2BVEM	Sampled													•					•					
	RHP04B	WL	RHP04B-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 11:55 AM	2407SG25B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled; No SGC					•	•			•		•		•					•	•			•	•
	RHP04C	WL	RHP04C-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 11:45 AM	2407AP26A	FEDEX	276872359160	7/9/2024	7/10/2024		24G0047	7	7	S2BVEM	Sampled																							
	RHP04C	WL	RHP04C-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 11:45 AM	2407EU26A	ALASKA CARGO	027-33149712	7/9/2024	7/10/2024		580-141892-1	7	7	S2BVEM	Sampled			•		•							•			•									
	RHP04C	WL	RHP04C-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 11:45 AM	2407AK26A	ALASKA CARGO	027-33149815	7/9/2024	7/10/2024		1243475	7	7	S2BVEM	Sampled													•					•					

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

Event Name Monthly 2024 July and Q3 GW LTM

Event ID 2164

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	S2BEE (SW8270D)	Alkalinity (A2320B)	Anions SO4 Cl Br F N (E300)	Anions SO4 Cl N (E300)	BNA SIM SGS 18 Analytes (BNA5IME)	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)
	RHP04C	WL	RHP04C-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-09 11:45 AM	2407SG26A	UNITED CARGO	016-22898573	7/9/2024	7/11/2024	(b) (4)	FC17087	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP04C	WL	RHP04C-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 12:10 PM	2407AP26B	FEDEX	27743036823	7/23/2024	7/24/2024		24G0206	7	7	S4VEM	Sampled		•						•																
	RHP04C	WL	RHP04C-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 12:10 PM	2407EN26B	UNITED CARGO	016-01486354	7/23/2024	7/24/2024		B24072012	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP04C	WL	RHP04C-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 12:10 PM	2407EU26B	ALASKA CARGO	027-33482050	7/23/2024	7/24/2024		580-142335-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP04C	WL	RHP04C-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 12:10 PM	2407AK26B	ALASKA CARGO	027-33482094	7/23/2024	7/24/2024		1243878	7	7	S2BVEM	Sampled												•							•					
	RHP04C	WL	RHP04C-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-23 12:10 PM	2407SG25B	UNITED CARGO	016-01413731	7/23/2024	7/25/2024		FC17424	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP05	WL	RHP05-WGN01B-2407A	0	0	WG	N	1	B	2024-07-03 12:05 PM	2407SG27A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled																								•
	RHP05	WL	RHP05-WGN01B-2407B	0	0	WG	N	1	B	2024-07-19 08:30 AM	2407SG27B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled																								•
	RHP05	WL	RHP05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 12:50 PM	2407AP27A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled								•																
	RHP05	WL	RHP05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 12:50 PM	2407EU27A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP05	WL	RHP05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 12:50 PM	2407AK27A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•							•					
	RHP05	WL	RHP05-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 12:50 PM	2407SG27A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP05	WL	RHP05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:00 AM	2407AP27B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•						•																
	RHP05	WL	RHP05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:00 AM	2407EN27B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP05	WL	RHP05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:00 AM	2407EU27B	ALASKA CARGO	027-33149896	7/19/2024	7/20/2024		580-142246-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP05	WL	RHP05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:00 AM	2407AK27B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												•							•					
	RHP05	WL	RHP05-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:00 AM	2407SG27B	UNITED CARGO	016-01170411	7/18/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP06	WL	RHP06-WGN01B-2407A	0	0	WG	N	1	B	2024-07-05 08:30 AM	2407SG30A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled																								•
	RHP06	WL	RHP06-WGN01B-2407B	0	0	WG	N	1	B	2024-07-19 08:25 AM	2407SG30B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled																								•
	RHP06	WL	RHP06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:05 AM	2407AP30A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled								•																
	RHP06	WL	RHP06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:05 AM	2407EU30A	ALASKA CARGO	027-32862605	7/5/2024	7/6/2024		580-141818-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP06	WL	RHP06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:05 AM	2407AK30A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•							•					
	RHP06	WL	RHP06-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 09:05 AM	2407SG30A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP06	WL	RHP06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:05 AM	2407AP30B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•						•																
	RHP06	WL	RHP06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:05 AM	2407EN30B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled																					•	•		
	RHP06	WL	RHP06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:05 AM	2407EU30B	ALASKA CARGO	027-33149896	7/19/2024	7/20/2024		580-142246-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP06	WL	RHP06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:05 AM	2407AK30B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												•							•					
	RHP06	WL	RHP06-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 09:05 AM	2407SG30B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP07	WL	RHP07-WGN01B-2407A	0	0	WG	N	1	B	2024-07-03 08:47 AM	2407SG28A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled																								•
	RHP07	WL	RHP07-WGN01B-2407B	0	0	WG	N	1	B	2024-07-17 09:20 AM	2407SG28B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled																								•
	RHP07	WL	RHP07-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 09:20 AM	2407AP28A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled								•																
	RHP07	WL	RHP07-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 09:20 AM	2407EU28A	ALASKA CARGO	027-32862594	7/3/2024	7/4/2024		580-141789-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP07	WL	RHP07-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 09:20 AM	2407AK28A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•							•					
	RHP07	WL	RHP07-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-03 09:20 AM	2407SG28A	UNITED CARGO	016-43265843	7/3/2024	7/5/2024		FC16969	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP07	WL	RHP07-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 10:00 AM	2407AP28B	FEDEX	277251259798	7/18/2024	7/19/2024		24G0172	7	7	S2BVEM	Sampled		•						•																
	RHP07	WL	RHP07-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 10:00 AM	2407EN28B	UNITED CARGO	016-01171472	7/17/2024	7/18/2024		B24071480	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP07	WL	RHP07-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 10:00 AM	2407EU28B	ALASKA CARGO	027-33149685	7/17/2024	7/18/2024		580-142138-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP07	WL	RHP07-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 10:00 AM	2407AK28B	ALASKA CARGO	027-33482046	7/17/2024	7/18/2024		1243721	7	7	S2BVEM	Sampled												•							•					
	RHP07	WL	RHP07-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-17 10:00 AM	2407SG28B	UNITED CARGO	016-01170330	7/17/2024	7/19/2024		FC17307	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP08	WL	RHP08-WGFD01B-2407A	0	0	WG	FD	1	B	2024-07-05 11:10 AM	2407SG33A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled																								•
	RHP08	WL	RHP08-WGFD01B-2407B	0	0	WG	FD	1	B	2024-07-19 10:45 AM	2407SG33B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled																								•
	RHP08	WL	RHP08-WGFD01LF-2407A	0	0	WG	FD	1	LF	2024-07-05 12:00 PM	2407SG33A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP08	WL	RHP08-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-19 11:25 AM	2407AP33B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•						•																
	RHP08	WL	RHP08-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-19 11:25 AM	2407EN33B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP08	WL	RHP08-WGFD01LF-2407B	0	0	WG	FD	1	LF	2024-07-19 11:25 AM	2407SG33B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP08	WL	RHP08-WGN01B-2407A	0	0	WG	N	1	B	2024-07-05 11:10 AM	2407SG33A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled																								•
	RHP08	WL	RHP08-WGN01B-2407B	0	0	WG	N	1	B	2024-07-19 10:45 AM	2407SG33B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled																								•
	RHP08	WL	RHP08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 12:00 PM	2407AP33A	FEDEX	276731735470	7/5/2024	7/6/2024		24G0029	7	7	S2BVEM	Sampled								•																
	RHP08	WL	RHP08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 12:00 PM	2407EU33A	ALASKA CARGO	027-32862605	7/5/2024	7/6/2024		580-141818-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP08	WL	RHP08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 12:00 PM	2407AK33A	ALASKA CARGO	027-33482002	7/8/2024	7/9/2024		1243449	7	7	S2BVEM	Sampled												•							•					
	RHP08	WL	RHP08-WGN01LF-2407A	0	0	WG	N	1	LF	2024-07-05 12:00 PM	2407SG33A	UNITED CARGO	016-43339811	7/5/2024	7/6/2024		FC16987	7	7	S4VEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHP08	WL	RHP08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:25 AM	2407AP33B	FEDEX	277293899842	7/19/2024	7/20/2024		24G0175	7	7	S2BVEM	Sampled		•						•																
	RHP08	WL	RHP08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:25 AM	2407EN33B	UNITED CARGO	016-01175823	7/19/2024	7/20/2024		B24071688	7	7	S2BVEM	Sampled; No SGC																					•	•		
	RHP08	WL	RHP08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:25 AM	2407EU33B	ALASKA CARGO	027-33149896	7/19/2024	7/20/2024		580-142246-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHP08	WL	RHP08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:25 AM	2407AK33B	ALASKA CARGO	027-33149863	7/22/2024	7/23/2024		1243828	7	7	S2BVEM	Sampled												•							•					
	RHP08	WL	RHP08-WGN01LF-2407B	0	0	WG	N	1	LF	2024-07-19 11:25 AM	2407SG33B	UNITED CARGO	016-01170411	7/19/2024	7/20/2024		FC17308	7	7	S2BVEM	Sampled; No SGC						•	•			•			•				•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2407A	0	0	WG	FD	1	G	2024-07-02 11:40 AM	2407SG42A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2407B	0	0	WG	FD	1	G	2024-07-16 12:15 PM	2407AP42B	FEDEX	272001156626	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		•																						
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2407B	0	0	WG	FD	1	G	2024-07-16 12:15 PM	2407EN42B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled; No SGC																					•	•		
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2407B	0	0	WG	FD	1	G	2024-07-16 12:15 PM	2407SG42B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407A	0	0	WG	N	1	G	2024-07-02 11:40 AM	2407AP42A	FEDEX	276627463097	7/2/2024	7/5/2024		24G0014	7	7	S2BVEM	Sampled								•																
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407A	0	0	WG	N	1	G	2024-07-02 11:40 AM	2407EU42A	ALASKA CARGO	027-33149690	7/2/2024	7/3/2024		580-141742-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407A	0	0	WG	N	1	G	2024-07-02 11:40 AM	2407AK42A	ALASKA CARGO	027-33149723	7/2/2024	7/3/2024		1243346	7	7	S2BVEM	Sampled												•							•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407A	0	0	WG	N	1	G	2024-07-02 11:40 AM	2407SG42A	UNITED CARGO	016-43265832	7/2/2024	7/4/2024		FC16950	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407B	0	0	WG	N	1	G	2024-07-16 12:15 PM	2407AP42B	FEDEX	272001156626	7/17/2024	7/18/2024		24G0153	7	7	S2BVEM	Sampled		•						•																
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407B	0	0	WG	N	1	G	2024-07-16 12:15 PM	2407EN42B	UNITED CARGO	016-01170444	7/16/2024	7/17/2024		B24071406	7	7	S4VEM	Sampled																					•	•		
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407B	0	0	WG	N	1	G	2024-07-16 12:15 PM	2407EU42B	ALASKA CARGO	027-33482061	7/16/2024	7/17/2024		580-142099-1	7	7	S2BVEM	Sampled			•		•				•			•		•		•								
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407B	0	0	WG	N	1	G	2024-07-16 12:15 PM	2407AK42B	ALASKA CARGO	027-33482035	7/16/2024	7/17/2024		1243673	7	7	S4VEM	Sampled												•							•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2407B	0	0	WG	N	1	G	2024-07-16 12:15 PM	2407SG42B	UNITED CARGO	016-01170326	7/16/2024	7/18/2024		FC17269	7	7	S2BVEM	Sampled						•	•			•			•				•	•			•	•
																						S2BVEM Count	*36*	*59*	*1*	*58*	*78*	*69*	*63*	*1*	*69*	*59*	*61*	*78*	*29*	*1*	*29*	*61*	*78*	*78*	*35*	*35*	*78*	*138*
																						S4VEM Count	*6*	*14*	*0*	*14*	*5*	*4*	*10*	*0*	*4*	*14*	*12*	*5*	*8*	*0*	*8*	*12*	*5*	*5*	*7*	*7*	*5*	*10*
																						Site Location Count	*42*	*73*	*1*	*72*	*83*	*73*	*73*	*1*	*73*	*73*	*73*	*83*	*37*	*1*	*37*	*73*	*83*	*83*	*42*	*42*	*83*	*148*
																						Total Location Count	*47*	*83*	*1*	*82*	*93*	*83*	*83*	*1*	*83*	*83*	*83*	*93*	*42*	*1*	*42*	*83*	*93*	*93*	*47*	*47*	*93*	*160*

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 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 (BNA SIME)	EDB SGS (SW8011)	Ferrous Iron (A 3500B)	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 Silica Gel 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)
Aika	NMW24	WL	NMW24-WGN01B-2408A	0	0	WG	N	1	B	2024-08-14 09:00 AM	2408SG20A	UNITED CARGO	016-35591905	8/14/2024	8/16/2024	(b) (4)	FC18016	7	7	S4VEM	Sampled; No SGC																								•
	NMW24	WL	NMW24-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 09:35 AM	2408AP20A	FEDEX	278305544852	8/14/2024	8/15/2024		24H0087	7	7	S2BVEM	Sampled							•																
	NMW24	WL	NMW24-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 09:35 AM	2408EU20A	ALASKA CARGO	027-33792043	8/14/2024	8/16/2024		580-142947-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW24	WL	NMW24-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 09:35 AM	2408AK20A	ALASKA CARGO	027-33482245	8/14/2024	8/15/2024		1244480	7	7	S2BVEM	Sampled												•											
	NMW24	WL	NMW24-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 09:35 AM	2408SG20A	UNITED CARGO	016-35591905	8/14/2024	8/16/2024		FC18016	7	7	S4VEM	Sampled; No SGC				•	•				•			•					•	•		•	•	
	NMW24	WL	NMW24-WGN01B-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408AP20B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled							•																
	NMW24	WL	NMW24-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408EU20B	ALASKA CARGO	027-33482212	8/28/2024	8/29/2024		580-143346-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW24	WL	NMW24-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408AK20B	ALASKA CARGO	027-33792205	8/28/2024	8/29/2024		1244837	7	7	S2BVEM	Sampled							•																
																						S2BVEM Count	*0*	*2*	*0*	*2*	*1*	*1*	*2*	*0*	*1*	*2*	*2*	*1*	*0*	*0*	*0*	*2*	*1*	*1*	*0*	*0*	*0*	*1*	*2*
																						S4VEM Count	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*1*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*0*	*1*	*2*
																						Site Location Count	*0*	*2*	*0*	*2*	*2*	*2*	*2*	*0*	*2*	*2*	*2*	*2*	*0*	*0*	*0*	*2*	*2*	*2*	*0*	*0*	*0*	*2*	*4*
Haliwa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 09:10 AM	2408AP29A	FEDEX	278351307071	8/15/2024	8/16/2024		24H0104	7	7	S2BVEM	Sampled							•																
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 09:10 AM	2408EU29A	ALASKA CARGO	027-33792054	8/15/2024	8/16/2024		580-142944-1	7	7	S4VEM	Sampled			•		•						•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 09:10 AM	2408AK29A	ALASKA CARGO	027-33792091	8/15/2024	8/16/2024		1244520	7	7	S2BVEM	Sampled												•											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 09:10 AM	2408SG29A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 09:20 AM	2408AP29B	FEDEX	279065402240	9/3/2024	9/4/2024		24 0017	7	7	S2BVEM	Sampled							•																
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 09:20 AM	2408EU29B	ALASKA CARGO	027-33792183	8/30/2024	8/31/2024		580-143431-1	7	7	S2BVEM	Sampled			•		•						•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 09:20 AM	2408AK29B	ALASKA CARGO	027-33792220	9/3/2024			1244990	7	7	S2BVEM	Sampled												•											
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 09:20 AM	2408SG29B	UNITED CARGO	016-20229871	9/3/2024			FC18544	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 02:00 PM	2408AP10A	FEDEX	278075632323	8/8/2024			24H0054	7	7	S2BVEM	Sampled							•																
	RHMW11-05	WL	RHMW11-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 02:00 PM	2408EU10A	ALASKA CARGO	027-33791995	8/7/2024			580-142762-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 02:00 PM	2408AK10A	ALASKA CARGO	027-33482190	8/7/2024	8/8/2024		1244295	7	7	S2BVEM	Sampled												•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 02:00 PM	2408SG10A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 02:05 PM	2408AP10B	FEDEX	278536655695	8/20/2024	8/21/2024		24H0130	7	7	S4VEM	Sampled							•																
	RHMW11-05	WL	RHMW11-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 02:05 PM	2408EU10B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		580-143072-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 02:05 PM	2408AK10B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled												•											
	RHMW11-05	WL	RHMW11-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 02:05 PM	2408SG10B	UNITED CARGO	016-9059681	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW12A	WL	RHMW12A-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 11:00 AM	2408AP11A	FEDEX	278351307071	8/15/2024	8/16/2024		24H0104	7	7	S2BVEM	Sampled							•																
	RHMW12A	WL	RHMW12A-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 11:00 AM	2408EU11A	ALASKA CARGO	027-33792054	8/15/2024	8/16/2024		580-142944-1	7	7	S4VEM	Sampled			•		•						•												
	RHMW12A	WL	RHMW12A-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 11:00 AM	2408AK11A	ALASKA CARGO	027-33792091	8/15/2024	8/16/2024		1244520	7	7	S2BVEM	Sampled												•											
	RHMW12A	WL	RHMW12A-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 11:00 AM	2408SG11A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW12A	WL	RHMW12A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 11:25 AM	2408AP11B	FEDEX	279065402240	9/3/2024	9/4/2024		24 0017	7	7	S2BVEM	Sampled							•																
	RHMW12A	WL	RHMW12A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 11:25 AM	2408EU11B	ALASKA CARGO	027-33792183	8/30/2024	8/31/2024		580-143431-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW12A	WL	RHMW12A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 11:25 AM	2408AK11B	ALASKA CARGO	027-33792220	9/3/2024			1244990	7	7	S2BVEM	Sampled												•											
	RHMW12A	WL	RHMW12A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-30 11:25 AM	2408SG11B	UNITED CARGO	016-20229871	9/3/2024			FC18544	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 09:50 AM	2408AP13A	FEDEX	278030544720	8/7/2024			24H0044	7	7	S2BVEM	Sampled							•																
	RHMW14-03	WL	RHMW14-03-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 09:50 AM	2408EU13A	ALASKA CARGO	027-33791995	8/7/2024			580-142762-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 09:50 AM	2408AK13A	ALASKA CARGO	027-33482190	8/7/2024			1244295	7	7	S2BVEM	Sampled												•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2408A	0	0	WG	N	1	G	2024-08-07 09:50 AM	2408SG13A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 09:30 AM	2408AP13B	FEDEX	278486333710	8/19/2024	8/20/2024		24H0114	7	7	S2BVEM	Sampled							•																
	RHMW14-03	WL	RHMW14-03-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 09:30 AM	2408EU13B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		580-143072-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 09:30 AM	2408AK13B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled												•											
	RHMW14-03	WL	RHMW14-03-WGN01G-2408B	0	0	WG	N	1	G	2024-08-19 09:30 AM	2408SG13B	UNITED CARGO	016-9059681	8/19/2024			FC18142	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
																						S4VEM Count	*0*	*2*	*0*	*2*	*0*	*0*	*1*	*0*	*0*	*2*	*2*	*0*	*0*	*0*	*0*	*2*	*0*	*0*	*0*	*0*	*0*	*0*	*0*
																						S2BVEM Count	*0*	*6*	*0*	*6*	*8*	*8*	*7*	*0*	*8*	*6*	*6*	*8*	*0*	*0*	*0*	*6*	*8*	*8*	*0*	*0*	*0*	*8*	*8*
																						Site Location Count	*0*	*8*	*0*	*8*	*8*	*8*	*8*	*0*	*8*	*8*	*8*	*8*	*0*	*0*	*0*	*8*	*8*	*8*	*0*	*0*	*0*	*8*	*8*
	NMW25	WL	NMW25-WGN01B-2408A	0	0	WG	N	1	B	2024-08-14 10:50 AM	2408SG31A	UNITED CARGO	016-35591905	8/14/2024	8/16/2024		FC18016	7	7	S4VEM	Sampled																							•
	NMW25	WL	NMW25-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 11:30 AM	2408AP31A	FEDEX	278305544852	8/14/2024	8/15/2024		24H0087	7	7	S2BVEM	Sampled							•																
	NMW25	WL	NMW25-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 11:30 AM	2408EU31A	ALASKA CARGO	027-33792043	8/14/2024	8/16/2024		580-142947-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW25	WL	NMW25-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 11:30 AM	2408AK31A	ALASKA CARGO	027-33482245	8/14/2024	8/15/2024		1244480	7	7	S2BVEM	Sampled												•											
	NMW25	WL	NMW25-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 11:30 AM	2408SG31A	UNITED CARGO	016-35591905	8/14/2024	8/16/2024		FC18016	7	7	S4VEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	NMW25	WL	NMW25-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:50 AM	2408AP31B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled							•																
	NMW25	WL	NMW25-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:50 AM	2408EU31B	ALASKA CARGO	027-33482212	8/28/2024	8/29/2024		580-143346-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW25	WL	NMW25-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:50 AM	2408AK31B	ALASKA CARGO	027-33792205	8/28/2024	8/29/2024		1244837	7	7	S2BVEM	Sampled												•											
	NMW26	WL	NMW26-WGN01B-2408A	0	0	WG	N	1	B	2024-08-12 09:15 AM	2408SG37A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled																							•
	NMW26	WL	NMW26-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 11:30 AM	2408AP37A	FEDEX	278208587715	8/12/2024	8/13/2024		24H0065	7	7	S2BVEM	Sampled							•																
	NMW26	WL	NMW26-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 11:30 AM	2408EU37A	ALASKA CARGO	027-33482223	8/12/2024	8/13/2024		580-142878-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW26	WL	NMW26-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 11:30 AM	2408AK37A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•											
	NMW26	WL	NMW26-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 11:30 AM	2408SG37A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	NMW26	WL	NMW26-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 10:50 AM	2408AP37B	FEDEX	278760611619	8/26/2024	8/27/2024		24H0185	7	7	S2BVEM	Sampled							•																
	NMW26	WL	NMW26-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 10:50 AM	2408EU37B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		580-143286-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW26	WL	NMW26-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 10:50 AM	2408AK37B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•											
	NMW30	WL	NMW30-WGN01B-2408A	0	0	WG	N	1	B	2024-08-15 08:40 AM	2408SG35A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled																							•
	NMW30	WL	NMW30-WGN01B-2408B	0	0	WG	N	1	B	2024-08-29 08:35 AM	2408SG35B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled																							•
	NMW30	WL	NMW30-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 10:20 AM	2408AP35A	FEDEX	278351307071	8/15/2024	8/16/2024		24H0104	7	7	S2BVEM	Sampled							•																
	NMW30	WL	NMW30-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 10:20 AM	2408EU35A	ALASKA CARGO	027-33792054	8/15/2024	8/16/2024		580-142944-1	7	7	S4VEM	Sampled			•		•						•												
	NMW30	WL	NMW30-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 10:20 AM	2408AK35A	ALASKA CARGO	027-33792091	8/15/2024	8/16/2024		1244520	7	7	S2BVEM	Sampled												•											
	NMW30	WL	NMW30-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 10:20 AM	2408SG35A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	NMW30	WL	NMW30-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:15 AM	2408AP35B	FEDEX	278904725716	8/29/2024	8/30/2024		24H0241	7	7	S2BVEM	Sampled							•																
	NMW30	WL	NMW30-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:15 AM	2408EU35B	ALASKA CARGO	027-33792172	8/29/2024	8/30/2024		580-143402-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW30	WL	NMW30-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:15 AM	2408AK35B	ALASKA CARGO	027-34033834	8/29/2024	8/30/2024		1244876	7	7	S2BVEM	Sampled												•											
	NMW30	WL	NMW30-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:15 AM	2408SG35B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	
	NMW32	WL	NMW32-WGN01B-2408A	0	0	WG	N	1	B	2024-08-16 10:05 AM	2408SG32A	UNITED CARGO	016-35591533	8/16/2024	8/17/2024		FC18089	7	7	S2BVEM	Sampled																							•
	NMW32	WL	NMW32-WGN01B-2408B	0	0	WG	N	1	B	2024-08-29 10:45 AM	2408SG32B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled																							•
	NMW32	WL	NMW32-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 11:10 AM	2408AP32A	FEDEX	278394849865	8/16/2024	8/17/2024		24H0109	7	7	S2BVEM	Sampled							•																
	NMW32	WL	NMW32-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 11:10 AM	2408EU32A	ALASKA CARGO	027-33792065	8/16/2024	8/17/2024		580-143030-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW32	WL	NMW32-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 11:10 AM	2408AK32A	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled												•											
	NMW32	WL	NMW32-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 11:10 AM	2408SG32A	UNITED CARGO	016-35591533	8/16/2024	8/17/2024		FC18089	7	7	S2BVEM	Sampled; No SGC					•	•			•			•					•	•		•	•	

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 (BNA SIME)	EDB SGS (SW8011)	Ferrous Iron (A 3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A 2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil TEH Silica Gel 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-2408B	0	0	WG	N	1	LF	2024-08-29 11:25 AM	2408AP32B	FEDEX	278904725716	8/29/2024	8/30/2024	(b) (4)	24H0241	7	7	S2BVEM	Sampled							•																
	NMW32	WL	NMW32-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:25 AM	2408EU32B	ALASKA CARGO	027-33792172	8/29/2024	8/30/2024		580-143402-1	7	7	S2BVEM	Sampled			•		•						•													
	NMW32	WL	NMW32-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:25 AM	2408AK32B	ALASKA CARGO	027-34033834	8/29/2024	8/30/2024		1244876	7	7	S2BVEM	Sampled												•											
	NMW32	WL	NMW32-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:25 AM	2408SG32B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled; No SGC					•	•					•								•	•			•	•
	NMW33	WL	NMW33-WGN01B-2408A	0	0	WG	N	1	B	2024-08-16 08:20 AM	2408SG34A	UNITED CARGO	016-35591533	8/16/2024	8/17/2024		FC18089	7	7	S2BVEM	Sampled																							•
	NMW33	WL	NMW33-WGN01B-2408B	0	0	WG	N	1	B	2024-08-29 08:46 AM	2408SG34B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled																							•
	NMW33	WL	NMW33-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 08:50 AM	2408AP34A	FEDEX	278394849865	8/16/2024	8/17/2024		24H0109	7	7	S2BVEM	Sampled								•															
	NMW33	WL	NMW33-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 08:50 AM	2408EU34A	ALASKA CARGO	027-33792065	8/16/2024	8/17/2024		580-143030-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW33	WL	NMW33-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 08:50 AM	2408AK34A	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled												•											
	NMW33	WL	NMW33-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-16 08:50 AM	2408SG34A	UNITED CARGO	016-35591533	8/16/2024	8/17/2024		FC18089	7	7	S2BVEM	Sampled; No SGC						•	•				•		•						•	•			•	•
	NMW33	WL	NMW33-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:30 AM	2408AP34B	FEDEX	278904725716	8/29/2024	8/30/2024		24H0241	7	7	S2BVEM	Sampled								•															
	NMW33	WL	NMW33-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:30 AM	2408EU34B	ALASKA CARGO	027-33792172	8/29/2024	8/30/2024		580-143402-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW33	WL	NMW33-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:30 AM	2408AK34B	ALASKA CARGO	027-34033834	8/29/2024	8/30/2024		1244876	7	7	S2BVEM	Sampled												•											
	NMW33	WL	NMW33-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 09:30 AM	2408SG34B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled; No SGC					•	•					•								•	•			•	•
	NMW34	WL	NMW34-WGN01B-2408A	0	0	WG	N	1	B	2024-08-13 08:50 AM	2408SG39A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled																							•
	NMW34	WL	NMW34-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:20 AM	2408AP39A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled								•															
	NMW34	WL	NMW34-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:20 AM	2408EU39A	ALASKA CARGO	027-33792032	8/13/2024	8/14/2024		580-142912-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW34	WL	NMW34-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:20 AM	2408AK39A	ALASKA CARGO	027-33482234	8/13/2024	8/14/2024		1244440	7	7	S2BVEM	Sampled												•											
	NMW34	WL	NMW34-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:20 AM	2408SG39A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled; No SGC					•	•					•								•	•			•	•
	NMW34	WL	NMW34-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 08:55 AM	2408AP39B	FEDEX	278810100167	8/27/2024	8/28/2024		24H0193	7	7	S2BVEM	Sampled								•															
	NMW34	WL	NMW34-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 08:55 AM	2408EU39B	ALASKA CARGO	027-33792124	8/27/2024	8/28/2024		580-143311-1	7	7	S2BVEM	Sampled			•		•						•												
	NMW34	WL	NMW34-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 08:55 AM	2408AK39B	ALASKA CARGO	027-34033812	8/27/2024	8/28/2024		1244805	7	7	S2BVEM	Sampled												•											
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408AP40B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled								•															
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408EU40B	ALASKA CARGO	027-33482212	8/28/2024	8/29/2024		580-143346-1	7	7	S2BVEM	Sampled			•		•						•												
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 09:00 AM	2408AK40B	ALASKA CARGO	027-33792205	8/28/2024	8/29/2024		1244837	7	7	S2BVEM	Sampled												•											
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:30 AM	2408AP41B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled								•															
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:30 AM	2408EU41B	ALASKA CARGO	027-33482212	8/28/2024	8/29/2024		580-143346-1	7	7	S2BVEM	Sampled			•		•						•												
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 10:30 AM	2408AK41B	ALASKA CARGO	027-33792205	8/28/2024	8/29/2024		1244837	7	7	S2BVEM	Sampled												•											
	RHMW01R	WL	RHMW01R-WGFD01B-2408A	0	0	WG	FD	1	B	2024-08-05 10 05 AM	2408SG01A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGFD01B-2408B	0	0	WG	FD	1	B	2024-08-22 01:30 PM	2408SG01B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGFD01LF-2408A	0	0	WG	FD	1	LF	2024-08-05 10 35 AM	2408SG01A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled							•									•	•				•	•
	RHMW01R	WL	RHMW01R-WGFD01LF-2408B	0	0	WG	FD	1	LF	2024-08-22 02:00 PM	2408SG01B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled							•									•	•				•	•
	RHMW01R	WL	RHMW01R-WGN01B-2408A	0	0	WG	N	1	B	2024-08-05 10:05 AM	2408SG01A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 01:30 PM	2408SG01B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•
	RHMW01R	WL	RHMW01R-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 10:35 AM	2408AP01A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled								•															
	RHMW01R	WL	RHMW01R-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 10:35 AM	2408EU01A	ALASKA CARGO	027-33792021	8/5/2024	8/6/2024		580-142687-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW01R	WL	RHMW01R-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 10:35 AM	2408AK01A	ALASKA CARGO	027-33791973	8/5/2024	8/6/2024		1244198	7	7	S4VEM	Sampled												•											
	RHMW01R	WL	RHMW01R-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 10:35 AM	2408SG01A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled							•									•	•				•	•
	RHMW01R	WL	RHMW01R-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 02:00 PM	2408AP01B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled								•															
	RHMW01R	WL	RHMW01R-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 02:00 PM	2408EU01B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•						•												
	RHMW01R	WL	RHMW01R-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 02:00 PM	2408AK01B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•											
	RHMW01R	WL	RHMW01R-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 02:00 PM	2408SG01B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled							•									•	•				•	•
	RHMW02	WL	RHMW02-WGFD01B-2408A	0	0	WG	FD	1	B	2024-08-22 11:40 AM	2408SG02A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01B-2408B	0	0	WG	FD	1	B	2024-08-22 11:40 AM	2408SG02B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01LF-2408A	0	0	WG	FD	1	LF	2024-08-05 12:30 PM	2408SG02A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01LF-2408B	0	0	WG	FD	1	LF	2024-08-22 12:20 PM	2408SG02B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGN01B-2408A	0	0	WG	N	1	B	2024-08-05 11:45 AM	2408SG02A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•
	RHMW02	WL	RHMW02-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 11:40 AM	2408SG02B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 12:30 PM	2408AP02A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled								•															
	RHMW02	WL	RHMW02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 12:30 PM	2408EU02A	ALASKA CARGO	027-33792021	8/5/2024	8/6/2024		580-142687-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW02	WL	RHMW02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 12:30 PM	2408AK02A	ALASKA CARGO	027-33791973	8/5/2024	8/6/2024		1244198	7	7	S4VEM	Sampled												•											
	RHMW02	WL	RHMW02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 12:30 PM	2408SG02A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled							•									•	•				•	•
	RHMW02	WL	RHMW02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 12:20 PM	2408AP02B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled								•															
	RHMW02	WL	RHMW02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 12:20 PM	2408EU02B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•						•												
	RHMW02	WL	RHMW02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 12:20 PM	2408AK02B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•											
	RHMW02	WL	RHMW02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 12:20 PM	2408SG02B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled							•									•	•				•	•
	RHMW03	WL	RHMW03-WGN01B-2408A	0	0	WG	N	1	B	2024-08-06 09:25 AM	2408SG03A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled																							•
	RHMW03	WL	RHMW03-WGN01B-2408B	0	0	WG	N	1	B	2024-08-20 09:25 AM	2408SG03B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled																							•
	RHMW03	WL	RHMW03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408AP03A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled								•															
	RHMW03	WL	RHMW03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408EU03A	ALASKA CARGO	027-33791984	8/6/2024	8/8/2024		580-142721-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW03	WL	RHMW03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408AK03A	ALASKA CARGO	027-33482186	8/6/2024	8/8/2024		1244294	7	7	S2BVEM	Sampled												•											
	RHMW03	WL	RHMW03-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408SG03A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled							•									•	•				•	•
	RHMW03	WL	RHMW03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:05 AM	2408AP03B	FEDEX	278536655695	8/20/2024	8/21/2024		24H0130	7	7	S4VEM	Sampled								•															
	RHMW03	WL	RHMW03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:05 AM	2408EU03B	ALASKA CARGO	027-33482256	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW03	WL	RHMW03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:05 AM	2408AK03B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled												•											
	RHMW03	WL	RHMW03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:05 AM	2408SG03B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled							•									•	•				•	•
	RHMW04	WL	RHMW04-WGN01B-2408A	0	0	WG	N	1	B	2024-08-13 10:35 AM	2408SG04A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled																							•
	RHMW04	WL	RHMW04-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:30 AM	2408AP04A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled								•															
	RHMW04	WL	RHMW04-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:30 AM	2408EU04A	ALASKA CARGO	027-33792032	8/13/2024	8/14/2024		580-142912-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW04	WL	RHMW04-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:30 AM	2408AK04A	ALASKA CARGO	027-33482234	8/13/2024	8/14/2024		1244440	7	7	S2BVEM	Sampled												•											
	RHMW04	WL	RHMW04-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:30 AM	2408SG04A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•			•	•
	RHMW04	WL	RHMW04-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 09:35 AM	2408AP04B	FEDEX	278810100167	8/27/2024	8/28/2024		24H0193	7	7	S2BVEM	Sampled								•															
	RHMW04	WL	RHMW04-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 09:35 AM	2408EU04B	ALASKA CARGO	027-33792124	8/27/2024	8/28/2024		580-143311-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW04	WL	RHMW04-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 09:35 AM	2408AK04B	ALASKA CARGO	027-34033812	8/27/2024	8/28/2024		1244805	7	7	S2BVEM	Sampled								•															
	RHMW05	WL	RHMW05-WGN01B-2408A	0	0	WG	N	1	B	2024-08-07 11:10 AM	2408SG05A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled																							•
	RHMW05	WL	RHMW05-WGN01B-2408B	0	0	WG	N	1	B	2024-08-21 11:02 AM	2408SG05B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled																							•
	RHMW05	WL	RHMW05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 11:40 AM	2408AP05A	FEDEX	278030544720	8/7/2024	8/8/2024		24H0044	7	7	S2BVEM	Sampled								•															
	RHMW05	WL	RHMW05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 11:40 AM	2408EU05A	ALASKA CARGO	027-33791995	8/7/2024	8/8/2024		580-142762-1	7	7	S2BVEM	Sampled			•		•						•												
	RHMW05	WL	RHMW05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 11:40 AM	2408AK05A	ALASKA CARGO	027-33482190	8/7/2024	8/8/2024		1244295	7	7	S2BVEM	Sampled								•															
	RHMW05	WL	RHMW05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 11:40 AM	2408SG05A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled; No SGC					•	•					•		•						•	•			•	•

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 (BNA SIME)	EDB SGS (SW8011)	Ferrous Iron (A 3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW9270)	SC (A2510B)	Silica (A4500D)	TDS (A 2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil Silica Gel (SW8015C)	TPH Diesel and Oil TEH Silica Gel Energy (SW8015D)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA12 TMBs SGS (SW8260D)
Red Hill Bulk Fuel Storage Facility	RHMW05	WL	RHMW05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 11:35 AM	2408AP05B	FEDEX	278584227620	8/21/2024	8/22/2024	(b) (4)	24H0141	7	7	S2BVEM	Sampled							•																
	RHMW05	WL	RHMW05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 11:35 AM	2408EU05B	ALASKA CARGO	027-33792113	8/21/2024	8/22/2024		580-143167-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW05	WL	RHMW05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 11:35 AM	2408AK05B	ALASKA CARGO	027-33792146	8/21/2024	8/22/2024		1244686	7	7	S2BVEM	Sampled													•												
	RHMW05	WL	RHMW05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 11:35 AM	2408SG05B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW06	WL	RHMW06-WGN01B-2408A	0	0	WG	N	1	B	2024-08-08 09:05 AM	2408SG06A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled																							•	
	RHMW06	WL	RHMW06-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 03:00 PM	2408SG06B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																							•	
	RHMW06	WL	RHMW06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:40 AM	2408AP06A	FEDEX	278075632323	8/8/2024	8/9/2024		24H0054	7	7	S2BVEM	Sampled									•															
	RHMW06	WL	RHMW06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:40 AM	2408EU06A	ALASKA CARGO	027-33792006	8/8/2024	8/9/2024		580-142805-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW06	WL	RHMW06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:40 AM	2408AK06A	ALASKA CARGO	027-33792010	8/8/2024	8/9/2024		1244333	7	7	S2BVEM	Sampled												•						•						
	RHMW06	WL	RHMW06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:40 AM	2408SG06A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW06	WL	RHMW06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 04:20 PM	2408AP06B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled									•															
	RHMW06	WL	RHMW06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 04:20 PM	2408EU06B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•					•														
	RHMW06	WL	RHMW06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 04:20 PM	2408AK06B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•						•						
	RHMW06	WL	RHMW06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 04:20 PM	2408SG06B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled					•	•				•			•					•	•		•	•	
	RHMW08	WL	RHMW08-WGN01B-2408A	0	0	WG	N	1	B	2024-08-05 02:30 PM	2408SG07A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																							•	
	RHMW08	WL	RHMW08-WGN01B-2408B	0	0	WG	N	1	B	2024-08-21 01:55 PM	2408SG07B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled																							•	
	RHMW08	WL	RHMW08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 03:35 PM	2408AP07A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled									•															
	RHMW08	WL	RHMW08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 03:35 PM	2408EU07A	ALASKA CARGO	027-33792021	8/5/2024	8/6/2024		580-142687-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW08	WL	RHMW08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 03:35 PM	2408AK07A	ALASKA CARGO	027-33791973	8/5/2024	8/6/2024		1244198	7	7	S4VEM	Sampled												•						•						
	RHMW08	WL	RHMW08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 03:35 PM	2408SG07A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW08	WL	RHMW08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 03:15 PM	2408AP07B	FEDEX	278629540705	8/22/2024	8/23/2024		24H0157	7	7	S2BVEM	Sampled									•															
	RHMW08	WL	RHMW08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 03:15 PM	2408EU07B	ALASKA CARGO	027-33792113	8/21/2024	8/22/2024		580-143167-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW08	WL	RHMW08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 03:15 PM	2408AK07B	ALASKA CARGO	027-33792146	8/21/2024	8/22/2024		1244686	7	7	S2BVEM	Sampled												•						•						
	RHMW08	WL	RHMW08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 03:15 PM	2408SG07B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW09	WL	RHMW09-WGN01B-2408A	0	0	WG	N	1	B	2024-08-09 10:15 AM	2408SG08A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled																							•	
	RHMW09	WL	RHMW09-WGN01B-2408B	0	0	WG	N	1	B	2024-08-23 10:30 AM	2408SG08B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled																							•	
	RHMW09	WL	RHMW09-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 10:55 AM	2408AP08A	FEDEX	278119889489	8/9/2024	8/10/2024		24H0060	7	7	S2BVEM	Sampled									•															
	RHMW09	WL	RHMW09-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 10:55 AM	2408EU08A	ALASKA CARGO	027-33482175	8/9/2024	8/10/2024		580-142844-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW09	WL	RHMW09-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 10:55 AM	2408AK08A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•						•						
	RHMW09	WL	RHMW09-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 10:55 AM	2408SG08A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW09	WL	RHMW09-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 11:25 AM	2408AP08B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled									•															
	RHMW09	WL	RHMW09-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 11:25 AM	2408EU08B	ALASKA CARGO	027-33482271	8/23/2024	8/24/2024		580-143256-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW09	WL	RHMW09-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 11:25 AM	2408AK08B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•						•						
	RHMW09	WL	RHMW09-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 11:25 AM	2408SG08B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW10	WL	RHMW10-WGN01B-2408A	0	0	WG	N	1	B	2024-08-09 10:05 AM	2408SG09A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled																							•	
	RHMW10	WL	RHMW10-WGN01B-2408B	0	0	WG	N	1	B	2024-08-23 09:00 AM	2408SG09B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled																							•	
	RHMW10	WL	RHMW10-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 11:00 AM	2408AP09A	FEDEX	278119889489	8/9/2024	8/10/2024		24H0060	7	7	S2BVEM	Sampled									•															
	RHMW10	WL	RHMW10-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 11:00 AM	2408EU09A	ALASKA CARGO	027-33482175	8/9/2024	8/10/2024		580-142844-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW10	WL	RHMW10-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 11:00 AM	2408AK09A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•						•						
	RHMW10	WL	RHMW10-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 11:00 AM	2408SG09A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW10	WL	RHMW10-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 10:45 AM	2408AP10B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled									•															
	RHMW10	WL	RHMW10-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 10:45 AM	2408EU09B	ALASKA CARGO	027-33482271	8/23/2024	8/24/2024		580-143256-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW10	WL	RHMW10-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 10:45 AM	2408AK09B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•						•						
	RHMW10	WL	RHMW10-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 10:45 AM	2408SG09B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW13-04	WL	RHMW13-04-WGN01G-2408A	0	0	WG	N	1	G	2024-08-12 10:00 AM	2408AP12A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled									•															
	RHMW13-04	WL	RHMW13-04-WGN01G-2408A	0	0	WG	N	1	G	2024-08-12 10:00 AM	2408EU12A	ALASKA CARGO	027-33482223	8/12/2024	8/13/2024		580-142878-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW13-04	WL	RHMW13-04-WGN01G-2408A	0	0	WG	N	1	G	2024-08-12 10:00 AM	2408AK12A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•						•						
	RHMW13-04	WL	RHMW13-04-WGN01G-2408A	0	0	WG	N	1	G	2024-08-12 10:00 AM	2408SG12A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	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	2408AP12B	FEDEX	278810100167	8/27/2024	8/28/2024		24H0193	7	7	S2BVEM	Sampled									•															
	RHMW13-04	WL	RHMW13-04-WGN01G-2408B	0	0	WG	N	1	G	2024-08-26 11:10 AM	2408EU12B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		580-143286-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW13-04	WL	RHMW13-04-WGN01G-2408B	0	0	WG	N	1	G	2024-08-26 11:10 AM	2408AK12B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•						•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-05 10:00 AM	2408AP14A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled									•															
	RHMW15-05	WL	RHMW15-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-05 10:00 AM	2408EU14A	ALASKA CARGO	027-33792021	8/5/2024	8/6/2024		580-142687-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW15-05	WL	RHMW15-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-05 10:00 AM	2408AK14A	ALASKA CARGO	027-33791973	8/5/2024	8/6/2024		1244198	7	7	S4VEM	Sampled												•						•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2408A	0	0	WG	N	1	G	2024-08-05 10:00 AM	2408SG14A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW15-05	WL	RHMW15-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-21 09:30 AM	2408AP14B	FEDEX	278629540705	8/22/2024	8/23/2024		24H0157	7	7	S2BVEM	Sampled									•															
	RHMW15-05	WL	RHMW15-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-21 09:30 AM	2408EU14B	ALASKA CARGO	027-33792113	8/21/2024	8/22/2024		580-143167-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW15-05	WL	RHMW15-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-21 09:30 AM	2408AK14B	ALASKA CARGO	027-33792146	8/21/2024	8/22/2024		1244686	7	7	S2BVEM	Sampled												•						•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2408B	0	0	WG	N	1	G	2024-08-21 09:30 AM	2408SG14B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW16	WL	RHMW16-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 11:45 AM	2408AP15A	FEDEX	278075632323	8/8/2024	8/9/2024		24H0054	7	7	S2BVEM	Sampled									•															
	RHMW16	WL	RHMW16-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 11:45 AM	2408EU15A	ALASKA CARGO	027-33792006	8/8/2024	8/9/2024		580-142805-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW16	WL	RHMW16-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 11:45 AM	2408AK15A	ALASKA CARGO	027-33792010	8/8/2024	8/9/2024		1244333	7	7	S2BVEM	Sampled												•						•						
	RHMW16	WL	RHMW16-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 11:45 AM	2408SG15A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW16	WL	RHMW16-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:50 AM	2408AP15B	FEDEX	278536655695	8/20/2024	8/21/2024		24H0130	7	7	S4VEM	Sampled									•															
	RHMW16	WL	RHMW16-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:50 AM	2408EU15B	ALASKA CARGO	027-33482256	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW16	WL	RHMW16-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:50 AM	2408AK15B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled												•						•						
	RHMW16	WL	RHMW16-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 10:50 AM	2408SG15B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW17	WL	RHMW17-WGFD01B-2408A	0	0	WG	FD	1	B	2024-08-12 12:45 PM	2408SG16A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled																							•	
	RHMW17	WL	RHMW17-WGFD01LF-2408A	0	0	WG	FD	1	LF	2024-08-12 01:30 PM	2408SG16A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW17	WL	RHMW17-WGN01B-2408A	0	0	WG	N	1	B	2024-08-12 12:45 PM	2408SG16A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled																							•	
	RHMW17	WL	RHMW17-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 01:30 PM	2408AP16A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled									•															
	RHMW17	WL	RHMW17-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 01:30 PM	2408EU16A	ALASKA CARGO	027-33482223	8/12/2024	8/13/2024		580-142878-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW17	WL	RHMW17-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 01:30 PM	2408AK16A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•						•						
	RHMW17	WL	RHMW17-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-12 01:30 PM	2408SG16A	UNITED CARGO	016-35591964	8/12/2024	8/14/2024		FC17919	7	7	S2BVEM	Sampled; No SGC					•	•				•			•					•	•		•	•	
	RHMW17	WL	RHMW17-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 12:25 PM	2408AP16B	FEDEX	278810100167	8/27/2024	8/28/2024		24H0193	7	7	S2BVEM	Sampled									•															
	RHMW17	WL	RHMW17-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 12:25 PM	2408EU16B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		580-143286-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW17	WL	RHMW17-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-26 12:25 PM	2408AK16B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•						•						
	RHMW18	WL	RHMW18-WGN01B-2408A	0	0	WG	N	1	B	2024-08-15 12:10 PM	2408SG36A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled																							•	
	RHMW18	WL	RHMW18-WGN01B-2408B	0	0	WG	N	1	B	2024-08-29 10:45 AM	2408SG36B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled																							•	
	RHMW18	WL	RHMW18-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 01:25 PM	2408AP36A	FEDEX	278394849865	8/16/2024	8/17/2024		24H0109	7	7	S2BVEM	Sampled									•															

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 (BNA SIME)	EDB SGS (SW8011)	Ferrous Iron (A 3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A 2540C)	TOC (SW9060A)	TPH Diesel and Oil SGS (SW8015C)	TPH Diesel and Oil Silica Gel EU SGS (M8015D)	TPH Diesel and Oil Silica Gel (SW8015C)	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)
	RHMW18	WL	RHMW18-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 01:25 PM	2408EU36A	ALASKA CARGO	027-33792054	8/15/2024	8/16/2024	(b) (4)	580-142944-1	7	7	S4VEM	Sampled			•		•						•													
	RHMW18	WL	RHMW18-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 01:25 PM	2408AK36A	ALASKA CARGO	027-33792091	8/15/2024	8/16/2024		1244520	7	7	S2BVEM	Sampled												•							•						
	RHMW18	WL	RHMW18-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-15 01:25 PM	2408SG36A	UNITED CARGO	016-35591603	8/15/2024	8/17/2024		FC18072	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW18	WL	RHMW18-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:55 AM	2408AP36B	FEDEX	27890472571 6	8/29/2024	8/30/2024		24H0241	7	7	S2BVEM	Sampled							•																	
	RHMW18	WL	RHMW18-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:55 AM	2408EU36B	ALASKA CARGO	027-33792172	8/29/2024	8/30/2024		580-143402-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW18	WL	RHMW18-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:55 AM	2408AK36B	ALASKA CARGO	027-34033834	8/29/2024	8/30/2024		1244876	7	7	S2BVEM	Sampled												•							•					
	RHMW18	WL	RHMW18-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-29 11:55 AM	2408SG36B	UNITED CARGO	016-86219722	8/29/2024	8/31/2024		FC18496	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW19	WL	RHMW19-WGN01B-2408A	0	0	WG	N	1	B	2024-08-09 08:35 AM	2408SG17A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled																								
	RHMW19	WL	RHMW19-WGN01B-2408B	0	0	WG	N	1	B	2024-08-23 08:20 AM	2408SG17B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled																								•
	RHMW19	WL	RHMW19-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 09:20 AM	2408AP17A	FEDEX	27811989489	8/9/2024	8/10/2024		24H0060	7	7	S2BVEM	Sampled																								
	RHMW19	WL	RHMW19-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 09:20 AM	2408EU17A	ALASKA CARGO	027-33482175	8/9/2024	8/10/2024		580-142844-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW19	WL	RHMW19-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 09:20 AM	2408AK17A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled												•							•					
	RHMW19	WL	RHMW19-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 09:20 AM	2408SG17A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW19	WL	RHMW19-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 09:25 AM	2408AP17B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled							•																	
	RHMW19	WL	RHMW19-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 09:25 AM	2408EU17B	ALASKA CARGO	027-33482271	8/23/2024	8/24/2024		580-143256-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW19	WL	RHMW19-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 09:25 AM	2408AK17B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled												•							•					
	RHMW19	WL	RHMW19-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 09:25 AM	2408SG17B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW20	WL	RHMW20-WGN01B-2408A	0	0	WG	N	1	B	2024-08-13 08:55 AM	2408SG18A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled																								•
	RHMW20	WL	RHMW20-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:35 AM	2408AP18A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled							•																	
	RHMW20	WL	RHMW20-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:35 AM	2408EU18A	ALASKA CARGO	027-33792032	8/13/2024	8/14/2024		580-142912-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW20	WL	RHMW20-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:35 AM	2408AK18A	ALASKA CARGO	027-33482234	8/13/2024	8/14/2024		1244440	7	7	S2BVEM	Sampled												•							•					
	RHMW20	WL	RHMW20-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 09:35 AM	2408SG18A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW20	WL	RHMW20-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 12:35 PM	2408AP18B	FEDEX	27890472571 6	8/29/2024	8/30/2024		24H0241	7	7	S2BVEM	Sampled							•																	
	RHMW20	WL	RHMW20-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 12:35 PM	2408EU18B	ALASKA CARGO	027-33482212	8/28/2024	8/29/2024		580-143346-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW20	WL	RHMW20-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-28 12:35 PM	2408AK18B	ALASKA CARGO	027-33792205	8/28/2024	8/29/2024		1244837	7	7	S2BVEM	Sampled												•							•					
	RHMW21	WL	RHMW21-WGN01B-2408A	0	0	WG	N	1	B	2024-08-05 09:35 AM	2408SG43A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled																								•
	RHMW21	WL	RHMW21-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 09:15 AM	2408SG43B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																								•
	RHMW21	WL	RHMW21-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 02:10 PM	2408AP43A	FEDEX	27798292129 8	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled							•																	
	RHMW21	WL	RHMW21-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 02:10 PM	2408EU43A	ALASKA CARGO	027-33792021	8/5/2024	8/6/2024		580-142687-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW21	WL	RHMW21-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 02:10 PM	2408AK43A	ALASKA CARGO	027-33791973	8/5/2024	8/6/2024		1244198	7	7	S4VEM	Sampled												•							•					
	RHMW21	WL	RHMW21-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-05 02:10 PM	2408SG43A	UNITED CARGO	016-04956910	8/5/2024	8/7/2024		FC17737	7	7	S4VEM	Sampled					•	•				•			•						•	•			•	•
	RHMW21	WL	RHMW21-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:35 AM	2408AP43B	FEDEX	278629540705	8/22/2024	8/23/2024		24H0157	7	7	S2BVEM	Sampled							•																	
	RHMW21	WL	RHMW21-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:35 AM	2408EU43B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•						•													
	RHMW21	WL	RHMW21-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:35 AM	2408AK43B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•							•					
	RHMW21	WL	RHMW21-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:35 AM	2408SG43B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled					•	•				•			•						•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2408A	0	0	WG	N	1	B	2024-08-06 01:35 PM	2408SG19A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled																								•
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2408B	0	0	WG	N	1	B	2024-08-20 12:00 PM	2408SG19B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled																								•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 02:15 PM	2408AP19A	FEDEX	278030544720	8/7/2024	8/8/2024		24H0044	7	7	S2BVEM	Sampled							•																	
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 02:15 PM	2408EU19A	ALASKA CARGO	027-33791984	8/6/2024	8/8/2024		580-142721-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 02:15 PM	2408AK19A	ALASKA CARGO	027-33482186	8/6/2024	8/8/2024		1244294	7	7	S2BVEM	Sampled												•							•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 02:15 PM	2408SG19A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:25 PM	2408AP19B	FEDEX	27858422620	8/21/2024	8/22/2024		24H0141	7	7	S2BVEM	Sampled							•																	
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:25 PM	2408EU19B	ALASKA CARGO	027-33482256	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•						•													
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:25 PM	2408AK19B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled												•							•					
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:25 PM	2408SG19B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP01	WL	RHP01-WGN01B-2408A	0	0	WG	N	1	B	2024-08-08 10:00 AM	2408SG21A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled																								•
	RHP01	WL	RHP01-WGN01B-2408B	0	0	WG	N	1	B	2024-08-20 08:20 AM	2408SG21B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled																								•
	RHP01	WL	RHP01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 10:25 AM	2408AP21A	FEDEX	278075632323	8/8/2024	8/9/2024		24H0054	7	7	S2BVEM	Sampled							•																	
	RHP01	WL	RHP01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 10:25 AM	2408EU21A	ALASKA CARGO	027-33792006	8/8/2024	8/9/2024		580-142805-1	7	7	S2BVEM	Sampled			•		•						•													
	RHP01	WL	RHP01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 10:25 AM	2408AK21A	ALASKA CARGO	027-33792010	8/8/2024	8/9/2024		1244333	7	7	S2BVEM	Sampled												•							•					
	RHP01	WL	RHP01-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 10:25 AM	2408SG21A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP01	WL	RHP01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 08:55 AM	2408AP21B	FEDEX	278536655695	8/20/2024	8/21/2024		24H0130	7	7	S4VEM	Sampled							•																	
	RHP01	WL	RHP01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 08:55 AM	2408EU21B	ALASKA CARGO	027-33482260	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•						•													
	RHP01	WL	RHP01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 08:55 AM	2408AK21B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled												•							•					
	RHP01	WL	RHP01-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 08:55 AM	2408SG21B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP02	WL	RHP02-WGN01B-2408A	0	0	WG	N	1	B	2024-08-08 08:30 AM	2408SG22A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled																								•
	RHP02	WL	RHP02-WGN01B-2408B	0	0	WG	N	1	B	2024-08-20 11:50 AM	2408SG22B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled																								•
	RHP02	WL	RHP02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:10 AM	2408AP22A	FEDEX	278075632323	8/8/2024	8/9/2024		24H0054	7	7	S2BVEM	Sampled							•																	
	RHP02	WL	RHP02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:10 AM	2408EU22A	ALASKA CARGO	027-33792006	8/8/2024	8/9/2024		580-142805-1	7	7	S2BVEM	Sampled			•		•						•													
	RHP02	WL	RHP02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:10 AM	2408AK22A	ALASKA CARGO	027-33792010	8/8/2024	8/9/2024		1244333	7	7	S2BVEM	Sampled												•							•					
	RHP02	WL	RHP02-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-08 09:10 AM	2408SG22A	UNITED CARGO	016-04958365	8/8/2024	8/10/2024		FC17870	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP02	WL	RHP02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:20 PM	2408AP22B	FEDEX	278536655695	8/20/2024	8/21/2024		24H0130	7	7	S4VEM	Sampled							•																	
	RHP02	WL	RHP02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:20 PM	2408EU22B	ALASKA CARGO	027-33482256	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•						•													
	RHP02	WL	RHP02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:20 PM	2408AK22B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled												•							•					
	RHP02	WL	RHP02-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-20 12:20 PM	2408SG22B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP03	WL	RHP03-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 08:55 AM	2408SG23B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																								•
	RHP03	WL	RHP03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:25 AM	2408AP23B	FEDEX	278629540705	8/22/2024	8/23/2024		24H0157	7	7	S2BVEM	Sampled							•																	
	RHP03	WL	RHP03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:25 AM	2408EU23B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•						•													
	RHP03	WL	RHP03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:25 AM	2408AK23B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•							•					
	RHP03	WL	RHP03-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 10:25 AM	2408SG23B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP04A	WL	RHP04A-WGN01B-2408B	0	0	WG	N	1	B	2024-08-22 11:40 AM	2408SG24B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled																								•
	RHP04A	WL	RHP04A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 01:10 PM	2408AP24B	FEDEX	278672052451	8/23/2024	8/24/2024		24H0170	7	7	S2BVEM	Sampled							•																	
	RHP04A	WL	RHP04A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 01:10 PM	2408EU24B	ALASKA CARGO	027-33482260	8/22/2024	8/23/2024		580-143208-1	7	7	S4VEM	Sampled			•		•						•													
	RHP04A	WL	RHP04A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 01:10 PM	2408AK24B	ALASKA CARGO	027-33792161	8/22/2024	8/23/2024		1244710	7	7	S2BVEM	Sampled												•							•					
	RHP04A	WL	RHP04A-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-22 01:10 PM	2408SG24B	UNITED CARGO	016-90706523	8/22/2024	8/24/2024		FC18287	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:45 AM	2408AP25A	FEDEX	278258708493	8/13/2024	8/14/2024		24H0077	7	7	S2BVEM	Sampled							•																	
	RHP04B	WL	RHP04B-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:45 AM	2408EU25A	ALASKA CARGO	027-33792032	8/13/2024	8/14/2024		580-142912-1	7	7	S2BVEM	Sampled			•		•						•													
	RHP04B	WL	RHP04B-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:45 AM	2408AK25A	ALASKA CARGO	027-33482234	8/13/2024	8/14/2024		1244440	7	7	S2BVEM	Sampled			•		•						•													
	RHP04B	WL	RHP04B-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 11:45 AM	2408SG25A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled; No SGC					•	•				•			•						•	•			•	•
	RHP04B	WL	RHP04B-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 12:15 PM	2408AP25B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled							•																	

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 (BNA SIME)	EDB SGS (SW8011)	Ferrous Iron (A 3500B)	Metals Ca Na Mg Mn K (SW6010D)	Methane (RSK175)	Nitrate Nitrite (E353.2)	NPOC (SW9060A)	Phenol SGS (SW8270)	SC (A2510B)	Silica (A4500D)	TDS (A 2540C)	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)
	RHP04B	WL	RHP04B-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 12:15 PM	2408EU25B	ALASKA CARGO	027-33792124	8/27/2024	8/28/2024	(b) (4)	580-143311-1	7	7	S2BVEM	Sampled			•		•					•													
	RHP04B	WL	RHP04B-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 12:15 PM	2408AK25B	ALASKA CARGO	027-34033812	8/27/2024	8/28/2024		1244805	7	7	S2BVEM	Sampled											•												
	RHP04C	WL	RHP04C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 01:20 PM	2408AP26A	FEDEX	278305544852	8/14/2024	8/15/2024		24H0087	7	7	S2BVEM	Sampled								•															
	RHP04C	WL	RHP04C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 01:20 PM	2408EU26A	ALASKA CARGO	027-33792032	8/13/2024	8/14/2024		580-142912-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP04C	WL	RHP04C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 01:20 PM	2408AK26A	ALASKA CARGO	027-33482234	8/13/2024	8/14/2024		1244440	7	7	S2BVEM	Sampled											•												
	RHP04C	WL	RHP04C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-13 01:20 PM	2408SG26A	UNITED CARGO	016-35591916	8/13/2024	8/15/2024		FC17965	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP04C	WL	RHP04C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 02:05 PM	2408AP26B	FEDEX	278858822809	8/28/2024	8/29/2024		24H0207	7	7	S2BVEM	Sampled							•																
	RHP04C	WL	RHP04C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 02:05 PM	2408EU26B	ALASKA CARGO	027-33792124	8/27/2024	8/28/2024		580-143311-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP04C	WL	RHP04C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 02:05 PM	2408AK26B	ALASKA CARGO	027-34033812	8/27/2024	8/28/2024		1244805	7	7	S2BVEM	Sampled											•												
	RHP05	WL	RHP05-WGN01B-2408A	0	0	WG	N	1	B	2024-08-09 08:17 AM	2408SG27A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled																							•
	RHP05	WL	RHP05-WGN01B-2408B	0	0	WG	N	1	B	2024-08-23 12:55 PM	2408SG27B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled																							•
	RHP05	WL	RHP05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 08:55 AM	2408AP27A	FEDEX	27811988489	8/9/2024	8/10/2024		24H0060	7	7	S2BVEM	Sampled								•															
	RHP05	WL	RHP05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 08:55 AM	2408EU27A	ALASKA CARGO	027-33482175	8/9/2024	8/10/2024		580-142844-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP05	WL	RHP05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 08:55 AM	2408AK27A	ALASKA CARGO	016-33482223	8/12/2024	8/13/2024		1244418	7	7	S2BVEM	Sampled											•												
	RHP05	WL	RHP05-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-09 08:55 AM	2408SG27A	UNITED CARGO	016-04958376	8/9/2024	8/10/2024		FC17872	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP05	WL	RHP05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 02:05 PM	2408AP27B	FEDEX	278760611619	8/26/2024	8/27/2024		24H0185	7	7	S2BVEM	Sampled								•															
	RHP05	WL	RHP05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 02:05 PM	2408EU27B	ALASKA CARGO	027-33482271	8/23/2024	8/24/2024		580-143256-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP05	WL	RHP05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 02:05 PM	2408AK27B	ALASKA CARGO	027-34033790	8/26/2024	8/27/2024		1244802	7	7	S2BVEM	Sampled											•												
	RHP05	WL	RHP05-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-23 02:05 PM	2408SG27B	UNITED CARGO	016-90706534	8/23/2024	8/25/2024		FC18309	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP06	WL	RHP06-WGN01B-2408A	0	0	WG	N	1	B	2024-08-06 08:40 AM	2408SG30A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled																							•
	RHP06	WL	RHP06-WGN01B-2408B	0	0	WG	N	1	B	2024-08-19 08:30 AM	2408SG30B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled																							•
	RHP06	WL	RHP06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 09:20 AM	2408AP30A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled								•															
	RHP06	WL	RHP06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 09:20 AM	2408EU30A	ALASKA CARGO	027-33791984	8/6/2024	8/8/2024		580-142721-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP06	WL	RHP06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 09:20 AM	2408AK33A	ALASKA CARGO	027-33482186	8/6/2024	8/8/2024		1244294	7	7	S2BVEM	Sampled											•												
	RHP06	WL	RHP06-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 09:20 AM	2408SG30A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP06	WL	RHP06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 09:15 AM	2408AP30B	FEDEX	27848633710	8/19/2024	8/20/2024		24H0114	7	7	S2BVEM	Sampled								•															
	RHP06	WL	RHP06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 09:15 AM	2408EU30B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		580-143072-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP06	WL	RHP06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 09:15 AM	2408AK30B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled											•												
	RHP06	WL	RHP06-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 09:15 AM	2408SG30B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP07	WL	RHP07-WGN01B-2408A	0	0	WG	N	1	B	2024-08-07 09:35 AM	2408SG28A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled																							•
	RHP07	WL	RHP07-WGN01B-2408B	0	0	WG	N	1	B	2024-08-21 09:10 AM	2408SG28B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled																							•
	RHP07	WL	RHP07-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 10:05 AM	2408AP28A	FEDEX	27803054720	8/7/2024	8/8/2024		24H0044	7	7	S2BVEM	Sampled								•															
	RHP07	WL	RHP07-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 10:05 AM	2408EU28A	ALASKA CARGO	027-33791995	8/7/2024	8/8/2024		580-142762-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP07	WL	RHP07-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 10:05 AM	2408AK28A	ALASKA CARGO	027-33482190	8/7/2024	8/8/2024		1244295	7	7	S2BVEM	Sampled											•												
	RHP07	WL	RHP07-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-07 10:05 AM	2408SG28A	UNITED CARGO	016-04957573	8/7/2024	8/9/2024		FC17828	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP07	WL	RHP07-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 09:55 AM	2408AP28B	FEDEX	27858427620	8/21/2024	8/22/2024		24H0141	7	7	S2BVEM	Sampled								•															
	RHP07	WL	RHP07-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 09:55 AM	2408EU28B	ALASKA CARGO	027-33792113	8/21/2024	8/22/2024		580-143167-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP07	WL	RHP07-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 09:55 AM	2408AK28B	ALASKA CARGO	027-33792146	8/21/2024	8/22/2024		1244686	7	7	S2BVEM	Sampled											•												
	RHP07	WL	RHP07-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-21 09:55 AM	2408SG28B	UNITED CARGO	016-90706512	8/21/2024	8/23/2024		FC18228	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP08	WL	RHP08-WGFD01B-2408A	0	0	WG	FD	1	B	2024-08-06 11:35 AM	2408SG33A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGFD01B-2408B	0	0	WG	FD	1	B	2024-08-19 10:30 AM	2408SG33B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGFD01LF-2408A	0	0	WG	FD	1	LF	2024-08-06 12:05 PM	2408SG33A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled					•						•									•	•		•	•
	RHP08	WL	RHP08-WGFD01LF-2408B	0	0	WG	FD	1	LF	2024-08-19 11:20 AM	2408SG33B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled; No SGC					•						•									•	•		•	•
	RHP08	WL	RHP08-WGN01B-2408A	0	0	WG	N	1	B	2024-08-06 11:35 AM	2408SG33A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGN01B-2408B	0	0	WG	N	1	B	2024-08-19 10:30 AM	2408SG33B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408AP33A	FEDEX	277982921298	8/6/2024	8/7/2024		24H0029	7	7	S4VEM	Sampled								•															
	RHP08	WL	RHP08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408EU33A	ALASKA CARGO	027-33791984	8/6/2024	8/8/2024		580-142721-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP08	WL	RHP08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408AK33A	ALASKA CARGO	027-33482186	8/6/2024	8/8/2024		1244294	7	7	S2BVEM	Sampled											•												
	RHP08	WL	RHP08-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-06 12:05 PM	2408SG33A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP08	WL	RHP08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 11:20 AM	2408AP33B	FEDEX	27848633710	8/19/2024	8/20/2024		24H0114	7	7	S2BVEM	Sampled								•															
	RHP08	WL	RHP08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 11:20 AM	2408EU33B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		580-143072-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP08	WL	RHP08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 11:20 AM	2408AK33B	ALASKA CARGO	027-33792076	8/19/2024	8/20/2024		1244605	7	7	S4VEM	Sampled											•												
	RHP08	WL	RHP08-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-19 11:20 AM	2408SG33B	UNITED CARGO	016-90596811	8/19/2024	8/21/2024		FC18142	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP08C	WL	RHP08C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 01:37 PM	2408AP44A	FEDEX	278351307071	8/15/2024	8/16/2024		24H0104	7	7	S2BVEM	Sampled		•				•						•											
	RHP08C	WL	RHP08C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 01:37 PM	2408EN44A	UNITED CARGO	016-05195433	8/14/2024	8/15/2024		B24081444	7	7	S2BVEM	Sampled																					•	•	
	RHP08C	WL	RHP08C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 01:37 PM	2408EU44A	ALASKA CARGO	027-33792043	8/14/2024	8/16/2024		580-142947-1	7	7	S2BVEM	Sampled			•	•				•		•			•		•								
	RHP08C	WL	RHP08C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 01:37 PM	2408AK44A	ALASKA CARGO	027-33482245	8/14/2024	8/15/2024		1244480	7	7	S2BVEM	Sampled											•												
	RHP08C	WL	RHP08C-WGN01LF-2408A	0	0	WG	N	1	LF	2024-08-14 01:37 PM	2408SG44A	UNITED CARGO	016-35591905	8/14/2024	8/16/2024		FC18016	7	7	S4VEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHP08C	WL	RHP08C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 10:50 AM	2408AP44B	FEDEX	278810100167	8/27/2024	8/28/2024		24H0193	7	7	S2BVEM	Sampled								•															
	RHP08C	WL	RHP08C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 10:50 AM	2408EU44B	ALASKA CARGO	027-33792124	8/27/2024	8/28/2024		580-143311-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP08C	WL	RHP08C-WGN01LF-2408B	0	0	WG	N	1	LF	2024-08-27 10:50 AM	2408AK44B	ALASKA CARGO	027-34033812	8/27/2024	8/28/2024		1244805	7	7	S2BVEM	Sampled											•												
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2408A	0	0	WG	FD	1	G	2024-08-06 01:40 PM	2408SG42A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled; No SGC					•						•									•	•		•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2408B	0	0	WG	FD	1	G	2024-08-20 01:00 PM	2408SG42B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•						•									•	•		•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408A	0	0	WG	N	1	G	2024-08-06 01:40 PM	2408AP42A	FEDEX	278030544720	8/7/2024	8/8/2024		24H0044	7	7	S2BVEM	Sampled								•															
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408A	0	0	WG	N	1	G	2024-08-06 01:40 PM	2408EU42A	ALASKA CARGO	027-33791984	8/6/2024	8/8/2024		580-142721-1	7	7	S2BVEM	Sampled			•		•						•												
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408A	0	0	WG	N	1	G	2024-08-06 01:40 PM	2408AK42A	ALASKA CARGO	027-33482186	8/6/2024	8/8/2024		1244294	7	7	S2BVEM	Sampled											•												
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408A	0	0	WG	N	1	G	2024-08-06 01:40 PM	2408SG42A	UNITED CARGO	016-04956921	8/6/2024	8/8/2024		FC17772	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408B	0	0	WG	N	1	G	2024-08-20 01:00 PM	2408AP42B	FEDEX	27858427620	8/21/2024	8/22/2024		24H0141	7	7	S2BVEM	Sampled								•															
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408B	0	0	WG	N	1	G	2024-08-20 01:00 PM	2408EU42B	ALASKA CARGO	027-33482256	8/20/2024	8/21/2024		580-143109-1	7	7	S2BVEM	Sampled			•		•						•												
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408B	0	0	WG	N	1	G	2024-08-20 01:00 PM	2408AK42B	ALASKA CARGO	027-33792080	8/20/2024	8/21/2024		1244651	7	7	S4VEM	Sampled								•															
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2408B	0	0	WG	N	1	G	2024-08-20 01:00 PM	2408SG42B	UNITED CARGO	016-90596822	8/20/2024	8/22/2024		FC18177	7	7	S2BVEM	Sampled; No SGC					•	•					•									•	•		•	•
																						S2BVEM Count	*1*	*64*	*1*	*63*	*73*	*65*	*60*	*1*	*65*	*64*	*57*	*73*	*1*	*1*	*1*	*57*	*73*	*73*	*1*	*1*	*73*	*130*
																						S4VEM Count	*0*	*8*	*0*	*8*	*9*	*7*	*12*	*0*	*7*	*8*	*15*	*9*	*0*	*0*	*0*	*15*	*9*	*9*	*0*	*0*	*9*	*16*
																						Site Location Count	*1*	*72*	*1*	*71*	*82*	*72*	*72*	*1*	*72*	*72*	*72*	*82*	*1*	*1*	*1*	*72*	*82*	*82*	*1*	*1*	*82*	*146*
																						Total Location Count	*1*	*82*	*1*	*81*	*92*	*82*	*82*	*1*	*82*	*82*	*82*	*92*	*1*	*1*	*1*	*82*	*92*	*92*	*1*	*1*	*92*	*158*

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 (BNA3IME)	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-2409A	0	0	WG	N	1	B	2024-09-12 08:46 AM	2409SG20A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024	(D) (4)	FC18841	7	7	S2BVEM	Sampled																							•
	NMW24	WL	NMW24-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 09:10 AM	2409AP20A	FEDEX	279442048722	9/12/2024	9/13/2024		24 0106	7	7	S2BVEM	Sampled							•															
	NMW24	WL	NMW24-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 09:10 AM	2409EU20A	ALASKA CARGO	027-34033860	9/12/2024	9/13/2024		580-143831-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW24	WL	NMW24-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 09:10 AM	2409AK20A	ALASKA CARGO	027-34033952	9/12/2024	9/13/2024		1245281	7	7	S2BVEM	Sampled										•												
	NMW24	WL	NMW24-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 09:10 AM	2409SG20A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
																						S2BVEM Count	*0*	*2*	*0*	*2*	*2*	*2*	*0*	*2*	*2*	*2*	*2*	*0*	*0*	*0*	*2*	*2*	*2*	*0*	*0*	*0*	*2*	*4*
																						Site Location Count	*0*	*2*	*0*	*2*	*2*	*2*	*0*	*2*	*2*	*2*	*2*	*0*	*0*	*0*	*2*	*2*	*2*	*0*	*0*	*2*	*4*
Halawa Correctional Facility	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 09:15 AM	2409AP29A	FEDEX	279484937163	9/13/2024	9/16/2024		24 0119	7	7	S2BVEM	Sampled							•															
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 09:15 AM	2409EU29A	ALASKA CARGO	027-34033871	9/13/2024	9/14/2024		580-143874-1	7	7	S2BVEM	Sampled			•		•					•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 09:15 AM	2409AK29A	ALASKA CARGO	027-34033963	9/16/2024	9/4/2024		1245344	7	7	S2BVEM	Sampled										•												
	HDMW2253-03	WL	HDMW2253-03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 09:15 AM	2409SG29A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 02:30 PM	2409AP10A	FEDEX	279168813320	9/5/2024	9/6/2024		24 0044	7	7	S2BVEM	Sampled							•															
	RHMW11-05	WL	RHMW11-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 02:30 PM	2409EU10A	ALASKA CARGO	027-33792135	9/4/2024	9/5/2024		580-143523-1	7	7	S2BVEM	Sampled			•		•					•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 02:30 PM	2409AK10A	ALASKA CARGO	027-33792150	9/4/2024	9/5/2024		1245062	7	7	S4VEM	Sampled										•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 02:30 PM	2409SG10A	UNITED CARGO	016-90454022	9/4/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled						•	•						•		•					•	•	
	RHMW11-05	WL	RHMW11-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 02:30 PM	2409SG10A	UNITED CARGO	016-90454022	9/4/2024	9/7/2024		FC18632	7	7	S2BVEM	Sampled										•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 01:20 PM	2409AK10B	ALASKA CARGO	027-34034000	9/18/2024	9/19/2024		1245408	7	7	S2BVEM	Sampled										•												
	RHMW11-05	WL	RHMW11-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 01:20 PM	2409SG10B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	RHMW12A	WL	RHMW12A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:50 AM	2409AP11A	FEDEX	279484937163	9/13/2024	9/16/2024		24 0119	7	7	S2BVEM	Sampled							•															
	RHMW12A	WL	RHMW12A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:50 AM	2409EU11A	ALASKA CARGO	027-34033871	9/13/2024	9/14/2024		580-143874-1	7	7	S2BVEM	Sampled			•		•					•												
	RHMW12A	WL	RHMW12A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:50 AM	2409AK11A	ALASKA CARGO	027-34033963	9/16/2024	9/4/2024		1245344	7	7	S2BVEM	Sampled										•												
	RHMW12A	WL	RHMW12A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:50 AM	2409SG11A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:25 AM	2409AP13A	FEDEX	279119878683	9/4/2024	9/5/2024		24 0026	7	7	S2BVEM	Sampled							•															
	RHMW14-03	WL	RHMW14-03-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:25 AM	2409EU13A	ALASKA CARGO	027-33792135	9/4/2024	9/5/2024		580-143523-1	7	7	S2BVEM	Sampled			•		•					•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:25 AM	2409AK13A	ALASKA CARGO	027-33792150	9/4/2024	9/5/2024		1245062	7	7	S4VEM	Sampled										•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:25 AM	2409SG13A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	RHMW14-03	WL	RHMW14-03-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 09:50 AM	2409AP13B	FEDEX	279665179569	9/18/2024	9/19/2024		24 0159	7	7	S2BVEM	Sampled							•															
	RHMW14-03	WL	RHMW14-03-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 09:50 AM	2409AK13B	ALASKA CARGO	027-34034000	9/18/2024	9/19/2024		1245408	7	7	S2BVEM	Sampled										•												
	RHMW14-03	WL	RHMW14-03-WGN01G-2409B	0	0	WG	N	1	G	2024-09-18 09:50 AM	2409SG13B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
																						S2BVEM Count	*0*	*8*	*0*	*8*	*7*	*7*	*8*	*0*	*7*	*8*	*6*	*7*	*0*	*0*	*0*	*6*	*7*	*8*	*0*	*0*	*7*	*7*
																						S4VEM Count	*0*	*0*	*0*	*0*	*1*	*1*	*0*	*0*	*1*	*0*	*2*	*1*	*0*	*0*	*0*	*2*	*1*	*0*	*0*	*0*	*1*	*1*
																						Site Location Count	*0*	*8*	*0*	*8*	*8*	*8*	*8*	*0*	*8*	*8*	*8*	*8*	*0*	*0*	*0*	*8*	*8*	*8*	*0*	*0*	*8*	*8*
	NMW25	WL	NMW25-WGN01B-2409A	0	0	WG	N	1	B	2024-09-12 12:05 PM	2409SG31A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled																						•
	NMW25	WL	NMW25-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 12:50 PM	2409AP31A	FEDEX	279442048722	9/12/2024	9/13/2024		24 0106	7	7	S2BVEM	Sampled							•															
	NMW25	WL	NMW25-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 12:50 PM	2409EU31A	ALASKA CARGO	027-34033860	9/12/2024	9/13/2024		580-143831-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW25	WL	NMW25-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 12:50 PM	2409AK31A	ALASKA CARGO	027-34033952	9/12/2024	9/13/2024		1245281	7	7	S2BVEM	Sampled										•												
	NMW25	WL	NMW25-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 12:50 PM	2409SG31A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	NMW26	WL	NMW26-WGN01B-2409A	0	0	WG	N	1	B	2024-09-11 10:40 AM	2409SG37A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled																						•
	NMW26	WL	NMW26-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 12:45 PM	2409AP37A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled							•															
	NMW26	WL	NMW26-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 12:45 PM	2409EU37A	ALASKA CARGO	027-3403856	9/11/2024	9/12/2024		580-143783-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW26	WL	NMW26-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 12:45 PM	2409SG37A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	NMW30	WL	NMW30-WGN01B-2409A	0	0	WG	N	1	B	2024-09-12 10:15 AM	2409SG35A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled																						•
	NMW30	WL	NMW30-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 11:00 AM	2409AP35A	FEDEX	279442048722	9/12/2024	9/13/2024		24 0106	7	7	S2BVEM	Sampled							•															
	NMW30	WL	NMW30-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 11:00 AM	2409EU35A	ALASKA CARGO	027-34033860	9/12/2024	9/13/2024		580-143831-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW30	WL	NMW30-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 11:00 AM	2409AK35A	ALASKA CARGO	027-34033952	9/12/2024	9/13/2024		1245281	7	7	S2BVEM	Sampled										•												
	NMW30	WL	NMW30-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 11:00 AM	2409SG35A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	NMW32	WL	NMW32-WGN01B-2409A	0	0	WG	N	1	B	2024-09-11 08:25 AM	2409SG32A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled																						•
	NMW32	WL	NMW32-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:05 AM	2409AP32A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled							•															
	NMW32	WL	NMW32-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:05 AM	2409EU32A	ALASKA CARGO	027-3403856	9/11/2024	9/12/2024		580-143783-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW32	WL	NMW32-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:05 AM	2409SG32A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	NMW33	WL	NMW33-WGN01B-2409A	0	0	WG	N	1	B	2024-09-12 08:07 AM	2409SG34A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled																						•
	NMW33	WL	NMW33-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 08:35 AM	2409AP34A	FEDEX	279442048722	9/12/2024	9/13/2024		24 0106	7	7	S2BVEM	Sampled							•															
	NMW33	WL	NMW33-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 08:35 AM	2409EU34A	ALASKA CARGO	027-34033860	9/12/2024	9/13/2024		580-143831-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW33	WL	NMW33-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 08:35 AM	2409AK34A	ALASKA CARGO	027-34033952	9/12/2024	9/13/2024		1245281	7	7	S2BVEM	Sampled										•												
	NMW33	WL	NMW33-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 08:35 AM	2409SG34A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	NMW34	WL	NMW34-WGN01B-2409A	0	0	WG	N	1	B	2024-09-12 09:35 AM	2409SG39A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled																						•
	NMW34	WL	NMW34-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 10:05 AM	2409AP39A	FEDEX	279442048722	9/12/2024	9/13/2024		24 0106	7	7	S2BVEM	Sampled							•															
	NMW34	WL	NMW34-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 10:05 AM	2409EU39A	ALASKA CARGO	027-34033860	9/12/2024	9/13/2024		580-143831-1	7	7	S2BVEM	Sampled			•		•					•												
	NMW34	WL	NMW34-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 10:05 AM	2409AK39A	ALASKA CARGO	027-34033952	9/12/2024	9/13/2024		1245281	7	7	S2BVEM	Sampled										•												
	NMW34	WL	NMW34-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-12 10:05 AM	2409SG39A	UNITED CARGO	016-58165170	9/12/2024	9/14/2024		FC18841	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 03:00 PM	2409AP40A	FEDEX	279349277921	9/10/2024	9/11/2024		24 0077	7	7	S2BVEM	Sampled							•															
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 03:00 PM	2409EU40A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled			•		•					•												
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 03:00 PM	2409AK40A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•												
	OWDFMW03A	WL	OWDFMW03A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 03:00 PM	2409SG40A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:45 AM	2409AP41A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled							•															
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:45 AM	2409EU41A	ALASKA CARGO	027-3403856	9/11/2024	9/12/2024		580-143783-1	7	7	S2BVEM	Sampled			•		•					•												
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:45 AM	2409SG41A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled						•	•						•		•					•	•	
	OWDFMW08A	WL	OWDFMW08A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 09:45 AM	2409SG41A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S4VEM	Sampled																						•
	RHMW01R	WL	RHMW01R-WGFD01B-2409A	0	0	WG	FD	1	B	2024-09-03 01:40 PM	2409SG01A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																						•
	RHMW01R	WL	RHMW01R-WGFD01B-2409B	0	0	WG	FD	1	B	2024-09-16 09:35 AM	2409SG01B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled																						•
	RHMW01R	WL	RHMW01R-WGFD01LF-2409A	0	0	WG	FD	1	LF	2024-09-03 02:30 PM	2409SG01A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled						•							•		•					•	•	
	RHMW01R	WL	RHMW01R-WGFD01LF-2409B	0	0	WG	FD	1	LF	2024-09-16 10:15 AM	2409SG01B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled						•							•		•					•	•	
	RHMW01R	WL	RHMW01R-WGN01B-2409A	0	0	WG	N	1	B	2024-09-03 01:40 PM	2409SG01A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																						•
	RHMW01R	WL	RHMW01R-WGN01B-2409B	0	0	WG	N	1	B	2024-09-16 09:35 AM	2409SG01B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled																						•
	RHMW01R	WL	RHMW01R-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 02:30 PM	2409AP01A	FEDEX	279119878683	9/4/2024	9/5/2024		24 0026	7	7	S2BVEM	Sampled							•															
	RHMW01R	WL	RHMW01R-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 02:30 PM	2409EU01A	ALASKA CARGO	027-33792194	9/3/2024	9/4/2024		580-143492-1	7	7	S2BVEM	Sampled			•		•					•												
	RHMW01R	WL	RHMW01R-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 02:30 PM	2409AK01A	ALASKA CARGO	027-33792220	9/3/2024	9/4/2024		1244989	7	7	S2BVEM	Sampled										•												
	RHMW01R	WL	RHMW01R-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 02:30 PM	2409SG01A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	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 (BNA5IME)	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)
Red Hill Bulk Fuel Storage Facility	RHMW01R	WL	RHMW01R-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:15 AM	2409AP01B	FEDEX	279569496492	9/16/2024	9/17/2024	(b) (4)	24 0128	7	7	S2BVEM	Sampled							•																
	RHMW01R	WL	RHMW01R-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:15 AM	2409EU01B	ALASKA CARGO	027-34033926	9/16/2024	9/17/2024		580-143931-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW01R	WL	RHMW01R-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:15 AM	2409AK01B	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344	7	7	S2BVEM	Sampled										•							•						
	RHMW01R	WL	RHMW01R-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:15 AM	2409SG01B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW02	WL	RHMW02-WGFD01B-2409A	0	0	WG	FD	1	B	2024-09-03 11:05 AM	2409SG02A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGFD01LF-2409A	0	0	WG	FD	1	LF	2024-09-03 11:45 AM	2409SG02A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled				•					•									•	•		•	•	
	RHMW02	WL	RHMW02-WGN01B-2409A	0	0	WG	N	1	B	2024-09-03 11:05 AM	2409SG02A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																							•
	RHMW02	WL	RHMW02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 11:45 AM	2409AP02A	FEDEX	279065402240	9/3/2024	9/4/2024		24 0015	7	7	S2BVEM	Sampled							•																
	RHMW02	WL	RHMW02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 11:45 AM	2409EU02A	ALASKA CARGO	027-33792194	9/3/2024	9/4/2024		580-143492-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW02	WL	RHMW02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 11:45 AM	2409AK02A	ALASKA CARGO	027-33792220	9/3/2024	9/4/2024		1244989	7	7	S2BVEM	Sampled										•							•						
	RHMW02	WL	RHMW02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 11:45 AM	2409SG02A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW03	WL	RHMW03-WGN01B-2409A	0	0	WG	N	1	B	2024-09-03 09:25 AM	2409SG03A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																							•
	RHMW03	WL	RHMW03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:50 AM	2409AP03A	FEDEX	279065402240	9/3/2024	9/4/2024		24 0015	7	7	S2BVEM	Sampled							•																
	RHMW03	WL	RHMW03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:50 AM	2409EU03A	ALASKA CARGO	027-33792194	9/3/2024	9/4/2024		580-143492-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW03	WL	RHMW03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:50 AM	2409AK03A	ALASKA CARGO	027-33792220	9/3/2024	9/4/2024		1244989	7	7	S2BVEM	Sampled										•							•						
	RHMW03	WL	RHMW03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:50 AM	2409SG03A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW04	WL	RHMW04-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 09:15 AM	2409SG04B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW05	WL	RHMW05-WGN01B-2409A	0	0	WG	N	1	B	2024-09-05 11:00 AM	2409SG05A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled																							•
	RHMW05	WL	RHMW05-WGN01B-2409B	0	0	WG	N	1	B	2024-09-18 10:55 AM	2409SG05B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled																							•
	RHMW05	WL	RHMW05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 11:30 AM	2409AP05A	FEDEX	279168813320	9/5/2024	9/6/2024		24 0044	7	7	S2BVEM	Sampled																							
	RHMW05	WL	RHMW05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 11:30 AM	2409EU05A	ALASKA CARGO	027-34033823	9/5/2024	9/6/2024		580-143573-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW05	WL	RHMW05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 11:30 AM	2409AK05A	ALASKA CARGO	027-33792242	9/5/2024	9/6/2024		1245065	7	7	S2BVEM	Sampled										•							•						
	RHMW05	WL	RHMW05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 11:30 AM	2409SG05A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled				•	•				•									•	•		•	•	
	RHMW05	WL	RHMW05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 11:30 AM	2409SG05A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S2BVEM	Sampled																							•
	RHMW05	WL	RHMW05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 11:25 AM	2409AP05B	FEDEX	279665179569	9/18/2024	9/19/2024		24 0159	7	7	S2BVEM	Sampled																							
	RHMW05	WL	RHMW05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 11:25 AM	2409AK05B	ALASKA CARGO	027-34034000	9/18/2024	9/19/2024		1245408	7	7	S2BVEM	Sampled										•							•						
	RHMW05	WL	RHMW05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 11:25 AM	2409SG05B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW06	WL	RHMW06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 11:45 AM	2409AP06B	FEDEX	279711446914	9/19/2024	9/20/2024		24 0175	7	7	S4VEM	Sampled																							
	RHMW06	WL	RHMW06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 11:45 AM	2409AK06B	ALASKA CARGO	027- 34033941	9/19/2024	9/20/2024		1245450	7	7	S2BVEM	Sampled										•							•						
	RHMW08	WL	RHMW08-WGN01B-2409A	0	0	WG	N	1	B	2024-09-03 08:15 AM	2409SG07A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled																							•
	RHMW08	WL	RHMW08-WGN01B-2409B	0	0	WG	N	1	B	2024-09-16 09:00 AM	2409SG07B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled																							•
	RHMW08	WL	RHMW08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:00 AM	2409AP07A	FEDEX	279065402240	9/3/2024	9/4/2024		24 0015	7	7	S2BVEM	Sampled																							
	RHMW08	WL	RHMW08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:00 AM	2409EU07A	ALASKA CARGO	027-33792194	9/3/2024	9/4/2024		580-143492-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW08	WL	RHMW08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:00 AM	2409AK07A	ALASKA CARGO	027-33792220	9/3/2024	9/4/2024		1244989	7	7	S2BVEM	Sampled										•							•						
	RHMW08	WL	RHMW08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 09:00 AM	2409SG07A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW08	WL	RHMW08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:20 AM	2409AP07B	FEDEX	279569496492	9/16/2024	9/17/2024		24 0128	7	7	S2BVEM	Sampled																							
	RHMW08	WL	RHMW08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:20 AM	2409EU07B	ALASKA CARGO	027-34033926	9/16/2024	9/17/2024		580-143931-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW08	WL	RHMW08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:20 AM	2409AK07B	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344	7	7	S2BVEM	Sampled										•							•						
	RHMW08	WL	RHMW08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 10:20 AM	2409SG07B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW09	WL	RHMW09-WGFD01B-2409B	0	0	WG	FD	1	B	2024-09-20 11:10 AM	2409SG08B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled																							•
	RHMW09	WL	RHMW09-WGFD01LF-2409B	0	0	WG	FD	1	LF	2024-09-20 12:00 PM	2409SG08B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled				•					•									•	•		•	•	
	RHMW09	WL	RHMW09-WGN01B-2409A	0	0	WG	N	1	B	2024-09-09 12:55 PM	2409SG08A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•
	RHMW09	WL	RHMW09-WGN01B-2409B	0	0	WG	N	1	B	2024-09-20 11:10 AM	2409SG08B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled																							•
	RHMW09	WL	RHMW09-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:45 PM	2409AP08A	FEDEX	279349277921	9/10/2024	9/11/2024		24 0077	7	7	S2BVEM	Sampled																							
	RHMW09	WL	RHMW09-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:45 PM	2409EU08A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled		•		•					•														
	RHMW09	WL	RHMW09-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:45 PM	2409AK08A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•							•						
	RHMW09	WL	RHMW09-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:45 PM	2409SG08A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW09	WL	RHMW09-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 12:00 PM	2409SG08B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW10	WL	RHMW10-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:35 AM	2409AP09A	FEDEX	279213233311	9/6/2024	9/7/2024		24 0056	7	7	S4VEM	Sampled																							
	RHMW10	WL	RHMW10-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:35 AM	2409EU09A	ALASKA CARGO	027-34033845	9/6/2024	9/7/2024		580-143608-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW10	WL	RHMW10-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:35 AM	2409AK09A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•							•						
	RHMW13-04	WL	RHMW13-04-WGN01G-2409A	0	0	WG	N	1	G	2024-09-10 11:00 AM	2409AP12A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled																							
	RHMW13-04	WL	RHMW13-04-WGN01G-2409A	0	0	WG	N	1	G	2024-09-10 11:00 AM	2409EU12A	ALASKA CARGO	027-33792216	9/10/2024	9/11/2024		580-143713-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW13-04	WL	RHMW13-04-WGN01G-2409A	0	0	WG	N	1	G	2024-09-10 11:00 AM	2409AK12A	ALASKA CARGO	027-34033915	9/10/2024	9/11/2024		1245223	7	7	S2BVEM	Sampled										•							•						
	RHMW13-04	WL	RHMW13-04-WGN01G-2409A	0	0	WG	N	1	G	2024-09-10 11:00 AM	2409SG12A	UNITED CARGO	016-58165155	9/10/2024	9/12/2024		FC18728	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW15-05	WL	RHMW15-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-05 11:30 AM	2409AP14A	FEDEX	279213233311	9/6/2024	9/7/2024		24 0056	7	7	S4VEM	Sampled																							
	RHMW15-05	WL	RHMW15-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-05 11:30 AM	2409EU14A	ALASKA CARGO	027-34033823	9/5/2024	9/6/2024		580-143573-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW15-05	WL	RHMW15-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-05 11:30 AM	2409AK14A	ALASKA CARGO	027-33792242	9/5/2024	9/6/2024		1245065	7	7	S2BVEM	Sampled										•							•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-05 11:30 AM	2409SG14A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled				•	•				•									•	•		•	•	
	RHMW15-05	WL	RHMW15-05-WGN01G-2409A	0	0	WG	N	1	G	2024-09-05 11:30 AM	2409SG14A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S2BVEM	Sampled																							•
	RHMW15-05	WL	RHMW15-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-16 10:00 AM	2409AP14B	FEDEX	279569496492	9/16/2024	9/17/2024		24 0128	7	7	S2BVEM	Sampled																							
	RHMW15-05	WL	RHMW15-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-16 10:00 AM	2409EU14B	ALASKA CARGO	027-34033926	9/16/2024	9/17/2024		580-143931-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW15-05	WL	RHMW15-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-16 10:00 AM	2409AK14B	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344	7	7	S2BVEM	Sampled										•							•						
	RHMW15-05	WL	RHMW15-05-WGN01G-2409B	0	0	WG	N	1	G	2024-09-16 10:00 AM	2409SG14B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW16	WL	RHMW16-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 10:50 AM	2409AP15A	FEDEX	279065402240	9/3/2024	9/4/2024		24 0015	7	7	S2BVEM	Sampled																							
	RHMW16	WL	RHMW16-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 10:50 AM	2409EU15A	ALASKA CARGO	027-33792194	9/3/2024	9/4/2024		580-143492-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW16	WL	RHMW16-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 10:50 AM	2409AK15A	ALASKA CARGO	027-33792220	9/3/2024	9/4/2024		1244989	7	7	S2BVEM	Sampled										•							•						
	RHMW16	WL	RHMW16-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-03 10:50 AM	2409SG15A	UNITED CARGO	016-20229871	9/3/2024	9/5/2024		FC18543	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW16	WL	RHMW16-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 09:35 AM	2409AP15B	FEDEX	279711446914	9/19/2024	9/20/2024		24 0175	7	7	S4VEM	Sampled																							
	RHMW16	WL	RHMW16-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 09:35 AM	2409AK15B	ALASKA CARGO	027- 34033941	9/19/2024	9/20/2024		1245450	7	7	S2BVEM	Sampled										•							•						
	RHMW18	WL	RHMW18-WGN01B-2409A	0	0	WG	N	1	B	2024-09-13 08:55 AM	2409SG36A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846	7	7	S2BVEM	Sampled																							•
	RHMW18	WL	RHMW18-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:10 AM	2409AP36A	FEDEX	279484937163	9/13/2024	9/16/2024		24 0119	7	7	S2BVEM	Sampled																							
	RHMW18	WL	RHMW18-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:10 AM	2409EU36A	ALASKA CARGO	027-34033871	9/13/2024	9/14/2024		580-143874-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW18	WL	RHMW18-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:10 AM	2409AK36A	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344	7	7	S2BVEM	Sampled										•							•						
	RHMW18	WL	RHMW18-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 10:10 AM	2409SG36A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846	7	7	S2BVEM	Sampled				•	•				•									•	•		•	•	
	RHMW19	WL	RHMW19-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 12:30 PM	2409AP17A	FEDEX	279213233311	9/6/2024	9/7/2024		24 0056	7	7	S4VEM	Sampled																							
	RHMW19	WL	RHMW19-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 12:30 PM	2409EU17A	ALASKA CARGO	027-34033845	9/6/2024	9/7/2024		580-143608-1	7	7	S2BVEM	Sampled		•		•					•														
	RHMW19	WL	RHMW19-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 12:30 PM	2409AK17A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•							•						
	RHMW21	WL	RHMW21-WGN01B-2409A	0	0	WG	N	1	B	2024-09-04 01:10 PM	2409SG43A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599			S2BVEM	Sampled																							•
	RHMW21	WL	RHMW21-WGN01B-2409B	0	0	WG	N	1	B	2024-09-16 11:35 AM	2409SG43B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893			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 (BNA5IME)	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 Silica Gel Energy (M8015C)	TPH Diesel and Oil TEH Silica Gel Energy (M8015D)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA1 2 TMBs SGS (SW8260D)
	RHMW21	WL	RHMW21-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 01:55 PM	2409AP43A	FEDEX	279168813320	9/5/2024	9/6/2024	(b) (4)	24 0044			S2BVEM	Sampled							•																
	RHMW21	WL	RHMW21-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 01:55 PM	2409EUJ43A	ALASKA CARGO	027-33792135	9/4/2024	9/5/2024		580-143523-1			S2BVEM	Sampled			•		•					•														
	RHMW21	WL	RHMW21-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 01:55 PM	2409AK43A	ALASKA CARGO	027-33792150	9/4/2024	9/5/2024		1245062			S4VEM	Sampled										•														
	RHMW21	WL	RHMW21-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 01:55 PM	2409SG43A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599			S2BVEM	Sampled					•	•				•			•							•	•		
	RHMW21	WL	RHMW21-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 12:25 PM	2409AP43B	FEDEX	279569496492	9/16/2024	9/17/2024		24 0128			S2BVEM	Sampled																								
	RHMW21	WL	RHMW21-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 12:25 PM	2409EUJ43B	ALASKA CARGO	027-34033926	9/16/2024	9/17/2024		580-143931-1			S2BVEM	Sampled			•		•					•														
	RHMW21	WL	RHMW21-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 12:25 PM	2409AK43B	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344			S2BVEM	Sampled										•														
	RHMW21	WL	RHMW21-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 12:25 PM	2409SG43B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893			S2BVEM	Sampled					•	•				•			•							•	•		
	RHMW21	WL	RHMW21-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-16 12:25 PM	2409SG43B	UNITED CARGO	016-38653182	9/16/2024	9/18/2024		FC18893				Sampled																			•			
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2409A	0	0	WG	N	1	B	2024-09-04 09:30 AM	2409SG19A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S2BVEM	Sampled																							•	
	RHMW2254-01	WL	RHMW2254-01-WGN01B-2409B	0	0	WG	N	1	B	2024-09-17 11:12 AM	2409SG19B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled																							•	
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 10:00 AM	2409AP19A	FEDEX	279119878683	9/4/2024	9/5/2024		24 0026	7	7	S2BVEM	Sampled								•																
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 10:00 AM	2409EUJ19A	ALASKA CARGO	027-33792135	9/4/2024	9/5/2024		580-143523-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 10:00 AM	2409AK19A	ALASKA CARGO	027-33792150	9/4/2024	9/5/2024		1245062	7	7	S4VEM	Sampled										•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 10:00 AM	2409SG19A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-04 10:00 AM	2409SG19A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S4VEM	Sampled																				•				
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:45 AM	2409AP19B	FEDEX	279618167630	9/17/2024	9/18/2024		24 0143	7	7	S2BVEM	Sampled								•																
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:45 AM	2409EUJ19B	ALASKA CARGO	027-34033974	9/17/2024	9/18/2024		580-143974-1	7	7	S2BVEM	Sampled			•		•					•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:45 AM	2409AK19B	ALASKA CARGO	027-34487412	9/17/2024	9/18/2024		1245370	7	7	S4VEM	Sampled										•														
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:45 AM	2409SG19B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHMW2254-01	WL	RHMW2254-01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:45 AM	2409SG19B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S4VEM	Sampled																				•				
	RHP01	WL	RHP01-WGN01B-2409A	0	0	WG	N	1	B	2024-09-05 08:15 AM	2409SG21A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled																							•	
	RHP01	WL	RHP01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 08:45 AM	2409AP21A	FEDEX	279168813320	9/5/2024	9/6/2024		24 0044	7	7	S2BVEM	Sampled								•																
	RHP01	WL	RHP01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 08:45 AM	2409EUJ21A	ALASKA CARGO	027-34033823	9/5/2024	9/6/2024		580-143573-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP01	WL	RHP01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 08:45 AM	2409AK21A	ALASKA CARGO	027-33792242	9/5/2024	9/6/2024		1245065	7	7	S2BVEM	Sampled										•														
	RHP01	WL	RHP01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 08:45 AM	2409SG21A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled					•	•				•			•							•	•		
	RHP01	WL	RHP01-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 08:45 AM	2409SG21A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S2BVEM	Sampled																				•				
	RHP01	WL	RHP01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 12:15 PM	2409AP21B	FEDEX	279618167630	9/19/2024	9/20/2024		24 0175	7	7	S4VEM	Sampled								•																
	RHP01	WL	RHP01-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 12:15 PM	2409AK21B	ALASKA CARGO	027- 34033941	9/19/2024	9/20/2024		1245450	7	7	S2BVEM	Sampled										•														
	RHP02	WL	RHP02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 11:40 AM	2409AP22A	FEDEX	279213233311	9/6/2024	9/7/2024		24 0056	7	7	S4VEM	Sampled								•																
	RHP02	WL	RHP02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 11:40 AM	2409EUJ22A	ALASKA CARGO	027-34033845	9/6/2024	9/7/2024		580-143608-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP02	WL	RHP02-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 11:40 AM	2409AK22A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•														
	RHP02	WL	RHP02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 10:40 AM	2409AP22B	FEDEX	279711446914	9/19/2024	9/20/2024		24 0175	7	7	S4VEM	Sampled								•																
	RHP02	WL	RHP02-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 10:40 AM	2409AK22B	ALASKA CARGO	027- 34033941	9/19/2024	9/20/2024		1245450	7	7	S2BVEM	Sampled										•														
	RHP03	WL	RHP03-WGN01B-2409A	0	0	WG	N	1	B	2024-09-09 12:20 PM	2409SG23A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•	
	RHP03	WL	RHP03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:15 PM	2409AP23A	FEDEX	279349277921	9/10/2024	9/11/2024		24 0077	7	7	S2BVEM	Sampled								•																
	RHP03	WL	RHP03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:15 PM	2409EUJ23A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled			•		•					•														
	RHP03	WL	RHP03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:15 PM	2409AK23A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•														
	RHP03	WL	RHP03-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 01:15 PM	2409SG23A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP03	WL	RHP03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 08:55 AM	2409AP23B	FEDEX	279711446914	9/19/2024	9/20/2024		24 0175	7	7	S4VEM	Sampled								•																
	RHP03	WL	RHP03-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-19 08:55 AM	2409AK23B	ALASKA CARGO	027- 34033941	9/19/2024	9/20/2024		1245450	7	7	S2BVEM	Sampled										•														
	RHP04A	WL	RHP04A-WGN01B-2409A	0	0	WG	N	1	B	2024-09-09 09:30 AM	2409SG24A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•	
	RHP04A	WL	RHP04A-WGN01B-2409B	0	0	WG	N	1	B	2024-09-17 08:35 AM	2409SG24B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled																							•	
	RHP04A	WL	RHP04A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 10:25 AM	2409AP24A	FEDEX	279349277921	9/10/2024	9/11/2024		24 0077	7	7	S2BVEM	Sampled								•																
	RHP04A	WL	RHP04A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 10:25 AM	2409EUJ24A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled			•		•					•														
	RHP04A	WL	RHP04A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 10:25 AM	2409AK24A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•														
	RHP04A	WL	RHP04A-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 10:25 AM	2409SG24A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP04A	WL	RHP04A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:25 AM	2409AP24B	FEDEX	279618167630	9/17/2024	9/18/2024		24 0143	7	7	S2BVEM	Sampled								•																
	RHP04A	WL	RHP04A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:25 AM	2409EUJ24B	ALASKA CARGO	027-34033974	9/17/2024	9/18/2024		580-143974-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP04A	WL	RHP04A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:25 AM	2409AK24B	ALASKA CARGO	027-34487412	9/17/2024	9/18/2024		1245370	7	7	S4VEM	Sampled								•																
	RHP04A	WL	RHP04A-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:25 AM	2409SG24B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP04B	WL	RHP04B-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409AP25A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled								•																
	RHP04B	WL	RHP04B-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409EUJ25A	ALASKA CARGO	027-34033856	9/11/2024	9/12/2024		580-143783-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP04B	WL	RHP04B-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409SG25A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP04C	WL	RHP04C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409AP26A	FEDEX	279396054130	9/11/2024	9/12/2024		24 0095	7	7	S2BVEM	Sampled								•																
	RHP04C	WL	RHP04C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409EUJ26A	ALASKA CARGO	027-3403856	9/11/2024	9/12/2024		580-143783-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP04C	WL	RHP04C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-11 11:40 AM	2409SG26A	UNITED CARGO	016-58165166	9/11/2024	9/13/2024		FC18788	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP05	WL	RHP05-WGN01B-2409A	0	0	WG	N	1	B	2024-09-09 10:55 AM	2409SG27A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•	
	RHP05	WL	RHP05-WGN01B-2409B	0	0	WG	N	1	B	2024-09-17 10:37 AM	2409SG27B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled																							•	
	RHP05	WL	RHP05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 11:45 AM	2409AP27A	FEDEX	279349277921	9/10/2024	9/11/2024		24 0077	7	7	S2BVEM	Sampled								•																
	RHP05	WL	RHP05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 11:45 AM	2409EUJ27A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled			•		•					•														
	RHP05	WL	RHP05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 11:45 AM	2409AK27A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•														
	RHP05	WL	RHP05-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 11:45 AM	2409SG27A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP05	WL	RHP05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:05 AM	2409AP27B	FEDEX	279618167630	9/17/2024	9/18/2024		24 0143	7	7	S2BVEM	Sampled								•																
	RHP05	WL	RHP05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:05 AM	2409EUJ27B	ALASKA CARGO	027-34033974	9/17/2024	9/18/2024		580-143974-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP05	WL	RHP05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:05 AM	2409AK27B	ALASKA CARGO	027-34487412	9/17/2024	9/18/2024		1245370	7	7	S4VEM	Sampled								•																
	RHP05	WL	RHP05-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 11:05 AM	2409SG27B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP06	WL	RHP06-WGN01B-2409A	0	0	WG	N	1	B	2024-09-20 08:10 AM	2409SG30B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled																							•	
	RHP06	WL	RHP06-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:20 AM	2409AP30A	FEDEX	279213233311	9/6/2024	9/7/2024		24 0056	7	7	S4VEM	Sampled								•																
	RHP06	WL	RHP06-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:20 AM	2409EUJ30A	ALASKA CARGO	027-34033845	9/6/2024	9/7/2024		580-143608-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP06	WL	RHP06-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-06 09:20 AM	2409AK30A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled										•														
	RHP06	WL	RHP06-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-20 08:45 AM	2409SG30B	UNITED CARGO	016-38654265	9/20/2024	9/21/2024		FC19006	7	7	S2BVEM	Sampled					•	•				•			•							•	•		
	RHP07	WL	RHP07-WGN01B-2409A	0	0	WG	N	1	B	2024-09-05 09:05 AM	2409SG28A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled																							•	
	RHP07	WL	RHP07-WGN01B-2409B	0	0	WG	N	1	B	2024-09-18 09:20 AM	2409SG28B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled																							•	
	RHP07	WL	RHP07-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 09:50 AM	2409AP28A	FEDEX	279168813320	9/5/2024	9/6/2024		24 0044	7	7	S2BVEM	Sampled								•																
	RHP07	WL	RHP07-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 09:50 AM	2409EUJ28A	ALASKA CARGO	027-34033823	9/5/2024	9/6/2024		580-143573-1	7	7	S2BVEM	Sampled			•		•					•														
	RHP07	WL	RHP07-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 09:50 AM	2409AK28A	ALASKA CARGO	027-33792242	9/5/2024	9/6/2024		1245065	7	7	S2BVEM	Sampled								•																
	RHP07	WL	RHP07-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 09:50 AM	2409SG28A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S4VEM	Sampled					•	•				•			•							•	•		
	RHP07	WL	RHP07-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-05 09:50 AM	2409SG28A	UNITED CARGO	016-90572252	9/5/2024	9/7/2024		FC18632	7	7	S2BVEM	Sampled																				•				
	RHP07	WL	RHP07-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 09:50 AM	2409AP28B	FEDEX	279665179569	9/18/2024	9/19/2024		24 0159	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 Silica Gel Energy (M8015C)	TPH Diesel and Oil TEH Energy (SW8015C)	TPH Gasoline SGS (M8015V)	VOCs BTEX DCA1 2 TMBs SGS (SW8260D)
	RHP07	WL	RHP07-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 09:50 AM	2409AK28B	ALASKA CARGO	027-34034000	9/18/2024	9/19/2024	(b) (4)	1245408	7	7	S2BVEM	Sampled						•	•			•		•						•				•
	RHP07	WL	RHP07-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-18 09:50 AM	2409SG28B	UNITED CARGO	016-38653160	9/18/2024	9/20/2024		FC18950	7	7	S2BVEM	Sampled						•	•			•		•						•	•			•	•
	RHP08	WL	RHP08-WGFD01B-2409A	0	0	WG	FD	1	B	2024-09-09 08:55 AM	2409SG33A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGFD01LF-2409A	0	0	WG	FD	1	LF	2024-09-09 09:40 AM	2409SG33A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled						•														•	•			•	•
	RHP08	WL	RHP08-WGN01B-2409A	0	0	WG	N	1	B	2024-09-09 08:55 AM	2409SG33A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGN01B-2409B	0	0	WG	N	1	B	2024-09-17 08:27 AM	2409SG33B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled																							•
	RHP08	WL	RHP08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 09:40 AM	2409AP33A	FEDEX	27934927921	9/10/2024	9/11/2024		24 0077	7	7	S4VEM	Sampled									•														
	RHP08	WL	RHP08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 09:40 AM	2409EU33A	ALASKA CARGO	027-33792231	9/9/2024	9/10/2024		580-143678-1	7	7	S4VEM	Sampled			•		•						•												
	RHP08	WL	RHP08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 09:40 AM	2409AK33A	ALASKA CARGO	027-34033893	9/9/2024	9/10/2024		1245182	7	7	S2BVEM	Sampled												•						•					
	RHP08	WL	RHP08-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-09 09:40 AM	2409SG33A	UNITED CARGO	016-58164046	9/9/2024	9/11/2024		FC18707	7	7	S2BVEM	Sampled						•	•			•		•						•	•			•	•
	RHP08	WL	RHP08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:15 AM	2409AP33B	FEDEX	279618167630	9/17/2024	9/18/2024		24 0143	7	7	S2BVEM	Sampled																							
	RHP08	WL	RHP08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:15 AM	2409EU33B	ALASKA CARGO	027-34033974	9/17/2024	9/18/2024		580-143974-1	7	7	S2BVEM	Sampled			•		•						•												
	RHP08	WL	RHP08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:15 AM	2409AK33B	ALASKA CARGO	027-34487412	9/17/2024	9/18/2024		1245370	7	7	S4VEM	Sampled												•						•					
	RHP08	WL	RHP08-WGN01LF-2409B	0	0	WG	N	1	LF	2024-09-17 09:15 AM	2409SG33B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled						•	•			•		•						•	•			•	•
	RHP08C	WL	RHP08C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 01:35 PM	2409AP44A	FEDEX	279484937163	9/13/2024	9/16/2024		24 0119			S2BVEM	Sampled																							
	RHP08C	WL	RHP08C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 01:35 PM	2409EU44A	ALASKA CARGO	027-34033871	9/13/2024	9/14/2024		580-143874-1			S2BVEM	Sampled			•		•						•												
	RHP08C	WL	RHP08C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 01:35 PM	2409AK44A	ALASKA CARGO	027-34033963	9/16/2024	9/17/2024		1245344			S2BVEM	Sampled												•						•					
	RHP08C	WL	RHP08C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 01:35 PM	2409SG44A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846			S2BVEM	Sampled						•	•			•		•						•				•	•
	RHP08C	WL	RHP08C-WGN01LF-2409A	0	0	WG	N	1	LF	2024-09-13 01:35 PM	2409SG44A	UNITED CARGO	016-58165192	9/13/2024	9/14/2024		FC18846				Sampled																				•			
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2409A	0	0	WG	FD	1	G	2024-09-04 10:40 AM	2409SG42A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S2BVEM	Sampled						•														•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGFD01G-2409B	0	0	WG	FD	1	G	2024-09-17 12:00 PM	2409SG42B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled						•														•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:40 AM	2409AP42A	FEDEX	279119878683	9/4/2024	9/5/2024		24 0026	7	7	S2BVEM	Sampled									•														
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:40 AM	2409EU42A	ALASKA CARGO	027-33792135	9/4/2024	9/5/2024		580-143523-1	7	7	S2BVEM	Sampled			•		•						•												
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:40 AM	2409AK42A	ALASKA CARGO	027-33792150	9/4/2024	9/5/2024		1245082	7	7	S4VEM	Sampled												•						•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409A	0	0	WG	N	1	G	2024-09-04 10:40 AM	2409SG42A	UNITED CARGO	016-90454022	9/4/2024	9/6/2024		FC18599	7	7	S2BVEM	Sampled						•	•			•		•						•	•			•	•
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409B	0	0	WG	N	1	G	2024-09-17 12:00 PM	2409AP42B	FEDEX	279618167630	9/17/2024	9/18/2024		24 0143	7	7	S2BVEM	Sampled																							
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409B	0	0	WG	N	1	G	2024-09-17 12:00 PM	2409EU42B	ALASKA CARGO	027-34033974	9/17/2024	9/18/2024		580-143974-1	7	7	S2BVEM	Sampled			•		•						•												
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409B	0	0	WG	N	1	G	2024-09-17 12:00 PM	2409AK42B	ALASKA CARGO	027-34487412	9/17/2024	9/18/2024		1245370	7	7	S4VEM	Sampled												•						•					
	RHSF-PUMP	FW	RHSF-PUMP-WGN01G-2409B	0	0	WG	N	1	G	2024-09-17 12:00 PM	2409SG42B	UNITED CARGO	016-38653171	9/17/2024	9/19/2024		FC18945	7	7	S2BVEM	Sampled						•	•			•		•						•	•			•	•
																						S2BVEM Count	*0*	*66*	*0*	*66*	*78*	*68*	*62*	*0*	*68*	*66*	*65*	*78*	*0*	*0*	*0*	*65*	*78*	*77*	*0*	*0*	*78*	*138*
																						No Review Type	*2*	*3*	*2*	*1*	*3*	*3*	*3*	*2*	*3*	*3*	*3*	*3*	*2*	*2*	*2*	*3*	*3*	*5*	*2*	*2*	*3*	*3*
																						S4VEM Count	*0*	*7*	*0*	*7*	*5*	*5*	*11*	*0*	*5*	*7*	*8*	*5*	*0*	*0*	*0*	*8*	*5*	*4*	*0*	*0*	*5*	*9*
																						Site Location Count	*2*	*76*	*2*	*74*	*86*	*76*	*76*	*2*	*76*	*76*	*76*	*86*	*2*	*2*	*2*	*76*	*86*	*86*	*2*	*2*	*86*	*150*
																						Total Location Count	*2*	*86*	*2*	*84*	*96*	*86*	*86*	*2*	*86*	*86*	*86*	*96*	*2*	*2*	*2*	*86*	*96*	*96*	*2*	*2*	*96*	*162*

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.

Status	Color
Status Not Determined	
Scheduled for Analysis; Awaiting Field Data	
Chain of Custody Data Loaded and Certified Awaiting Lab Data	
Laboratory Data Loaded and Certified Awaiting Validation	
Validation Qualifiers Finalized; Awaiting Approval	
Approval Complete; Data in Production	

Matrix Name	Matrix
Ground Water	WG

Sampling Method	Code
Bailer	B
Grab	G
Low-Flow (Slow Purge) Groundwater Pumping	LF

Laboratory Name	Laboratory Code
(b) (4)	

Location Type	Code
Faucet/Tap	FW
Well	WL

Appendix B.2 – Monitoring Well Measurements

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

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Notes:

NM = No measurement taken, due to equipment installed in well.

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)
07/08/2024	07/12/2024	0.0	0.0	207.74	No	-	274.11	6.50	0.42	0.46	28.22	23.51	67.1	0.20
07/22/2024	07/26/2024	0.0	0.0	207.71	No	-	342.69	6.44	0.53	0.40	13.70	23.38	120.0	0.26
08/12/2024	08/15/2024	0.0	0.0	207.71	No	-	272.56	6.45	0.42	0.43	9.65	23.43	99.1	0.20
08/26/2024	08/30/2024	0.0	0.0	207.67	No	-	291.16	6.46	0.45	0.29	12.36	23.62	113.9	0.22
09/09/2024	09/13/2024	0.0	0.0	207.63	No	-	279.44	6.47	0.43	0.39	35.43	23.68	82.4	0.21
09/23/2024	09/27/2024	0.0	0.0	207.63	No	-	267.90	6.64	0.41	0.46	15.00	23.52	46.9	0.20
	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)
07/22/2024	07/26/2024	0.0	0.0	90.52	No	-	456.60	7.20	0.70	4.90	0.20	26.20	178.4	0.40
08/12/2024	08/14/2024	0.0	0.0	90.54	No	-	482.60	7.20	0.70	5.30	0.00	26.60	313.9	0.40
08/26/2024	08/28/2024	0.0	0.0	90.51	No	-	481.60	7.10	0.70	5.30	0.00	25.70	262.2	0.40
09/09/2024	09/12/2024	0.0	0.0	90.46	No	-	492.40	7.20	0.80	5.20	0.00	26.40	271.3	0.40
09/23/2024	09/24/2024	0.0	0.0	90.45	No	-	459.50	7.10	0.70	5.30	0.30	26.10	228.8	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)
07/22/2024	07/26/2024	0.0	0.0	190.25	No	-	903.30	7.00	1.40	7.70	0.10	26.40	286.7	0.70
08/12/2024	08/14/2024	0.0	0.0	190.23	No	-	981.90	7.00	1.50	7.50	0.40	28.60	333.6	0.80
08/26/2024	08/28/2024	0.0	0.0	190.31	No	-	968.40	7.00	1.50	7.60	0.30	27.20	303.6	0.80
09/09/2024	09/12/2024	0.0	0.0	190.12	No	-	969.60	7.00	1.50	7.60	1.10	29.00	278.3	0.80
09/23/2024	09/24/2024	0.0	0.0	190.15	No	-	966.10	6.90	1.50	7.60	0.50	27.10	330.0	0.80
	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)
07/22/2024	07/24/2024	0.0	0.0	749.92	No	-	218.20	7.60	0.34	0.71	0.00	25.00	190.4	0.20
08/12/2024	08/12/2024	0.0	0.0	749.93	No	-	232.30	7.60	0.40	0.80	0.30	25.30	221.6	0.20
08/26/2024	08/26/2024	0.0	0.0	749.93	No	-	211.10	7.60	0.30	0.90	0.00	25.00	186.7	0.20
09/09/2024	09/11/2024	0.0	0.0	749.6	No	-	213.50	7.60	0.30	0.70	0.10	25.20	156.3	0.20
09/23/2024	09/23/2024	0.0	0.0	750.64	No	-	209.00	8.00	0.30	1.00	8.60	25.80	132.1	0.20

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	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)
07/08/2024	07/11/2024	0.0	0.0	290.92	No	-	392.40	7.40	0.60	1.30	1.20	26.00	87.1	0.30
07/22/2024	07/25/2024	0.0	0.0	291.01	No	-	386.10	7.50	0.59	2.10	0.30	25.60	171.5	0.30
08/12/2024	08/15/2024	0.0	0.0	290.97	No	-	391.60	7.40	0.60	2.63	0.00	26.10	201.2	0.30
08/26/2024	08/29/2024	0.0	0.0	290.93	No	-	389.10	7.40	0.60	3.10	0.10	25.60	239.5	0.30
09/09/2024	09/12/2024	0.0	0.0	290.72	No	-	415.50	7.40	0.60	3.10	2.50	26.00	239.8	0.30
09/23/2024	09/26/2024	0.0	0.0	290.82	No	-	407.80	7.40	0.60	3.70	6.90	26.00	218.9	0.30

	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)
07/08/2024	07/11/2024	0.0	0.0	170.13	No	-	697.40	7.70	1.10	4.70	1.40	26.80	194.5	0.54
07/22/2024	07/25/2024	0.0	0.0	170.19	No	-	741.20	7.30	1.10	4.90	0.40	27.20	235.9	0.60
08/12/2024	08/16/2024	0.0	0.0	170.32	No	-	740.50	7.30	1.10	2.00	0.40	27.76	268.4	0.60
08/26/2024	08/29/2024	0.0	0.0	170.09	No	-	697.70	7.40	1.10	5.40	0.40	27.27	278.8	0.50
09/09/2024	09/11/2024	0.0	0.0	170.17	No	-	704.60	7.30	1.10	3.80	0.20	27.00	190.4	0.50
09/23/2024	09/26/2024	0.0	0.0	170.06	No	-	738.10	7.30	1.10	5.30	0.20	27.30	240.1	0.60

	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)
07/08/2024	07/11/2024	0.0	0.0	117.57	No	-	918.00	7.60	1.40	6.70	0.60	25.90	223.0	0.70
07/22/2024	07/25/2024	0.0	0.0	117.58	No	-	974.90	7.60	1.50	6.60	0.60	26.50	250.7	0.80
08/12/2024	08/16/2024	0.0	0.0	117.57	No	-	851.50	7.60	1.30	6.60	0.00	26.10	297.3	0.70
08/26/2024	08/29/2024	0.0	0.0	117.62	No	-	930.50	7.60	1.40	6.80	1.90	26.60	278.9	0.70
09/09/2024	09/12/2024	0.0	0.0	117.67	No	-	946.90	7.60	1.50	6.50	0.40	26.30	180.6	0.70
09/23/2024	09/25/2024	0.0	0.0	117.7	No	-	941.00	7.60	1.50	6.80	0.20	26.70	232.0	0.70

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	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)
07/22/2024	07/23/2024	0.0	0.0	64.88	No	-	467.00	6.70	0.70	5.50	0.00	25.99	276.2	0.40
08/26/2024	08/27/2024	0.0	0.0	64.88	No	-	458.90	6.60	0.70	5.39	0.00	25.60	328.3	0.40
09/09/2024	09/12/2024	0.0	0.0	64.76	No	-	421.80	6.70	0.70	5.30	0.40	26.52	217.2	0.30
09/23/2024	09/23/2024	0.0	0.0	64.73	No	-	395.60	6.70	0.60	5.20	0.30	25.90	222.7	0.30

	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)
08/12/2024	08/13/2024	0.0	0.0	64.87	No	-	431.80	6.70	0.70	5.30	0.50	25.80	224.2	0.30

	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)
07/22/2024	07/24/2024	0.0	0.0	100.72	No	-	277.60	8.20	0.40	1.50	2.00	25.90	172.8	0.20
08/26/2024	08/28/2024	0.0	0.0	100.66	No	-	255.30	8.20	0.40	1.90	39.50	25.80	151.0	0.20
09/09/2024	09/09/2024	0.0	0.0	100.35	No	-	243.40	8.30	0.40	2.30	4.00	26.40	153.5	0.20
09/23/2024	09/24/2024	0.0	0.0	100.5	No	-	244.60	7.90	0.40	2.30	2.20	27.10	158.7	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)
07/22/2024	07/24/2024	0.0	0.0	115.79	No	-	729.80	7.10	1.10	5.00	0.70	25.87	244.4	0.60
08/26/2024	08/28/2024	0.0	0.0	115.75	No	-	674.10	7.10	1.00	5.60	2.10	25.50	187.0	0.50
09/09/2024	09/11/2024	0.0	0.0	115.64	No	-	719.70	7.00	1.10	5.40	0.00	26.10	290.0	0.60
09/23/2024	09/24/2024	0.0	0.0	115.58	No	-	714.40	7.00	1.10	5.30	0.00	26.00	287.9	0.60

	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)
07/15/2024	07/15/2024	0.0	0.0	83.48	No	-	197.63	7.26	0.30	0.16	0.00	23.53	-61.2	0.15
08/05/2024	08/05/2024	0.0	0.0	83.54	No	-	191.65	6.97	0.29	0.17	0.00	23.69	-48.1	0.14
08/19/2024	08/22/2024	0.0	0.0	83.5	No	-	190.69	7.00	0.29	0.19	0.00	23.83	-14.4	0.14
09/02/2024	09/03/2024	0.0	0.0	83.41	No	-	193.80	7.01	0.30	0.20	0.00	23.85	-37.0	0.14
09/16/2024	09/16/2024	0.0	0.0	83.32	No	-	183.82	7.15	0.28	0.14	0.00	23.63	-2.4	0.14

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	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)
07/15/2024	07/15/2024	0.0	1.0	86.42	No	-	313.70	6.80	0.50	0.10	0.00	24.50	-95.4	0.20
08/05/2024	08/05/2024	0.0	0.0	86.47	No	-	309.10	6.70	0.50	0.10	0.00	24.50	-123.3	0.20
08/19/2024	08/22/2024	0.0	0.0	86.45	No	-	325.60	6.70	0.50	0.10	0.00	24.60	-65.4	0.20
09/02/2024	09/03/2024	0.0	0.0	86.29	No	-	303.60	6.80	0.50	0.10	0.10	24.60	-89.4	0.20
09/23/2024	09/26/2024	0.0	0.7	86.29	No	-	341.00	6.72	0.52	0.10	0.00	24.50	-113.1	0.30
10/07/2024	10/07/2024	0.0	0.1	86.34	No	-	338.90	6.80	0.50	0.10	0.10	24.70	-13.7	0.30

	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)
07/15/2024	07/16/2024	0.0	4.1	102.76	No	-	539.70	6.80	0.80	0.50	0.10	27.20	156.1	0.40
08/05/2024	08/06/2024	0.2	0.4	102.79	No	-	503.40	6.80	0.80	0.60	0.10	27.10	187.7	0.40
08/19/2024	08/20/2024	0.0	5.0	102.81	No	-	482.70	6.80	0.70	0.60	0.20	27.40	190.0	0.40
09/02/2024	09/03/2024	0.0	0.0	102.5	No	-	507.30	6.90	0.80	0.50	0.50	27.40	159.8	0.40
09/23/2024	09/26/2024	0.0	0.6	102.5	No	-	516.40	6.90	0.80	0.60	2.10	27.20	132.0	0.40
10/07/2024	10/08/2024	0.2	1.4	102.73	No	-	551.40	6.70	0.90	0.50	3.20	27.10	241.6	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)
07/22/2024	07/23/2024	0.0	0.0	294.04	No	-	259.20	7.40	0.40	8.70	0.00	23.30	230.4	0.20
08/12/2024	08/13/2024	0.0	0.0	294	No	-	272.80	7.50	0.40	8.70	0.30	23.70	254.0	0.20
08/26/2024	08/27/2024	0.0	0.0	294.04	No	-	273.40	7.40	0.40	8.30	0.30	23.50	224.8	0.20
09/16/2024	09/20/2024	0.0	0.0	293.89	No	-	268.10	7.40	0.40	8.80	0.00	23.40	241.0	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)
07/15/2024	07/17/2024	0.0	0.0	83.21	No	-	214.90	7.40	0.30	7.90	0.00	23.02	254.5	0.20
08/05/2024	08/07/2024	0.0	0.0	83.22	No	-	219.10	7.40	0.30	7.50	0.90	23.32	279.3	0.20
08/19/2024	08/21/2024	0.0	0.0	83.21	No	-	220.00	7.50	0.30	7.70	0.00	23.20	340.9	0.20
09/02/2024	09/05/2024	0.0	0.0	83.03	No	-	197.70	7.50	0.30	7.60	0.00	23.10	216.8	0.20
09/16/2024	09/18/2024	0.0	0.0	83.06	No	-	225.10	7.40	0.40	7.70	0.00	23.10	311.9	0.20

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	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)
07/15/2024	07/18/2024	0.0	0.0	240.95	No	-	1133.40	6.90	1.70	6.70	0.00	25.31	279.4	0.90
08/05/2024	08/08/2024	0.0	0.0	240.96	No	-	1087.10	6.93	1.70	7.10	0.10	25.06	198.2	0.90
08/19/2024	08/22/2024	0.0	0.0	240.92	No	-	1137.80	6.90	1.80	6.60	0.00	25.50	359.5	0.90
09/16/2024	09/19/2024	0.0	0.0	240.83	No	-	1055.60	6.80	1.60	6.60	1.20	24.60	326.2	0.80
	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)
07/15/2024	07/15/2024	0.0	0.0	292.37	No	-	459.00	7.90	0.70	2.30	0.30	27.50	119.1	0.40
08/05/2024	08/05/2024	0.0	0.0	292.4	No	-	464.60	8.00	0.70	2.70	0.30	26.00	180.3	0.40
08/19/2024	08/21/2024	0.0	0.0	292.53	No	-	439.50	7.40	0.70	3.10	0.30	25.52	156.8	0.30
09/02/2024	09/03/2024	0.0	0.0	292.19	No	-	436.20	8.00	0.70	3.40	0.20	25.60	155.0	0.30
09/16/2024	09/16/2024	0.0	0.0	292.26	No	-	466.20	7.90	0.70	2.70	0.00	26.00	232.4	0.40
09/30/2024	10/01/2024	0.0	0.0	292.37	No	-	430.67	7.97	0.66	3.41	0.19	25.40	204.6	0.33
	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)
07/15/2024	07/16/2024	0.0	0.0	377.68	No	-	210.10	7.60	0.30	8.90	0.10	24.30	195.8	0.20
08/05/2024	08/09/2024	0.0	0.0	377.44	No	-	225.40	7.50	0.40	8.40	0.00	25.10	305.5	0.20
08/19/2024	08/23/2024	0.0	0.0	377.5	No	-	225.00	7.55	0.40	8.60	0.00	24.70	351.8	0.20
09/09/2024	09/09/2024	0.0	0.0	377.34	No	-	205.00	7.54	0.30	8.50	1.10	25.80	253.3	0.20
09/16/2024	09/20/2024	0.0	0.0	377.4	No	-	216.40	7.50	0.30	8.50	0.50	25.50	238.9	0.20
09/30/2024	10/01/2024	0.0	0.0	377.45	No	-	209.40	7.50	0.30	8.60	0.30	25.20	277.9	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)
07/15/2024	07/19/2024	0.0	0.0	477.63	No	-	194.70	7.50	0.30	8.40	0.00	24.80	282.7	0.10
08/05/2024	08/09/2024	0.0	0.0	477.53	No	-	177.30	7.60	0.30	8.20	0.00	25.40	243.3	0.10
08/19/2024	08/23/2024	0.0	0.0	477.53	No	-	178.40	7.50	0.30	8.60	0.00	24.30	351.0	0.10
09/02/2024	09/06/2024	0.0	0.0	477.4	No	-	197.40	7.50	0.30	8.40	0.00	24.70	316.6	0.20

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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)
07/15/2024	07/17/2024	0.0	0.0	-	No	-	262.00	8.10	0.40	0.71	0.80	26.90	-79.5	0.20
08/05/2024	08/07/2024	0.0	0.0	-	No	-	259.30	8.20	0.40	0.96	1.40	25.80	-91.5	0.20
08/19/2024	08/19/2024	0.0	0.0	-	No	-	257.80	8.20	0.40	0.90	1.20	26.50	-46.0	0.20
09/02/2024	09/04/2024	0.0	0.0	-	No	-	285.20	8.00	0.44	0.90	0.60	27.20	-26.4	0.20
09/16/2024	09/18/2024	0.0	0.0	-	No	-	259.40	8.10	0.40	1.10	1.10	26.60	-15.8	0.20
10/07/2024	10/08/2024	0.0	0.0	-	No	-	257.40	8.40	0.40	2.00	1.20	29.40	-39.1	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)
07/08/2024	07/12/2024	0.0	0.0	220.45	No	-	190.50	8.50	0.30	7.30	0.00	25.20	181.3	0.10
07/22/2024	07/26/2024	0.0	0.0	220.48	No	-	237.30	8.50	0.40	7.20	0.00	25.00	214.9	0.20
08/12/2024	08/15/2024	0.0	0.0	220.47	No	-	191.10	8.40	0.30	7.20	0.30	25.70	181.0	0.10
08/26/2024	08/30/2024	0.0	0.0	220.43	No	-	215.50	8.50	0.30	7.20	0.00	25.50	290.4	0.20
09/09/2024	09/13/2024	0.0	0.0	220.37	No	-	195.50	8.50	0.30	7.20	0.10	26.40	216.5	0.10
09/23/2024	09/27/2024	0.0	0.0	220.37	No	-	185.90	8.50	0.30	7.20	0.20	25.60	125.5	0.10

	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)
07/22/2024	07/22/2024	0.0	0.0	-	No	-	205.50	7.90	0.30	2.90	0.90	27.80	176.0	0.20
08/12/2024	08/12/2024	0.0	0.0	-	No	-	201.80	7.68	0.30	3.40	0.30	24.40	225.0	0.20
08/26/2024	08/26/2024	0.0	0.0	-	No	-	243.60	8.00	0.40	1.80	0.30	25.30	142.0	0.20
09/09/2024	09/10/2024	0.0	0.0	-	No	-	210.20	7.90	0.30	1.90	0.70	28.30	195.8	0.20
09/23/2024	09/23/2024	0.0	0.0	-	No	-	165.90	8.00	0.30	2.60	0.91	26.70	161.9	0.10

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	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)
07/15/2024	07/17/2024	0.0	0.0	-	No	-	183.11	8.08	0.30	2.30	0.20	25.40	180.8	0.10
08/05/2024	08/07/2024	0.0	0.0	-	No	-	181.80	8.00	0.30	1.00	1.50	27.00	184.3	0.10
08/19/2024	08/19/2024	0.0	0.0	-	No	-	184.30	7.80	0.30	2.60	1.00	28.20	174.5	0.10
09/02/2024	09/04/2024	0.0	0.0	-	No	-	206.80	7.80	0.30	2.50	3.80	29.10	193.2	0.20
09/16/2024	09/18/2024	0.0	0.0	-	No	-	181.90	8.10	0.30	0.70	1.10	27.00	182.0	0.10
10/07/2024	10/08/2024	0.0	0.0	-	No	-	180.30	8.10	0.30	2.40	0.80	28.30	77.8	0.10

	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)
07/15/2024	07/15/2024	0.0	0.0	-	No	-	212.40	7.80	0.30	2.00	1.90	30.80	165.0	0.20
08/05/2024	08/05/2024	0.0	0.0	-	No	-	227.46	7.78	0.40	2.10	1.40	29.70	210.6	0.20
08/19/2024	08/21/2024	0.0	0.0	-	No	-	210.20	7.30	0.30	2.30	1.30	29.50	181.2	0.20
09/02/2024	09/05/2024	0.0	0.0	-	No	-	220.70	7.90	0.30	1.79	1.20	30.40	210.1	0.20
09/16/2024	09/16/2024	0.0	0.0	-	No	-	208.20	7.90	0.30	1.40	0.84	28.70	209.1	0.20
10/07/2024	10/07/2024	0.0	0.0	-	No	-	188.80	7.50	0.30	2.90	1.30	28.10	155.2	0.10

	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)
07/15/2024	07/18/2024	0.0	0.0	201.71	No	-	257.90	8.00	0.40	8.50	1.90	25.90	247.6	0.20
08/05/2024	08/08/2024	0.0	0.0	201.69	No	-	233.10	8.00	0.40	9.10	1.30	25.60	212.5	0.20
08/19/2024	08/20/2024	0.0	0.0	201.78	No	-	249.40	8.00	0.40	8.71	0.00	25.40	330.9	0.20
09/02/2024	09/03/2024	0.0	0.0	201.54	No	-	232.20	8.00	0.40	9.20	0.30	25.60	232.6	0.20
09/16/2024	09/19/2024	0.0	0.0	201.57	No	-	248.50	8.00	0.40	8.60	1.50	25.50	277.0	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)
07/22/2024	07/22/2024	0.0	0.0	234.33	No	-	243.11	7.40	0.40	4.27	0.09	24.70	165.2	0.20
08/12/2024	08/12/2024	0.0	0.0	234.24	No	-	231.40	7.60	0.40	4.30	0.10	24.70	212.2	0.20
08/26/2024	08/26/2024	0.0	0.0	234.3	No	-	257.70	7.40	0.40	4.40	0.00	24.26	318.3	0.20
09/23/2024	09/23/2024	0.0	0.0	234.45	No	-	266.20	7.30	0.40	1.90	3.90	24.30	267.5	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)
07/08/2024	07/11/2024	0.0	0.0	604.31	No	-	227.00	9.40	0.40	1.40	0.00	24.70	82.1	0.20
07/22/2024	07/25/2024	0.0	0.0	604.34	No	-	222.90	9.30	0.30	1.70	0.00	24.80	111.9	0.20
08/12/2024	08/15/2024	0.0	0.0	604.27	No	-	231.20	9.30	0.40	1.20	0.00	25.20	89.7	0.17
08/26/2024	08/29/2024	0.0	0.0	604.25	No	-	222.00	9.40	0.30	1.90	0.10	25.10	126.5	0.20
09/09/2024	09/13/2024	0.0	0.0	604	No	-	241.70	9.50	0.40	1.70	0.40	25.10	128.5	0.20
09/23/2024	09/25/2024	0.0	0.0	604.2	No	-	228.60	9.30	0.40	1.10	0.10	25.40	73.9	0.20

	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)
07/15/2024	07/16/2024	0.0	0.0	426.68	No	-	180.00	7.80	0.30	9.00	0.20	24.90	221.4	0.10
08/05/2024	08/09/2024	0.0	0.0	426.44	No	-	194.20	7.70	0.30	8.60	0.00	24.60	283.8	0.10
08/19/2024	08/23/2024	0.0	0.0	426.44	No	-	193.70	7.80	0.30	8.50	0.00	24.70	337.3	0.10
09/02/2024	09/06/2024	0.0	0.0	426.36	No	-	196.00	7.70	0.30	8.70	0.00	25.50	314.7	0.10

	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)
07/22/2024	07/23/2024	0.0	0.0	237.58	No	-	1234.00	7.10	1.90	6.40	0.00	25.30	250.4	1.00
08/12/2024	08/13/2024	0.0	0.0	237.7	No	-	1170.60	7.10	1.80	6.50	0.00	24.70	229.7	0.90
08/26/2024	08/28/2024	0.0	0.0	237.61	No	-	1237.70	7.10	1.90	6.50	1.00	24.90	312.3	1.00
09/23/2024	09/24/2024	0.0	0.0	237.53	No	-	1245.10	7.00	1.90	6.40	0.00	24.70	306.7	1.00

	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)
07/22/2024	07/22/2024	0.0	0.0	115.34	No	-	256.50	10.50	0.40	0.30	0.00	25.90	-52.1	0.20
08/05/2024	08/05/2024	0.0	0.0	113.68	No	-	225.20	10.40	0.40	0.50	0.10	25.00	-32.9	0.17
08/19/2024	08/22/2024	0.0	0.0	113.73	No	-	208.10	10.10	0.30	0.30	0.00	24.80	-18.9	0.15
09/02/2024	09/04/2024	0.0	0.1	113.6	No	-	223.30	10.10	0.30	0.40	0.20	24.70	-57.4	0.20
09/16/2024	09/16/2024	0.0	0.5	113.5	No	-	200.70	9.99	0.30	0.40	0.30	24.90	20.1	0.20
10/07/2024	10/07/2024	0.0	0.0	113.61	No	-	230.00	10.00	0.40	0.40	2.70	24.60	93.2	0.20

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	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)
07/15/2024	07/16/2024	0.0	0.0	(b) (3) (A)	No	-	364.00	7.60	0.60	8.70	0.00	22.40	215.9	0.27
08/05/2024	08/06/2024	0.0	0.0		No	-	335.63	7.51	0.50	8.60	0.00	22.30	211.2	0.30
08/19/2024	08/20/2024	0.0	0.0		No	-	317.60	7.90	0.50	8.70	0.00	22.40	232.3	0.20
09/02/2024	09/04/2024	0.0	0.0		No	-	340.30	7.60	0.50	8.60	0.00	22.50	210.2	0.30
09/16/2024	09/17/2024	0.0	0.0		No	-	335.60	7.50	0.50	9.31	0.00	22.60	266.7	0.30
10/07/2024	10/08/2024	0.0	0.0		No	-	360.30	7.40	0.60	9.10	0.00	22.30	277.4	0.30

	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)
07/15/2024	07/18/2024	0.0	0.0	138.48	No	-	461.06	6.92	0.70	7.00	0.00	25.20	270.2	0.40
08/05/2024	08/08/2024	0.0	0.0	138.47	No	-	447.30	6.90	0.70	7.30	0.00	25.20	316.7	0.30
08/19/2024	08/20/2024	0.0	0.0	139.18	No	-	447.80	6.90	0.70	6.90	0.00	25.00	342.5	0.30
09/02/2024	09/05/2024	0.0	0.0	139.03	No	-	448.90	6.90	0.70	7.00	0.00	24.60	295.8	0.30
09/16/2024	09/19/2024	0.0	0.0	138.31	No	-	427.70	7.00	0.70	6.70	0.50	25.80	294.8	0.30
09/30/2024	10/03/2024	0.0	0.0	138.33	No	-	449.70	7.00	0.70	6.90	0.10	25.10	261.9	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)
07/15/2024	07/18/2024	0.0	0.0	121.42	No	-	472.90	6.70	0.70	7.70	0.50	26.00	263.0	0.40
08/05/2024	08/08/2024	0.0	0.0	121.56	No	-	507.50	6.90	0.80	8.10	0.00	25.40	303.6	0.40
08/19/2024	08/20/2024	0.0	0.0	122.09	No	-	506.30	6.80	0.80	7.70	0.10	25.50	380.8	0.40
09/02/2024	09/06/2024	0.0	0.0	121.82	No	-	464.50	7.00	0.70	7.70	0.60	25.90	236.3	0.40
09/16/2024	09/19/2024	0.0	0.0	121.41	No	-	483.50	6.90	0.70	7.60	0.30	25.70	288.3	0.40
09/30/2024	10/03/2024	0.0	0.0	121.44	No	-	509.20	6.90	0.80	7.60	0.00	25.40	265.9	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)
07/15/2024	07/18/2024	0.0	0.0	118.74	No	-	706.80	7.40	1.10	3.40	0.70	25.90	175.5	0.50
08/19/2024	08/22/2024	0.0	0.0	118.71	No	-	755.80	7.40	1.20	3.00	0.00	25.40	278.2	0.60
09/09/2024	09/09/2024	0.0	0.0	118.5	No	-	715.90	7.70	1.10	2.80	0.30	25.60	177.0	0.60
09/16/2024	09/19/2024	0.0	0.0	118.55	No	-	761.10	7.20	1.20	3.70	0.10	25.40	235.1	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)
07/15/2024	07/18/2024	0.0	0.0	139.72	No	-	610.60	7.30	0.90	3.80	0.60	26.10	168.9	0.50
08/19/2024	08/22/2024	0.0	0.0	139.64	No	-	646.70	7.40	1.00	3.60	95.40	26.45	318.3	0.50
09/09/2024	09/09/2024	0.0	0.1	139.41	No	-	597.00	7.70	0.90	3.70	0.60	26.40	138.3	0.50
09/16/2024	09/17/2024	0.0	0.0	139.65	No	-	618.90	7.40	1.00	3.80	0.10	26.70	213.9	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)
07/22/2024	07/23/2024	0.0	0.0	138.95	No	-	340.40	8.00	0.50	0.23	0.10	26.80	-43.5	0.26
08/12/2024	08/13/2024	0.0	0.0	138.81	No	-	348.90	8.10	0.50	0.20	0.10	26.00	-46.8	0.30
08/26/2024	08/27/2024	0.0	0.0	138.82	No	-	358.30	8.00	0.60	0.20	0.80	26.50	-47.0	0.30
09/09/2024	09/11/2024	0.0	0.0	138.69	No	-	379.10	8.00	0.60	0.20	0.00	26.80	40.0	0.30
09/23/2024	09/24/2024	0.0	0.0	138.73	No	-	350.80	8.00	0.50	0.20	0.60	26.80	-22.1	0.30

	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)
07/22/2024	07/23/2024	0.0	0.0	138.2	No	-	852.90	7.50	1.30	0.70	0.00	26.00	94.5	0.70
08/12/2024	08/13/2024	0.0	0.0	138.15	No	-	877.10	7.40	1.40	0.80	0.30	27.90	105.5	0.70
08/26/2024	08/27/2024	0.0	0.0	138.08	No	-	900.24	7.45	1.40	0.60	0.90	27.80	99.7	0.70
09/09/2024	09/11/2024	0.0	0.0	138	No	-	923.00	7.40	1.40	0.60	0.40	27.10	179.2	0.70
09/23/2024	09/24/2024	0.0	0.0	138.04	No	-	858.80	7.50	1.30	0.80	0.30	26.40	124.3	0.70

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	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)
07/15/2024	07/19/2024	0.0	0.0	212.47	No	-	639.80	7.20	1.00	6.30	0.00	25.87	265.1	0.50
08/05/2024	08/09/2024	0.0	0.0	212.37	No	-	596.50	7.20	0.90	6.40	0.10	26.40	205.0	0.50
08/19/2024	08/23/2024	0.0	0.0	212.43	No	-	594.10	7.24	0.91	6.50	0.10	26.20	353.1	0.50
09/09/2024	09/09/2024	0.0	0.0	212.23	No	-	600.00	7.30	0.92	6.50	1.40	27.70	258.6	0.50
09/16/2024	09/17/2024	0.0	0.0	212.43	No	-	652.10	7.20	1.00	6.50	0.00	26.90	295.9	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)
07/15/2024	07/19/2024	0.0	0.0	252.83	No	-	590.20	7.00	0.90	6.90	3.20	25.50	211.8	0.50
08/05/2024	08/06/2024	0.0	0.0	253.02	No	-	652.20	7.00	1.00	7.20	0.29	26.09	282.8	0.50
08/19/2024	08/19/2024	0.0	0.0	252.83	No	-	660.00	7.10	1.00	7.10	1.20	26.00	314.6	0.50
09/02/2024	09/06/2024	0.0	0.0	252.72	No	-	610.00	7.00	0.90	7.20	0.50	25.90	238.2	0.50
09/16/2024	09/20/2024	0.0	0.0	252.64	No	-	661.90	6.90	1.00	7.20	0.00	25.70	320.4	0.50

	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)
07/15/2024	07/17/2024	0.0	0.0	82.38	No	-	408.20	7.30	0.60	8.30	2.60	23.30	246.3	0.30
08/05/2024	08/07/2024	0.0	0.0	82.38	No	-	411.70	7.27	0.60	8.20	0.00	23.40	272.7	0.30
08/19/2024	08/21/2024	0.0	0.0	82.57	No	-	420.50	7.40	0.70	8.60	0.00	23.40	333.0	0.30
09/02/2024	09/05/2024	0.0	0.0	82.55	No	-	386.70	7.40	0.60	8.40	0.10	23.40	236.5	0.30
09/16/2024	09/18/2024	0.0	0.0	82.64	No	-	433.60	7.40	0.70	8.50	4.50	23.20	297.6	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)
07/15/2024	07/19/2024	0.0	0.0	285.08	No	-	427.50	7.60	0.70	7.20	0.60	25.70	208.0	0.30
08/05/2024	08/06/2024	0.0	0.0	285.2	No	-	415.40	7.70	0.60	6.80	2.80	26.10	257.6	0.30
08/19/2024	08/19/2024	0.0	0.0	285.05	No	-	459.50	7.60	0.70	6.90	0.20	25.70	317.9	0.40
09/09/2024	09/09/2024	0.0	0.0	284.77	No	-	432.00	7.60	0.70	7.60	4.60	25.40	199.0	0.30
09/16/2024	09/17/2024	0.0	0.0	285.03	No	-	422.60	7.80	0.70	6.80	2.60	25.50	264.2	0.30
09/30/2024	10/03/2024	0.0	0.0	284.78	No	-	487.90	7.60	0.80	7.50	0.10	25.30	226.2	0.40

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	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)
09/23/2024	09/27/2024	0.0	0.0	290.92	No	-	394.20	8.00	0.60	16.00	7.80	30.40	217.2	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)
08/12/2024	08/14/2024	0.0	0.0	290.88	No	-	338.80	8.60	0.50	8.50	0.90	27.80	155.9	0.30
08/26/2024	08/27/2024	0.0	0.0	291.12	No	-	358.40	8.40	0.60	8.20	0.10	26.80	277.5	0.30
09/09/2024	09/13/2024	0.0	0.0	290.87	No	-	359.20	8.60	0.60	7.80	0.70	27.00	225.8	0.30
09/23/2024	09/27/2024	0.0	0.0	290.90	No	-	331.60	8.60	0.50	8.00	0.40	26.40	196.1	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
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
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

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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
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

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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
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

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	[redacted]	(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

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Headspace, Fuel Product Gauging, and Parameters

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
RHMW19	-0.21
RHMW20	pending
RHMW2254-01	NA
OWDFMW01	-0.03
OWDFMW04A	-0.03
OWDFMW05A	-0.03
OWDFMW07A	-0.08
OWDFMW08A	-0.08
HDMW2253-03	-0.01
NMW24	-0.06
NMW25	pending
NMW32	pending
NMW33	pending
NMW30	pending
RHP01	-0.04
RHP02	-0.02

Red Hill Bulk Fuel Storage Facility
Notice of Interest 20210507-0852 (6 May 2021 Event)
Notice of Interest 20211120-2330 (20 Nov 2021 Event)
Headspace, Fuel Product Gauging, and Parameters

RHP03	-0.02
RHP04A	-0.04
RHP04B	pending
RHP04C	-0.02
RHP05	pending
RHP06	pending
RHP07	0.00
RHP08	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.

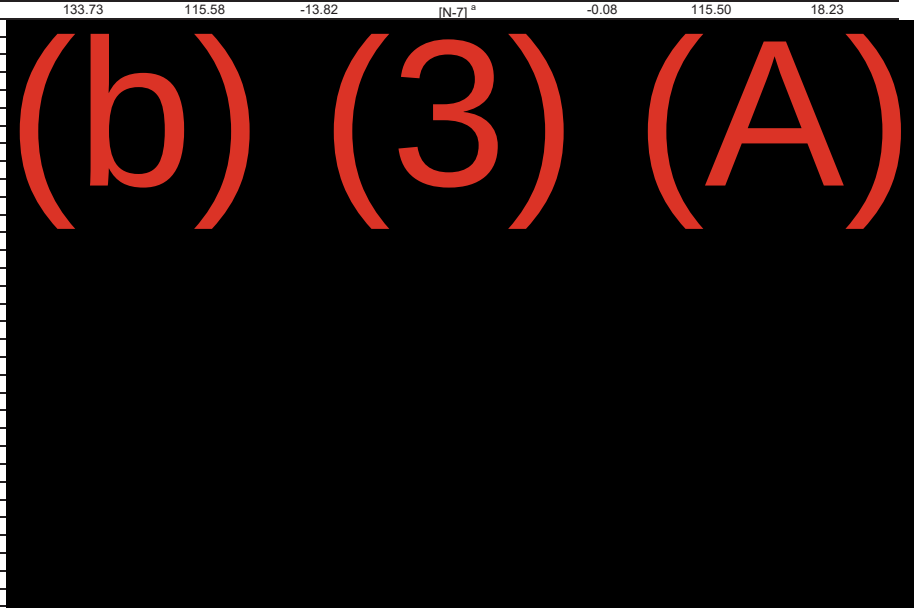
Appendix B.2.2 – Monitoring Well Water Level Measurements

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							
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	16.4
	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	16.7
	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	16.7
	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
NMW25	09/07/2023	208.43	190.84	17.59	-0.08 [N-6]	—	190.76	17.67
	10/02/2023	208.43	190.89	17.54	-0.02 [N-5]	—	190.87	17.56
	10/13/2023	208.43	190.94	17.49	-0.02 [N-5]	—	190.92	17.51
	11/09/2023	208.43	190.99	17.44	-0.08 [N-6]	—	190.91	17.52
	12/07/2023	208.43	190.85	17.58	-0.09 [N-3]	—	190.76	17.67
	01/04/2024	208.43	190.73	17.70	-0.09 [N-3]	—	190.64	17.79
	02/14/2024	208.43	190.66	17.77	-0.13 [N-4]	—	190.53	17.9
	03/20/2024	208.43	190.72	17.71	-0.13 [N-4]	—	190.59	17.84
	04/10/2024	208.43	190.71	17.72	-0.02 [N-5]	—	190.69	17.74
	05/15/2024	208.43	190.41	18.02	-0.02 [N-5]	—	190.39	18.04
	05/29/2024	208.43	190.24	18.19	-0.02 [N-5]	—	190.22	18.21
	06/12/2024	208.43	190.33	18.1	-0.02 [N-5]	—	190.31	18.12
	06/26/2024	208.43	190.34	18.09	-0.02 [N-5]	—	190.32	18.11
	07/10/2024	208.43	190.33	18.1	-0.09 [N-3]	—	190.24	18.19
	08/14/2024	208.43	190.23	18.2	-0.02 [N-5]	—	190.21	18.22
	08/28/2024	208.43	190.31	18.12	-0.02 [N-5]	—	190.29	18.14
	09/12/2024	208.43	190.12	18.31	288404 [b]	—	190.12	18.31
	09/24/2024	208.43	190.15	18.28	-0.02 [N-5]	—	190.13	18.3
NMW26	05/13/2024	766.18	750.00	16.18	-0.13 [N-2]	—	749.87	16.31
	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
NMW30	10/19/2023	308.85	291.65	17.20	-0.03 [N-5]	—	291.62	17.23
	11/09/2023	308.85	291.71	17.14	-0.03 [N-5]	—	291.68	17.17
	12/07/2023	308.85	291.54	17.31	-0.10 [N-3]	—	291.44	17.41
	01/04/2024	308.85	291.45	17.40	-0.03 [N-5]	—	291.42	17.43
	02/15/2024	308.85	291.35	17.50	-0.09 [N-6]	—	291.26	17.59
	03/20/2024	308.85	291.43	17.42	-0.11 [N-2]	—	291.32	17.53
	04/11/2024	308.85	291.45	17.40	-0.09 [N-6]	—	291.36	17.49
	05/16/2024	308.85	291.00	17.85	-0.03 [N-5]	—	290.97	17.88
	05/30/2024	308.85	291.45	17.4	-0.11 [N-2]	—	291.34	17.51
	06/13/2024	308.85	290.97	17.88	[N-7] [a]	—	290.97	17.88
	06/27/2024	308.85	290.91	17.94	-0.10 [N-3]	—	290.81	18.04
	07/11/2024	308.85	290.92	17.93	[N-7] [a]	—	290.92	17.93
	07/25/2024	308.85	291.01	17.84	[N-7] [a]	—	291.01	17.84
	08/15/2024	308.85	290.97	17.88	[N-7] [a]	—	290.97	17.88
	08/29/2024	308.85	290.93	17.92	[N-7] [a]	—	290.93	17.92
	09/12/2024	308.85	290.72	18.13	288404 [b]	—	290.72	18.13
	09/26/2024	308.85	290.82	18.03	-0.14 [N-4]	—	290.68	18.17
NMW32	09/13/2023	188.27	170.68	17.59	-0.02 [N-5]	—	170.66	17.61
	10/10/2023	188.27	170.88	17.39	-0.09 [N-3]	—	170.79	17.48
	10/03/2023	188.27	170.79	17.48	-0.02 [N-5]	—	170.77	17.5
	11/10/2023	188.27	170.90	17.37	-0.02 [N-5]	—	170.88	17.39
	12/08/2023	188.27	170.77	17.50	-0.08 [N-6]	—	170.69	17.58
	01/04/2024	188.27	170.66	17.61	-0.02 [N-5]	—	170.64	17.63
	02/15/2024	188.27	170.53	17.74	-0.02 [N-5]	—	170.51	17.76
	03/21/2024	188.27	170.67	17.60	-0.12 [N-4]	—	170.55	17.72
	04/11/2024	188.27	170.64	17.63	-0.02 [N-5]	—	170.62	17.65
	05/16/2024	188.27	170.24	18.03	-0.02 [N-5]	—	170.22	18.05
	05/30/2024	188.27	170.21	18.06	-0.02 [N-5]	—	170.19	18.08
	06/13/2024	188.27	170.20	18.07	-0.12 [N-4]	—	170.08	18.19
	06/27/2024	188.27	170.17	18.1	-0.09 [N-3]	—	170.08	18.19
	07/11/2024	188.27	170.13	18.14	-0.02 [N-5]	—	170.11	18.16
	07/25/2024	188.27	170.19	18.08	-0.02 [N-5]	—	170.17	18.1
	08/16/2024	188.27	170.32	17.95	-0.09 [N-3]	—	170.23	18.04
	08/29/2024	188.27	170.09	18.18	-0.09 [N-3]	—	170.00	18.27
	09/11/2024	188.27	170.17	18.1	288404 [b]	—	170.17	18.1
	09/26/2024	188.27	170.06	18.21	-0.12 [N-4]	—	169.94	18.33

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)
NMW33	10/03/2023	130.76	118.92	11.84	-0.01 [N-5]	—	118.91	11.85
	10/09/2023	130.76	119.00	11.76	-0.07 [N-3]	—	118.93	11.83
	11/10/2023	130.76	117.32	13.44	-0.01 [N-5]	—	117.31	13.45
	12/08/2023	130.76	117.41	13.35	-0.01 [N-5]	—	117.40	13.36
	01/05/2024	130.76	117.57	13.19	-0.01 [N-5]	—	117.56	13.2
	02/15/2024	130.76	117.69	13.07	-0.01 [N-5]	—	117.68	13.08
	03/21/2024	130.76	117.84	12.92	-0.10 [N-4]	—	117.74	13.02
	04/11/2024	130.76	117.80	12.96	-0.01 [N-5]	—	117.79	12.97
	05/16/2024	130.76	117.88	12.88	-0.07 [N-6]	—	117.81	12.95
	05/30/2024	130.76	117.79	12.97	-0.01 [N-5]	—	117.78	12.98
	06/13/2024	130.76	117.74	13.02	-0.10 [N-4]	—	117.64	13.12
	06/25/2024	130.76	117.59	13.17	-0.07 [N-3]	—	117.52	13.24
	07/11/2024	130.76	117.57	13.19	-0.01 [N-5]	—	117.56	13.2
	07/25/2024	130.76	117.58	13.18	-0.01 [N-5]	—	117.57	13.19
	08/16/2024	130.76	117.57	13.19	-0.07 [N-3]	—	117.50	13.26
	08/29/2024	130.76	117.62	13.14	-0.07 [N-3]	—	117.55	13.21
	09/12/2024	130.76	117.67	13.09	252094 [b]	—	117.67	13.09
	09/25/2024	130.76	117.70	13.06	[N-7] [a]	—	117.70	13.06
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	16.6
	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	16.8
	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	16.8
	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	16.9
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	18.3
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	18.2
	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	-13.82	[N-7] [a]	-0.08	115.50	18.23
RHMW01R	06/15/2023							
	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							
	12/26/2023							
	01/05/2024							
	01/12/2024							
	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							
	07/15/2024							
	08/05/2024							
	08/22/2024							
	09/03/2024							
	09/16/2024							



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	[redacted]						
	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							
	12/08/2023							
	12/15/2023							
	12/19/2023							
	12/26/2023							
	01/05/2024							
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	06/17/2024							
	07/01/2024							
	07/15/2024							
	08/05/2024							
	08/22/2024							
	09/03/2024							
	09/26/2024							
	10/07/2024							
RHMW03	06/14/2023							
	09/07/2023							
	10/06/2023							
	10/09/2023							
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	10/27/2023							
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	10/08/2024							
RHMW04	06/14/2023							
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	11/07/2023							
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	07/09/2024							
	07/23/2024							
	08/13/2024							
	08/27/2024							
	09/20/2024							

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)
RHMW05	06/15/2023	[redacted]						
	09/05/2023							
	10/04/2023							
	10/10/2023							
	10/17/2023							
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	07/17/2024							
	08/07/2024							
	08/21/2024							
	09/05/2024							
	09/18/2024							
RHMW06	06/14/2023							
	09/08/2023							
	10/06/2023							
	10/13/2023							
	10/23/2023							
	10/30/2023							
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	07/01/2024							
	07/18/2024							
	08/08/2024							
	08/22/2024							
	09/19/2024							
RHMW08	09/06/2023							
	10/04/2023							
	10/11/2023							
	10/18/2023							
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	11/01/2023							
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	06/03/2024							
	06/17/2024							
	07/01/2024							
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	08/05/2024							
	08/21/2024							
	09/03/2024							
	09/16/2024							
	10/01/2024							

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							
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	08/09/2024							
	08/23/2024							
	09/09/2024							
	09/20/2024							
	10/01/2024							
RHMW10	06/14/2023							
	09/05/2023							
	10/05/2023							
	10/10/2023							
	10/26/2023							
	10/31/2023							
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	06/07/2024							
	06/21/2024							
	07/05/2024							
	07/19/2024							
	08/09/2024							
	08/23/2024							
	09/06/2024							
RHMW11-05	10/02/2023							
	10/09/2023							
	10/24/2023							
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	11/15/2023							
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	08/07/2024							
	08/29/2024							
	09/04/2024							
	09/18/2024							
	10/08/2024							

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							
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	06/11/2024							
	06/25/2024							
	07/12/2024							
	07/26/2024							
	08/15/2024							
	08/30/2024							
	09/13/2024							
	09/27/2024							
RHMW13-04	09/05/2023							
	10/05/2023							
	10/10/2023							
	10/13/2023							
	10/25/2023							
	10/31/2023							
	11/09/2023							
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	02/16/2024							
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	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							
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							
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	07/03/2024							
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	08/19/2024							
	09/04/2024							
	09/18/2024							
	10/08/2024							

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							
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	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							
RHMW16	09/07/2023							
	10/05/2023							
	10/12/2023							
	10/26/2023							
	10/31/2023							
	11/06/2023							
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	11/28/2023							
	12/04/2023							
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	12/18/2023							
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	06/20/2024							
	07/02/2024							
	07/18/2024							
	08/08/2024							
	08/20/2024							
	09/03/2024							
	09/19/2024							
RHMW17	06/15/2023							
	09/08/2023							
	10/04/2023							
	10/11/2023							
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	12/19/2023							
	12/27/2023							
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	01/16/2024							
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	06/24/2024							
	07/08/2024							
	07/22/2024							
	08/12/2024							
	08/26/2024							
	09/23/2024							
RHMW18	04/11/2024							
	05/17/2024							
	05/30/2024							
	06/13/2024							
	06/27/2024							
	07/11/2024							
	07/25/2024							
	08/15/2024							
	08/29/2024							
	09/13/2024							
	09/25/2024							

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	[redacted]						
	09/05/2023							
	10/12/2023							
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	01/16/2024							
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	04/02/2024							
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	06/18/2024							
	07/02/2024							
	07/16/2024							
	08/09/2024							
	08/23/2024							
	09/06/2024							
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							
	11/21/2023							
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	06/14/2024							
	07/09/2024							
	07/23/2024							
	08/13/2024							
	08/28/2024							
	09/24/2024							
RHMW21	7/22/2024							
	8/5/2024							
	8/22/2024							
	9/4/2024							
	9/16/2024							
	10/7/2024							
RHMW2254-01	09/06/2023							
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	10/17/2023							
	10/24/2023							
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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)
RHP01	09/06/2023	[redacted]						
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	10/25/2023							
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	09/19/2024							
	10/03/2024							
RHP02	09/06/2023							
	10/06/2023							
	10/13/2023							
	11/08/2023							
	11/14/2023							
	11/22/2023							
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	08/08/2024							
	08/20/2024							
	09/06/2024							
	09/19/2024							
	10/03/2024							
RHP03	09/08/2023							
	10/06/2023							
	10/13/2023							
	10/26/2023							
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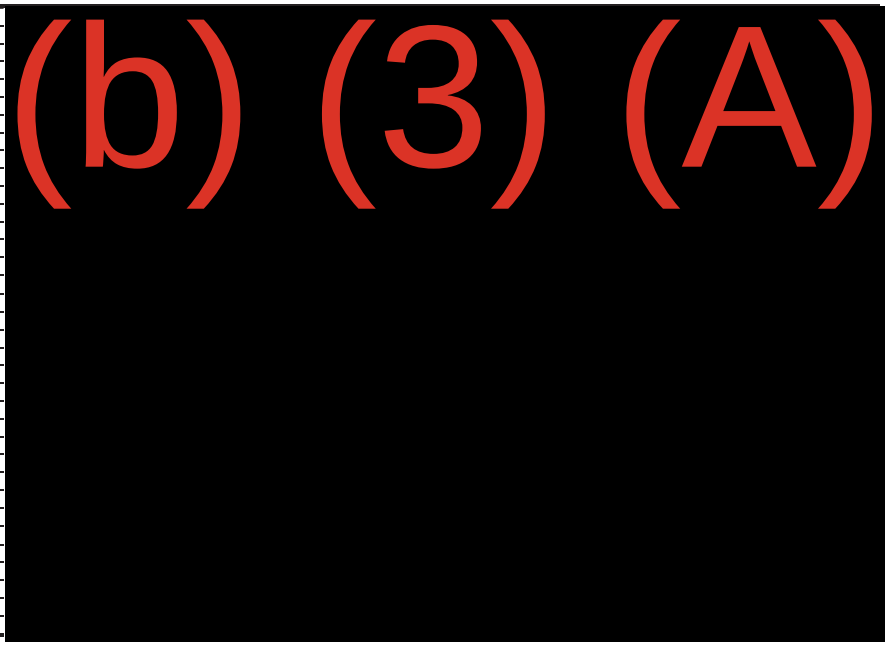
Appendix B.2.2 Groundwater Elevation Data, Current Reporting Period (cont'd)

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							
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	06/20/2024							
	07/03/2024							
	07/18/2024							
	08/22/2024							
	09/09/2024							
	09/17/2024							
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							
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							

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							
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							
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							

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							
	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							
RHP08B	9/27/2024							
RHP08C	8/14/2024							
	8/27/2024							
	9/13/2024							
	9/27/2024							

* 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
mg/L = milligram per liter
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 | | | | | |

App. B 3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
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	
					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	
NMW24	(b) (4)	24F0261	NMW24-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-141527-1	NMW24-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1243149	NMW24-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC16817	NMW24-WGN01B-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC16817	NMW24-WGN01LF-2406B	6/26/2024	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	UJ	<0.38	U	<0.38	U	<0.038	UJ	<0.38	UJ	<0.38	U
NMW24		24G0067	NMW24-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-141951-1	NMW24-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1243524	NMW24-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC17124	NMW24-WGN01B-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC17124	NMW24-WGN01LF-2407A	7/10/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	<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	UJ
NMW24		24G0254	NMW24-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		B24072301	NMW24-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-142445-1	NMW24-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1244063	NMW24-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC17560	NMW24-WGN01B-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC17560	NMW24-WGN01LF-2407B	7/26/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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
NMW24		24H0087	NMW24-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-142947-1	NMW24-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1244480	NMW24-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC18016	NMW24-WGN01LF-2408A	8/14/2024	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
NMW24		FC18016	NMW24-WGN01B-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24H0207	NMW24-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-143346-1	NMW24-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1244837	NMW24-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		24I0106	NMW24-WGN01LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		580-143831-1	NMW24-WGN01LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		1245281	NMW24-WGN01LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC18841	NMW24-WGN01B-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
NMW24		FC18841	NMW24-WGN01LF-2409A	9/12/2024	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

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 | | | | | |

App. B 3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
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		--		--		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	
NMW25	(b) (4)	24F0261	NMW25-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		580-141527-1	NMW25-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1243149	NMW25-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		FC16817	NMW25-WGN01B-2406B	6/26/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW25		FC16817	NMW25-WGN01LF-2406B	6/26/2024	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	<0.4	U	<0.4	U	<0.4	U
NMW25		24G0067	NMW25-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		580-141951-1	NMW25-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1243524	NMW25-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		FC17124	NMW25-WGN01LF-2407A	7/10/2024	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
NMW25		FC17124	NMW25-WGN01B-2407A	7/10/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW25		24G0254	NMW25-WGN01LF-2407B	7/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		B24072301	NMW25-WGN01LF-2407B	7/26/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
NMW25		580-142445-1	NMW25-WGN01LF-2407B	7/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1244063	NMW25-WGN01LF-2407B	7/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		FC17560	NMW25-WGN01B-2407B	7/26/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW25		FC17560	NMW25-WGN01LF-2407B	7/26/2024	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
NMW25		24H0087	NMW25-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		580-142947-1	NMW25-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1244480	NMW25-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		FC18016	NMW25-WGN01B-2408A	8/14/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW25		FC18016	NMW25-WGN01LF-2408A	8/14/2024	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
NMW25		24H0207	NMW25-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		580-143346-1	NMW25-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1244837	NMW25-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		24I0106	NMW25-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		580-143831-1	NMW25-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		1245281	NMW25-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW25		FC18841	NMW25-WGN01B-2409A	9/12/2024	Primary	--		--		--		--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--	
NMW25		FC18841	NMW25-WGN01LF-2409A	9/12/2024	Primary	<50	U	<100	U	<160	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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

						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			
NMW25	(b) (4)	24F0261	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-141527-1	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1243149	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC16817	NMW25-WGN01B-2406B	6/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC16817	NMW25-WGN01LF-2406B	6/26/2024	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		
NMW25		24G0067	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-141951-1	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1243524	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC17124	NMW25-WGN01LF-2407A	7/10/2024	Primary	<0.4	U			<0.4	U			<0.4	UJ			<0.04	U			<0.04	U			<0.04	U			<0.04	U			<0.04	U		
NMW25		FC17124	NMW25-WGN01B-2407A	7/10/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		24G0254	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		B24072301	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-142445-1	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1244063	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC17560	NMW25-WGN01B-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC17560	NMW25-WGN01LF-2407B	7/26/2024	Primary	<0.4	U			<0.4	U			<0.4	U			<0.04	U			<0.04	UJ			<0.04	U			<0.04	U			<0.04	U		
NMW25		24H0087	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-142947-1	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1244480	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC18016	NMW25-WGN01B-2408A	8/14/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC18016	NMW25-WGN01LF-2408A	8/14/2024	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		
NMW25		24H0207	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-143346-1	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1244837	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		24I0106	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		580-143831-1	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		1245281	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC18841	NMW25-WGN01B-2409A	9/12/2024	Primary	--				--				--				--				--				--				--				--			
NMW25		FC18841	NMW25-WGN01LF-2409A	9/12/2024	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		

						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							
NMW25	(b) (4)	24F0261	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-141527-1	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		1243149	NMW25-WGN01LF-2406B	6/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC16817	NMW25-WGN01B-2406B	6/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC16817	NMW25-WGN01LF-2406B	6/26/2024	Primary	<0.08	U			<0.04	UJ			<0.4	U			<0.4	U			<0.04	UJ			<0.4	UJ			<0.4	U						
NMW25		24G0067	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-141951-1	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--							
NMW25		1243524	NMW25-WGN01LF-2407A	7/10/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC17124	NMW25-WGN01LF-2407A	7/10/2024	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	UJ						
NMW25		FC17124	NMW25-WGN01B-2407A	7/10/2024	Primary	--				--				--				--				--				--				--							
NMW25		24G0254	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		B24072301	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-142445-1	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		1244063	NMW25-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC17560	NMW25-WGN01B-2407B	7/26/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC17560	NMW25-WGN01LF-2407B	7/26/2024	Primary	<0.08	U			<0.04	U			<0.4	U			<0.4	U			<0.04	U			<0.4	U			<0.4	U						
NMW25		24H0087	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-142947-1	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--							
NMW25		1244480	NMW25-WGN01LF-2408A	8/14/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC18016	NMW25-WGN01B-2408A	8/14/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC18016	NMW25-WGN01LF-2408A	8/14/2024	Primary	<0.083	U			<0.042	U			<0.42	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U						
NMW25		24H0207	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-143346-1	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--							
NMW25		1244837	NMW25-WGN01LF-2408B	8/28/2024	Primary	--				--				--				--				--				--				--							
NMW25		24I0106	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--							
NMW25		580-143831-1	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--							
NMW25		1245281	NMW25-WGN01LF-2409A	9/12/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC18841	NMW25-WGN01B-2409A	9/12/2024	Primary	--				--				--				--				--				--				--							
NMW25		FC18841	NMW25-WGN01LF-2409A	9/12/2024	Primary	<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 | | | | | |

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		86.3		ND		ND		86		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)	24F0252	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		1243112	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		FC16725	NMW26-WGN01B-2406B	6/24/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW26		FC16725	NMW26-WGN01LF-2406B	6/24/2024	Primary	<50	U	<100	U	86.3	J	<100	U	<170	U	86		<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
NMW26		24G0047	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		580-141848-1	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		1243449	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		FC17087	NMW26-WGN01LF-2407A	7/8/2024	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
NMW26		FC17087	NMW26-WGN01B-2407A	7/8/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW26		24G0217	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		B24072118	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		<143	U	<190	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
NMW26		580-142367-1	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		1243925	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		FC17481	NMW26-WGN01LF-2407B	7/24/2024	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	U
NMW26		FC17481	NMW26-WGN01B-2407B	7/24/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW26		24H0065	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		580-142876-1	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		1244418	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		FC17919	NMW26-WGN01LF-2408A	8/12/2024	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
NMW26		FC17919	NMW26-WGN01B-2408A	8/12/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW26		24H0185	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		580-143286-1	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		1244802	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		2400095	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		580-143783-1	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW26		FC18788	NMW26-WGN01LF-2409A	9/11/2024	Primary	<50	U	<110	U	<170	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	U	<0.42	U	<0.42	U
NMW26		FC18788	NMW26-WGN01B-2409A	9/11/2024	Primary	--		--		--		--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--		--	

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		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)	24F0252	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		1243112	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC16725	NMW26-WGN01B-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC16725	NMW26-WGN01LF-2406B	6/24/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	UJ	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	UJ	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U		
NMW26		24G0047	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-141848-1	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		1243449	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17087	NMW26-WGN01LF-2407A	7/8/2024	Primary	<0.42	UJ	<0.42	UJ	<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	UJ	<0.42	U		
NMW26		FC17087	NMW26-WGN01B-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24G0217	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		B24072118	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-142367-1	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		1243925	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17481	NMW26-WGN01LF-2407B	7/24/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		FC17481	NMW26-WGN01B-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24H0065	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-142878-1	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		1244418	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17919	NMW26-WGN01LF-2408A	8/12/2024	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		FC17919	NMW26-WGN01B-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24H0185	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-143286-1	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		1244802	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24G095	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-143783-1	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC18788	NMW26-WGN01LF-2409A	9/11/2024	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		
NMW26		FC18788	NMW26-WGN01B-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			

Notes:
See Data Legend

App. B 3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L			
					Minimum	ND		ND		ND		ND		0.27		ND		756		110		ND		110		30		ND		ND		ND		15			
					Maximum	ND		ND		ND		ND		0.32		1390		2360		130		ND		130		31		ND		0.11		0.12		17			
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)	24F0252	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--			
NMW26		1243112	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		--		--		--		--		1390		1220		--		--		--		--		--		--		--		--		--			
NMW26		FC16725	NMW26-WGN01B-2406B	6/24/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC16725	NMW26-WGN01LF-2406B	6/24/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.27	J	--		--		--		--		--		--		--		--		--		--		--			
NMW26		24G0047	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--			
NMW26		580-141848-1	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		30		--		<0.12	U	<0.12	U	17			
NMW26		1243449	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		--		--		--		--		1060	J+	828	J	--		--		--		--		--		--		--		--			
NMW26		FC17087	NMW26-WGN01LF-2407A	7/8/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.3	J	--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17087	NMW26-WGN01B-2407A	7/8/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24G0217	NMW26-WGN01LF-2407B	7/24/2024	Primary	<60	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	UJ	--		--		--			
NMW26		B24072118	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		580-142367-1	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		30		--		<0.12	U	<0.12	U	16			
NMW26		1243925	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		785	J+	2360		--		--		--		--		--		--		--		--		--			
NMW26		FC17481	NMW26-WGN01LF-2407B	7/24/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	0.3	J	--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17481	NMW26-WGN01B-2407B	7/24/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24H0065	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--			
NMW26		580-142878-1	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		30		--		<0.12	U	0.073	J	15			
NMW26		1244418	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		--		--		--		--		<750	U	756	J+	--		--		--		--		--		--		--		--		--			
NMW26		FC17919	NMW26-WGN01LF-2408A	8/12/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	0.3	J	--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC17919	NMW26-WGN01B-2408A	8/12/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--			
NMW26		24H0185	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--			
NMW26		580-143286-1	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		31		--		<0.12	U	0.079	J	16			
NMW26		1244802	NMW26-WGN01LF-2408B	8/26/2024	Primary	--		--		--		--		--		<750	U	811	J+	--		--		--		--		--		--		--		--		--			
NMW26		2408095	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--			
NMW26		580-143783-1	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		30		--		0.11	J	0.12	J	16			
NMW26		FC18788	NMW26-WGN01LF-2409A	9/11/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.32	J	--		--		--		--		--		--		--		--		--		--		--			
NMW26		FC18788	NMW26-WGN01B-2409A	9/11/2024	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: 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)	24F0281	NMW30-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-141582-1	NMW30-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1243190	NMW30-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC16872	NMW30-WGN01B-2406B	6/27/2024	Primary	--		--		--		--		--		**ND**		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW30		FC16872	NMW30-WGN01LF-2406B	6/27/2024	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	<0.38	U	<0.38	U	<0.38	U
NMW30		24G0117	NMW30-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-141989-1	NMW30-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1243571	NMW30-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC17165	NMW30-WGN01LF-2407A	7/11/2024	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
NMW30		FC17165	NMW30-WGN01B-2407A	7/11/2024	Primary	--		--		--		--		--		**ND**		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW30		24G0231	NMW30-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		B24072275	NMW30-WGN01LF-2407B	7/25/2024	Primary	--		<141	U	<189	U	--		--		**ND**		--		--		--		--		--		--		--		--		--		--	
NMW30		580-142404-1	NMW30-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1243950	NMW30-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC17546	NMW30-WGN01B-2407B	7/25/2024	Primary	--		--		--		--		--		**ND**		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW30		FC17546	NMW30-WGN01LF-2407B	7/25/2024	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	<0.42	U	<0.42	U	<0.42	U
NMW30		24H0104	NMW30-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-142944-1	NMW30-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1244520	NMW30-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18072	NMW30-WGN01B-2408A	8/15/2024	Primary	--		--		--		--		--		**ND**		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW30		FC18072	NMW30-WGN01LF-2408A	8/15/2024	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
NMW30		24H0241	NMW30-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-143402-1	NMW30-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1244876	NMW30-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18496	NMW30-WGN01LF-2408B	8/29/2024	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		FC18496	NMW30-WGN01B-2408B	8/29/2024	Primary	--		--		--		--		--		**ND**		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
NMW30		240106	NMW30-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-143831-1	NMW30-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		1245281	NMW30-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18841	NMW30-WGN01B-2409A	9/12/2024	Primary	--		--		--		--		--		**ND**		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--		--	
NMW30		FC18841	NMW30-WGN01LF-2409A	9/12/2024	Primary	<50	U	<100	U	<170	U	--		--		**ND**		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: NMW30

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

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		8.5		ND		ND		89		ND		89		100		ND		0.7		0.68		30	
					Maximum	ND		ND		ND		ND		50		514		5890		120		ND		120		110		ND		1		1.3		31	
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)	24F0281	NMW30-WGND1LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		580-141582-1	NMW30-WGND1LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		100		--		0.7		0.68		31	
NMW30		1243190	NMW30-WGND1LF-2406B	6/27/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW30		FC16872	NMW30-WGND1B-2406B	6/27/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC16872	NMW30-WGND1LF-2406B	6/27/2024	Primary	--		<2	U	<0.015	U	<0.5	U	50		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		24G0117	NMW30-WGND1LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		580-141889-1	NMW30-WGND1LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		99		<7	U	99		110		--		0.75		0.72		31	
NMW30		1243571	NMW30-WGND1LF-2407A	7/11/2024	Primary	--		--		--		--		--		421	J	5890		--		--		--		--		--		--		--		--		--	
NMW30		FC17165	NMW30-WGND1LF-2407A	7/11/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	49.5		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC17165	NMW30-WGND1B-2407A	7/11/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		24G0231	NMW30-WGND1LF-2407B	7/25/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		B24072275	NMW30-WGND1LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		580-142404-1	NMW30-WGND1LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		97		<7	U	97		110		--		0.81		0.84		30	
NMW30		1243990	NMW30-WGND1LF-2407B	7/25/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW30		FC17546	NMW30-WGND1B-2407B	7/25/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC17546	NMW30-WGND1LF-2407B	7/25/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	30.6		--		--		--		--		--		--		--		--		--		--		--	
NMW30		24H0104	NMW30-WGND1LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		580-142944-1	NMW30-WGND1LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		89		<7	U	89	J+	110		--		0.98		0.99		31	
NMW30		1244520	NMW30-WGND1LF-2408A	8/15/2024	Primary	--		--		--		--		--		502	J	532	J	--		--		--		--		--		--		--		--		--	
NMW30		FC18072	NMW30-WGND1B-2408A	8/15/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18072	NMW30-WGND1LF-2408A	8/15/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	25.1		--		--		--		--		--		--		--		--		--		--		--	
NMW30		24H0241	NMW30-WGND1LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		580-143402-1	NMW30-WGND1LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		96		<7	U	96		100		--		0.94		0.93		30	
NMW30		1244876	NMW30-WGND1LF-2408B	8/29/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW30		FC18496	NMW30-WGND1LF-2408B	8/29/2024	Primary	--		<2	U	<0.015	U	<0.5	U	8.5		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18496	NMW30-WGND1B-2408B	8/29/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		24I0106	NMW30-WGND1LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW30		580-143831-1	NMW30-WGND1LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		92		<7	U	92		100		--		1		1.3		30	
NMW30		1245281	NMW30-WGND1LF-2409A	9/12/2024	Primary	--		--		--		--		--		514	J	<750	U	--		--		--		--		--		--		--		--		--	
NMW30		FC18841	NMW30-WGND1B-2409A	9/12/2024	Primary	--		--		--		<0.5	UJ	--		--		--		--		--		--		--		--		--		--		--		--	
NMW30		FC18841	NMW30-WGND1LF-2409A	9/12/2024	Primary	--		<2	U	<0.014	U	<0.5	UJ	18		--		--		--		--		--		--		--		--		--		--		--	

Notes:
See Data Legend

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

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

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

						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			
NMW32	(b) (4)	24F0281	NMW32-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-141582-1	NMW32-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		1243190	NMW32-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC16872	NMW32-WGN01LF-2406B	6/27/2024	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	UJ	<0.38	U	<0.38	U	<0.038	UJ	<0.38	UJ	<0.38	U		
NMW32		FC16872	NMW32-WGN01B-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		24G0105	NMW32-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-141889-1	NMW32-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		1243571	NMW32-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC17165	NMW32-WGN01B-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC17165	NMW32-WGN01LF-2407A	7/11/2024	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	UJ	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
NMW32		24G0231	NMW32-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		B24072275	NMW32-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-142404-1	NMW32-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		1243950	NMW32-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC17546	NMW32-WGN01B-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC17546	NMW32-WGN01LF-2407B	7/25/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		
NMW32		24H0109	NMW32-WGN01LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-143030-1	NMW32-WGN01LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		1244605	NMW32-WGN01LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC18089	NMW32-WGN01B-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC18089	NMW32-WGN01LF-2408A	8/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
NMW32		24H0241	NMW32-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-143402-1	NMW32-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		1244876	NMW32-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC18496	NMW32-WGN01LF-2408B	8/29/2024	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		
NMW32		FC18496	NMW32-WGN01B-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		2409095	NMW32-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		580-143783-1	NMW32-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC18788	NMW32-WGN01B-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW32		FC18788	NMW32-WGN01LF-2409A	9/11/2024	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		

Notes:
See Data Legend

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 | | | | | |

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	
NMW33	(b) (4)	24F0252	NMW33-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		580-141495-1	NMW33-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1243133	NMW33-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC16768	NMW33-WGN01B-2406B	6/25/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW33		FC16768	NMW33-WGN01LF-2406B	6/25/2024	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	U	<0.4	U	<0.4	U
NMW33		24G0105	NMW33-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		580-141869-1	NMW33-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1243571	NMW33-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC17165	NMW33-WGN01B-2407A	7/11/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW33		FC17165	NMW33-WGN01LF-2407A	7/11/2024	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
NMW33		24G0231	NMW33-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		B24072275	NMW33-WGN01LF-2407B	7/25/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--	
NMW33		580-142404-1	NMW33-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1243950	NMW33-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC17546	NMW33-WGN01LF-2407B	7/25/2024	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	U
NMW33		FC17546	NMW33-WGN01B-2407B	7/25/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW33		24H0109	NMW33-WGN01LF-2408A	8/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		580-143030-1	NMW33-WGN01LF-2408A	8/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1244605	NMW33-WGN01LF-2408A	8/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC18089	NMW33-WGN01LF-2408A	8/16/2024	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
NMW33		FC18089	NMW33-WGN01B-2408A	8/16/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW33		24H0241	NMW33-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		580-143402-1	NMW33-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1244876	NMW33-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC18496	NMW33-WGN01B-2408B	8/29/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW33		FC18496	NMW33-WGN01LF-2408B	8/29/2024	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		24I0106	NMW33-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		580-143831-1	NMW33-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		1245281	NMW33-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW33		FC18841	NMW33-WGN01LF-2409A	9/12/2024	Primary	<50	U	<100	U	<170	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	U	<0.42	U	<0.42	U
NMW33		FC18841	NMW33-WGN01B-2409A	9/12/2024	Primary	--		--		--		--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--	

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		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			
NMW33	(b) (4)	24F0252	NMW33-WGND1LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-141495-1	NMW33-WGND1LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1243133	NMW33-WGND1LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC16768	NMW33-WGND1B-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC16768	NMW33-WGND1LF-2406B	6/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	UJ	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U		
NMW33		24G0105	NMW33-WGND1LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-141889-1	NMW33-WGND1LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1243571	NMW33-WGND1LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC17165	NMW33-WGND1B-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC17165	NMW33-WGND1LF-2407A	7/11/2024	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	UJ	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
NMW33		24G0231	NMW33-WGND1LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		B24072275	NMW33-WGND1LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-142404-1	NMW33-WGND1LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1243950	NMW33-WGND1LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC17546	NMW33-WGND1LF-2407B	7/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		
NMW33		FC17546	NMW33-WGND1B-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		24H0109	NMW33-WGND1LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-143030-1	NMW33-WGND1LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1244605	NMW33-WGND1LF-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC18089	NMW33-WGND1LF-2408A	8/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
NMW33		FC18089	NMW33-WGND1B-2408A	8/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		24H0241	NMW33-WGND1LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-143402-1	NMW33-WGND1LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1244876	NMW33-WGND1LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC18496	NMW33-WGND1B-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC18496	NMW33-WGND1LF-2408B	8/29/2024	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		
NMW33		24I0106	NMW33-WGND1LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		580-143831-1	NMW33-WGND1LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		1245281	NMW33-WGND1LF-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
NMW33		FC18841	NMW33-WGND1LF-2409A	9/12/2024	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		
NMW33		FC18841	NMW33-WGND1B-2409A	9/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

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

| | | | | | | 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: 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)	24F0252	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-141495-1	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1243133	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC16768	NMW34-WGN01B-2406B	6/25/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW34		FC16768	NMW34-WGN01LF-2406B	6/25/2024	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	U	<0.4	U	<0.4	U
NMW34		24G0047	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-141892-1	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1243475	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17087	NMW34-WGN01LF-2407A	7/9/2024	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	<0.4	U	<0.4	U	<0.4	U
NMW34		FC17087	NMW34-WGN01B-2407A	7/9/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW34		24G0206	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		B24072012	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		<141	U	<189	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
NMW34		580-142335-1	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1243878	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17424	NMW34-WGN01B-2407B	7/23/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW34		FC17424	NMW34-WGN01LF-2407B	7/23/2024	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	<0.38	U	<0.38	U	<0.38	U
NMW34		24H0077	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-142912-1	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1244440	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17965	NMW34-WGN01B-2408A	8/13/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
NMW34		FC17965	NMW34-WGN01LF-2408A	8/13/2024	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	<0.43	U	<0.43	U	<0.43	U
NMW34		24H0193	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-143311-1	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1244805	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		24I0106	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-143831-1	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		1245281	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC18841	NMW34-WGN01B-2409A	9/12/2024	Primary	--		--		--		--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--	
NMW34		FC18841	NMW34-WGN01LF-2409A	9/12/2024	Primary	<50	U	<110	U	<170	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: NMW34

						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		0.098		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	
NMW34	(b) (4)	24F0252	NMW34-WGND1LF-2406B	6/25/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-141495-1	NMW34-WGND1LF-2406B	6/25/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1243133	NMW34-WGND1LF-2406B	6/25/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC16768	NMW34-WGND1B-2406B	6/25/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC16768	NMW34-WGND1LF-2406B	6/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	UJ	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
NMW34		24G0047	NMW34-WGND1LF-2407A	7/9/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-141892-1	NMW34-WGND1LF-2407A	7/9/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1243475	NMW34-WGND1LF-2407A	7/9/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC17087	NMW34-WGND1LF-2407A	7/9/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	<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	U	<0.04	U	<0.4	U	<0.4	UJ
NMW34		FC17087	NMW34-WGND1B-2407A	7/9/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		24G0206	NMW34-WGND1LF-2407B	7/23/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		B24072012	NMW34-WGND1LF-2407B	7/23/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-142335-1	NMW34-WGND1LF-2407B	7/23/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1243878	NMW34-WGND1LF-2407B	7/23/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC17424	NMW34-WGND1B-2407B	7/23/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC17424	NMW34-WGND1LF-2407B	7/23/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	UJ	<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
NMW34		24H0077	NMW34-WGND1LF-2408A	8/13/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-142912-1	NMW34-WGND1LF-2408A	8/13/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1244440	NMW34-WGND1LF-2408A	8/13/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC17965	NMW34-WGND1B-2408A	8/13/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC17965	NMW34-WGND1LF-2408A	8/13/2024	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		24H0193	NMW34-WGND1LF-2408B	8/27/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-143311-1	NMW34-WGND1LF-2408B	8/27/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1244805	NMW34-WGND1LF-2408B	8/27/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		24I0106	NMW34-WGND1LF-2409A	9/12/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		580-143831-1	NMW34-WGND1LF-2409A	9/12/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		1245281	NMW34-WGND1LF-2409A	9/12/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC18841	NMW34-WGND1B-2409A	9/12/2024	Primary	=		=		=		=		=		=		=		=		=		=		=		=		=		=		=	
NMW34		FC18841	NMW34-WGND1LF-2409A	9/12/2024	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

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		130		ND		130		86		ND		3.4		3.4		39	
					Maximum	ND		ND		ND		ND		ND		488		1010		140		ND		140		90		ND		3.9		3.7		46	
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)	24F0252	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		580-141495-1	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		88		--		3.5		3.4		43	
NMW34		1243133	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		<750	U	862	J+	--		--		--		--		--		--		--		--		--	
NMW34		FC16768	NMW34-WGN01B-2406B	6/25/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC16768	NMW34-WGN01LF-2406B	6/25/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
NMW34		24G0047	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		580-141892-1	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		90		--		3.9		3.7		46	
NMW34		1243475	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		<750	U	1010	J+	--		--		--		--		--		--		--		--		--	
NMW34		FC17087	NMW34-WGN01LF-2407A	7/9/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17087	NMW34-WGN01B-2407A	7/9/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		24G0206	NMW34-WGN01LF-2407B	7/23/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		B24072012	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-142335-1	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		89		--		3.6		3.7		43	
NMW34		1243878	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW34		FC17424	NMW34-WGN01B-2407B	7/23/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17424	NMW34-WGN01LF-2407B	7/23/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		24H0077	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		580-142912-1	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		140		<7	U	140	J+	90		--		3.7		3.7		42	
NMW34		1244440	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW34		FC17965	NMW34-WGN01B-2408A	8/13/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC17965	NMW34-WGN01LF-2408A	8/13/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
NMW34		24H0193	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		580-143311-1	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130	J+	87		--		3.7		3.6		40	
NMW34		1244805	NMW34-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
NMW34		24I0106	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
NMW34		580-143831-1	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		86		--		3.4		3.7		39	
NMW34		1245281	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		--		--		--		--		488	J	<750	U	--		--		--		--		--		--		--		--		--	
NMW34		FC18841	NMW34-WGN01B-2409A	9/12/2024	Primary	--		--		--		<0.5	UJ	--		--		--		--		--		--		--		--		--		--		--		--	
NMW34		FC18841	NMW34-WGN01LF-2409A	9/12/2024	Primary	--		<2	U	<0.014	U	<0.5	UJ	<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: 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	
OWDFMW03A	[redacted]	24F0261	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		580-141527-1	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		1243149	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		FC16817	OWDFMW03A-WGN01LF-2406B	6/26/2024	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	<0.38	U	<0.38	U	<0.38	U
OWDFMW03A		24G0067	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		580-141951-1	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		1243524	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		FC17124	OWDFMW03A-WGN01LF-2407A	7/10/2024	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
OWDFMW03A		24G0217	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		B24072118	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	--		<164	U	<192	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		580-142367-1	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		1243925	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		FC17481	OWDFMW03A-WGN01LF-2407B	7/24/2024	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	<0.43	U	<0.43	U	<0.43	U
OWDFMW03A		24H0207	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		580-143346-1	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		1244837	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		24I0077	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		580-143678-1	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		1245182	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
OWDFMW03A		FC18707	OWDFMW03A-WGN01LF-2409A	9/9/2024	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

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			
					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			
OWDFMW03A	(b) (4)	24F0261	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		580-141527-1	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		1243149	OWDFMW03A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		FC16817	OWDFMW03A-WGN01LF-2406B	6/26/2024	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	UJ	<0.38	U	<0.38	U	<0.038	UJ	<0.38	UJ	<0.38	U		
OWDFMW03A		24G0067	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		580-141951-1	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		1243524	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		FC17124	OWDFMW03A-WGN01LF-2407A	7/10/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	<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	UJ		
OWDFMW03A		24G0217	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		B24072118	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		580-142367-1	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		1243925	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		FC17481	OWDFMW03A-WGN01LF-2407B	7/24/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	UJ	<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		
OWDFMW03A		24H0207	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		580-143346-1	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		1244837	OWDFMW03A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		2409077	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		580-143678-1	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		1245182	OWDFMW03A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
OWDFMW03A		FC18707	OWDFMW03A-WGN01LF-2409A	9/9/2024	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: OWDFMW03A

| | | | | | | 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: 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	
OWDFMW08A	(b) (4)	24F0261	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-141527-1	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1243149	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC16817	OWDFMW08A-WGN01LF-2406B	6/26/2024	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
OWDFMW08A		24G0067	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-141951-1	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1243524	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC17124	OWDFMW08A-WGN01LF-2407A	7/10/2024	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
OWDFMW08A		24G0217	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		B24072118	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	–		<161	U	<189	U	–		–		ND		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-142367-1	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1243925	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC17481	OWDFMW08A-WGN01LF-2407B	7/24/2024	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	<0.42	U	<0.42	U	<0.42	U
OWDFMW08A		24H0207	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-143346-1	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		1244837	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		2400095	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		580-143783-1	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
OWDFMW08A		FC18788	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	<50	U	<100	U	<170	U	–		–		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: 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		0.098		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			
OWDFMW08A	(b) (4)	24F0261	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		580-141527-1	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		1243149	OWDFMW08A-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		FC16817	OWDFMW08A-WGN01LF-2406B	6/26/2024	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	<0.08	U	<0.04	UJ	<0.4	U	<0.4	U	<0.04	UJ	<0.4	UJ	<0.4	U		
OWDFMW08A		24G0067	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		580-141951-1	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		1243524	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		FC17124	OWDFMW08A-WGN01LF-2407A	7/10/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	<0.04	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	UJ	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	UJ		
OWDFMW08A		24G0217	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		B24072118	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		580-142367-1	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		1243925	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		FC17481	OWDFMW08A-WGN01LF-2407B	7/24/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		24H0207	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		580-143346-1	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		1244837	OWDFMW08A-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		2409095	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		580-143783-1	OWDFMW08A-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
OWDFMW08A		FC18788	OWDFMW08A-WGN01LF-2409A	9/11/2024	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		

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 | | | | | |

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

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

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			
					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			
HDMW2253-03	(b) (4)	24F0295	HDMW2253-03-WGN01LF-2406B	6/28/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-141637-1	HDMW2253-03-WGN01LF-2406B	6/28/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1243279	HDMW2253-03-WGN01LF-2406B	6/28/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC16877	HDMW2253-03-WGN01LF-2406B	6/28/2024	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	UJ			<0.43	U			<0.43	U			<0.043	UJ			<0.43	UJ			<0.43	U		
HDMW2253-03		24G0117	HDMW2253-03-WGN01LF-2407A	7/12/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-142027-1	HDMW2253-03-WGN01LF-2407A	7/12/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1243639	HDMW2253-03-WGN01LF-2407A	7/12/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC17167	HDMW2253-03-WGN01LF-2407A	7/12/2024	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		24G0254	HDMW2253-03-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		B24072301	HDMW2253-03-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-142445-1	HDMW2253-03-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1244063	HDMW2253-03-WGN01LF-2407B	7/26/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC17560	HDMW2253-03-WGN01LF-2407B	7/26/2024	Primary	<0.42	U			<0.42	U			<0.42	U			<0.042	U			<0.042	UJ			<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		
HDMW2253-03		24H0104	HDMW2253-03-WGN01LF-2408A	8/15/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-142944-1	HDMW2253-03-WGN01LF-2408A	8/15/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1244520	HDMW2253-03-WGN01LF-2408A	8/15/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC18072	HDMW2253-03-WGN01LF-2408A	8/15/2024	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	U			<0.42	U			<0.042	U			<0.42	U			<0.42	U		
HDMW2253-03		24I0017	HDMW2253-03-WGN01LF-2408B	8/30/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-143431-1	HDMW2253-03-WGN01LF-2408B	8/30/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1244690	HDMW2253-03-WGN01LF-2408B	8/30/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC18544	HDMW2253-03-WGN01LF-2408B	8/30/2024	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		
HDMW2253-03		24I0119	HDMW2253-03-WGN01LF-2409A	9/13/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		580-143874-1	HDMW2253-03-WGN01LF-2409A	9/13/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		1245344	HDMW2253-03-WGN01LF-2409A	9/13/2024	Primary	--				--				--				--				--				--				--				--				--				--				--				--				--				--			
HDMW2253-03		FC18846	HDMW2253-03-WGN01LF-2409A	9/13/2024	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: HDMW2253-01

| | | | | | | Fuel Additive | | | | Lead Scavengers | | | | | |

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

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

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

						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			
RHMW01R	(b) (4)	FC16545	RHMW01R-WGN01LF-2406B	6/17/2024	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		
RHMW01R		FC16545	RHMW01R-WGN01B-2406B	6/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC16545	RHMW01R-WGFD01LF-2406B	6/17/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.038	UJ	<0.04	U	<0.038	UJ	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.038	UJ	<0.4	U	<0.4	U		
RHMW01R		FC16545	RHMW01R-WGFD01B-2406B	6/17/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		24G0014	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-141677-1	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1243280	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC16926	RHMW01R-WGN01LF-2407A	7/1/2024	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	UJ	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHMW01R		FC16926	RHMW01R-WGN01B-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC16926	RHMW01R-WGFD01LF-2407A	7/1/2024	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	UJ	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U		
RHMW01R		FC16926	RHMW01R-WGFD01B-2407A	7/1/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		24G0137	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		B24071277	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-142099-1	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1243639	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC17231	RHMW01R-WGN01LF-2407B	7/15/2024	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		
RHMW01R		FC17231	RHMW01R-WGN01B-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		24G0137	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		B24071277	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC17231	RHMW01R-WGFD01LF-2407B	7/15/2024	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		
RHMW01R		FC17231	RHMW01R-WGFD01B-2407B	7/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		24H0029	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-142687-1	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1244198	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC17737	RHMW01R-WGN01LF-2408A	8/5/2024	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		
RHMW01R		FC17737	RHMW01R-WGN01B-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC17737	RHMW01R-WGFD01B-2408A	8/5/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC17737	RHMW01R-WGFD01LF-2408A	8/5/2024	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		
RHMW01R		24H0170	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-143206-1	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1244710	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18287	RHMW01R-WGN01LF-2408B	8/22/2024	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		
RHMW01R		FC18287	RHMW01R-WGN01B-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18287	RHMW01R-WGFD01B-2408B	8/22/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18287	RHMW01R-WGFD01LF-2408B	8/22/2024	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		
RHMW01R		24I0026	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-143492-1	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1244989	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18543	RHMW01R-WGN01B-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18543	RHMW01R-WGN01LF-2409A	9/3/2024	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		
RHMW01R		FC18543	RHMW01R-WGFD01LF-2409A	9/3/2024	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		
RHMW01R		FC18543	RHMW01R-WGFD01B-2409A	9/3/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		24I0128	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		580-143931-1	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		1245344	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18893	RHMW01R-WGN01LF-2409B	9/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW01R		FC18893	RHMW01R-WGN01B-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW01R		FC18893	RHMW01R-WGFD01LF-2409B	9/16/2024	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		
RHMW01R		FC18893	RHMW01R-WGFD01B-2409B	9/16/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

Notes:
See Data Legend

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

						Fuel Additive				Lead Scavengers				Natural Attenuation Parameters																							
						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)	
					Analyte																																
					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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		317		755		813		79		ND		79		41		0.41		ND		ND		4.5	
					Maximum	ND		ND		ND		ND		443		878		2290		87		ND		87		44		0.44		0.098		ND		5.6	
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)	FC16545	RHMW01R-WGN01LF-2406B	6/17/2024	Primary	–		<1.9	UJ	<0.014	U	<0.5	U	359		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16545	RHMW01R-WGN01B-2406B	6/17/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16545	RHMW01R-WGFD01LF-2406B	6/17/2024	Field Duplicate	–		<1.9	UJ	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16545	RHMW01R-WGFD01B-2406B	6/17/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24G0014	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		0.41	J	–		–		–		–	
RHMW01R		580-141677-1	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		85		<7	U	85		42		–		<0.12	UJ	<0.12	U	5.6			
RHMW01R		1243280	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		755	J	813	J	–		–		–		–		–		–		–		–		–	
RHMW01R		FC16926	RHMW01R-WGN01LF-2407A	7/1/2024	Primary	–		<2	U	<0.014	U	<0.5	U	336		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16926	RHMW01R-WGN01B-2407A	7/1/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16926	RHMW01R-WGFD01LF-2407A	7/1/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC16926	RHMW01R-WGFD01B-2407A	7/1/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24G0137	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	<80	U	–		–		–		–		–		–		–		–		–		–		0.44	J	–		–		–		–	
RHMW01R		B24071277	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		580-142099-1	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		81		<7	U	81		42		–		<0.12	U	<0.12	U	5.4			
RHMW01R		1243639	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		–		–		–		–		796	J	1110		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17231	RHMW01R-WGN01LF-2407B	7/15/2024	Primary	–		<2	U	<0.014	U	<0.5	U	344		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17231	RHMW01R-WGN01B-2407B	7/15/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24G0137	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	<80	U	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		B24071277	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17231	RHMW01R-WGFD01LF-2407B	7/15/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17231	RHMW01R-WGFD01B-2407B	7/15/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24H0029	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		0.41	J	–		–		–		–	
RHMW01R		580-142687-1	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		87		<7	U	87		42		–		<0.12	U	<0.12	U	4.7			
RHMW01R		1244198	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		–		–		–		–		822	J+	1190	J+	–		–		–		–		–		–		–		–		–	
RHMW01R		FC17737	RHMW01R-WGN01LF-2408A	8/5/2024	Primary	–		<2	U	<0.014	U	<0.5	U	443		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17737	RHMW01R-WGN01B-2408A	8/5/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17737	RHMW01R-WGFD01B-2408A	8/5/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC17737	RHMW01R-WGFD01LF-2408A	8/5/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		24H0170	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		0.41	J	–		–		–		–	
RHMW01R		580-143208-1	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		84		<7	U	84	J+	44		–		<0.12	U	<0.12	U	4.8			
RHMW01R		1244710	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		876	J+	893	J+	–		–		–		–		–		–		–		–		–	
RHMW01R		FC18287	RHMW01R-WGN01LF-2408B	8/22/2024	Primary	–		<1.9	U	<0.014	U	<0.5	U	317		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18287	RHMW01R-WGN01B-2408B	8/22/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18287	RHMW01R-WGFD01B-2408B	8/22/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18287	RHMW01R-WGFD01LF-2408B	8/22/2024	Field Duplicate	–		<1.9	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		2400026	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		0.41	J	–		–		–		–	
RHMW01R		580-143492-1	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		83		<7	U	83		41		–		0.098	J	<0.12	U	4.5			
RHMW01R		1244989	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		860	J+	2290		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18543	RHMW01R-WGN01B-2409A	9/3/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18543	RHMW01R-WGN01LF-2409A	9/3/2024	Primary	–		<2	U	<0.014	U	<0.5	U	327		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18543	RHMW01R-WGFD01LF-2409A	9/3/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18543	RHMW01R-WGFD01B-2409A	9/3/2024	Field Duplicate	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		2401128	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		0.42	J	–		–		–		–	
RHMW01R		580-143931-1	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		79		<7	U	79		42		–		<0.12	U	<0.12	U	4.5			
RHMW01R		1245344	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		–		–		–		–		878	J+	976	J+	–		–		–		–		–		–		–		–		–	
RHMW01R		FC18893	RHMW01R-WGN01LF-2409B	9/16/2024	Primary	–		<2	U	<0.015	U	<0.5	U	372		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18893	RHMW01R-WGN01B-2409B	9/16/2024	Primary	–		–		–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18893	RHMW01R-WGFD01LF-2409B	9/16/2024	Field Duplicate	–		<2	U	–		<0.5	U	–		–		–		–		–		–		–		–		–		–		–		–	
RHMW01R		FC18893	RHMW01R-WGFD01B-2409B	9/16/2024	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: RHMW02

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

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

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

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		1860		4620		4260		170		ND		170		41		1.2		ND		ND		4.9	
					Maximum	ND		ND		ND		ND		2940		6750		6620		190		ND		190		43		1.7		0.18		ND		6.5	
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)	FC16545	RHMW02-WGN01B-2406B	6/17/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16545	RHMW02-WGN01LF-2406B	6/17/2024	Primary	--		<1.9	UJ	<0.015	U	<0.5	U	2510		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16545	RHMW02-WGFD01B-2406B	6/17/2024	Field Duplicate	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16545	RHMW02-WGFD01LF-2406B	6/17/2024	Field Duplicate	--		<1.9	UJ	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24G0014	RHMW02-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		1.7	J	--		--		--	
RHMW02		580-141677-1	RHMW02-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		190		<7	U	190		42		--		<0.12	U	<0.12	U	6.5	
RHMW02		1243280	RHMW02-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		6590		6620		--		--		--		--		--		--		--		--	
RHMW02		FC16926	RHMW02-WGN01B-2407A	7/1/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16926	RHMW02-WGN01LF-2407A	7/1/2024	Primary	--		<2	U	<0.014	U	<0.5	U	2580		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16926	RHMW02-WGFD01LF-2407A	7/1/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC16926	RHMW02-WGFD01B-2407A	7/1/2024	Field Duplicate	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24G0137	RHMW02-WGN01LF-2407B	7/15/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		1.6		--		--		--	
RHMW02		B24071277	RHMW02-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		580-142069-1	RHMW02-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		170		<7	U	170		42		--		<0.12	U	<0.12	U	5.4	
RHMW02		1243639	RHMW02-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		6750		5660		--		--		--		--		--		--		--		--	
RHMW02		FC17231	RHMW02-WGN01B-2407B	7/15/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17231	RHMW02-WGN01LF-2407B	7/15/2024	Primary	--		<2	U	<0.015	U	<0.5	U	2230		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24G0137	RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	<80	U	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		B24071277	RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17231	RHMW02-WGFD01LF-2407B	7/15/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17231	RHMW02-WGFD01B-2407B	7/15/2024	Field Duplicate	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24H0029	RHMW02-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		1.6		--		--		--	
RHMW02		580-142687-1	RHMW02-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		190		<7	U	190		42		--		<0.12	U	<0.12	U	4.9	
RHMW02		1244198	RHMW02-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		5580		5120		--		--		--		--		--		--		--		--		--	
RHMW02		FC17737	RHMW02-WGN01LF-2408A	8/5/2024	Primary	--		<2	U	<0.014	U	<0.5	U	2940		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17737	RHMW02-WGN01B-2408A	8/5/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17737	RHMW02-WGFD01B-2408A	8/5/2024	Field Duplicate	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC17737	RHMW02-WGFD01LF-2408A	8/5/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24H0170	RHMW02-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		1.6		--		--		--	
RHMW02		580-143206-1	RHMW02-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		180		<7	U	180	J+	43		--		<0.12	U	<0.12	U	5.4	
RHMW02		1244710	RHMW02-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		4780		5210		--		--		--		--		--		--		--		--		--	
RHMW02		FC18287	RHMW02-WGN01B-2408B	8/22/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18287	RHMW02-WGN01LF-2408B	8/22/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	2820		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18287	RHMW02-WGFD01LF-2408B	8/22/2024	Field Duplicate	--		<1.9	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18287	RHMW02-WGFD01B-2408B	8/22/2024	Field Duplicate	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		24I0015	RHMW02-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		1.2		--		--		--	
RHMW02		580-143492-1	RHMW02-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		170		<7	U	170		41		--		0.18	J	<0.12	U	5.2	
RHMW02		1244989	RHMW02-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		4620		4260		--		--		--		--		--		--		--		--	
RHMW02		FC18543	RHMW02-WGN01B-2409A	9/3/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18543	RHMW02-WGN01LF-2409A	9/3/2024	Primary	--		<2	U	<0.014	U	<0.5	U	1860		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18543	RHMW02-WGFD01LF-2409A	9/3/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW02		FC18543	RHMW02-WGFD01B-2409A	9/3/2024	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: RHMW03

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

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)	FC16624	RHMW03-WGN01LF-2406B	6/19/2024	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	UJ
RHMW03		FC16624	RHMW03-WGN01B-2406B	6/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		24G0014	RHMW03-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-141742-1	RHMW03-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1243346	RHMW03-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC16950	RHMW03-WGN01B-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC16950	RHMW03-WGN01LF-2407A	7/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW03		24G0153	RHMW03-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		B24071406	RHMW03-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-142099-1	RHMW03-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1243673	RHMW03-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC17269	RHMW03-WGN01B-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC17269	RHMW03-WGN01LF-2407B	7/16/2024	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
RHMW03		24H0029	RHMW03-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-142721-1	RHMW03-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1244294	RHMW03-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC17772	RHMW03-WGN01LF-2408A	8/6/2024	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
RHMW03		FC17772	RHMW03-WGN01B-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		24H0130	RHMW03-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-143109-1	RHMW03-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1244651	RHMW03-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC18177	RHMW03-WGN01LF-2408B	8/20/2024	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
RHMW03		FC18177	RHMW03-WGN01B-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		2409015	RHMW03-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		580-143492-1	RHMW03-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		1244989	RHMW03-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC18543	RHMW03-WGN01B-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW03		FC18543	RHMW03-WGN01LF-2409A	9/3/2024	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: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		
					Minimum	ND		ND		ND		ND		ND		1260		1250		230		ND		230		47		ND		1.8		1.6		49		
					Maximum	ND		ND		ND		ND		0.18		1610		1700		280		ND		280		48		ND		2		2.2		85		
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)	FC16624	RHMW03-WGN01LF-2406B	6/19/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		FC16624	RHMW03-WGN01B-2406B	6/19/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--		
RHMW03		24G0014	RHMW03-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--	R	--		--		--		--		
RHMW03		580-141742-1	RHMW03-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		270		<7	U	270		47		--		1.8		1.7		51		
RHMW03		1243346	RHMW03-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		1260		1250		--		--		--		--		--		--		--		--		--		
RHMW03		FC16950	RHMW03-WGN01B-2407A	7/2/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--		
RHMW03		FC16950	RHMW03-WGN01LF-2407A	7/2/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		24G0153	RHMW03-WGN01LF-2407B	7/16/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		
RHMW03		B24071406	RHMW03-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		
RHMW03		580-142099-1	RHMW03-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		230		<7	U	230		47		--		1.8		1.6		85		
RHMW03		1243673	RHMW03-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		1450		1390	J+	--		--		--		--		--		--		--		--		
RHMW03		FC17269	RHMW03-WGN01B-2407B	7/16/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		FC17269	RHMW03-WGN01LF-2407B	7/16/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		24H0029	RHMW03-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		
RHMW03		580-142721-1	RHMW03-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		280		<7	U	280		48		--		1.9		1.9	J-	51		
RHMW03		1244294	RHMW03-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		1610	J+	1670	J+	--		--		--		--		--		--		--		--		
RHMW03		FC17772	RHMW03-WGN01LF-2408A	8/6/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.18	J	--		--		--		--		--		--		--		--		--		--		
RHMW03		FC17772	RHMW03-WGN01B-2408A	8/6/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		24H0130	RHMW03-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		
RHMW03		580-143109-1	RHMW03-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		270		<7	U	270		48		--		2		1.9		49		
RHMW03		1244651	RHMW03-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		1390		1330		--		--		--		--		--		--		--		--		
RHMW03		FC18177	RHMW03-WGN01LF-2408B	8/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		
RHMW03		FC18177	RHMW03-WGN01B-2408B	8/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		2409015	RHMW03-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		
RHMW03		580-143492-1	RHMW03-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		270		<7	U	270		47		--		2		2.2		49		
RHMW03		1244989	RHMW03-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		1360	J+	1700		--		--		--		--		--		--		--		--		
RHMW03		FC18543	RHMW03-WGN01B-2409A	9/3/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		
RHMW03		FC18543	RHMW03-WGN01LF-2409A	9/3/2024	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: RHMW04

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

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			
					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		0.044		ND		0.049		ND		0.048		0.043		ND		ND		0.036		ND		ND			
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result			
RHMW04	(b) (4)	24F0252	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		580-141495-1	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		1243133	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC16768	RHMW04-WGN01B-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC16768	RHMW04-WGN01LF-2406B	6/25/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	UJ	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW04		24G0067	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		580-141892-1	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		1243475	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC17087	RHMW04-WGN01B-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC17087	RHMW04-WGN01LF-2407A	7/9/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	0.044	J	<0.04	U	0.049	J	<0.04	U	0.048	J	0.043	J	<0.04	U	<0.4	UJ	<0.4	U	0.036	J	<0.4	U	<0.4	UJ		
RHMW04		24G0206	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		B24072012	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		580-142335-1	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		1243878	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC17424	RHMW04-WGN01LF-2407B	7/23/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		FC17424	RHMW04-WGN01B-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		24H0077	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		580-142912-1	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		1244440	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC17965	RHMW04-WGN01B-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC17965	RHMW04-WGN01LF-2408A	8/13/2024	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		24H0193	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		580-143311-1	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		1244805	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC19006	RHMW04-WGN01B-2409B	9/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW04		FC19006	RHMW04-WGN01LF-2409B	9/20/2024	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: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		74		ND		74		6.1		ND		0.53		0.48		1	
					Maximum	ND		ND		ND		ND		ND		2670		999		86		ND		86		80		ND		0.56		0.58		11	
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)	24F0252	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW04		580-141495-1	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		86		<7	U	86		76		--		0.54		0.54		11	
RHMW04		1243133	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		<750	U	999	J+	--		--		--		--		--		--		--		--		--	
RHMW04		FC16768	RHMW04-WGN01B-2406B	6/25/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		FC16768	RHMW04-WGN01LF-2406B	6/25/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW04		24G0067	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW04		580-141892-1	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		85		<7	U	85		76		--		0.53		0.56		11	
RHMW04		1243475	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW04		FC17087	RHMW04-WGN01B-2407A	7/9/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		FC17087	RHMW04-WGN01LF-2407A	7/9/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW04		24G0206	RHMW04-WGN01LF-2407B	7/23/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW04		B24072012	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		580-142335-1	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		74		<7	U	74		74		--		0.54		0.57		11	
RHMW04		1243878	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		<750	U	832	J+	--		--		--		--		--		--		--		--		--	
RHMW04		FC17424	RHMW04-WGN01LF-2407B	7/23/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW04		FC17424	RHMW04-WGN01B-2407B	7/23/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		24H0077	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW04		580-142912-1	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		83		<7	U	83	J+	80		--		0.56		0.58		11	
RHMW04		1244440	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW04		FC17965	RHMW04-WGN01B-2408A	8/13/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		FC17965	RHMW04-WGN01LF-2408A	8/13/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW04		24H0193	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW04		580-143311-1	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		78		<7	U	78	J+	6.1		--		0.56		0.48		1	J
RHMW04		1244805	RHMW04-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		2670		<750	U	--		--		--		--		--		--		--		--		--	
RHMW04		FC19006	RHMW04-WGN01B-2409B	9/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW04		FC19006	RHMW04-WGN01LF-2409B	9/20/2024	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: RHMW05

						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.	PHCC8C10	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
RHMW05	(b) (4)	FC16584	RHMW05-WGN01B-2406B	6/18/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		FC16584	RHMW05-WGN01LF-2406B	6/18/2024	Primary	<50 U	<100 U	<160 U	--	--	ND	<0.5 U	<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
RHMW05		24G0029	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		580-141789-1	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1243449	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC16969	RHMW05-WGN01LF-2407A	7/3/2024	Primary	<50 U	<100 U	<170 U	--	--	ND	<0.5 U	<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
RHMW05		FC16969	RHMW05-WGN01B-2407A	7/3/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		24G0172	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		B24071480	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--	<140 U	<187 U	--	--	ND	--	--	--	--	--	--	--	--	--	--
RHMW05		580-142138-1	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1243721	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC17307	RHMW05-WGN01LF-2407B	7/17/2024	Primary	<50 U	<100 U	<160 U	--	--	ND	<0.5 U	<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
RHMW05		FC17307	RHMW05-WGN01B-2407B	7/17/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		24H0044	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		580-142762-1	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1244295	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC17828	RHMW05-WGN01B-2408A	8/7/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		FC17828	RHMW05-WGN01LF-2408A	8/7/2024	Primary	<50 U	<100 U	<160 U	--	--	ND	<0.5 U	<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
RHMW05		24H0141	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		580-143167-1	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1244686	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC18228	RHMW05-WGN01B-2408B	8/21/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		FC18228	RHMW05-WGN01LF-2408B	8/21/2024	Primary	<50 U	<100 U	<170 U	--	--	ND	<0.5 U	<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
RHMW05		2409044	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		580-143573-1	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1245065	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC18632	RHMW05-WGN01LF-2409A	9/5/2024	Primary	<50 U	<100 U	<170 U	--	--	ND	<0.5 U	<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
RHMW05		FC18632	RHMW05-WGN01B-2409A	9/5/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW05		2410159	RHMW05-WGN01LF-2409B	9/18/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		1245408	RHMW05-WGN01LF-2409B	9/18/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW05		FC18950	RHMW05-WGN01LF-2409B	9/18/2024	Primary	<50 U	<100 U	<170 U	--	--	ND	<0.5 U	<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
RHMW05		FC18950	RHMW05-WGN01B-2409B	9/18/2024	Primary	--	--	--	--	--	ND	<0.5 U	<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: 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			
					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			
RHMW05	(b) (4)	FC16584	RHMW05-WGN01B-2406B	6/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC16584	RHMW05-WGN01LF-2406B	6/18/2024	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		24G0029	RHMW05-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		580-141789-1	RHMW05-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1243449	RHMW05-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC16969	RHMW05-WGN01LF-2407A	7/3/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	U	<0.04	UJ	<0.04	U	<0.08	U	<0.04	U	<0.4	U	<0.4	UJ	<0.04	U	<0.4	UJ	<0.4	U		
RHMW05		FC16969	RHMW05-WGN01B-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		24G0172	RHMW05-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		B24071480	RHMW05-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		580-142138-1	RHMW05-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1243721	RHMW05-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC17307	RHMW05-WGN01LF-2407B	7/17/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		FC17307	RHMW05-WGN01B-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		24H0044	RHMW05-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		580-142762-1	RHMW05-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1244295	RHMW05-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC17828	RHMW05-WGN01B-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC17828	RHMW05-WGN01LF-2408A	8/7/2024	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		24H0141	RHMW05-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		580-143167-1	RHMW05-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1244686	RHMW05-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC18228	RHMW05-WGN01B-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC18228	RHMW05-WGN01LF-2408B	8/21/2024	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		
RHMW05		2409044	RHMW05-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		580-143573-1	RHMW05-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1245065	RHMW05-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC18632	RHMW05-WGN01LF-2409A	9/5/2024	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		
RHMW05		FC18632	RHMW05-WGN01B-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		2410159	RHMW05-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		1245408	RHMW05-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW05		FC18950	RHMW05-WGN01LF-2409B	9/18/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW05		FC18950	RHMW05-WGN01B-2409B	9/18/2024	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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		25		ND		25		53		ND		0.4		0.35		11	
					Maximum	ND		ND		ND		ND		0.24		1030		832		68		ND		68		57		ND		0.45		0.48		58	
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)	FC16584	RHMW05-WGN01B-2406B	6/18/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC16584	RHMW05-WGN01LF-2406B	6/18/2024	Primary	--		<2	UJ	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		24G0029	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		580-141789-1	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		63		<7	U	63		53		--		0.41		0.35	J+	11	
RHMW05		1243449	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--	
RHMW05		FC16969	RHMW05-WGN01LF-2407A	7/3/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.24	J	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC16969	RHMW05-WGN01B-2407A	7/3/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW05		24G0172	RHMW05-WGN01LF-2407B	7/17/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		B24071480	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW05		580-142138-1	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		64		<7	U	64		54		--		0.4		0.4		12	
RHMW05		1243721	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--		--		--		--		--		370	J	512	J	--		--		--		--		--		--		--		--	
RHMW05		FC17307	RHMW05-WGN01LF-2407B	7/17/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC17307	RHMW05-WGN01B-2407B	7/17/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW05		24H0044	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		580-142762-1	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		25		<7	U	25		57	J-	--		0.44	J-	0.48		58	J-
RHMW05		1244295	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--	
RHMW05		FC17828	RHMW05-WGN01B-2408A	8/7/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC17828	RHMW05-WGN01LF-2408A	8/7/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		24H0141	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		580-143167-1	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		68		<7	U	68	J+	57		--		0.45	J+	0.46		12	
RHMW05		1244686	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		1030	J+	<750	U	--		--		--		--		--		--		--		--	
RHMW05		FC18228	RHMW05-WGN01B-2408B	8/21/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC18228	RHMW05-WGN01LF-2408B	8/21/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		2409044	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		580-143573-1	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		65		<7	U	65		56		--		0.43		0.4		14	
RHMW05		1245065	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		347	J	721	J	--		--		--		--		--		--		--		--	
RHMW05		FC18632	RHMW05-WGN01LF-2409A	9/5/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC18632	RHMW05-WGN01B-2409A	9/5/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW05		2410159	RHMW05-WGN01LF-2409B	9/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW05		1245408	RHMW05-WGN01LF-2409B	9/18/2024	Primary	--		--		--		--		--		<750	U	832	J+	--		--		--		--		--		--		--		--	
RHMW05		FC18950	RHMW05-WGN01LF-2409B	9/18/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW05		FC18950	RHMW05-WGN01B-2409B	9/18/2024	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: RHMW06

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

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		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	
RHMW06	(b) (4)	FC16667	RHMW06-WGN01LF-2406B	6/20/2024	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
RHMW06		FC16667	RHMW06-WGN01B-2406B	6/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24G0014	RHMW06-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-141677-1	RHMW06-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1243280	RHMW06-WGN01LF-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC16926	RHMW06-WGN01B-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC16926	RHMW06-WGN01LF-2407A	7/1/2024	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	UJ	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW06		24G0175	RHMW06-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		B24071688	RHMW06-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-142179-1	RHMW06-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1243769	RHMW06-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC17371	RHMW06-WGN01LF-2407B	7/18/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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
RHMW06		FC17371	RHMW06-WGN01B-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24H0054	RHMW06-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-142805-1	RHMW06-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1244333	RHMW06-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC17870	RHMW06-WGN01LF-2408A	8/8/2024	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
RHMW06		FC17870	RHMW06-WGN01B-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		24H0170	RHMW06-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		580-143208-1	RHMW06-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1244710	RHMW06-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		FC18287	RHMW06-WGN01LF-2408B	8/22/2024	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
RHMW06		FC18287	RHMW06-WGN01B-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		2401175	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW06		1245450	RHMW06-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		100		ND		100		360		ND		ND		0.16		85	
					Maximum	ND		ND		ND		ND		0.24		829		764		110		ND		110		430		ND		0.57		0.59		89	
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)	FC16667	RHMW06-WGN01LF-2406B	6/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW06		FC16667	RHMW06-WGN01B-2406B	6/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		24G0014	RHMW06-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	UJ	--		--		--		--	
RHMW06		580-141677-1	RHMW06-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		360		--		0.56		0.51	J+	85		--	
RHMW06		1243280	RHMW06-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		279	J	360	J	--		--		--		--		--		--		--		--		--	
RHMW06		FC16926	RHMW06-WGN01B-2407A	7/1/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		FC16926	RHMW06-WGN01LF-2407A	7/1/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.24	J	--		--		--		--		--		--		--		--		--		--		--	
RHMW06		24G0175	RHMW06-WGN01LF-2407B	7/18/2024	Primary	<80	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW06		B24071688	RHMW06-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		580-142179-1	RHMW06-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		100		<7	U	100		400		--		0.43		0.58		86		--	
RHMW06		1243769	RHMW06-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW06		FC17371	RHMW06-WGN01LF-2407B	7/18/2024	Primary	--		<2	U	<0.015	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW06		FC17371	RHMW06-WGN01B-2407B	7/18/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		24H0054	RHMW06-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW06		580-142805-1	RHMW06-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		430		--		<0.12	U	0.16		89		--	
RHMW06		1244333	RHMW06-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW06		FC17870	RHMW06-WGN01LF-2408A	8/8/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW06		FC17870	RHMW06-WGN01B-2408A	8/8/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		24H0170	RHMW06-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW06		580-143208-1	RHMW06-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110	J+	410		--		0.57		0.89		88		--	
RHMW06		1244710	RHMW06-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		829	J+	<750	U	--		--		--		--		--		--		--		--		--	
RHMW06		FC18287	RHMW06-WGN01LF-2408B	8/22/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW06		FC18287	RHMW06-WGN01B-2408B	8/22/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW06		2401175	RHMW06-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW06		1245450	RHMW06-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		<750	U	764	J+	--		--		--		--		--		--		--		--		--	

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.	PHC6C10		PHCC10C24		PHC24C40		PHCC10C24SGC		PHC24C40SGC		---		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		71.28		296.8		ND		ND		368		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)	FC16545	RHMW08-WGN01B-2406B	6/17/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		FC16545	RHMW08-WGN01LF-2406B	6/17/2024	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
RHMW08		24G0014	RHMW08-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-141677-1	RHMW08-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1243280	RHMW08-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC16926	RHMW08-WGN01LF-2407A	7/1/2024	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		FC16926	RHMW08-WGN01B-2407A	7/1/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		24G0137	RHMW08-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		B24071277	RHMW08-WGN01LF-2407B	7/15/2024	Primary	--		71.28	J	296.8	J	<143	U	<190	U	368		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-142059-1	RHMW08-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1243639	RHMW08-WGN01LF-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC17231	RHMW08-WGN01B-2407B	7/15/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		FC17231	RHMW08-WGN01LF-2407B	7/15/2024	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
RHMW08		24H0029	RHMW08-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-142687-1	RHMW08-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1244198	RHMW08-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC17737	RHMW08-WGN01LF-2408A	8/5/2024	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	U
RHMW08		FC17737	RHMW08-WGN01B-2408A	8/5/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		24H0157	RHMW08-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-143167-1	RHMW08-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1244686	RHMW08-WGN01LF-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC18228	RHMW08-WGN01LF-2408B	8/21/2024	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	<0.42	U	<0.42	U	<0.42	U
RHMW08		FC18228	RHMW08-WGN01B-2408B	8/21/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		2480015	RHMW08-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-143492-1	RHMW08-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1244989	RHMW08-WGN01LF-2409A	9/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC18543	RHMW08-WGN01B-2409A	9/3/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW08		FC18543	RHMW08-WGN01LF-2409A	9/3/2024	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
RHMW08		2480128	RHMW08-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		580-143931-1	RHMW08-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		1245344	RHMW08-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW08		FC18893	RHMW08-WGN01LF-2409B	9/16/2024	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
RHMW08		FC18893	RHMW08-WGN01B-2409B	9/16/2024	Primary	--		--		--		--		--		ND		<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: RHMW08

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

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 | | | | | |

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.	PHC6C10		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	
RHMW09	(b) (4)	FC16584	RHMW09-WGN01B-2406B	6/18/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC16584	RHMW09-WGN01LF-2406B	6/18/2024	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
RHMW09		24G0014	RHMW09-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		580-141742-1	RHMW09-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		1243346	RHMW09-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		FC16950	RHMW09-WGN01B-2407A	7/2/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC16950	RHMW09-WGN01LF-2407A	7/2/2024	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		24G0153	RHMW09-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		B24071406	RHMW09-WGN01LF-2407B	7/16/2024	Primary	--		<141	U	<189	U	--	--	ND		--		--		--		--		--		--		--		--		--	
RHMW09		580-142099-1	RHMW09-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		1243673	RHMW09-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		FC17269	RHMW09-WGN01LF-2407B	7/16/2024	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
RHMW09		FC17269	RHMW09-WGN01B-2407B	7/16/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		24H0060	RHMW09-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		580-142844-1	RHMW09-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		1244418	RHMW09-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		FC17872	RHMW09-WGN01B-2408A	8/9/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC17872	RHMW09-WGN01LF-2408A	8/9/2024	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
RHMW09		24H0170	RHMW09-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		580-143256-1	RHMW09-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		1244802	RHMW09-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		FC18309	RHMW09-WGN01B-2408B	8/23/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC18309	RHMW09-WGN01LF-2408B	8/23/2024	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
RHMW09		24J0077	RHMW09-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		580-143678-1	RHMW09-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		1245182	RHMW09-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--	--	--		--		--		--		--		--		--		--		--		--	
RHMW09		FC18707	RHMW09-WGN01LF-2409A	9/9/2024	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
RHMW09		FC18707	RHMW09-WGN01B-2409A	9/9/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC19006	RHMW09-WGN01B-2409B	9/20/2024	Primary	--		--		--		--	--	ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW09		FC19006	RHMW09-WGN01LF-2409B	9/20/2024	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	<0.42	U	<0.42	U	<0.42	U
RHMW09		FC19006	RHMW09-WGFD01LF-2409B	9/20/2024	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
RHMW09		FC19006	RHMW09-WGFD01B-2409B	9/20/2024	Field Duplicate	--		--		--		--	--	ND		<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: 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)	FC16584	RHMW09-WGN01B-2406B	6/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC16584	RHMW09-WGN01LF-2406B	6/18/2024	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
RHMW09		24G0014	RHMW09-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-141742-1	RHMW09-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1243346	RHMW09-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC16950	RHMW09-WGN01B-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC16950	RHMW09-WGN01LF-2407A	7/2/2024	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	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW09		24G0153	RHMW09-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		B24071406	RHMW09-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-142099-1	RHMW09-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1243673	RHMW09-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC17269	RHMW09-WGN01LF-2407B	7/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW09		FC17269	RHMW09-WGN01B-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		24H0060	RHMW09-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-142844-1	RHMW09-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1244418	RHMW09-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC17872	RHMW09-WGN01B-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC17872	RHMW09-WGN01LF-2408A	8/9/2024	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
RHMW09		24H0170	RHMW09-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-143256-1	RHMW09-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1244802	RHMW09-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC18309	RHMW09-WGN01B-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC18309	RHMW09-WGN01LF-2408B	8/23/2024	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		2409077	RHMW09-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		580-143678-1	RHMW09-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		1245182	RHMW09-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC18707	RHMW09-WGN01LF-2409A	9/9/2024	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
RHMW09		FC18707	RHMW09-WGN01B-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19006	RHMW09-WGN01B-2409B	9/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW09		FC19006	RHMW09-WGN01LF-2409B	9/20/2024	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		FC19006	RHMW09-WGFD01LF-2409B	9/20/2024	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
RHMW09		FC19006	RHMW09-WGFD01B-2409B	9/20/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

Notes:
See Data Legend

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

| | | | | | | 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: 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)	1243112	RHMW10-WGN01LF-2406B	6/21/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		FC16682	RHMW10-W GN01B-2406B	6/21/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW10		FC16682	RHMW10-WGN01LF-2406B	6/21/2024	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	<0.4 U	<0.4 U	<0.4 U
RHMW10		24G0029	RHMW10-WGN01LF-2407A	7/5/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		580-141818-1	RHMW10-WGN01LF-2407A	7/5/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		1243449	RHMW10-WGN01LF-2407A	7/5/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		FC16987	RHMW10-WGN01LF-2407A	7/5/2024	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 UJ	<0.42 UJ	<0.42 UJ
RHMW10		FC16987	RHMW10-W GN01B-2407A	7/5/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW10		24G0175	RHMW10-WGN01LF-2407B	7/19/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		B24071688	RHMW10-WGN01LF-2407B	7/19/2024	Primary	–	<160 U	<187 U	–	–	ND	–	–	–	–	–	–	–	–	–
RHMW10		580-142246-1	RHMW10-WGN01LF-2407B	7/19/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		1243828	RHMW10-WGN01LF-2407B	7/19/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		FC17308	RHMW10-W GN01B-2407B	7/19/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW10		FC17308	RHMW10-WGN01LF-2407B	7/19/2024	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
RHMW10		24H0060	RHMW10-WGN01LF-2408A	8/9/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		580-142844-1	RHMW10-WGN01LF-2408A	8/9/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		1244418	RHMW10-WGN01LF-2408A	8/9/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		FC17872	RHMW10-WGN01LF-2408A	8/9/2024	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
RHMW10		FC17872	RHMW10-W GN01B-2408A	8/9/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW10		24H0170	RHMW10-WGN01LF-2408B	8/23/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		580-143256-1	RHMW10-WGN01LF-2408B	8/23/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		1244802	RHMW10-WGN01LF-2408B	8/23/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		FC18309	RHMW10-WGN01LF-2408B	8/23/2024	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
RHMW10		FC18309	RHMW10-W GN01B-2408B	8/23/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW10		24I0056	RHMW10-WGN01LF-2409A	9/6/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		580-143608-1	RHMW10-WGN01LF-2409A	9/6/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW10		1245182	RHMW10-WGN01LF-2409A	9/6/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Notes:
See Data Legend

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

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

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 | | | | | |

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)	FC16624	RHMW11-05-WGN01G-2406B	6/19/2024	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
RHMW11-05		24G0029	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-141789-1	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1243449	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC16969	RHMW11-05-WGN01G-2407A	7/3/2024	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
RHMW11-05		24G0172	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		B2407148O	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		<141	U	<189	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-142138-1	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1243721	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC17307	RHMW11-05-WGN01G-2407B	7/17/2024	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
RHMW11-05		24H0054	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-142762-1	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1244295	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC17828	RHMW11-05-WGN01G-2408A	8/7/2024	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
RHMW11-05		24H0130	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-143072-1	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1244605	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC18142	RHMW11-05-WGN01G-2408B	8/19/2024	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
RHMW11-05		2480044	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-143523-1	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1245062	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC18632	RHMW11-05-WGN01G-2409A	9/4/2024	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		1245408	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		FC18950	RHMW11-05-WGN01G-2409B	9/18/2024	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

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	
					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	
RHMW11-05	(b) (4)	FC16624	RHMW11-05-WGN01G-2406B	6/19/2024	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
RHMW11-05		24G0029	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-141789-1	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1243449	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC16969	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW11-05		24G0172	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		B24071480	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-142138-1	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1243721	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC17307	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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
RHMW11-05		24H0054	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-142762-1	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1244295	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC17828	RHMW11-05-WGN01G-2408A	8/7/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW11-05		24H0130	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-143072-1	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1244605	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC18142	RHMW11-05-WGN01G-2408B	8/19/2024	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
RHMW11-05		2410044	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		580-143523-1	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		1245062	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC18632	RHMW11-05-WGN01G-2409A	9/4/2024	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
RHMW11-05		1245408	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW11-05		FC18950	RHMW11-05-WGN01G-2409B	9/18/2024	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	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: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		0.27		ND		ND		110		ND		110		54		ND		ND		ND		11	
					Maximum	ND		ND		ND		ND		0.7		709		1470		120		ND		120		56		0.16		ND		ND		12	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW11-05	(b) (4)	FC16624	RHMW11-05-WGN01G-2406B	6/19/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.36	J	--		--		--		--		--		--		--		--		--		--	
RHMW11-05		24G0029	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW11-05		580-141789-1	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		110		<7	U	110		56		--		<0.12	U	<0.12	U	12	
RHMW11-05		1243449	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		--		--		--		--		<750	U	586	J	--		--		--		--		--		--		--		--	
RHMW11-05		FC16969	RHMW11-05-WGN01G-2407A	7/3/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.27	J	--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		24G0172	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		0.16	J	--		--		--	
RHMW11-05		B24071480	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		580-142138-1	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		55	J-	--		<0.12	U	<0.12	U	12	
RHMW11-05		1243721	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		--		--		--		--		295	J	1470		--		--		--		--		--		--		--		--	
RHMW11-05		FC17307	RHMW11-05-WGN01G-2407B	7/17/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.39	J	--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		24H0054	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW11-05		580-142762-1	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		56	J-	--		<0.12	UJ	<0.12	U	12	
RHMW11-05		1244295	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		--		--		--		--		<750	U	877	J+	--		--		--		--		--		--		--		--	
RHMW11-05		FC17828	RHMW11-05-WGN01G-2408A	8/7/2024	Primary	--		<2	U	<0.015	U	<0.5	U	0.66		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		24H0130	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW11-05		580-143072-1	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120	J+	55		--		<0.12	U	<0.12	U	11	
RHMW11-05		1244605	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		--		--		--		--		709	J	873	J	--		--		--		--		--		--		--		--	
RHMW11-05		FC18142	RHMW11-05-WGN01G-2408B	8/19/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	0.7		--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		2410044	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW11-05		580-143523-1	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		54		--		<0.12	U	<0.12	U	12	
RHMW11-05		1245062	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		314	J	842	J	--		--		--		--		--		--		--		--	
RHMW11-05		FC18632	RHMW11-05-WGN01G-2409A	9/4/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	0.41	J	--		--		--		--		--		--		--		--		--		--		--	
RHMW11-05		1245408	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--	
RHMW11-05		FC18950	RHMW11-05-WGN01G-2409B	9/18/2024	Primary	--		<2	U	<0.015	U	<0.5	U	0.61		--		--		--		--		--		--		--		--		--		--		--	

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 | | | | | |

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	
					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	
RHMW 12A	(b) (4)	24F0252	RHMW 12A-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-141495-1	RHMW 12A-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1243133	RHMW 12A-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC16768	RHMW 12A-WGN01LF-2406B	6/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	UJ	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHMW 12A		24G0117	RHMW 12A-WGN01LF-2407A	7/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-142027-1	RHMW 12A-WGN01LF-2407A	7/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1243639	RHMW 12A-WGN01LF-2407A	7/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC17167	RHMW 12A-WGN01LF-2407A	7/12/2024	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
RHMW 12A		24G0254	RHMW 12A-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		B24072301	RHMW 12A-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-142445-1	RHMW 12A-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1244063	RHMW 12A-WGN01LF-2407B	7/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC17560	RHMW 12A-WGN01LF-2407B	7/26/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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
RHMW 12A		24H0104	RHMW 12A-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-142944-1	RHMW 12A-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1244520	RHMW 12A-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC18072	RHMW 12A-WGN01LF-2408A	8/15/2024	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
RHMW 12A		2410017	RHMW 12A-WGN01LF-2408B	8/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-143431-1	RHMW 12A-WGN01LF-2408B	8/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1244990	RHMW 12A-WGN01LF-2408B	8/30/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC18544	RHMW 12A-WGN01LF-2408B	8/30/2024	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
RHMW 12A		2410119	RHMW 12A-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		580-143874-1	RHMW 12A-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		1245344	RHMW 12A-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 12A		FC18846	RHMW 12A-WGN01LF-2409A	9/13/2024	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: RHMW12A

| | | | | | | 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: 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

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)	24F0252	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		1243112	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW13-04		FC16725	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	U	<0.042	U	<0.042	U	<0.083	U	<0.042	UJ	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW13-04		24G0047	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		580-141848-1	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		1243449	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		FC17087	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	<0.4	UJ	<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	U	<0.4	U	<0.04	U	<0.4	UJ	<0.4	U		
RHMW13-04		24G0206	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		B24071879	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		580-142298-1	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		1243828	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		FC17379	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		24H0077	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		580-142878-1	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		1244418	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		FC17919	RHMW13-04-WGN01G-2408A	8/12/2024	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		24H0193	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		580-143286-1	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		1244802	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		2409095	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		580-143713-1	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		1245223	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW13-04		FC18728	RHMW13-04-WGN01G-2409A	9/10/2024	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	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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		ND		ND		79		50		ND		ND		0.083		7.2	
					Maximum	ND		ND		ND		ND		ND		894		1420		120		140		140		52		ND		0.41		0.48		7.8	
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)	24F0252	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		1243112	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	--		--		--		--		--		894	J+	393	J	--		--		--		--		--		--		--		--		--	
RHMW13-04		FC16725	RHMW13-04-WGN01G-2406B	6/24/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW13-04		24G0047	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		580-141848-1	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	--		--		--		--		--		--		--		79		<7	U	79		51	J-	--		0.36		0.35		7.5	
RHMW13-04		1243449	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW13-04		FC17087	RHMW13-04-WGN01G-2407A	7/8/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW13-04		24G0206	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		B24071879	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW13-04		580-142298-1	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		<7	U	140		140		50		--		--		0.41		0.4		7.2	
RHMW13-04		1243828	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW13-04		FC17379	RHMW13-04-WGN01G-2407B	7/22/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U,J	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW13-04		24H0077	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		580-142878-1	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	--		--		--		--		--		--		--		82		<7	U	82		51		--		0.4		0.38		7.3	
RHMW13-04		1244418	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	--		--		--		--		--		<750	U	1420	J+	--		--		--		--		--		--		--		--		--	
RHMW13-04		FC17919	RHMW13-04-WGN01G-2408A	8/12/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW13-04		24H0193	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		580-143286-1	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	--		--		--		--		--		--		--		120		<7	U	120		50		--		<0.12	U	0.083	J	7.5	
RHMW13-04		1244802	RHMW13-04-WGN01G-2408B	8/26/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW13-04		2409095	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW13-04		580-143713-1	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	--		--		--		--		--		--		--		79		<7	U	79		52		--		0.39		0.48		7.8	
RHMW13-04		1245223	RHMW13-04-WGN01G-2409A	9/10/2024	Primary	--		--		--		--		--		411	J	517	J	--		--		--		--		--		--		--		--		--	
RHMW13-04		FC18728	RHMW13-04-WGN01G-2409A	9/10/2024	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 | | | | | |

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	
					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	
RHMW 14-03	(b) (4)	FC16624	RHMW 14-03-WGN01G-2406B	6/19/2024	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
RHMW 14-03		24G0029	RHMW 14-03-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		580-141789-1	RHMW 14-03-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1243449	RHMW 14-03-WGN01G-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC16969	RHMW 14-03-WGN01G-2407A	7/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW 14-03		24G0172	RHMW 14-03-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		B24071480	RHMW 14-03-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		580-142138-1	RHMW 14-03-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1243721	RHMW 14-03-WGN01G-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC17307	RHMW 14-03-WGN01G-2407B	7/17/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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
RHMW 14-03		24H0044	RHMW 14-03-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		580-142762-1	RHMW 14-03-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1244295	RHMW 14-03-WGN01G-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC17828	RHMW 14-03-WGN01G-2408A	8/7/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW 14-03		24H0114	RHMW 14-03-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		580-143072-1	RHMW 14-03-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1244605	RHMW 14-03-WGN01G-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC18142	RHMW 14-03-WGN01G-2408B	8/19/2024	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
RHMW 14-03		2400026	RHMW 14-03-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		580-143523-1	RHMW 14-03-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1245062	RHMW 14-03-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC18599	RHMW 14-03-WGN01G-2409A	9/4/2024	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
RHMW 14-03		2400159	RHMW 14-03-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		1245408	RHMW 14-03-WGN01G-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW 14-03		FC18950	RHMW 14-03-WGN01G-2409B	9/18/2024	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	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: RHMW14-03

| | | | | | | 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: 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)	FC16545	RHMW15-05-WGN01G-2406B	6/17/2024	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
RHMW15-05		24G0014	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-141677-1	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1243280	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC16926	RHMW15-05-WGN01G-2407A	7/1/2024	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
RHMW15-05		24G0137	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		B2407406	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		<143	U	<150	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-142069-1	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1243673	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC17231	RHMW15-05-WGN01G-2407B	7/15/2024	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	UJ
RHMW15-05		24H0029	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-142687-1	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1244198	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC17737	RHMW15-05-WGN01G-2408A	8/5/2024	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	U
RHMW15-05		24H0157	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-143167-1	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1244686	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18228	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	<50	U	<100	U	<170	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	U	<0.42	U	<0.42	U	<0.42	U
RHMW15-05		2480056	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-143573-1	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1245065	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18632	RHMW15-05-WGN01G-2409A	9/5/2024	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	U
RHMW15-05		2480128	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-143931-1	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		1245344	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18893	RHMW15-05-WGN01G-2409B	9/16/2024	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

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	
					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	
RHMW15-05	(b) (4)	FC16545	RHMW15-05-WGN01G-2406B	6/17/2024	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
RHMW15-05		24G0014	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-141677-1	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1243280	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC16926	RHMW15-05-WGN01G-2407A	7/1/2024	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	UJ	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	UJ	<0.42	U
RHMW15-05		24G0137	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		B24071406	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-142059-1	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1243673	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC17231	RHMW15-05-WGN01G-2407B	7/15/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U
RHMW15-05		24H0029	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-142687-1	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1244198	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC17737	RHMW15-05-WGN01G-2408A	8/5/2024	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
RHMW15-05		24H0157	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-143167-1	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1244686	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC18228	RHMW15-05-WGN01G-2408B	8/21/2024	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
RHMW15-05		2400056	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-143573-1	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1245065	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC18632	RHMW15-05-WGN01G-2409A	9/5/2024	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
RHMW15-05		2400128	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		580-143931-1	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		1245344	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW15-05		FC18893	RHMW15-05-WGN01G-2409B	9/16/2024	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	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: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		475		13		ND		13		51		ND		0.37		0.32		8.9	
					Maximum	ND		ND		ND		ND		0.21		848		1180		68		ND		68		56		ND		0.4		0.43		51	
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)	FC16545	RHMW15-05-WGN01G-2406B	6/17/2024	Primary	--		<2	UJ	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		24G0014	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	UJ	--		--		--		--	
RHMW15-05		580-141677-1	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		65		<7	U	65		55		--		0.38		0.41	J+	9.3			
RHMW15-05		1243280	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		--		--		--		--		323	J	475	J	--		--		--		--		--		--		--		--		--	
RHMW15-05		FC16926	RHMW15-05-WGN01G-2407A	7/1/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		24G0137	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW15-05		B24071406	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		580-142059-1	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		--		--		64		<7	U	64		55		--		0.4		0.36		9.3			
RHMW15-05		1243673	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		--		--		--		--		<750	U	876	J+	--		--		--		--		--		--		--		--		--	
RHMW15-05		FC17231	RHMW15-05-WGN01G-2407B	7/15/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		24H0029	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW15-05		580-142687-1	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		67		<7	U	67		55		--		0.39		0.38		9.1			
RHMW15-05		1244198	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		--		--		--		--		<750	U	1050	J+	--		--		--		--		--		--		--		--		--	
RHMW15-05		FC17737	RHMW15-05-WGN01G-2408A	8/5/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		24H0157	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW15-05		580-143167-1	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		--		--		68		<7	U	68	J+	56		--		0.4	J+	0.42		9.1			
RHMW15-05		1244686	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		--		--		--		--		848	J+	916	J+	--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18228	RHMW15-05-WGN01G-2408B	8/21/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		2400056	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW15-05		580-143573-1	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		67		<7	U	67		51		--		0.37		0.32		8.9			
RHMW15-05		1245065	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		--		--		--		--		325	J	1180		--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18632	RHMW15-05-WGN01G-2409A	9/5/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW15-05		2400128	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHMW15-05		580-143931-1	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		13		<7	U	13		55	J-	--		0.39		0.43		51			
RHMW15-05		1245344	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		--		--		--		--		<750	U	999	J+	--		--		--		--		--		--		--		--		--	
RHMW15-05		FC18893	RHMW15-05-WGN01G-2409B	9/16/2024	Primary	--		<2	U	<0.015	U	<0.5	U	0.21	J	--		--		--		--		--		--		--		--		--		--		--	

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 | | | | | |

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)	FC16667	RHMW 16-WGN01LF-2406B	6/20/2024	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	UJ
RHMW16		24G0014	RHMW 16-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-141742-1	RHMW 16-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1243346	RHMW 16-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		FC16950	RHMW 16-WGN01LF-2407A	7/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW16		24G0175	RHMW 16-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		B24071688	RHMW 16-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-142179-1	RHMW 16-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1243769	RHMW 16-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		FC17371	RHMW 16-WGN01LF-2407B	7/18/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		24H0054	RHMW 16-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-142805-1	RHMW 16-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1244333	RHMW 16-WGN01LF-2408A	8/8/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		FC17870	RHMW 16-WGN01LF-2408A	8/8/2024	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
RHMW16		24H0130	RHMW 16-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-143109-1	RHMW 16-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1244651	RHMW 16-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		FC18177	RHMW 16-WGN01LF-2408B	8/20/2024	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
RHMW16		2410015	RHMW 16-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		580-143492-1	RHMW 16-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1244989	RHMW 16-WGN01LF-2409A	9/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		FC18543	RHMW 16-WGN01LF-2409A	9/3/2024	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
RHMW16		2410175	RHMW 16-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW16		1245450	RHMW 16-WGN01LF-2409B	9/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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 | | | | | |

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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Maximum	ND	144	284.4	118	ND	392	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)	24F0252	RHMW17-WGN01LF-2406B	6/24/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		1243112	RHMW17-WGN01LF-2406B	6/24/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		FC16725	RHMW17-WGN01B-2406B	6/24/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		FC16725	RHMW17-WGN01LF-2406B	6/24/2024	Primary	<50 U	122 J	<160 U	94.5 J	<160 U	122	<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		FC16725	RHMW17-WGFD01B-2406B	6/24/2024	Field Duplicate	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		FC16725	RHMW17-WGFD01LF-2406B	6/24/2024	Field Duplicate	<50 U	144 J	<160 U	118 J	<160 U	144	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	<0.45 U	<0.45 U	<0.45 U
RHMW17		24G0047	RHMW17-WGN01LF-2407A	7/8/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		580-141848-1	RHMW17-WGN01LF-2407A	7/8/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		1243449	RHMW17-WGN01LF-2407A	7/8/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		FC17087	RHMW17-WGN01B-2407A	7/8/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		FC17087	RHMW17-WGN01LF-2407A	7/8/2024	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	<0.4 U	<0.4 U	<0.4 U
RHMW17		FC17087	RHMW17-WGFD01B-2407A	7/8/2024	Field Duplicate	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		FC17087	RHMW17-WGFD01LF-2407A	7/8/2024	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	<0.4 U	<0.4 U	<0.4 U
RHMW17		24G0184	RHMW17-WGN01LF-2407B	7/22/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		B24071879	RHMW17-WGN01LF-2407B	7/22/2024	Primary	–	<140 U	<187 U	–	–	ND	–	–	–	–	–	–	–	–	–
RHMW17		580-142298-1	RHMW17-WGN01LF-2407B	7/22/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		1243828	RHMW17-WGN01LF-2407B	7/22/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		FC17379	RHMW17-WGN01B-2407B	7/22/2024	Primary	–	–	–	–	–	ND	<0.5 UJ	<0.5 UJ	<0.5 UJ	<1.5 UJ	<0.5 UJ	<0.5 UJ	–	–	–
RHMW17		FC17379	RHMW17-WGN01LF-2407B	7/22/2024	Primary	<50 U	<100 U	<160 U	–	–	ND	<0.5 UJ	<0.5 UJ	<0.5 UJ	<1.5 UJ	<0.5 UJ	<0.5 UJ	<0.42 U	<0.42 U	<0.42 U
RHMW17		24G0184	RHMW17-WGFD01LF-2407B	7/22/2024	Field Duplicate	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		B24071879	RHMW17-WGFD01LF-2407B	7/22/2024	Field Duplicate	–	107.6 J	284.4 J	<140 U	<187 U	392	–	–	–	–	–	–	–	–	–
RHMW17		FC17379	RHMW17-WGFD01B-2407B	7/22/2024	Field Duplicate	–	–	–	–	–	ND	<0.5 UJ	<0.5 UJ	<0.5 UJ	<1.5 UJ	<0.5 UJ	<0.5 UJ	–	–	–
RHMW17		FC17379	RHMW17-WGFD01LF-2407B	7/22/2024	Field Duplicate	<50 U	<100 U	<160 U	–	–	ND	<0.5 UJ	<0.5 UJ	<0.5 UJ	<1.5 UJ	<0.5 UJ	<0.5 UJ	<0.4 U	<0.4 U	<0.4 U
RHMW17		24H0077	RHMW17-WGN01LF-2408A	8/12/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		580-142878-1	RHMW17-WGN01LF-2408A	8/12/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		1244418	RHMW17-WGN01LF-2408A	8/12/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		FC17919	RHMW17-WGN01B-2408A	8/12/2024	Primary	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		FC17919	RHMW17-WGN01LF-2408A	8/12/2024	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
RHMW17		FC17919	RHMW17-WGFD01LF-2408A	8/12/2024	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	<0.42 U	<0.42 U	<0.42 U
RHMW17		FC17919	RHMW17-WGFD01B-2408A	8/12/2024	Field Duplicate	–	–	–	–	–	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	–	–	–
RHMW17		24H0193	RHMW17-WGN01LF-2408B	8/26/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		580-143286-1	RHMW17-WGN01LF-2408B	8/26/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
RHMW17		1244802	RHMW17-WGN01LF-2408B	8/26/2024	Primary	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

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 | | | | | |

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 | | | | | |

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		ND		ND	
					Maximum	ND		66.8		255		ND		ND		322		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)	24F0281	RHMW18-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-141582-1	RHMW18-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1243190	RHMW18-WGN01LF-2406B	6/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC16872	RHMW18-WGN01B-2406B	6/27/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHMW18		FC16872	RHMW18-WGN01LF-2406B	6/27/2024	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	<0.38	U	<0.38	U	<0.38	U
RHMW18		24G0105	RHMW18-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-141889-1	RHMW18-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1243571	RHMW18-WGN01LF-2407A	7/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC17165	RHMW18-WGN01B-2407A	7/11/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHMW18		FC17165	RHMW18-WGN01LF-2407A	7/11/2024	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
RHMW18		24G0254	RHMW18-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		B24072275	RHMW18-WGN01LF-2407B	7/25/2024	Primary	--		66.8	J	255	J	<140	U	<187	U	322		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-142404-1	RHMW18-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1243950	RHMW18-WGN01LF-2407B	7/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC17546	RHMW18-WGN01B-2407B	7/25/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHMW18		FC17546	RHMW18-WGN01LF-2407B	7/25/2024	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	<0.42	U	<0.42	U	<0.42	U
RHMW18		24H0109	RHMW18-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-142944-1	RHMW18-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1244520	RHMW18-WGN01LF-2408A	8/15/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC18072	RHMW18-WGN01LF-2408A	8/15/2024	Primary	<50	U	<98	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	U
RHMW18		FC18072	RHMW18-WGN01B-2408A	8/15/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHMW18		24H0241	RHMW18-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-143402-1	RHMW18-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1244876	RHMW18-WGN01LF-2408B	8/29/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC18496	RHMW18-WGN01B-2408B	8/29/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHMW18		FC18496	RHMW18-WGN01LF-2408B	8/29/2024	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		24I0119	RHMW18-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		580-143874-1	RHMW18-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		1245344	RHMW18-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW18		FC18846	RHMW18-WGN01B-2409A	9/13/2024	Primary	--		--		--		--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	--		--		--		--	
RHMW18		FC18846	RHMW18-WGN01LF-2409A	9/13/2024	Primary	<50	U	<100	U	<170	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: 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		0.098		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			
RHMW18	(b) (4)	24F0281	RHMW18-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-141582-1	RHMW18-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1243190	RHMW18-WGN01LF-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC16872	RHMW18-WGN01B-2406B	6/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC16872	RHMW18-WGN01LF-2406B	6/27/2024	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	UJ	<0.38	U	<0.38	U	<0.038	UJ	<0.38	UJ	<0.38	U		
RHMW18		24G0105	RHMW18-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-141889-1	RHMW18-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1243571	RHMW18-WGN01LF-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC17165	RHMW18-WGN01B-2407A	7/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC17165	RHMW18-WGN01LF-2407A	7/11/2024	Primary	<0.42	U	<0.42	U	<0.42	UJ	<0.042	U	<0.042	U	<0.042	U	<0.043	U	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.42	U	<0.042	U	<0.42	U	<0.42	UJ		
RHMW18		24G0254	RHMW18-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		B24072275	RHMW18-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-142404-1	RHMW18-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1243950	RHMW18-WGN01LF-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC17546	RHMW18-WGN01B-2407B	7/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC17546	RHMW18-WGN01LF-2407B	7/25/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		24H0109	RHMW18-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-142944-1	RHMW18-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1244520	RHMW18-WGN01LF-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC18072	RHMW18-WGN01LF-2408A	8/15/2024	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		
RHMW18		FC18072	RHMW18-WGN01B-2408A	8/15/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		24H0241	RHMW18-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-143402-1	RHMW18-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1244876	RHMW18-WGN01LF-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC18496	RHMW18-WGN01B-2408B	8/29/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC18496	RHMW18-WGN01LF-2408B	8/29/2024	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		24I0119	RHMW18-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		580-143874-1	RHMW18-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		1245344	RHMW18-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC18846	RHMW18-WGN01B-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW18		FC18846	RHMW18-WGN01LF-2409A	9/13/2024	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: RHMW18

| | | | | | | 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: 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)	FC16584	RHMW19-WGN01B-2406B	6/18/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW19		FC16584	RHMW19-WGN01LF-2406B	6/18/2024	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
RHMW19		24G0014	RHMW19-WGN01LF-2407A	7/2/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		580-141742-1	RHMW19-WGN01LF-2407A	7/2/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		1243346	RHMW19-WGN01LF-2407A	7/2/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		FC16950	RHMW19-WGN01LF-2407A	7/2/2024	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		FC16950	RHMW19-WGN01B-2407A	7/2/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW19		24G0153	RHMW19-WGN01LF-2407B	7/16/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		B24071406	RHMW19-WGN01LF-2407B	7/16/2024	Primary	--	<140 U	<187 U	--	--	ND	--	--	--	--	--	--	--	--	--
RHMW19		580-142099-1	RHMW19-WGN01LF-2407B	7/16/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		1243673	RHMW19-WGN01LF-2407B	7/16/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		FC17269	RHMW19-WGN01B-2407B	7/16/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW19		FC17269	RHMW19-WGN01LF-2407B	7/16/2024	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		24H0060	RHMW19-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		580-142844-1	RHMW19-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		1244418	RHMW19-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		FC17872	RHMW19-WGN01B-2408A	8/9/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW19		FC17872	RHMW19-WGN01LF-2408A	8/9/2024	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 U
RHMW19		24H0170	RHMW19-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		580-143256-1	RHMW19-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		1244802	RHMW19-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		FC18309	RHMW19-WGN01LF-2408B	8/23/2024	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
RHMW19		FC18309	RHMW19-WGN01B-2408B	8/23/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHMW19		24I0056	RHMW19-WGN01LF-2409A	9/6/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		580-143608-1	RHMW19-WGN01LF-2409A	9/6/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHMW19		1245182	RHMW19-WGN01LF-2409A	9/6/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

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	
					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	
RHMW19	(b) (4)	FC16584	RHMW19-WGN01B-2406B	6/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC16584	RHMW19-WGN01LF-2406B	6/18/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	UJ	<0.08	U	<0.04	U	<0.4	U	<0.4	U	<0.04	UJ	<0.4	U	<0.4	U
RHMW19		24G0014	RHMW19-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-141742-1	RHMW19-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1243346	RHMW19-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC16950	RHMW19-WGN01LF-2407A	7/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U
RHMW19		FC16950	RHMW19-WGN01B-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		24G0153	RHMW19-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		B24071406	RHMW19-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-142099-1	RHMW19-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1243673	RHMW19-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC17269	RHMW19-WGN01B-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC17269	RHMW19-WGN01LF-2407B	7/16/2024	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		24H0060	RHMW19-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-142844-1	RHMW19-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1244418	RHMW19-WGN01LF-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC17872	RHMW19-WGN01B-2408A	8/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC17872	RHMW19-WGN01LF-2408A	8/9/2024	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
RHMW19		24H0170	RHMW19-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-143256-1	RHMW19-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1244802	RHMW19-WGN01LF-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		FC18309	RHMW19-WGN01LF-2408B	8/23/2024	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		FC18309	RHMW19-WGN01B-2408B	8/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		2408056	RHMW19-WGN01LF-2409A	9/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		580-143608-1	RHMW19-WGN01LF-2409A	9/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW19		1245182	RHMW19-WGN01LF-2409A	9/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	

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 | | | | | |

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	
					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	
RHMW20	(b) (4)	24F0261	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-141527-1	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		1243149	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC16817	RHMW20-WGN01B-2406B	6/26/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW20		FC16817	RHMW20-WGN01LF-2406B	6/26/2024	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
RHMW20		24G0047	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-141892-1	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		1243475	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17087	RHMW20-WGN01LF-2407A	7/9/2024	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	<0.4	U	<0.4	U	<0.4	U
RHMW20		FC17087	RHMW20-WGN01B-2407A	7/9/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW20		24G0206	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		B24072012	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--	
RHMW20		580-142335-1	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		1243878	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17424	RHMW20-WGN01B-2407B	7/23/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW20		FC17424	RHMW20-WGN01LF-2407B	7/23/2024	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	<0.38	U	<0.38	U	<0.38	U
RHMW20		24H0077	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-142912-1	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		1244440	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17965	RHMW20-WGN01LF-2408A	8/13/2024	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
RHMW20		FC17965	RHMW20-WGN01B-2408A	8/13/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW20		24H0241	RHMW20-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-143346-1	RHMW20-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		1244837	RHMW20-WGN01LF-2408B	8/28/2024	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)	24F0261	RHMW20-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-141527-1	RHMW20-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1243149	RHMW20-WGN01LF-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC16817	RHMW20-WGN01B-2406B	6/26/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC16817	RHMW20-WGN01LF-2406B	6/26/2024	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	UJ	<0.42	U	<0.42	U	<0.042	UJ	<0.42	UJ	<0.42	U
RHMW20		24G0047	RHMW20-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-141892-1	RHMW20-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1243475	RHMW20-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC17087	RHMW20-WGN01LF-2407A	7/9/2024	Primary	<0.4	UJ	<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	U	<0.4	U	<0.04	U	<0.4	UJ	<0.4	U
RHMW20		FC17087	RHMW20-WGN01B-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24G0206	RHMW20-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		B24072012	RHMW20-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-142335-1	RHMW20-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1243878	RHMW20-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC17424	RHMW20-WGN01B-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC17424	RHMW20-WGN01LF-2407B	7/23/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	UJ	<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
RHMW20		24H0077	RHMW20-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-142912-1	RHMW20-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1244440	RHMW20-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		FC17965	RHMW20-WGN01LF-2408A	8/13/2024	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		FC17965	RHMW20-WGN01B-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		24H0241	RHMW20-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		580-143346-1	RHMW20-WGN01LF-2408B	8/28/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHMW20		1244837	RHMW20-WGN01LF-2408B	8/28/2024	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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		84		ND		84		500		ND		0.41		0.44		59	
					Maximum	ND		ND		ND		ND		0.16		ND		ND		100		ND		100		510		ND		0.47		0.48		61	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHMW20	[redacted]	24F0261	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW20		580-141527-1	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		--		--		97		<7	U	97		500		--		0.46		0.48		61	
RHMW20		1243149	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW20		FC16817	RHMW20-WGN01B-2406B	6/26/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC16817	RHMW20-WGN01LF-2406B	6/26/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW20		24G0047	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW20		580-141892-1	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		84		<7	U	84		500		--		0.47		0.48		61	
RHMW20		1243475	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW20		FC17087	RHMW20-WGN01LF-2407A	7/9/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17087	RHMW20-WGN01B-2407A	7/9/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		24G0206	RHMW20-WGN01LF-2407B	7/23/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW20		B24072012	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-142335-1	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		94		<7	U	94		500		--		0.45	J+	0.45	J+	61	
RHMW20		1243878	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW20		FC17424	RHMW20-WGN01B-2407B	7/23/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17424	RHMW20-WGN01LF-2407B	7/23/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	0.16	J	--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW20		24H0077	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		580-142912-1	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		100	J+	<7	U	100	J+	510		--		0.44		0.45		61	
RHMW20		1244440	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHMW20		FC17965	RHMW20-WGN01LF-2408A	8/13/2024	Primary	--		<1.9	U	<0.015	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHMW20		FC17965	RHMW20-WGN01B-2408A	8/13/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHMW20		24H0241	RHMW20-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHMW20		580-143346-1	RHMW20-WGN01LF-2408B	8/28/2024	Primary	--		--		--		--		--		--		--		95		<7	U	95		500		--		0.41		0.44	J+	59	
RHMW20		1244837	RHMW20-WGN01LF-2408B	8/28/2024	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: RHMW21

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

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			
					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			
RHMW21	(b) (4)	24G0184	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		B24071879	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		580-142298-1	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		1243828	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC17379	RHMW21-WGN01B-2407B	7/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC17379	RHMW21-WGN01LF-2407B	7/22/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		
RHMW21		24H0029	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		580-142687-1	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		1244198	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC17737	RHMW21-WGN01LF-2408A	8/5/2024	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		
RHMW21		FC17737	RHMW21-WGN01B-2408A	8/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		24H0157	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		580-143208-1	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		1244710	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC18287	RHMW21-WGN01LF-2408B	8/22/2024	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		
RHMW21		FC18287	RHMW21-WGN01B-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		2480044	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		580-143523-1	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		1245062	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC18599	RHMW21-WGN01LF-2409A	9/4/2024	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		
RHMW21		FC18599	RHMW21-WGN01B-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		2480128	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		580-143931-1	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		1245344	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC18893	RHMW21-WGN01B-2409B	9/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHMW21		FC18893	RHMW21-WGN01LF-2409B	9/16/2024	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	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: 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	25000		590		ND		2500		43000	
					Maximum	25000		590		ND		2500		43000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result	
RHMW21	(b) (4)	24G0184	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--	
RHMW21		B24071879	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--	
RHMW21		580-142298-1	RHMW21-WGN01LF-2407B	7/22/2024	Primary	**25000**		**590**		<6.8	U	**2500**	J	**43000**	
RHMW21		1243828	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--	
RHMW21		FC17379	RHMW21-WGN01B-2407B	7/22/2024	Primary	--		--		--		--		--	
RHMW21		FC17379	RHMW21-WGN01LF-2407B	7/22/2024	Primary	--		--		--		--		--	
RHMW21		24H0029	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--	
RHMW21		580-142687-1	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--	
RHMW21		1244198	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--	
RHMW21		FC17737	RHMW21-WGN01LF-2408A	8/5/2024	Primary	--		--		--		--		--	
RHMW21		FC17737	RHMW21-WGN01B-2408A	8/5/2024	Primary	--		--		--		--		--	
RHMW21		24H0157	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--	
RHMW21		580-143208-1	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--	
RHMW21		1244710	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--	
RHMW21		FC18287	RHMW21-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--	
RHMW21		FC18287	RHMW21-WGN01B-2408B	8/22/2024	Primary	--		--		--		--		--	
RHMW21		2480044	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--	
RHMW21		580-143523-1	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--	
RHMW21		1245062	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--	
RHMW21		FC18599	RHMW21-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--	
RHMW21		FC18599	RHMW21-WGN01B-2409A	9/4/2024	Primary	--		--		--		--		--	
RHMW21		24I0128	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--	
RHMW21		580-143931-1	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--	
RHMW21		1245344	RHMW21-WGN01LF-2409B	9/16/2024	Primary	--		--		--		--		--	
RHMW21		FC18893	RHMW21-WGN01B-2409B	9/16/2024	Primary	--		--		--		--		--	
RHMW21		FC18893	RHMW21-WGN01LF-2409B	9/16/2024	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)	FC16624	RHMW2254-01-WGN01B-2406B	6/19/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		FC16624	RHMW2254-01-WGN01LF-2406B	6/19/2024	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	U
RHMW2254-01		24G0014	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-141742-1	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1243346	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC16950	RHMW2254-01-WGN01LF-2407A	7/2/2024	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		FC16950	RHMW2254-01-WGN01B-2407A	7/2/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		24G0153	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		B24071406	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-142099-1	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1243673	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC17269	RHMW2254-01-WGN01LF-2407B	7/16/2024	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		FC17269	RHMW2254-01-WGN01B-2407B	7/16/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		24H0044	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-142721-1	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1244294	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC17772	RHMW2254-01-WGN01B-2408A	8/6/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		FC17772	RHMW2254-01-WGN01LF-2408A	8/6/2024	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
RHMW2254-01		24H0141	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-143109-1	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1244651	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC18177	RHMW2254-01-WGN01B-2408B	8/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		FC18177	RHMW2254-01-WGN01LF-2408B	8/20/2024	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	<0.42	U	<0.42	U	<0.42	U
RHMW2254-01		2409026	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-143523-1	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1245062	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC18599	RHMW2254-01-WGN01B-2409A	9/4/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		FC18599	RHMW2254-01-WGN01LF-2409A	9/4/2024	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		2410143	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		580-143974-1	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		1245370	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHMW2254-01		FC18945	RHMW2254-01-WGN01B-2409B	9/17/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHMW2254-01		FC18945	RHMW2254-01-WGN01LF-2409B	9/17/2024	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

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			
					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			
RHMW2254-01	(b) (4)	FC16624	RHMW2254-01-WGN01B-2406B	6/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC16624	RHMW2254-01-WGN01LF-2406B	6/19/2024	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		
RHMW2254-01		24G0014	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-141742-1	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1243346	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC16950	RHMW2254-01-WGN01LF-2407A	7/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHMW2254-01		FC16950	RHMW2254-01-WGN01B-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		24G0153	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		B24071406	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-142099-1	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1243673	RHMW2254-01-WGN01LF-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC17269	RHMW2254-01-WGN01LF-2407B	7/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHMW2254-01		FC17269	RHMW2254-01-WGN01B-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		24H0044	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-142721-1	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1244294	RHMW2254-01-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC17772	RHMW2254-01-WGN01B-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC17772	RHMW2254-01-WGN01LF-2408A	8/6/2024	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		
RHMW2254-01		24H0141	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-143109-1	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1244651	RHMW2254-01-WGN01LF-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18177	RHMW2254-01-WGN01B-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18177	RHMW2254-01-WGN01LF-2408B	8/20/2024	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		
RHMW2254-01		2409026	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-143523-1	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1245062	RHMW2254-01-WGN01LF-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18599	RHMW2254-01-WGN01B-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18599	RHMW2254-01-WGN01LF-2409A	9/4/2024	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		
RHMW2254-01		2410143	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		580-143974-1	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		1245370	RHMW2254-01-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18945	RHMW2254-01-WGN01B-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHMW2254-01		FC18945	RHMW2254-01-WGN01LF-2409B	9/17/2024	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	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: RHMW2254-01

| | | | | | | 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: RHSF-PUMP

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

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					
					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			
RHSF-PUMP	(b) (4)	FC16624	RHSF-PUMP-WGN01G-2406B	6/19/2024	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		FC16624	RHSF-PUMP-WGFD01G-2406B	6/19/2024	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	UJ		
RHSF-PUMP		24G0014	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-141742-1	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1243346	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC16950	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHSF-PUMP		FC16950	RHSF-PUMP-WGFD01G-2407A	7/2/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHSF-PUMP		24G0153	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		B24071406	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-142099-1	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1243673	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC17269	RHSF-PUMP-WGN01G-2407B	7/16/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHSF-PUMP		24G0153	RHSF-PUMP-WGFD01G-2407B	7/16/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		B24071406	RHSF-PUMP-WGFD01G-2407B	7/16/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC17269	RHSF-PUMP-WGFD01G-2407B	7/16/2024	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		
RHSF-PUMP		24H0044	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-142721-1	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1244294	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC17772	RHSF-PUMP-WGN01G-2408A	8/6/2024	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		
RHSF-PUMP		FC17772	RHSF-PUMP-WGFD01G-2408A	8/6/2024	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		
RHSF-PUMP		24H0141	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-143109-1	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1244651	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC18177	RHSF-PUMP-WGN01G-2408B	8/20/2024	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		
RHSF-PUMP		FC18177	RHSF-PUMP-WGFD01G-2408B	8/20/2024	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		
RHSF-PUMP		2400026	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-143523-1	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1245062	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC18599	RHSF-PUMP-WGN01G-2409A	9/4/2024	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		
RHSF-PUMP		FC18599	RHSF-PUMP-WGFD01G-2409A	9/4/2024	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		
RHSF-PUMP		2410143	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		580-143974-1	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		1245370	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHSF-PUMP		FC18945	RHSF-PUMP-WGN01G-2409B	9/17/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHSF-PUMP		FC18945	RHSF-PUMP-WGFD01G-2409B	9/17/2024	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		

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		14438-31-0		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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		64		ND		64		110		ND		0.59		0.54		17	
					Maximum	ND		ND		ND		ND		ND		362		878		71		ND		71		110		ND		0.62		0.64		19	
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)	FC16624	RHSF-PUMP-WGN01G-2406B	6/19/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC16624	RHSF-PUMP-WGD01G-2406B	6/19/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		24G0014	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		R		--		--		--	
RHSF-PUMP		580-141742-1	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		65		<7	U	65		110		--		0.6		0.54		19	
RHSF-PUMP		1243346	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	--		--		--		--		--		<750	U	486	J	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC16950	RHSF-PUMP-WGN01G-2407A	7/2/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC16950	RHSF-PUMP-WGD01G-2407A	7/2/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		24G0153	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	<80	U	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHSF-PUMP		B24071406	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		580-142099-1	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	--		--		--		--		--		--		--		64		<7	U	64		110		--		0.59		0.6		18	
RHSF-PUMP		1243673	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	--		--		--		--		--		<750	U	878	J+	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC17269	RHSF-PUMP-WGN01G-2407B	7/16/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		24G0153	RHSF-PUMP-WGD01G-2407B	7/16/2024	Field Duplicate	<80	U	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		B24071406	RHSF-PUMP-WGD01G-2407B	7/16/2024	Field Duplicate	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC17269	RHSF-PUMP-WGD01G-2407B	7/16/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		24H0044	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHSF-PUMP		580-142721-1	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		68		<7	U	68		110		--		0.61		0.59		18	
RHSF-PUMP		1244294	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC17772	RHSF-PUMP-WGN01G-2408A	8/6/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC17772	RHSF-PUMP-WGD01G-2408A	8/6/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		24H0141	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHSF-PUMP		580-143109-1	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		71		<7	U	71		110		--		0.62		0.64		17	
RHSF-PUMP		1244651	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	--		--		--		--		--		362	J	475	J	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18177	RHSF-PUMP-WGN01G-2408B	8/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18177	RHSF-PUMP-WGD01G-2408B	8/20/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		2400026	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHSF-PUMP		580-143523-1	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		--		--		66		<7	U	66		110		--		0.6		0.61		18	
RHSF-PUMP		1245062	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	--		--		--		--		--		343	J	712	J	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18599	RHSF-PUMP-WGN01G-2409A	9/4/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18599	RHSF-PUMP-WGD01G-2409A	9/4/2024	Field Duplicate	--		<2	U	--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		2410143	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--		--	
RHSF-PUMP		580-143974-1	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		66		<7	U	66		110		--		0.59		0.57		17	
RHSF-PUMP		1245370	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18945	RHSF-PUMP-WGN01G-2409B	9/17/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHSF-PUMP		FC18945	RHSF-PUMP-WGD01G-2409B	9/17/2024	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: 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		68.85		201.2		ND		ND		270		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)	FC16667	RHP01-WGN01B-2406B	6/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		FC16667	RHP01-WGN01LF-2406B	6/20/2024	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
RHP01		24G0014	RHP01-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		580-141677-1	RHP01-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1243280	RHP01-WGN01LF-2407A	7/1/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		FC16926	RHP01-WGN01LF-2407A	7/1/2024	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
RHP01		FC16926	RHP01-WGN01B-2407A	7/1/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		24G0175	RHP01-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		B24071688	RHP01-WGN01LF-2407B	7/18/2024	Primary	--		68.85	J	201.2	J	<140	U	<187	U	270		--		--		--		--		--		--		--		--		--		--		--	
RHP01		580-142179-1	RHP01-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1243769	RHP01-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		FC17371	RHP01-WGN01LF-2407B	7/18/2024	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
RHP01		FC17371	RHP01-WGN01B-2407B	7/18/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		24H0054	RHP01-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		580-142805-1	RHP01-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1244333	RHP01-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		FC17870	RHP01-WGN01B-2408A	8/8/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		FC17870	RHP01-WGN01LF-2408A	8/8/2024	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	U
RHP01		24H0130	RHP01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		580-143109-1	RHP01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1244651	RHP01-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		FC18177	RHP01-WGN01B-2408B	8/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		FC18177	RHP01-WGN01LF-2408B	8/20/2024	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	<0.42	U	<0.42	U	<0.42	U
RHP01		2409044	RHP01-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		580-143573-1	RHP01-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1245065	RHP01-WGN01LF-2409A	9/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		FC18632	RHP01-WGN01B-2409A	9/5/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP01		FC18632	RHP01-WGN01LF-2409A	9/5/2024	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	U
RHP01		2410175	RHP01-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP01		1245450	RHP01-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	

Notes:
See Data Legend

App. B 3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP01

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

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 | | | | | |

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		ND		ND	
					Maximum	ND		ND		151.1		ND		ND		151		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)	FC16667	RHP02-WGN01B-2406B	6/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP02		FC16667	RHP02-WGN01D-2406B	6/20/2024	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
RHP02		24G0014	RHP02-WGN01F-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-141742-1	RHP02-WGN01F-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1243346	RHP02-WGN01F-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC16950	RHP02-WGN01B-2407A	7/2/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP02		FC16950	RHP02-WGN01F-2407A	7/2/2024	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		24G0175	RHP02-WGN01F-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		B24071688	RHP02-WGN01F-2407B	7/18/2024	Primary	--		<141	U	151.1	J	<141	U	<189	U	151		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-142179-1	RHP02-WGN01F-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1243769	RHP02-WGN01F-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC17371	RHP02-WGN01D-2407B	7/18/2024	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
RHP02		FC17371	RHP02-WGN01B-2407B	7/18/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP02		24H0054	RHP02-WGN01F-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-142805-1	RHP02-WGN01D-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1244333	RHP02-WGN01F-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC17870	RHP02-WGN01B-2408A	8/8/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP02		FC17870	RHP02-WGN01D-2408A	8/8/2024	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	U
RHP02		24H0130	RHP02-WGN01F-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-143109-1	RHP02-WGN01F-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1244651	RHP02-WGN01D-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC18177	RHP02-WGN01D-2408B	8/20/2024	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	<0.42	U	<0.42	U	<0.42	U
RHP02		FC18177	RHP02-WGN01B-2408B	8/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP02		2409056	RHP02-WGN01F-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-143608-1	RHP02-WGN01F-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1245182	RHP02-WGN01D-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		2409175	RHP02-WGN01F-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		1245450	RHP02-WGN01L-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		775		899		150		ND		150		79		ND		0.22		0.24		69	
					Maximum	ND		ND		ND		ND		0.2		922		1390		190		ND		190		82		ND		0.75		0.72		110	
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)	FC16667	RHP02-WGN01B-2406B	6/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC16667	RHP02-WGN01LF-2406B	6/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		24G0014	RHP02-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--	R	--		--		--	
RHP02		580-141742-1	RHP02-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		--		--		170		<7	U	170		79		--		0.7		0.69		69	
RHP02		1243346	RHP02-WGN01LF-2407A	7/2/2024	Primary	--		--		--		--		--		775	J	1380		--		--		--		--		--		--		--		--	
RHP02		FC16950	RHP02-WGN01B-2407A	7/2/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC16950	RHP02-WGN01LF-2407A	7/2/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.2	J	--		--		--		--		--		--		--		--		--		--		--	
RHP02		24G0175	RHP02-WGN01LF-2407B	7/18/2024	Primary	<80	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP02		B24071688	RHP02-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		580-142179-1	RHP02-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		180		<7	U	180		79		--		0.6		0.67		69	
RHP02		1243769	RHP02-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		885	J+	899	J+	--		--		--		--		--		--		--		--	
RHP02		FC17371	RHP02-WGN01LF-2407B	7/18/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC17371	RHP02-WGN01B-2407B	7/18/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		24H0054	RHP02-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP02		580-142805-1	RHP02-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		--		--		190		<7	U	190		82		--		0.22		0.24	J+	70	
RHP02		1244333	RHP02-WGN01LF-2408A	8/8/2024	Primary	--		--		--		--		--		871	J+	1190	J+	--		--		--		--		--		--		--		--	
RHP02		FC17870	RHP02-WGN01B-2408A	8/8/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC17870	RHP02-WGN01LF-2408A	8/8/2024	Primary	--		<2	U	<0.015	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		24H0130	RHP02-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP02		580-143109-1	RHP02-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		--		--		150		<7	U	150		81		--		0.75		0.72		110	
RHP02		1244651	RHP02-WGN01LF-2408B	8/20/2024	Primary	--		--		--		--		--		922	J	1260		--		--		--		--		--		--		--		--	
RHP02		FC18177	RHP02-WGN01LF-2408B	8/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP02		FC18177	RHP02-WGN01B-2408B	8/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP02		2400056	RHP02-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP02		580-143608-1	RHP02-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		180		<7	U	180		81		--		0.72		0.65		70	
RHP02		1245182	RHP02-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		792	J	1390		--		--		--		--		--		--		--		--		--	
RHP02		2400175	RHP02-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP02		1245450	RHP02-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		812	J+	899	J+	--		--		--		--		--		--		--		--	

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		Result		Result	
RHP03	(b) (4)	FC16667	RHP03-WGN01LF-2406B	6/20/2024	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
RHP03		FC16667	RHP03-WGN01B-2406B	6/20/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP03		24G0029	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		580-141789-1	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		1243449	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC16969	RHP03-WGN01LF-2407A	7/3/2024	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
RHP03		FC16969	RHP03-WGN01B-2407A	7/3/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP03		24G0175	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		B24071688	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHP03		580-142179-1	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		1243769	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC17371	RHP03-WGN01B-2407B	7/18/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP03		FC17371	RHP03-WGN01LF-2407B	7/18/2024	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
RHP03		24H0157	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		580-143208-1	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		1244710	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC18287	RHP03-WGN01B-2408B	8/22/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP03		FC18287	RHP03-WGN01LF-2408B	8/22/2024	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
RHP03		2410077	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		580-143678-1	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		1245182	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC18707	RHP03-WGN01LF-2409A	9/9/2024	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
RHP03		FC18707	RHP03-WGN01B-2409A	9/9/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP03		2410175	RHP03-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		1245450	RHP03-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	

Notes:
See Data Legend

App. B 3.1 Groundwater Analytical Data: Red Hill Bulk Fuel Storage Facility
Consolidated Sampling Program
Groundwater Sampling: RHP03

						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			
RHP03	(b) (4)	FC16667	RHP03-WGN01LF-2406B	6/20/2024	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	UJ	
RHP03		FC16667	RHP03-WGN01B-2406B	6/20/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		24G0029	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		580-141789-1	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		1243449	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC16969	RHP03-WGN01LF-2407A	7/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHP03		FC16969	RHP03-WGN01B-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		24G0175	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		B24071688	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		580-142179-1	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		1243769	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC17371	RHP03-WGN01B-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC17371	RHP03-WGN01LF-2407B	7/18/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		24H0157	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		580-143208-1	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		1244710	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC18287	RHP03-WGN01B-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC18287	RHP03-WGN01LF-2408B	8/22/2024	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		
RHP03		2410077	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		580-143678-1	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		1245182	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		FC18707	RHP03-WGN01LF-2409A	9/9/2024	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		
RHP03		FC18707	RHP03-WGN01B-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		2410175	RHP03-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP03		1245450	RHP03-WGN01LF-2409B	9/19/2024	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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		710		150		ND		150		210		ND		0.8		0.9		39	
					Maximum	ND		ND		ND		ND		0.22		608		935		170		ND		170		230		ND		0.97		1.2		45	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP03	(b) (4)	FC16667	RHP03-WGN01LF-2406B	6/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--	
RHP03		FC16667	RHP03-WGN01B-2406B	6/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP03		24G0029	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP03		580-141789-1	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		150		<7	U	150		210		--		0.95		0.92		45	
RHP03		1243449	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		<750	U	710	J	--		--		--		--		--		--		--		--	
RHP03		FC16969	RHP03-WGN01LF-2407A	7/3/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.18	J	--		--		--		--		--		--		--		--		--		--	
RHP03		FC16969	RHP03-WGN01B-2407A	7/3/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP03		24G0175	RHP03-WGN01LF-2407B	7/18/2024	Primary	<80	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP03		B24071688	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP03		580-142179-1	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		160		<2	U	160		210		--		0.8		0.9		39	
RHP03		1243769	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		<750	U	787	J+	--		--		--		--		--		--		--		--	
RHP03		FC17371	RHP03-WGN01B-2407B	7/18/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC17371	RHP03-WGN01LF-2407B	7/18/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.22	J	--		--		--		--		--		--		--		--		--		--	
RHP03		24H0157	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP03		580-143208-1	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		170		<7	U	170	J+	230		--		0.97		1.2		40	
RHP03		1244710	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		<750	U	814	J+	--		--		--		--		--		--		--		--	
RHP03		FC18287	RHP03-WGN01B-2408B	8/22/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP03		FC18287	RHP03-WGN01LF-2408B	8/22/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--	
RHP03		2400077	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP03		580-143678-1	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		170		<7	U	170		230		--		0.94		0.95		40	
RHP03		1245182	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		608	J	935	J	--		--		--		--		--		--		--		--	
RHP03		FC18707	RHP03-WGN01LF-2409A	9/9/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--	
RHP03		FC18707	RHP03-WGN01B-2409A	9/9/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP03		2400175	RHP03-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP03		1245450	RHP03-WGN01LF-2409B	9/19/2024	Primary	--		--		--		--		--		<750	U	772	J+	--		--		--		--		--		--		--		--	

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.						PHC6C10	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result

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			
					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			
RHP04A	(b) (4)	FC16667	RHP04A-WGN01B-2406B	6/20/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC16667	RHP04A-WGN01LF-2406B	6/20/2024	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	UJ		
RHP04A		24G0029	RHP04A-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		580-141789-1	RHP04A-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		1243449	RHP04A-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC16969	RHP04A-WGN01LF-2407A	7/3/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	U	<0.042	U	<0.042	UJ	<0.042	U	<0.083	U	<0.042	U	<0.42	U	<0.42	UJ	<0.042	U	<0.42	UJ	<0.42	U		
RHP04A		FC16969	RHP04A-WGN01B-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		24G0175	RHP04A-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		B24071688	RHP04A-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		580-142179-1	RHP04A-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		1243769	RHP04A-WGN01LF-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC17371	RHP04A-WGN01B-2407B	7/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC17371	RHP04A-WGN01LF-2407B	7/18/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		24H0170	RHP04A-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		580-143208-1	RHP04A-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		1244710	RHP04A-WGN01LF-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC18287	RHP04A-WGN01B-2408B	8/22/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC18287	RHP04A-WGN01LF-2408B	8/22/2024	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		
RHP04A		2480077	RHP04A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		580-143678-1	RHP04A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		1245182	RHP04A-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC18707	RHP04A-WGN01LF-2409A	9/9/2024	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		
RHP04A		FC18707	RHP04A-WGN01B-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		2480143	RHP04A-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		580-143974-1	RHP04A-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		1245370	RHP04A-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP04A		FC18945	RHP04A-WGN01LF-2409B	9/17/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP04A		FC18945	RHP04A-WGN01B-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		130		ND		130		180		ND		0.92		0.93		42	
					Maximum	ND		ND		ND		ND		0.27		875		1100		130		ND		130		200		ND		1		1		44	
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)	FC16667	RHP04A-WGN01B-2406B	6/20/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC16667	RHP04A-WGN01LF-2406B	6/20/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.27	J	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		24G0029	RHP04A-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP04A		580-141789-1	RHP04A-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		180		--		1		0.97		43	
RHP04A		1243449	RHP04A-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		<750	U	587	J	--		--		--		--		--		--		--		--		--	
RHP04A		FC16969	RHP04A-WGN01LF-2407A	7/3/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC16969	RHP04A-WGN01B-2407A	7/3/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP04A		24G0175	RHP04A-WGN01LF-2407B	7/18/2024	Primary	<80	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP04A		B24071688	RHP04A-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04A		580-142179-1	RHP04A-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		180		--		0.92		0.93		42	
RHP04A		1243769	RHP04A-WGN01LF-2407B	7/18/2024	Primary	--		--		--		--		--		<750	U	1100	J+	--		--		--		--		--		--		--		--		--	
RHP04A		FC17371	RHP04A-WGN01B-2407B	7/18/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC17371	RHP04A-WGN01LF-2407B	7/18/2024	Primary	--		<2	U	<0.015	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		24H0170	RHP04A-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP04A		580-143208-1	RHP04A-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130	J+	200		--		1		1		44	
RHP04A		1244710	RHP04A-WGN01LF-2408B	8/22/2024	Primary	--		--		--		--		--		875	J+	866	J+	--		--		--		--		--		--		--		--		--	
RHP04A		FC18287	RHP04A-WGN01B-2408B	8/22/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC18287	RHP04A-WGN01LF-2408B	8/22/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		2480077	RHP04A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP04A		580-143678-1	RHP04A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		190		--		0.99		1		44	
RHP04A		1245182	RHP04A-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		749	J	912	J	--		--		--		--		--		--		--		--		--	
RHP04A		FC18707	RHP04A-WGN01LF-2409A	9/9/2024	Primary	--		<2	U	<0.014	U	<0.5	U	0.19	J	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC18707	RHP04A-WGN01B-2409A	9/9/2024	Primary	--		--		--		<0.5	U	--		--		--		--		--		--		--		--		--		--		--		--	
RHP04A		240143	RHP04A-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP04A		580-143974-1	RHP04A-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		130		<7	U	130		190		--		1		0.99		42	
RHP04A		1245370	RHP04A-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHP04A		FC18945	RHP04A-WGN01LF-2409B	9/17/2024	Primary	--		<2	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP04A		FC18945	RHP04A-WGN01B-2409B	9/17/2024	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: 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.	PHC6C10		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		83.07		152.3		ND		ND		235		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	
RHP04B	(b) (4)	24F0252	RHP04B-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-141495-1	RHP04B-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		1243133	RHP04B-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		FC16798	RHP04B-WGN01LF-2406B	6/25/2024	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	<0.43	U	<0.43	U	<0.43	U
RHP04B		24G0047	RHP04B-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-141892-1	RHP04B-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		1243475	RHP04B-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		FC17087	RHP04B-WGN01LF-2407A	7/9/2024	Primary	<50	U	<100	U	<170	U	--		--		ND		<0.5	U	<0.5	UJ	<0.5	U	<1.5	U	<0.5	U	<0.5	U	<0.4	U	<0.4	U	<0.4	U
RHP04B		24G0206	RHP04B-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		B2407202	RHP04B-WGN01LF-2407B	7/23/2024	Primary	--		83.07	J	152.3	J	<143	U	<190	U	235		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-142335-1	RHP04B-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		1243878	RHP04B-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		FC17424	RHP04B-WGN01LF-2407B	7/23/2024	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	<0.42	U	<0.42	U	<0.42	U
RHP04B		24H0077	RHP04B-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-142912-1	RHP04B-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		1244440	RHP04B-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		FC17865	RHP04B-WGN01LF-2408A	8/13/2024	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
RHP04B		24H0207	RHP04B-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-143311-1	RHP04B-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		1244805	RHP04B-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		2410095	RHP04B-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		580-143783-1	RHP04B-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04B		FC18788	RHP04B-WGN01LF-2409A	9/11/2024	Primary	<50	U	<100	U	<160	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: 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)	24F0252	RHP04B-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-141495-1	RHP04B-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1243133	RHP04B-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC16768	RHP04B-WGN01LF-2406B	6/25/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	UJ	<0.043	U	<0.043	U	<0.043	U	<0.087	U	<0.043	UJ	<0.43	U	<0.43	U	<0.043	U	<0.43	U	<0.43	U
RHP04B		24G0047	RHP04B-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-141892-1	RHP04B-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1243475	RHP04B-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC17087	RHP04B-WGN01LF-2407A	7/9/2024	Primary	<0.4	U	<0.4	U	<0.4	UJ	<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	U	<0.04	U	<0.4	U	<0.4	UJ
RHP04B		24G0206	RHP04B-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		B24072012	RHP04B-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-142335-1	RHP04B-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1243878	RHP04B-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC17424	RHP04B-WGN01LF-2407B	7/23/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		24H0077	RHP04B-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-142912-1	RHP04B-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1244440	RHP04B-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC17865	RHP04B-WGN01LF-2408A	8/13/2024	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		24H0207	RHP04B-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-143311-1	RHP04B-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		1244805	RHP04B-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		2410095	RHP04B-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		580-143783-1	RHP04B-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04B		FC18788	RHP04B-WGN01LF-2409A	9/11/2024	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

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 | | | | | |

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.	PHC6C10		PHC10C24		PHC24C40		PHC10C24SGC		PHC24C40SGC		---		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)	24F0252	RHP04C-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-141495-1	RHP04C-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		1243133	RHP04C-WGN01LF-2406B	6/25/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		FC16788	RHP04C-WGN01LF-2406B	6/25/2024	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	U
RHP04C		24G0047	RHP04C-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-141892-1	RHP04C-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		1243475	RHP04C-WGN01LF-2407A	7/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		FC17087	RHP04C-WGN01LF-2407A	7/9/2024	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	<0.4	U	<0.4	U	<0.4	U
RHP04C		24G0206	RHP04C-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		B2407202	RHP04C-WGN01LF-2407B	7/23/2024	Primary	--		<161	U	<189	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-142335-1	RHP04C-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		1243878	RHP04C-WGN01LF-2407B	7/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		FC17424	RHP04C-WGN01LF-2407B	7/23/2024	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
RHP04C		24H0087	RHP04C-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-142912-1	RHP04C-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		1244440	RHP04C-WGN01LF-2408A	8/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		FC17865	RHP04C-WGN01LF-2408A	8/13/2024	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		24H0207	RHP04C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-143311-1	RHP04C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		1244805	RHP04C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		2410095	RHP04C-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		580-143783-1	RHP04C-WGN01LF-2409A	9/11/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP04C		FC18788	RHP04C-WGN01LF-2409A	9/11/2024	Primary	<50	U	<100	U	<160	U	--		--		ND		<0.5	UJ	<0.5	UJ	<0.5	UJ	<1.5	UJ	<0.5	UJ	<0.5	UJ	<0.42	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: 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)	24F0252	RHP04C-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-141495-1	RHP04C-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1243133	RHP04C-WGN01LF-2406B	6/25/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC16768	RHP04C-WGN01LF-2406B	6/25/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<0.04	U	<0.04	U	<0.04	U	<0.08	U	<0.04	UJ	<0.4	U	<0.4	U	<0.04	U	<0.4	U	<0.4	U
RHP04C		24G0047	RHP04C-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-141892-1	RHP04C-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1243475	RHP04C-WGN01LF-2407A	7/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC17087	RHP04C-WGN01LF-2407A	7/9/2024	Primary	<0.4	UJ	<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	U	<0.4	U	<0.04	U	<0.4	UJ	<0.4	U
RHP04C		24G0206	RHP04C-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		B24072012	RHP04C-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-142335-1	RHP04C-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1243878	RHP04C-WGN01LF-2407B	7/23/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC17424	RHP04C-WGN01LF-2407B	7/23/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<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		24H0087	RHP04C-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-142912-1	RHP04C-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1244440	RHP04C-WGN01LF-2408A	8/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC17865	RHP04C-WGN01LF-2408A	8/13/2024	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		24H0207	RHP04C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-143311-1	RHP04C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		1244805	RHP04C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		2410095	RHP04C-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		580-143783-1	RHP04C-WGN01LF-2409A	9/11/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP04C		FC18788	RHP04C-WGN01LF-2409A	9/11/2024	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

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 | | | | | |

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.	PHCC8C10	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
RHP05	(b) (4)	1243112	RHP05-WGN01LF-2406B	6/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC16682	RHP05-WGN01LF-2406B	6/21/2024	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	<0.4 U	<0.4 U	<0.4 U
RHP05		FC16682	RHP05-WGN01B-2406B	6/21/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		24G0029	RHP05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		580-141789-1	RHP05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1243449	RHP05-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC16969	RHP05-WGN01B-2407A	7/3/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		FC16969	RHP05-WGN01LF-2407A	7/3/2024	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	<0.45 U	<0.45 U	<0.45 U
RHP05		24G0175	RHP05-WGN01LF-2407B	7/19/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		B24071688	RHP05-WGN01LF-2407B	7/19/2024	Primary	--	<160 U	<187 U	--	--	ND	--	--	--	--	--	--	--	--	--
RHP05		580-142246-1	RHP05-WGN01LF-2407B	7/19/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1243828	RHP05-WGN01LF-2407B	7/19/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC17308	RHP05-WGN01LF-2407B	7/19/2024	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
RHP05		FC17308	RHP05-WGN01B-2407B	7/19/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		24H0060	RHP05-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		580-142844-1	RHP05-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1244418	RHP05-WGN01LF-2408A	8/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC17872	RHP05-WGN01LF-2408A	8/9/2024	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
RHP05		FC17872	RHP05-WGN01B-2408A	8/9/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		24H0185	RHP05-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		580-143256-1	RHP05-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1244802	RHP05-WGN01LF-2408B	8/23/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC18309	RHP05-WGN01B-2408B	8/23/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		FC18309	RHP05-WGN01LF-2408B	8/23/2024	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
RHP05		24I0077	RHP05-WGN01LF-2409A	9/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		580-143678-1	RHP05-WGN01LF-2409A	9/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1245182	RHP05-WGN01LF-2409A	9/9/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC18707	RHP05-WGN01LF-2409A	9/9/2024	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
RHP05		FC18707	RHP05-WGN01B-2409A	9/9/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		24I0143	RHP05-WGN01LF-2409B	9/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		580-143974-1	RHP05-WGN01LF-2409B	9/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		1245370	RHP05-WGN01LF-2409B	9/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP05		FC18945	RHP05-WGN01B-2409B	9/17/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP05		FC18945	RHP05-WGN01LF-2409B	9/17/2024	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

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			
					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			
RHP05	(b) (4)	1243112	RHP05-WGN01LF-2406B	6/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC16682	RHP05-WGN01LF-2406B	6/21/2024	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	UJ
RHP05		FC16682	RHP05-WGN01B-2406B	6/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		24G0029	RHP05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-141789-1	RHP05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1243449	RHP05-WGN01LF-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC16969	RHP05-WGN01B-2407A	7/3/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC16969	RHP05-WGN01LF-2407A	7/3/2024	Primary	<0.45	U	<0.45	U	<0.45	U	<0.045	U	<0.045	U	<0.045	U	<0.045	UJ	<0.045	U	<0.091	U	<0.045	U	<0.45	U	<0.45	UJ	<0.045	U	<0.45	UJ	<0.45	U
RHP05		24G0175	RHP05-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		B24071688	RHP05-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-142246-1	RHP05-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1243828	RHP05-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC17308	RHP05-WGN01LF-2407B	7/19/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		FC17308	RHP05-WGN01B-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		24H0060	RHP05-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-142844-1	RHP05-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1244418	RHP05-WGN01LF-2408A	8/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC17872	RHP05-WGN01LF-2408A	8/9/2024	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		FC17872	RHP05-WGN01B-2408A	8/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		24H0185	RHP05-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-143256-1	RHP05-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1244802	RHP05-WGN01LF-2408B	8/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC18309	RHP05-WGN01B-2408B	8/23/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC18309	RHP05-WGN01LF-2408B	8/23/2024	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		2410077	RHP05-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-143678-1	RHP05-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1245182	RHP05-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC18707	RHP05-WGN01LF-2409A	9/9/2024	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
RHP05		FC18707	RHP05-WGN01B-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		2410143	RHP05-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		580-143974-1	RHP05-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		1245370	RHP05-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC18945	RHP05-WGN01B-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--			
RHP05		FC18945	RHP05-WGN01LF-2409B	9/17/2024	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	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: RHP05

| | | | | | | 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: 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.	PHC6C10		PHC10C24		PHC24C40		PHC10C24SGC		PHC24C40SGC		---		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		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)	1243112	RHP06-WGN01LF-2406B	6/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC16682	RHP06-WGN01LF-2406B	6/21/2024	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	<0.4	U	<0.4	U	<0.4	U
RHP06		FC16682	RHP06-WGN01B-2406B	6/21/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP06		24G0029	RHP06-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		580-141818-1	RHP06-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		1243449	RHP06-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC16987	RHP06-WGN01LF-2407A	7/5/2024	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	UJ	<0.42	UJ	<0.42	UJ
RHP06		FC16987	RHP06-WGN01B-2407A	7/5/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP06		24G0175	RHP06-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		B24071688	RHP06-WGN01LF-2407B	7/19/2024	Primary	--		<167	U	<198	U	<147	U	<196	U	ND		--		--		--		--		--		--		--		--		--		--	
RHP06		580-142246-1	RHP06-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		1243828	RHP06-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC17308	RHP06-WGN01LF-2407B	7/19/2024	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	U
RHP06		FC17308	RHP06-WGN01B-2407B	7/19/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP06		24H0029	RHP06-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		580-142721-1	RHP06-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		1244294	RHP06-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC17772	RHP06-WGN01B-2408A	8/6/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP06		FC17772	RHP06-WGN01LF-2408A	8/6/2024	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		24H0114	RHP06-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		580-143072-1	RHP06-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		1244605	RHP06-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC18142	RHP06-WGN01LF-2408B	8/19/2024	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
RHP06		FC18142	RHP06-WGN01B-2408B	8/19/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--	
RHP06		2410056	RHP06-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		580-143608-1	RHP06-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		1245182	RHP06-WGN01LF-2409A	9/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP06		FC19006	RHP06-WGN01LF-2409B	9/20/2024	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	<0.42	U	<0.42	U	<0.42	U
RHP06		FC19006	RHP06-WGN01B-2409B	9/20/2024	Primary	--		--		--		--		--		ND		<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: RHP06

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

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 | | | | | |

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	Result	Result
RHP07	(b) (4)	FC16584	RHP07-WGN01B-2406B	6/18/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		FC16584	RHP07-WGN01LF-2406B	6/18/2024	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
RHP07		24G0029	RHP07-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		580-141789-1	RHP07-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1243449	RHP07-WGN01LF-2407A	7/3/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC16969	RHP07-WGN01B-2407A	7/3/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		FC16969	RHP07-WGN01LF-2407A	7/3/2024	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	<0.43 U	<0.43 U	<0.43 U
RHP07		24G0172	RHP07-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		B24071480	RHP07-WGN01LF-2407B	7/17/2024	Primary	--	<140 U	<187 U	--	--	ND	--	--	--	--	--	--	--	--	--
RHP07		580-142138-1	RHP07-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1243721	RHP07-WGN01LF-2407B	7/17/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC17307	RHP07-WGN01B-2407B	7/17/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		FC17307	RHP07-WGN01LF-2407B	7/17/2024	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 U
RHP07		24H0044	RHP07-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		580-142762-1	RHP07-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1244295	RHP07-WGN01LF-2408A	8/7/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC17828	RHP07-WGN01LF-2408A	8/7/2024	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 U
RHP07		FC17828	RHP07-WGN01B-2408A	8/7/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		24H0141	RHP07-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		580-143167-1	RHP07-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1244686	RHP07-WGN01LF-2408B	8/21/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC18228	RHP07-WGN01B-2408B	8/21/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		FC18228	RHP07-WGN01LF-2408B	8/21/2024	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	<0.42 U	<0.42 U	<0.42 U
RHP07		2409044	RHP07-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		580-143573-1	RHP07-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1245065	RHP07-WGN01LF-2409A	9/5/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC18632	RHP07-WGN01LF-2409A	9/5/2024	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 U
RHP07		FC18632	RHP07-WGN01B-2409A	9/5/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		2410159	RHP07-WGN01LF-2409B	9/18/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		1245408	RHP07-WGN01LF-2409B	9/18/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP07		FC18950	RHP07-WGN01B-2409B	9/18/2024	Primary	--	--	--	--	--	ND	<0.5 U	<0.5 U	<0.5 U	<1.5 U	<0.5 U	<0.5 U	--	--	--
RHP07		FC18950	RHP07-WGN01LF-2409B	9/18/2024	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

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		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			
RHP07	(b) (4)	FC16584	RHP07-WGN01B-2406B	6/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC16584	RHP07-WGN01LF-2406B	6/18/2024	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		
RHP07		24G0029	RHP07-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		580-141789-1	RHP07-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1243449	RHP07-WGN01LF-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC16969	RHP07-WGN01B-2407A	7/3/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC16969	RHP07-WGN01LF-2407A	7/3/2024	Primary	<0.43	U	<0.43	U	<0.43	U	<0.043	U	<0.043	U	<0.043	U	<0.043	UJ	<0.043	U	<0.087	U	<0.043	U	<0.43	U	<0.43	UJ	<0.043	U	<0.43	UJ	<0.43	U		
RHP07		24G0172	RHP07-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		B24071480	RHP07-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		580-142138-1	RHP07-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1243721	RHP07-WGN01LF-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC17307	RHP07-WGN01B-2407B	7/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC17307	RHP07-WGN01LF-2407B	7/17/2024	Primary	<0.38	U	<0.38	U	<0.38	U	<0.038	U	<0.038	UJ	<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		
RHP07		24H0044	RHP07-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		580-142762-1	RHP07-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1244295	RHP07-WGN01LF-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC17828	RHP07-WGN01LF-2408A	8/7/2024	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		
RHP07		FC17828	RHP07-WGN01B-2408A	8/7/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		24H0141	RHP07-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		580-143167-1	RHP07-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1244686	RHP07-WGN01LF-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC18228	RHP07-WGN01B-2408B	8/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC18228	RHP07-WGN01LF-2408B	8/21/2024	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		
RHP07		2409044	RHP07-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		580-143573-1	RHP07-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1245065	RHP07-WGN01LF-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC18632	RHP07-WGN01LF-2409A	9/5/2024	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		
RHP07		FC18632	RHP07-WGN01B-2409A	9/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		2410159	RHP07-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		1245408	RHP07-WGN01LF-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC18950	RHP07-WGN01B-2409B	9/18/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP07		FC18950	RHP07-WGN01LF-2409B	9/18/2024	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	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: RHP07

| | | | | | | 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: 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.	PHCC8C10		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		164		85.6		103		ND		250		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)	1243112	RHP08-WGN01LF-2406B	6/21/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC16682	RHP08-WGN01B-2406B	6/21/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC16682	RHP08-WGN01LF-2406B	6/21/2024	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	<0.4	U	<0.4	U	<0.4	U
RHP08		FC16682	RHP08-WGFD01LF-2406B	6/21/2024	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	U
RHP08		FC16682	RHP08-WGFD01B-2406B	6/21/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		24G0029	RHP08-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		580-141818-1	RHP08-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1243449	RHP08-WGN01LF-2407A	7/5/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC16987	RHP08-WGN01B-2407A	7/5/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC16987	RHP08-WGN01LF-2407A	7/5/2024	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	UJ	<0.42	UJ	<0.42	UJ
RHP08		FC16987	RHP08-WGFD01LF-2407A	7/5/2024	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	UJ
RHP08		FC16987	RHP08-WGFD01B-2407A	7/5/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		24G0175	RHP08-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		B24071688	RHP08-WGN01LF-2407B	7/19/2024	Primary	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHP08		580-142246-1	RHP08-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1243828	RHP08-WGN01LF-2407B	7/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC17308	RHP08-WGN01LF-2407B	7/19/2024	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
RHP08		FC17308	RHP08-WGN01B-2407B	7/19/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		24G0175	RHP08-WGFD01LF-2407B	7/19/2024	Field Duplicate	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		B24071688	RHP08-WGFD01LF-2407B	7/19/2024	Field Duplicate	--		<140	U	<187	U	--		--		ND		--		--		--		--		--		--		--		--		--		--	
RHP08		FC17308	RHP08-WGFD01LF-2407B	7/19/2024	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	U
RHP08		FC17308	RHP08-WGFD01B-2407B	7/19/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		24H0029	RHP08-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		580-142721-1	RHP08-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1244294	RHP08-WGN01LF-2408A	8/6/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC17772	RHP08-WGN01LF-2408A	8/6/2024	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
RHP08		FC17772	RHP08-WGN01B-2408A	8/6/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC17772	RHP08-WGFD01B-2408A	8/6/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC17772	RHP08-WGFD01LF-2408A	8/6/2024	Field Duplicate	<50	U	101	J	<170	U	<100	U	<170	U	101		<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		24H0114	RHP08-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		580-143072-1	RHP08-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1244605	RHP08-WGN01LF-2408B	8/19/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC18142	RHP08-WGN01LF-2408B	8/19/2024	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
RHP08		FC18142	RHP08-WGN01B-2408B	8/19/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC18142	RHP08-WGFD01LF-2408B	8/19/2024	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	<0.42	U	<0.42	U	<0.42	U
RHP08		FC18142	RHP08-WGFD01B-2408B	8/19/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		2403077	RHP08-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		580-143678-1	RHP08-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1245182	RHP08-WGN01LF-2409A	9/9/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC18707	RHP08-WGN01LF-2409A	9/9/2024	Primary	<50	U	135	J	<170	U	96.7	J	<170	U	135		<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		FC18707	RHP08-WGN01B-2409A	9/9/2024	Primary	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC18707	RHP08-WGFD01B-2409A	9/9/2024	Field Duplicate	--		--		--		--		--		ND		<0.5	U	<0.5	U	<0.5	U	<1.5	U	<0.5	U	<0.5	U	--		--		--		--	
RHP08		FC18707	RHP08-WGFD01LF-2409A	9/9/2024	Field Duplicate	<50	U	164	J	85.6	J	103	J	<170	U	259		<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		2410143	RHP08-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		580-143974-1	RHP08-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		1245370	RHP08-WGN01LF-2409B	9/17/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08		FC18945	RHP08-WGN01LF-2409B	9/17/2024	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
RHP08		FC18945	RHP08-WGN01B-2409B	9/17/2024	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: 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		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			
RHP08	(b) (4)	1243112	RHP08-WGN01LF-2406B	6/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC16682	RHP08-WGN01B-2406B	6/21/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC16682	RHP08-WGN01LF-2406B	6/21/2024	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	UJ		
RHP08		FC16682	RHP08-WGFD01LF-2406B	6/21/2024	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	UJ		
RHP08		FC16682	RHP08-WGFD01B-2406B	6/21/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		24G0029	RHP08-WGN01LF-2407A	7/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-141818-1	RHP08-WGN01LF-2407A	7/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1243449	RHP08-WGN01LF-2407A	7/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC16987	RHP08-WGN01B-2407A	7/5/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC16987	RHP08-WGN01LF-2407A	7/5/2024	Primary	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	UJ	<0.042	U	<0.042	UJ	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP08		FC16987	RHP08-WGFD01LF-2407A	7/5/2024	Field Duplicate	<0.42	U	<0.42	U	<0.42	U	<0.042	U	<0.042	UJ	<0.042	UJ	<0.042	U	<0.042	UJ	<0.083	U	<0.042	U	<0.42	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP08		FC16987	RHP08-WGFD01B-2407A	7/5/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		24G0175	RHP08-WGN01LF-2407B	7/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		B24071688	RHP08-WGN01LF-2407B	7/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-142246-1	RHP08-WGN01LF-2407B	7/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1243828	RHP08-WGN01LF-2407B	7/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC17308	RHP08-WGN01LF-2407B	7/19/2024	Primary	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		
RHP08		FC17308	RHP08-WGN01B-2407B	7/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		24G0175	RHP08-WGFD01LF-2407B	7/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		B24071688	RHP08-WGFD01LF-2407B	7/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC17308	RHP08-WGFD01LF-2407B	7/19/2024	Field Duplicate	<0.4	U	<0.4	U	<0.4	U	<0.04	U	<0.04	UJ	<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		
RHP08		FC17308	RHP08-WGFD01B-2407B	7/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		24H0029	RHP08-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-142721-1	RHP08-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1244294	RHP08-WGN01LF-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC17772	RHP08-WGN01LF-2408A	8/6/2024	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		
RHP08		FC17772	RHP08-WGN01B-2408A	8/6/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC17772	RHP08-WGFD01B-2408A	8/6/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC17772	RHP08-WGFD01LF-2408A	8/6/2024	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		
RHP08		24H0114	RHP08-WGN01LF-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-143072-1	RHP08-WGN01LF-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1244605	RHP08-WGN01LF-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18142	RHP08-WGN01LF-2408B	8/19/2024	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		
RHP08		FC18142	RHP08-WGN01B-2408B	8/19/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18142	RHP08-WGFD01LF-2408B	8/19/2024	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		
RHP08		FC18142	RHP08-WGFD01B-2408B	8/19/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		2408077	RHP08-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-143678-1	RHP08-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1245182	RHP08-WGN01LF-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18707	RHP08-WGN01LF-2409A	9/9/2024	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		
RHP08		FC18707	RHP08-WGN01B-2409A	9/9/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18707	RHP08-WGFD01B-2409A	9/9/2024	Field Duplicate	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18707	RHP08-WGFD01LF-2409A	9/9/2024	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		
RHP08		2410143	RHP08-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		580-143974-1	RHP08-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		1245370	RHP08-WGN01LF-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			
RHP08		FC18945	RHP08-WGN01LF-2409B	9/17/2024	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	U	<0.42	U	<0.042	U	<0.42	U	<0.42	U		
RHP08		FC18945	RHP08-WGN01B-2409B	9/17/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–			

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 | | | | | |

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)	24H0104	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		B24081444	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--	<141 U	<189 U	--	--	ND	--	--	--	--	--	--	--	--	--
RHP08C		580-142947-1	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		1244480	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		FC18016	RHP08C-WGN01LF-2408A	8/14/2024	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
RHP08C		24H0193	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		580-143311-1	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		1244805	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		2480119	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		580-143874-1	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		1245344	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RHP08C		FC18846	RHP08C-WGN01LF-2409A	9/13/2024	Primary	<50 U	<100 U	<170 U	--	--	ND	<0.5 UJ	<0.5 UJ	<0.5 UJ	<1.5 UJ	<0.5 UJ	<0.5 UJ	<0.42 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: 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)	24H0104	RHP08C-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		B24081444	RHP08C-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-142947-1	RHP08C-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1244480	RHP08C-WGN01LF-2408A	8/14/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC18016	RHP08C-WGN01LF-2408A	8/14/2024	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		24H0193	RHP08C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-143311-1	RHP08C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1244805	RHP08C-WGN01LF-2408B	8/27/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		2410119	RHP08C-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		580-143874-1	RHP08C-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		1245344	RHP08C-WGN01LF-2409A	9/13/2024	Primary	–		–		–		–		–		–		–		–		–		–		–		–		–		–		–	
RHP08C		FC18846	RHP08C-WGN01LF-2409A	9/13/2024	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: 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		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L		mg/L	
					Minimum	ND		ND		ND		ND		ND		ND		ND		53		ND		53		110		ND		0.33		0.36		16	
					Maximum	ND		ND		ND		ND		ND		2240		760		63		ND		63		120		ND		0.36		0.48		16	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result		Result	
RHP08C	[redacted]	24H0104	RHP08C-WGN01LF-2408A	8/14/2024	Primary	<80	UJ	--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP08C		B24081444	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		--		--		--		--	
RHP08C		580-142947-1	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		--		--		53		<7	U	53	J+	120		--		0.36	J-	0.36	J+	16	
RHP08C		1244480	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--		--		--		--		<750	U	760	J+	--		--		--		--		--		--		--		--		--	
RHP08C		FC18016	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		<1.9	U	<0.014	U	<0.5	U	<0.25	U	--		--		--		--		--		--		--		--		--		--		--	
RHP08C		24H0193	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	U	--		--		--	
RHP08C		580-143311-1	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		--		--		63		<7	U	63	J+	120		--		0.36		0.48		16	
RHP08C		1244805	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--		--		--		--		2240		<750	U	--		--		--		--		--		--		--		--		--	
RHP08C		24I0119	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		--		--		--		--		--		--		--		<0.32	UJ	--		--		--	
RHP08C		580-143874-1	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		--		--		58		<7	U	58		110		--		0.33		0.39		16	
RHP08C		1245344	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--		--		--		--		<750	U	<750	U	--		--		--		--		--		--		--		--		--	
RHP08C		FC18846	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		<2	U	<0.014	U	<0.5	UJ	<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: RHP08C

						Bromide		Fluoride		Total Calcium		Total Magnesium		Total Manganese		Total Potassium		Total Sodium	
					Analyte														
					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	mg/L		mg/L		µg/L		µg/L		µg/L		µg/L		µg/L	
					Minimum	0.4		ND		20000		20000		3.3		3000		44000	
					Maximum	0.4		ND		20000		20000		3.3		3000		44000	
Location	Lab	SDG	Sample ID	Sampling Date	Type	Result		Result		Result		Result		Result		Result		Result	
RHP08C	[redacted]	24H0104	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		B24081444	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		580-142947-1	RHP08C-WGN01LF-2408A	8/14/2024	Primary	0.4	J	<0.4	--	20000		20000		3.3	J	3000	J	44000	J+
RHP08C		1244480	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		FC18016	RHP08C-WGN01LF-2408A	8/14/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		24H0193	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		580-143311-1	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		1244805	RHP08C-WGN01LF-2408B	8/27/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		2410119	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		580-143874-1	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		1245344	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--	--	--		--		--		--		--	
RHP08C		FC18846	RHP08C-WGN01LF-2409A	9/13/2024	Primary	--		--	--	--		--		--		--		--	

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.

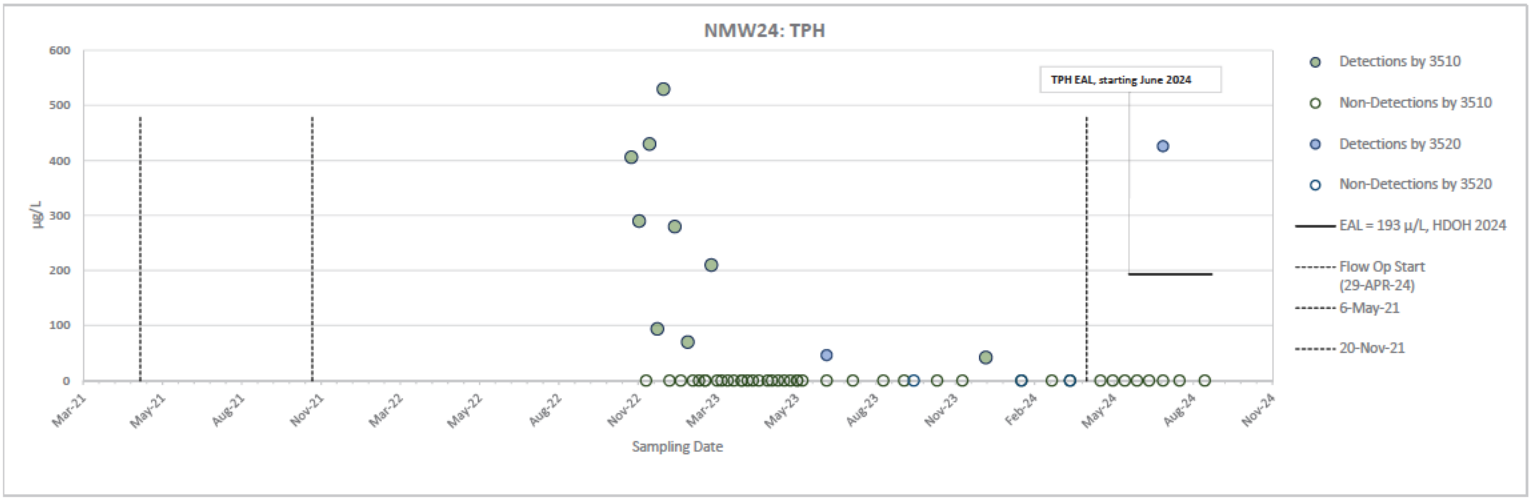
TPH EAL is based on HDOH June, 2024 Tier 1 EAL and is used to evaluate TPH data starting with this reporting period. TPH component EALs are no longer in effect and historical data was evaluated based on HDOH 2017 Tier 1 EALs.

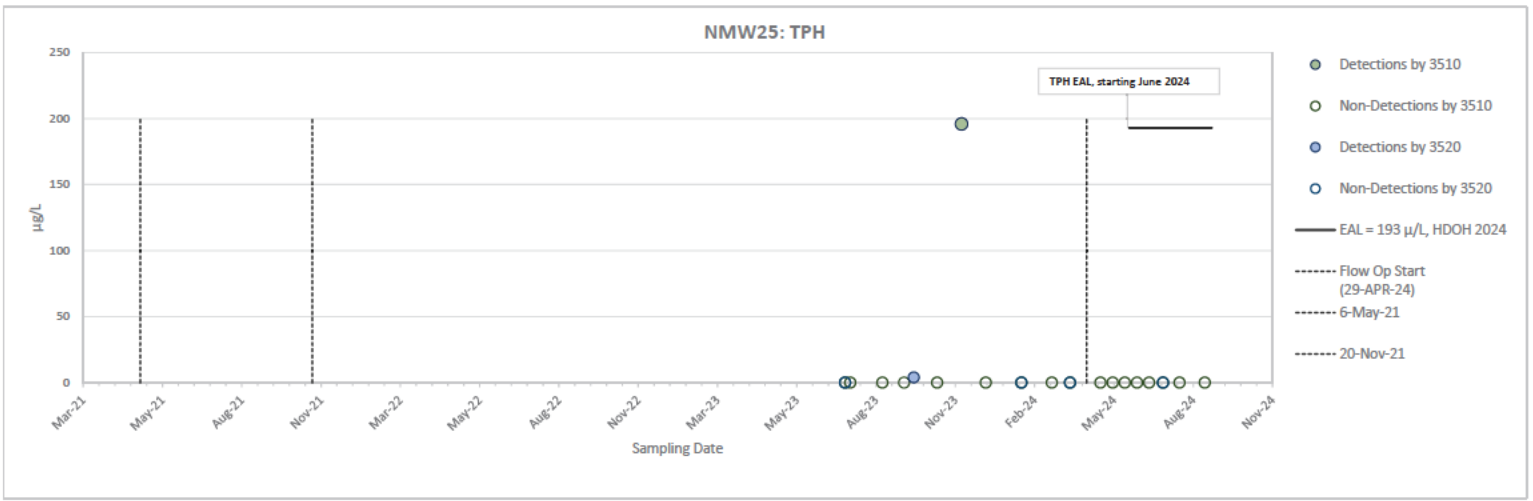
TPH is not a lab reported result and values are calculated with all available TPH components. However, some samples were not analyzed for GRO, BTEX, 1MN, 2MN or Naphthalene and the corresponding incomplete TPH values are reported.

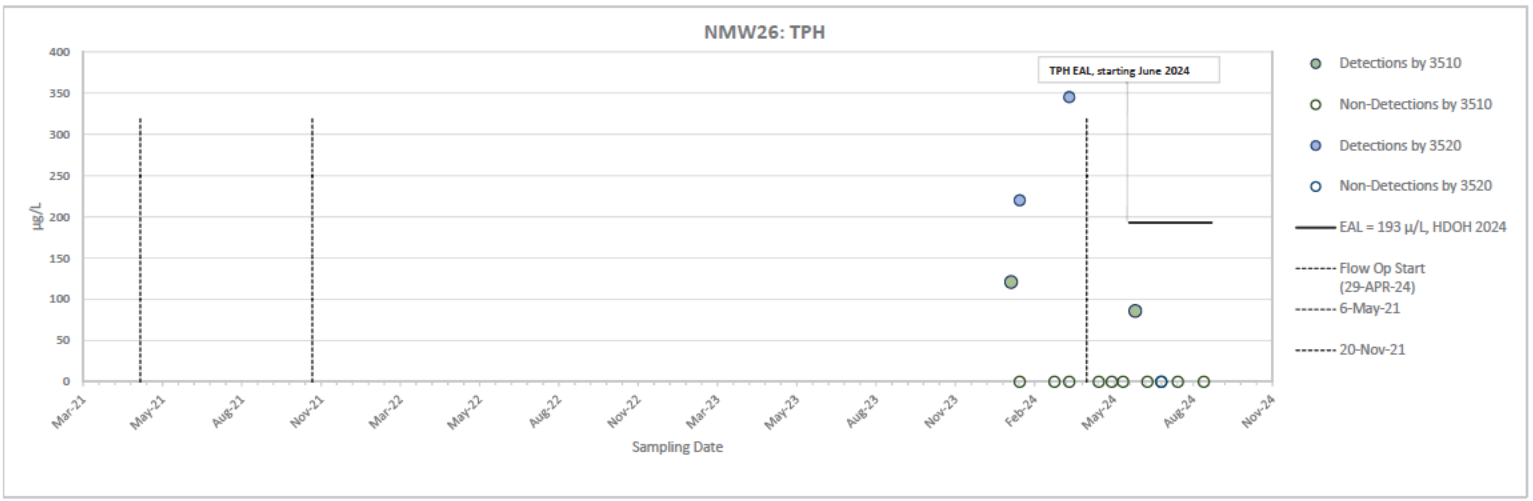
TPH values are calculated separately for each extraction method used in the Consolidated Sampling Program, 3510 and 3520.

Units

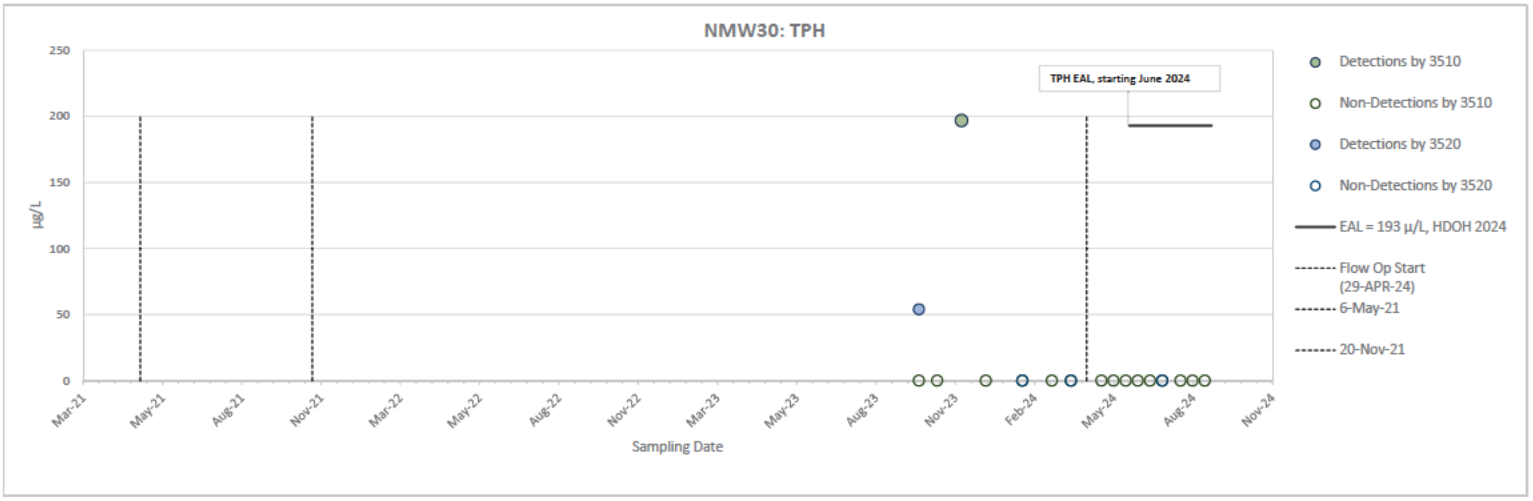
µg/L – Micrograms per Liter

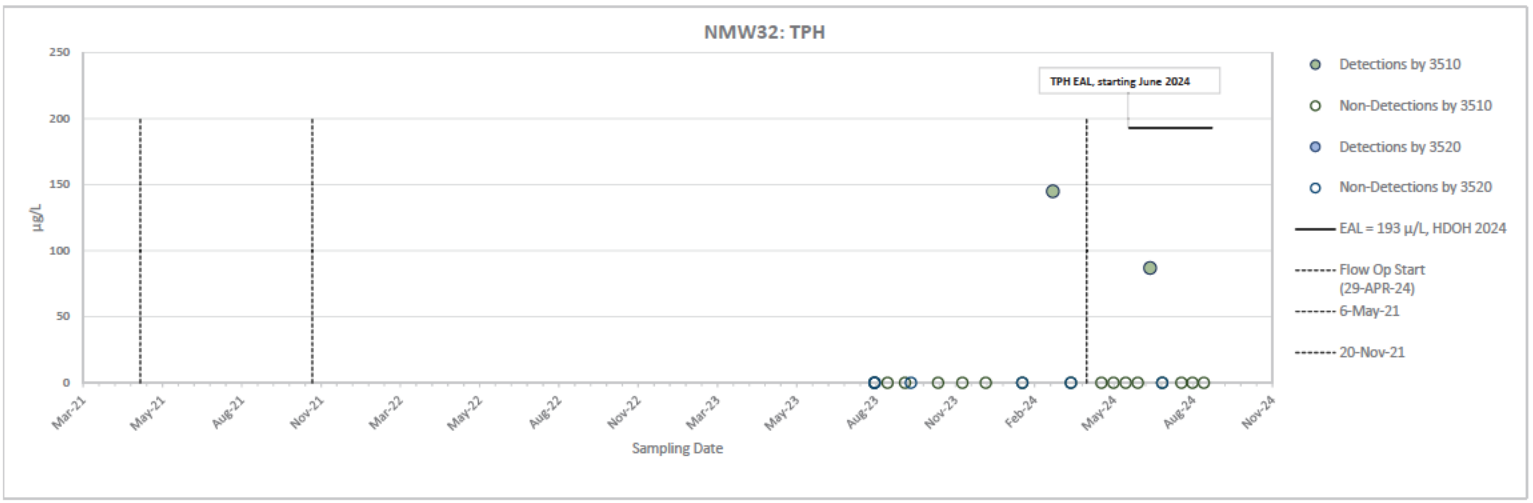


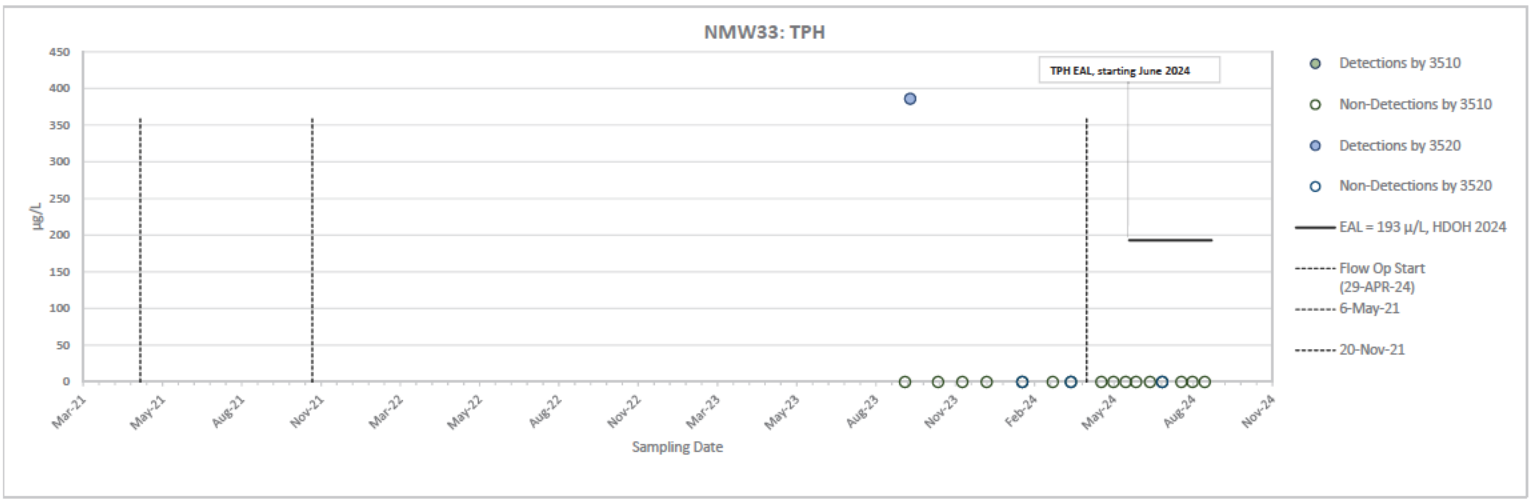




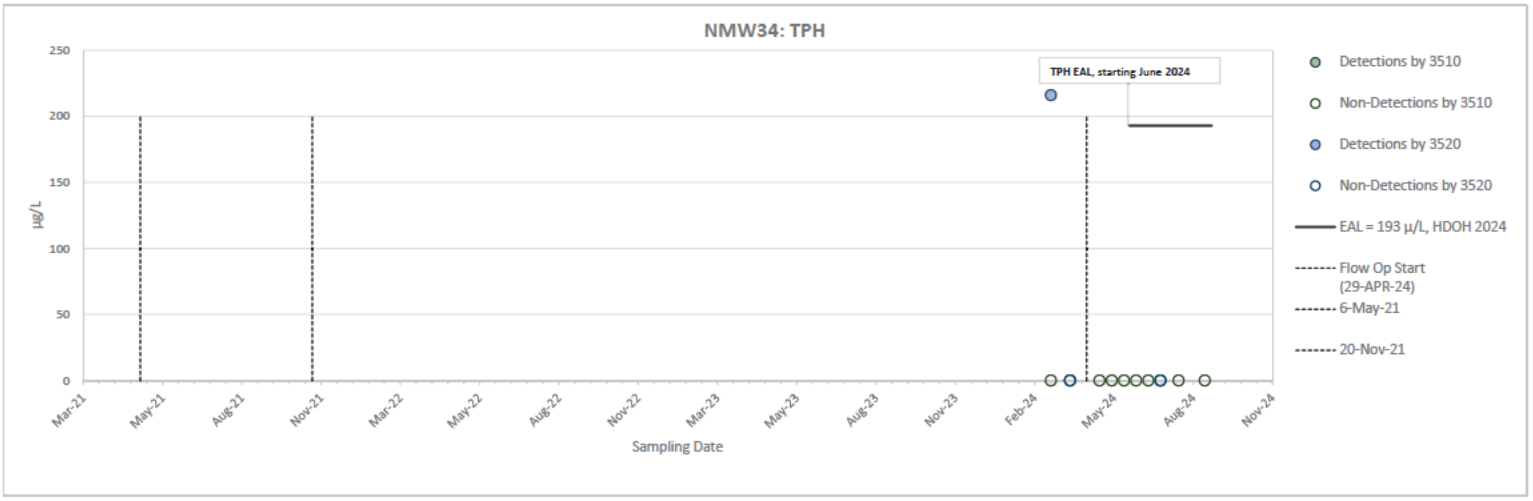
Note: See Data Legend

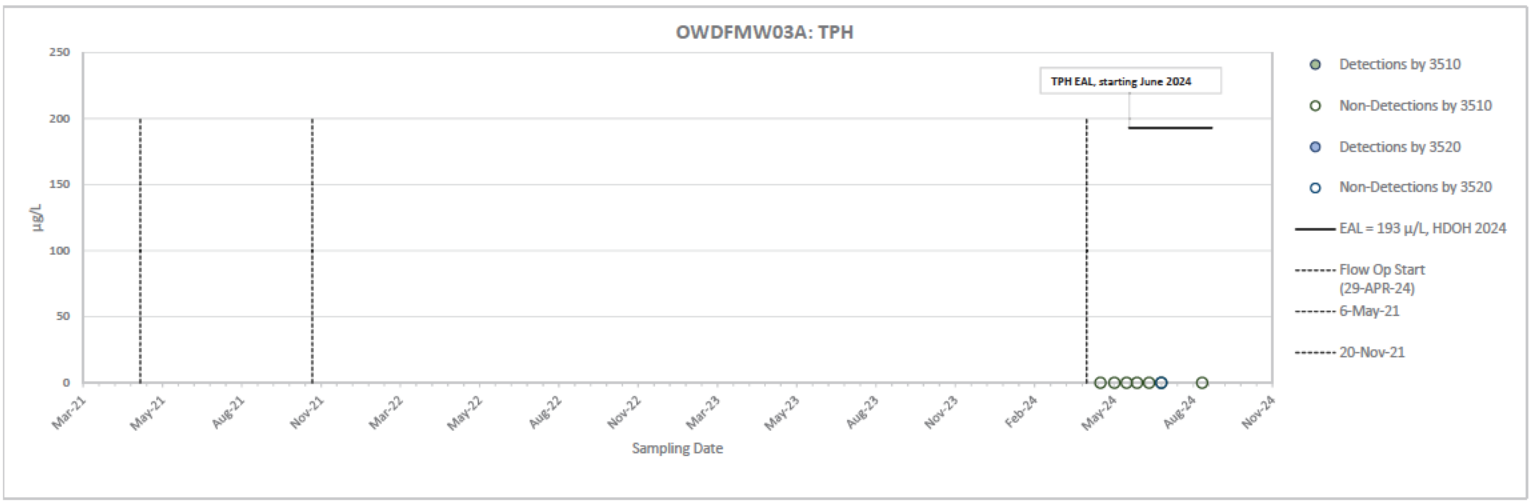


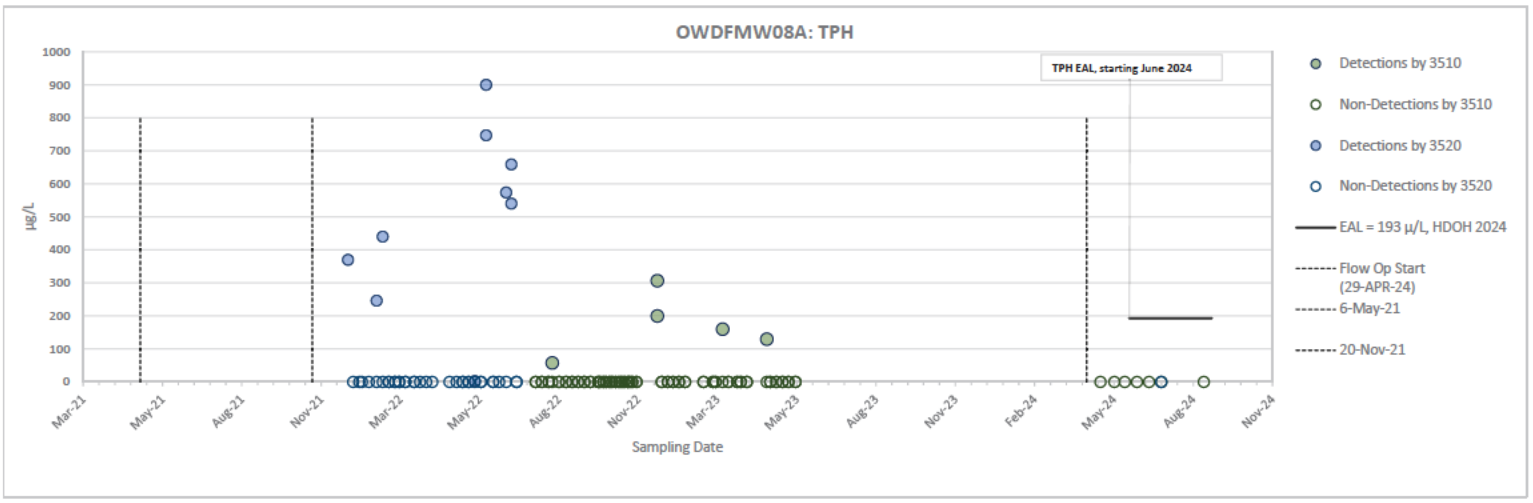




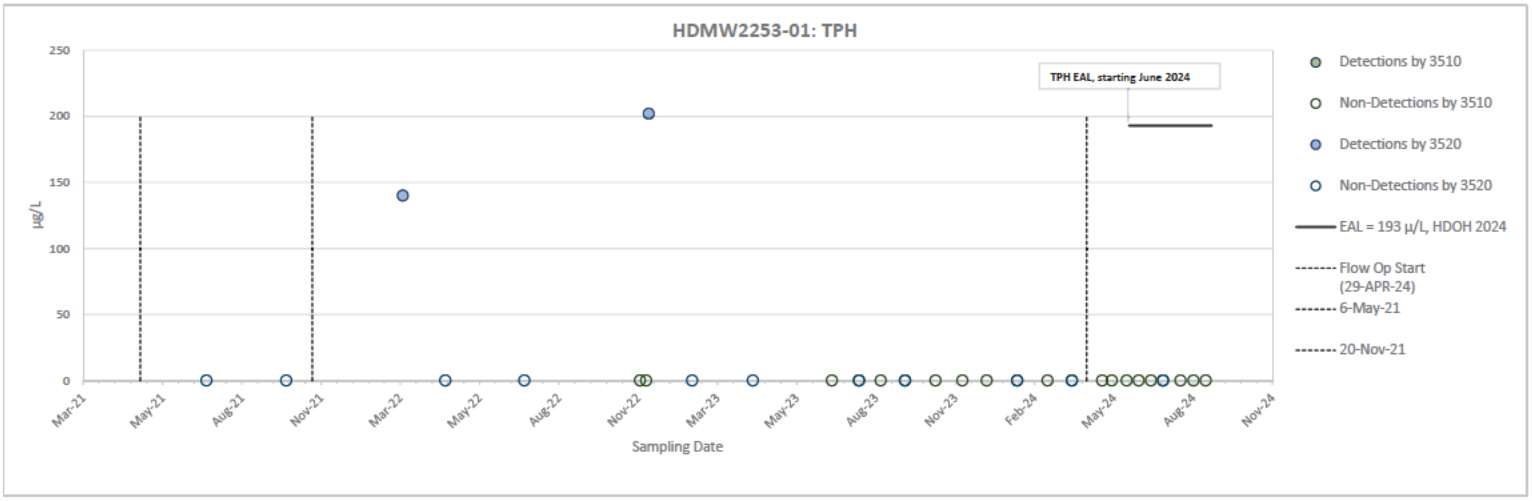
Note: See Data Legend

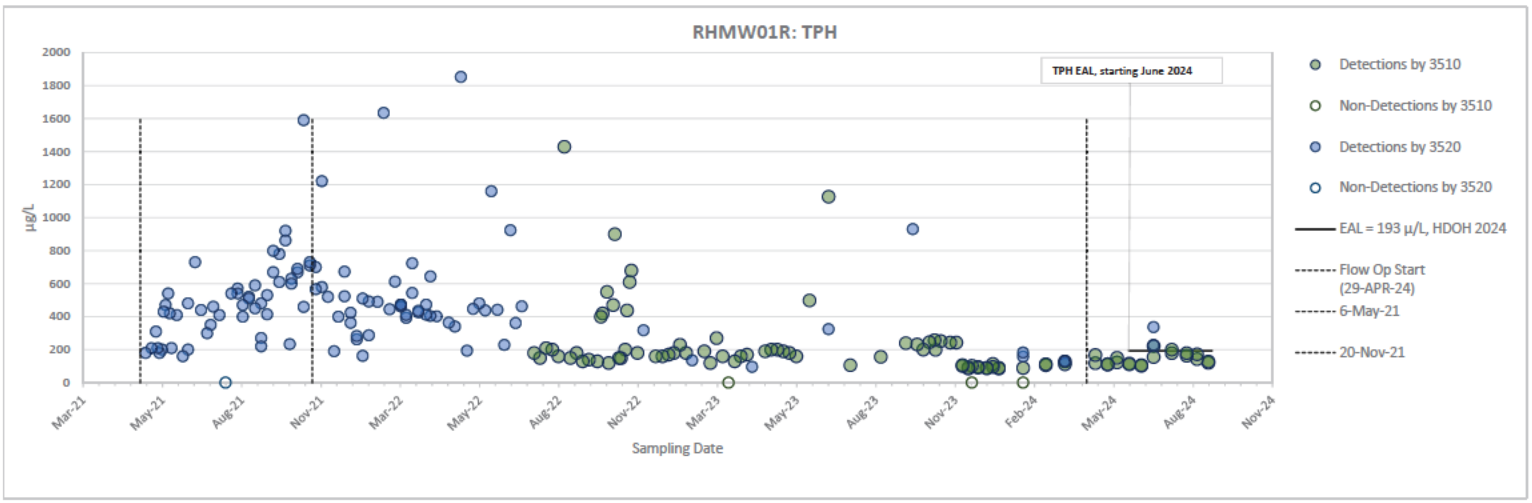


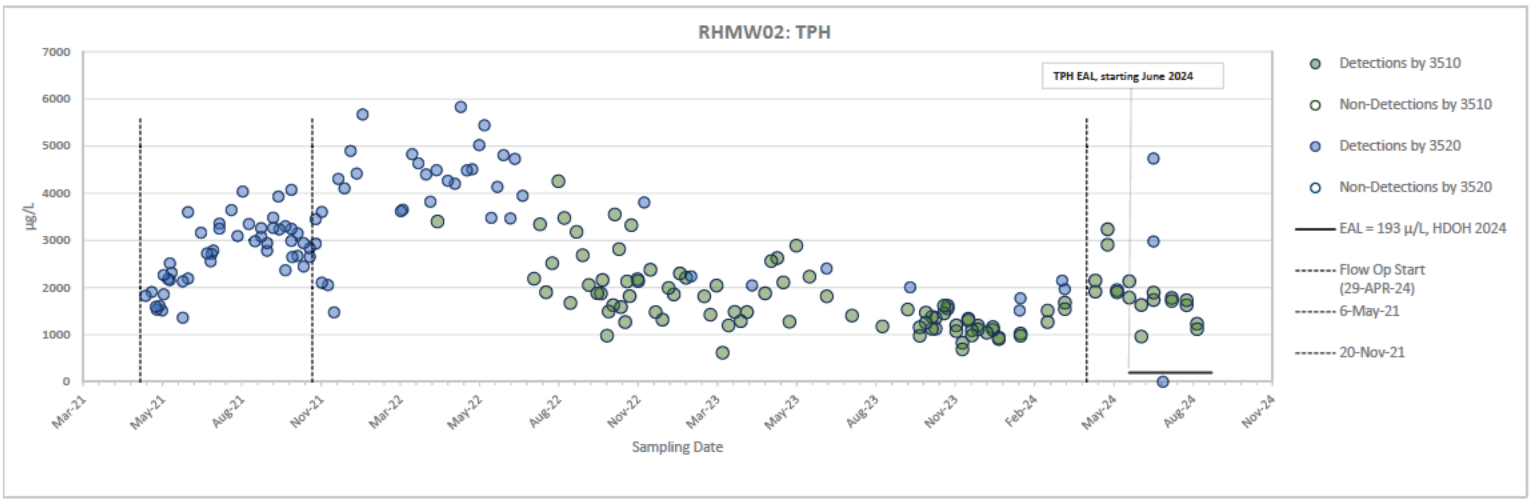




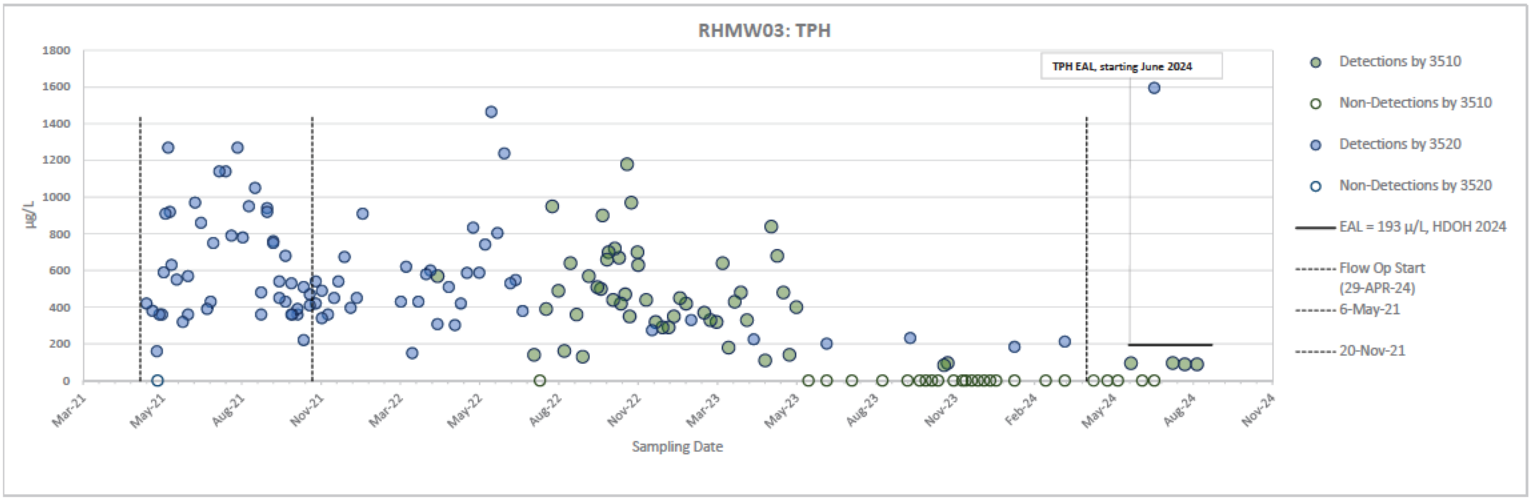
Note: See Data Legend

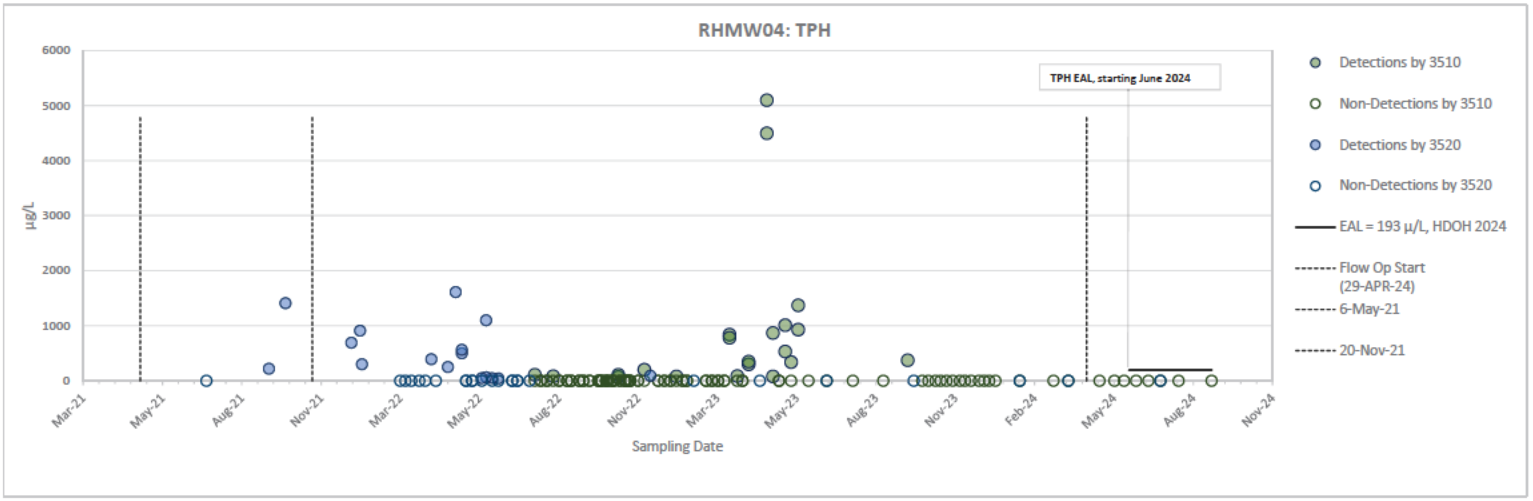


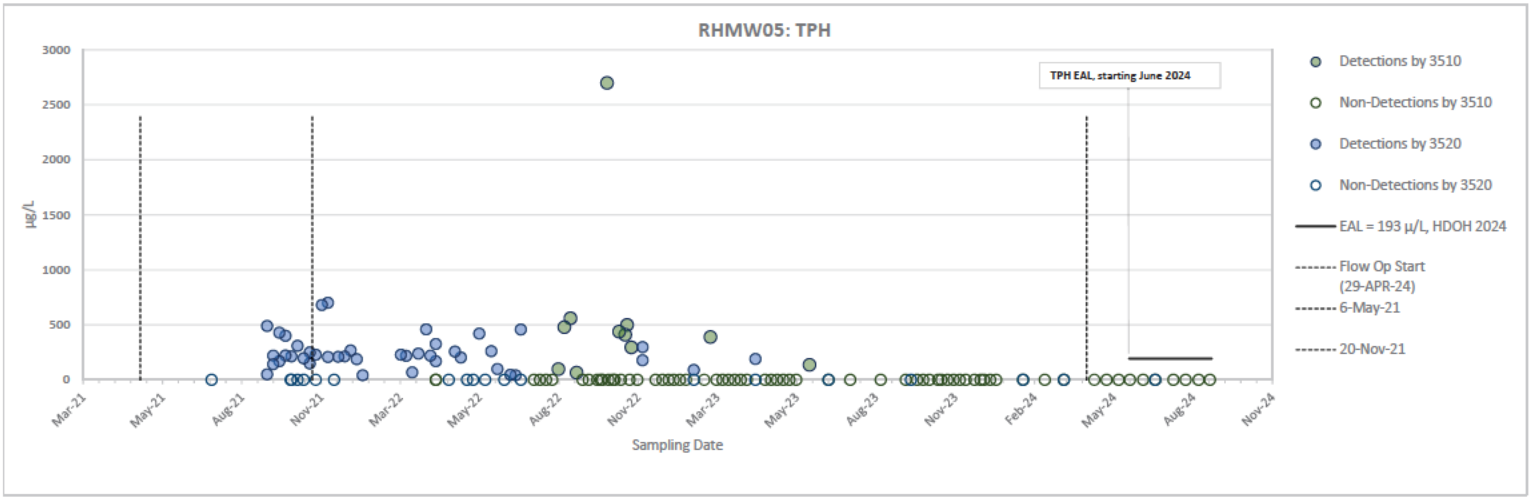




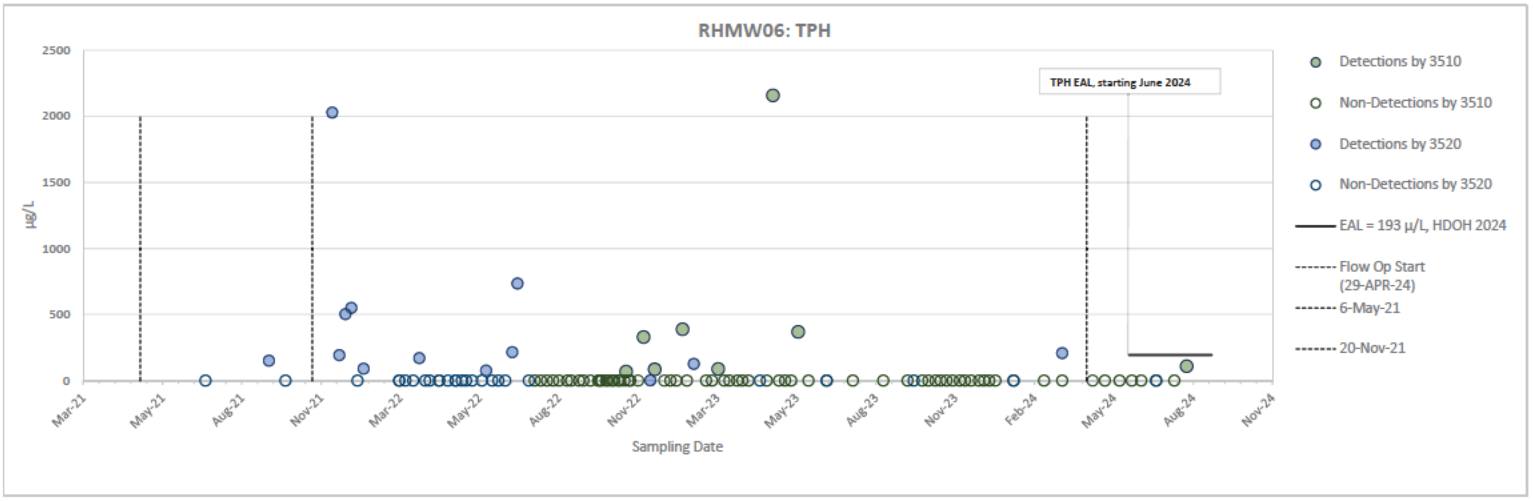
Note: See Data Legend

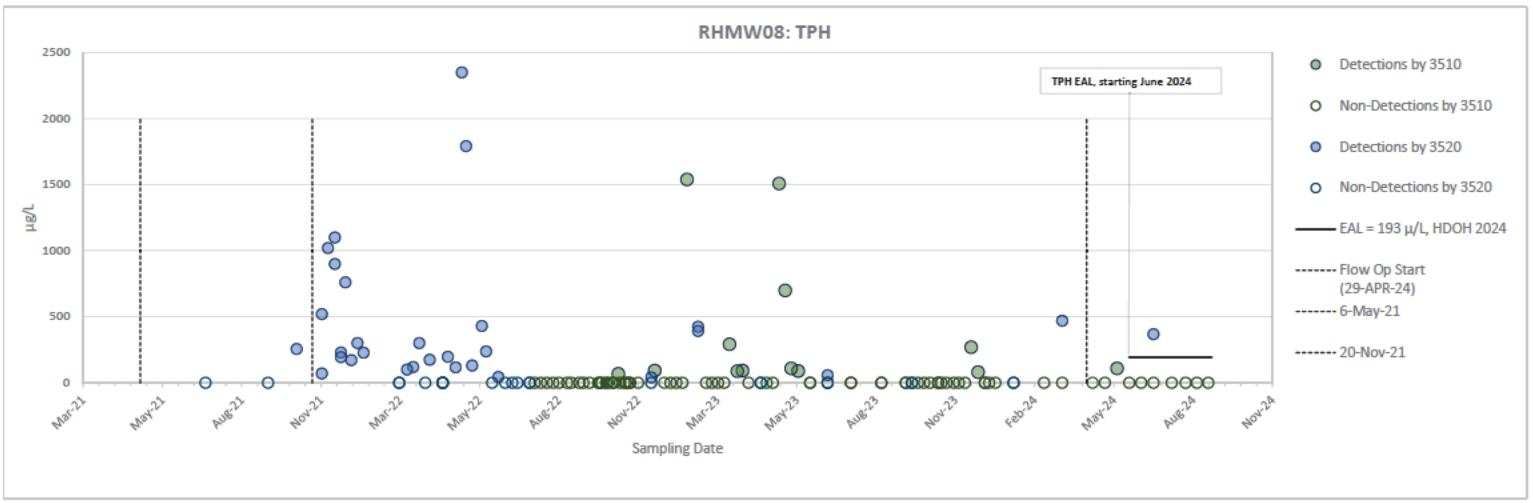


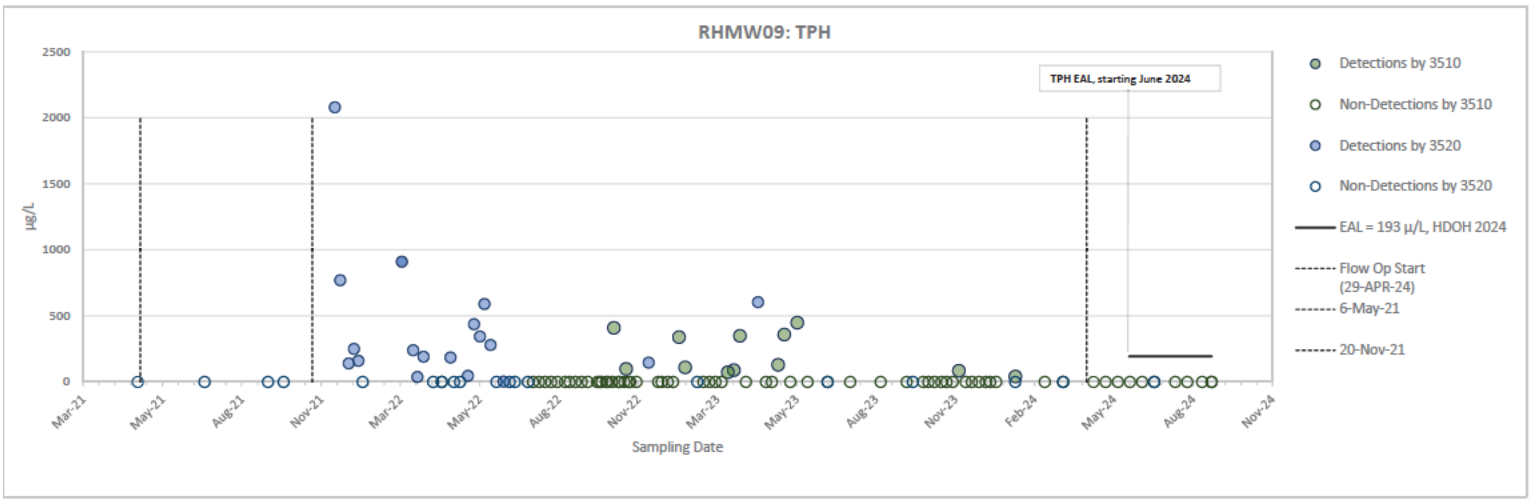




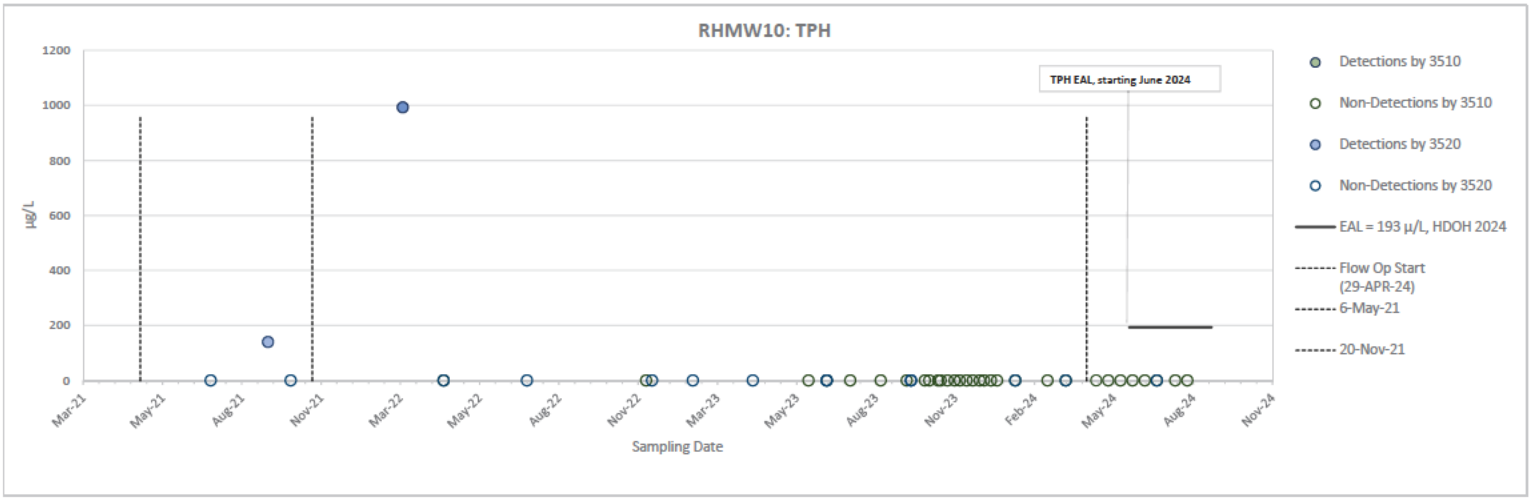
Note: See Data Legend

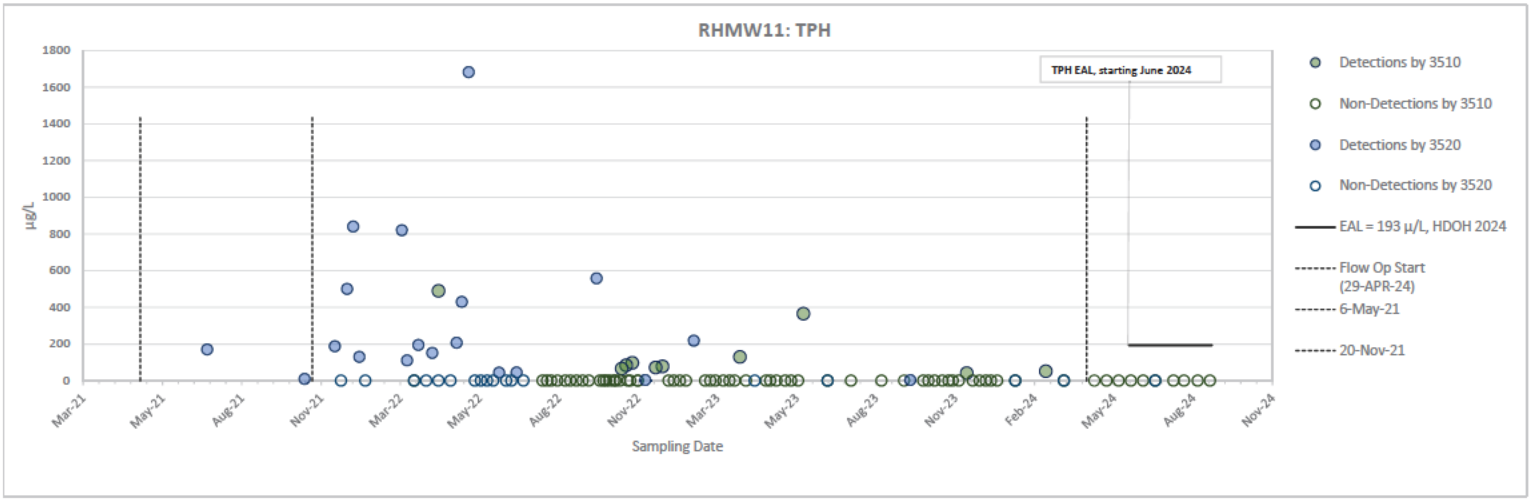


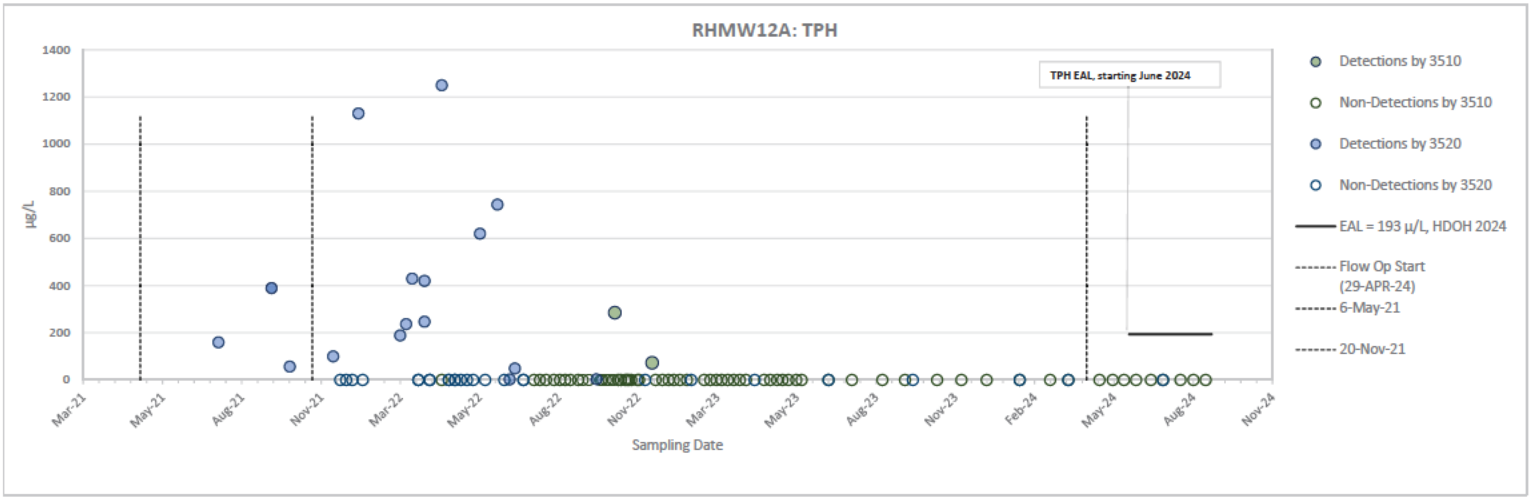




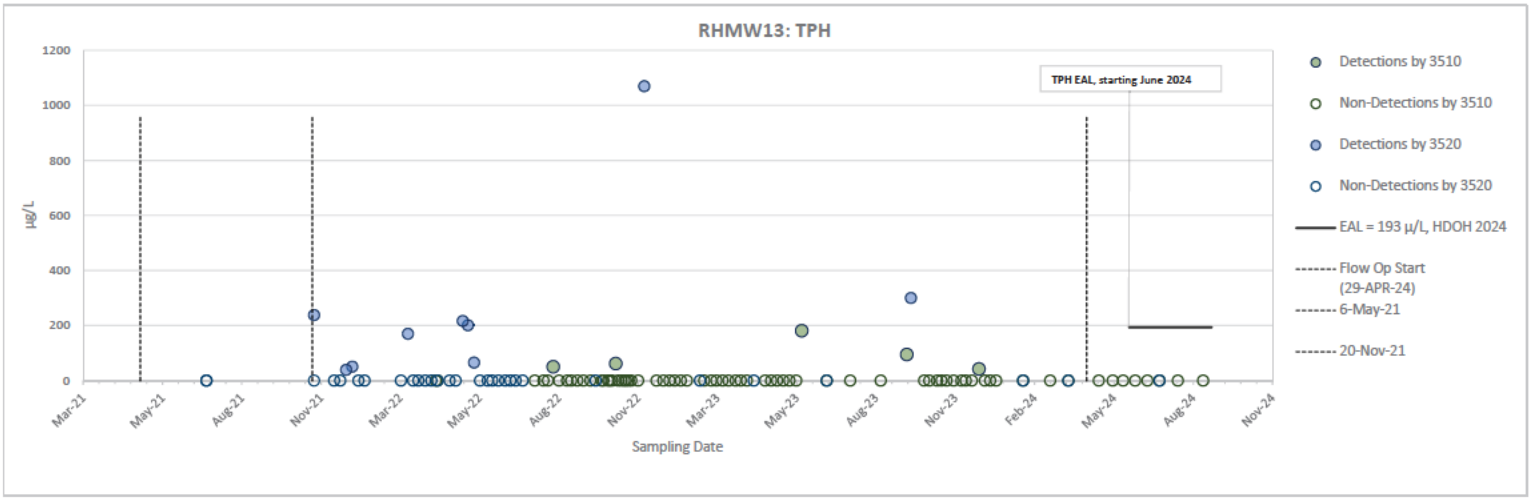
Note: See Data Legend

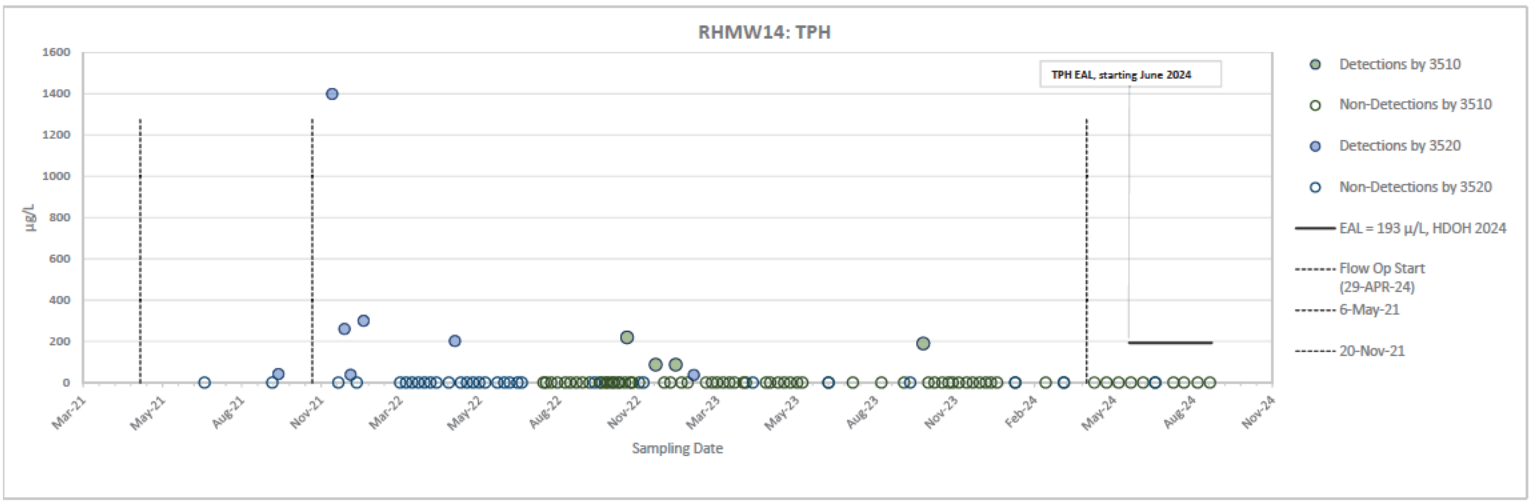


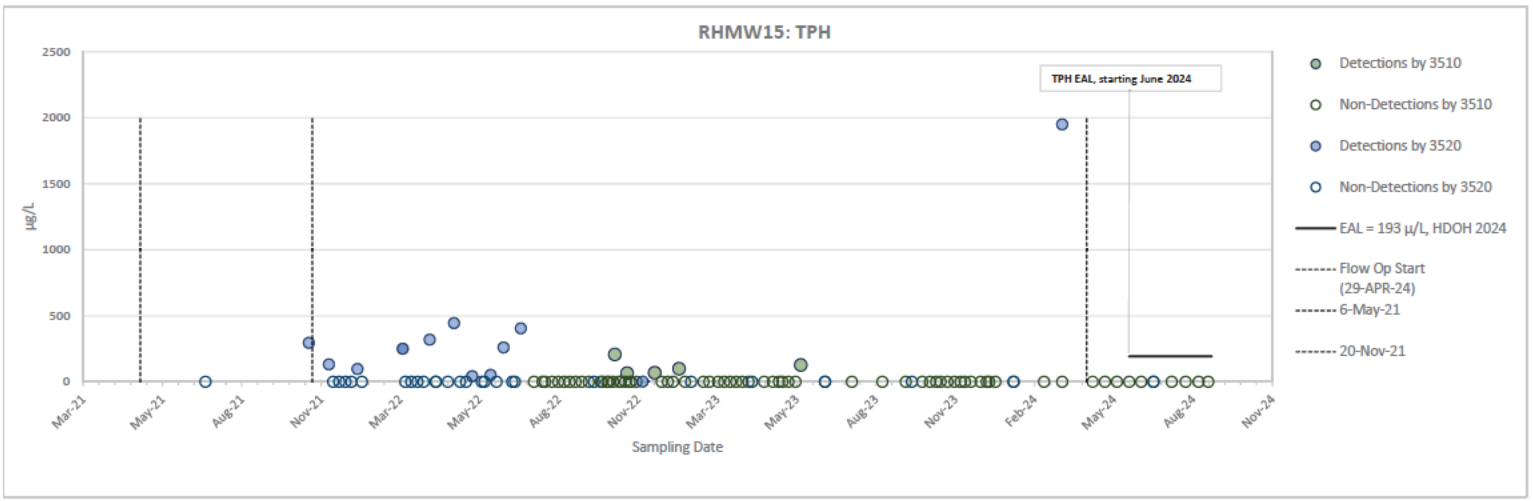




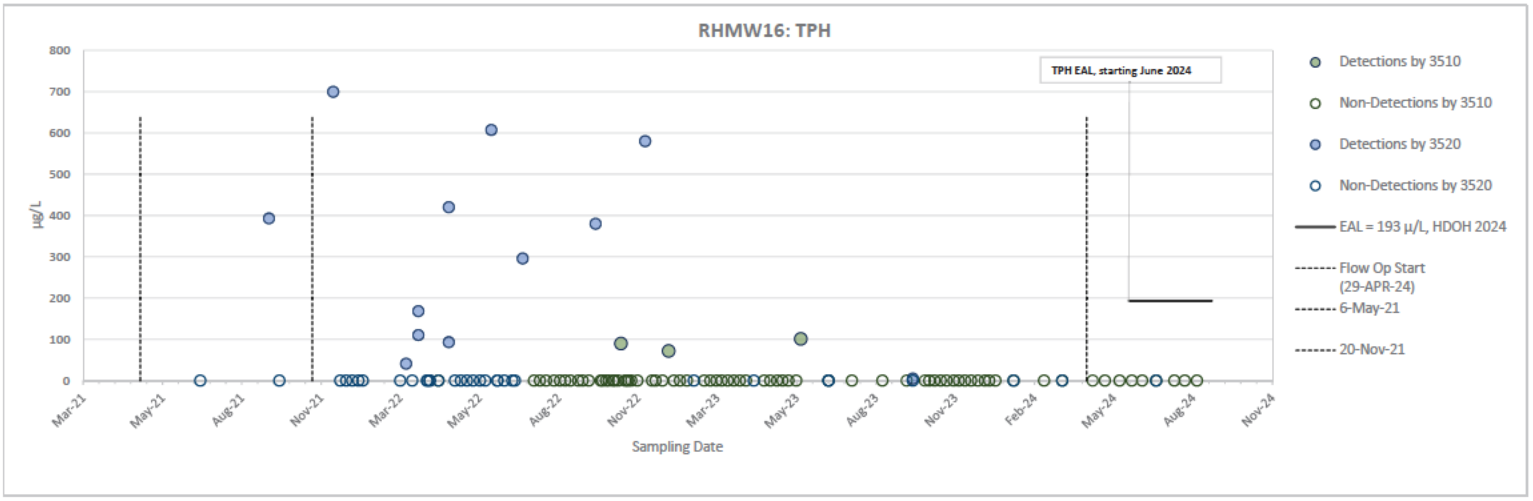
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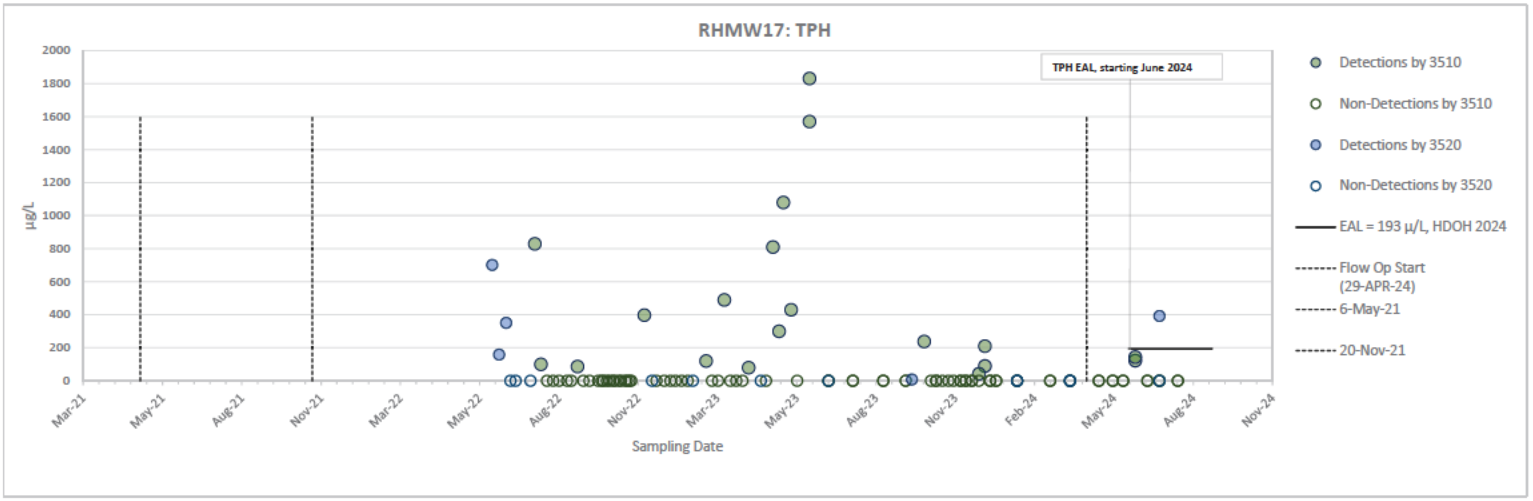


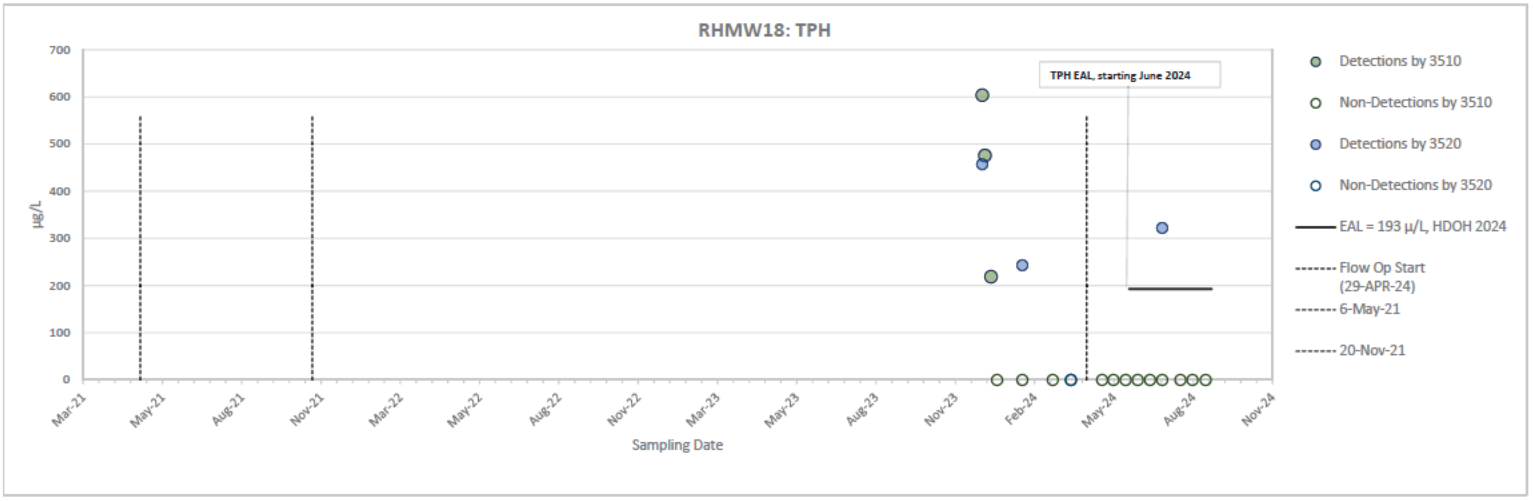




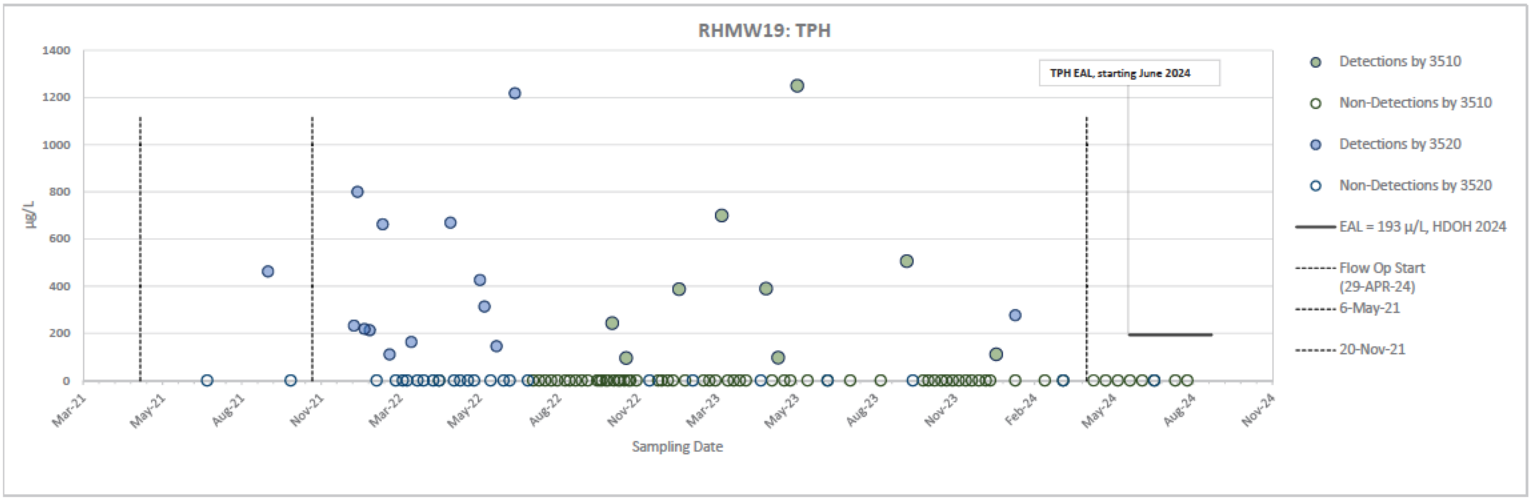
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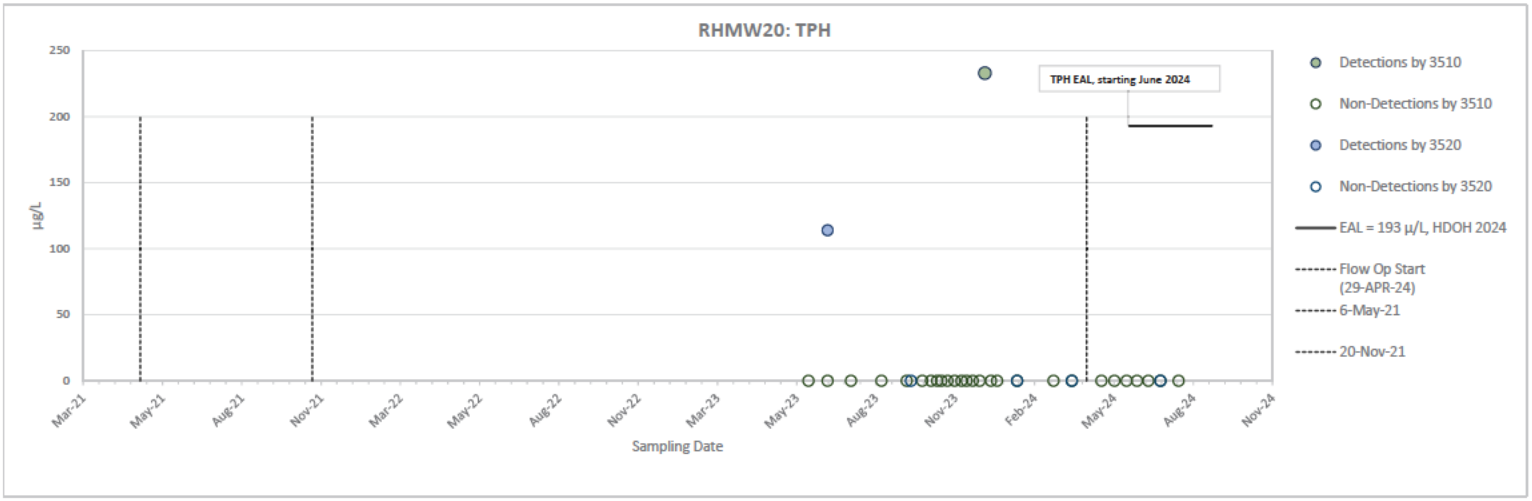


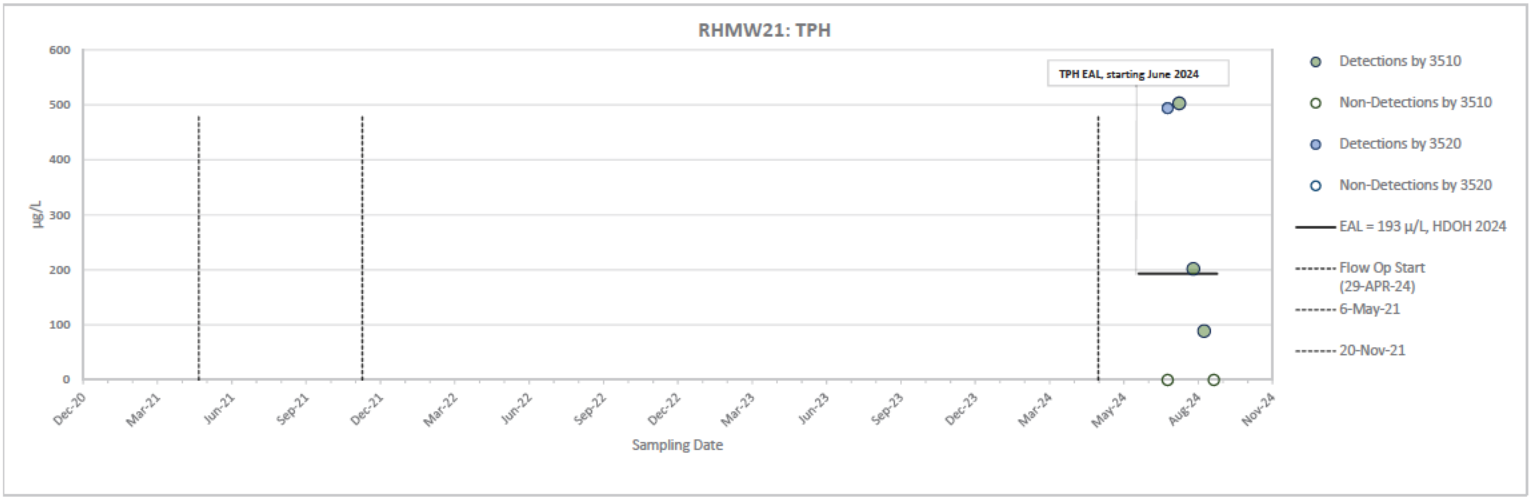




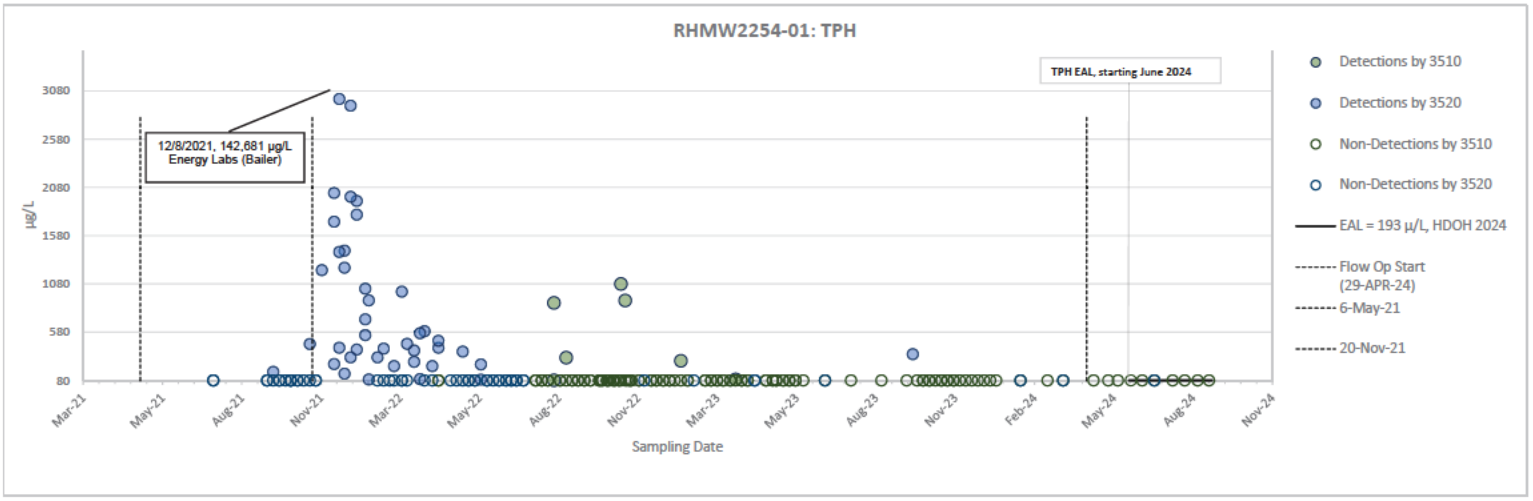
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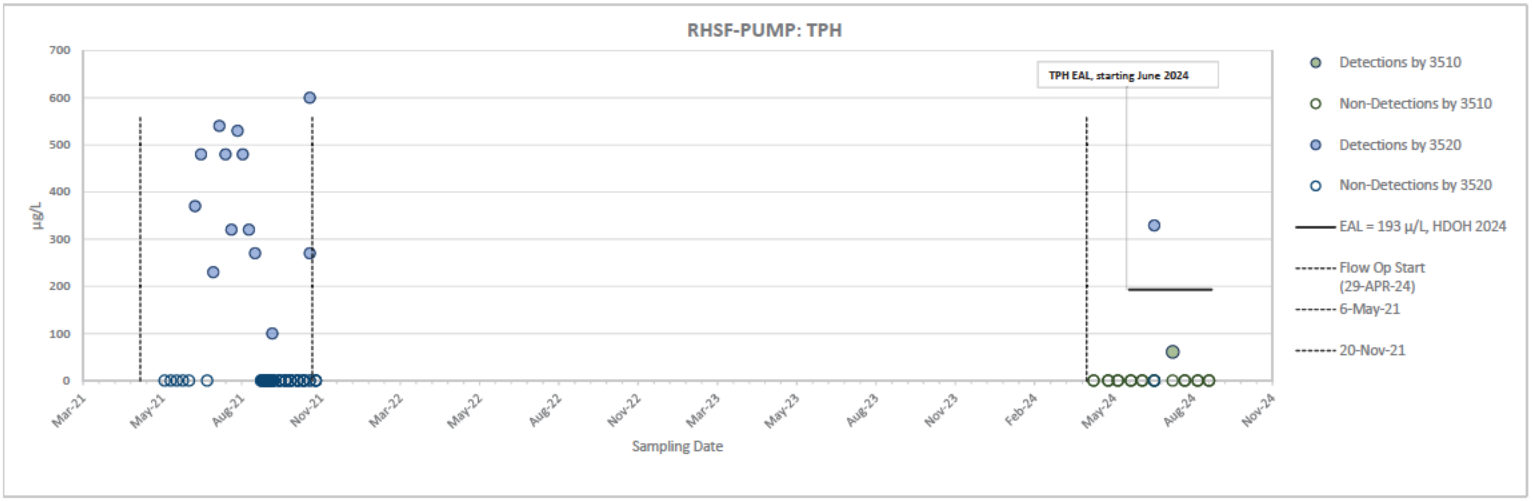


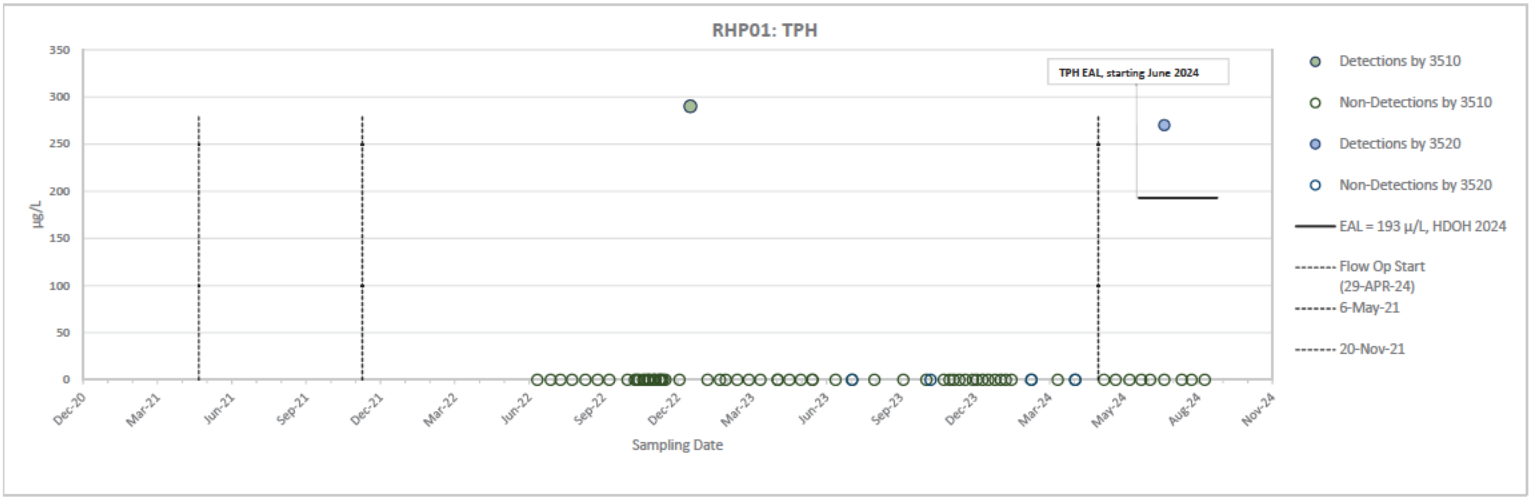




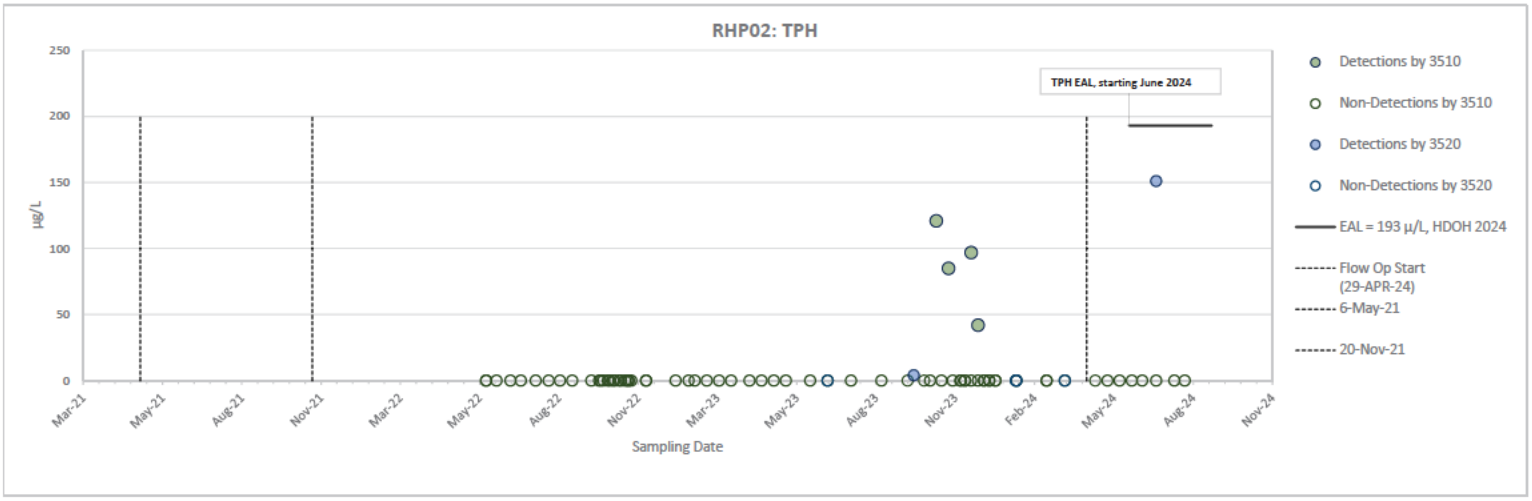
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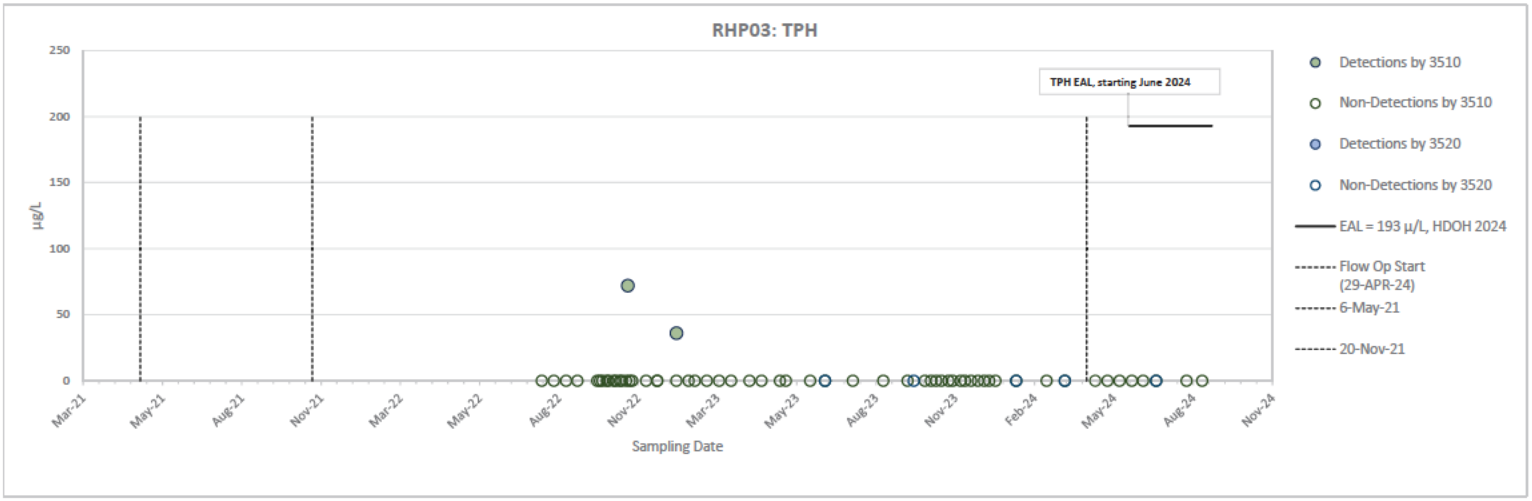


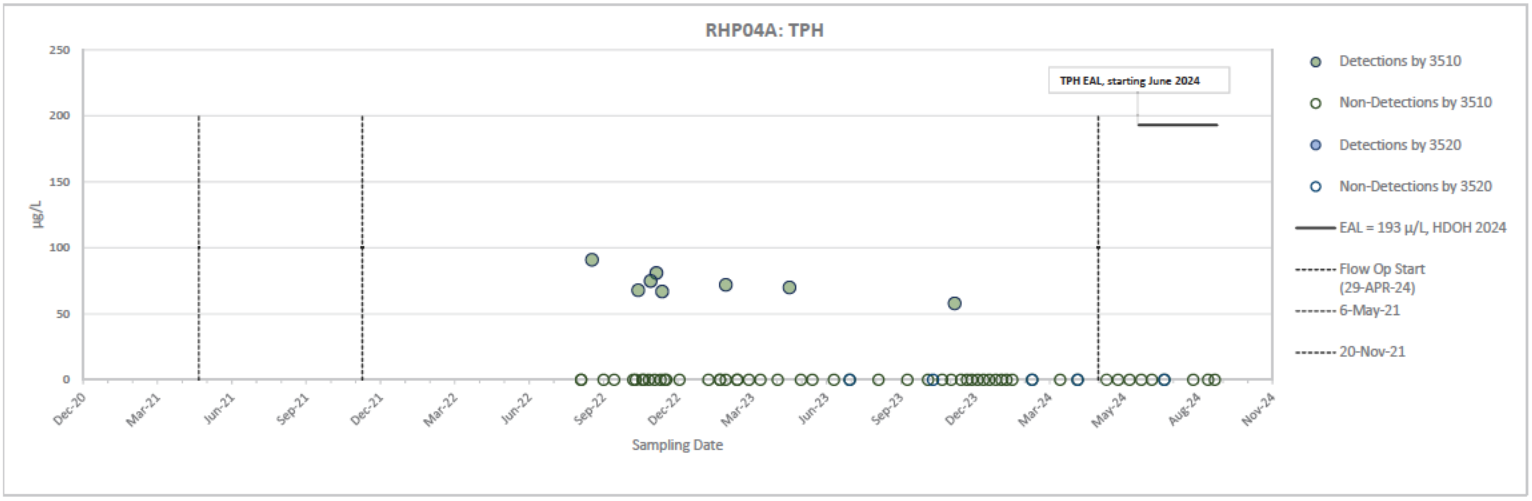




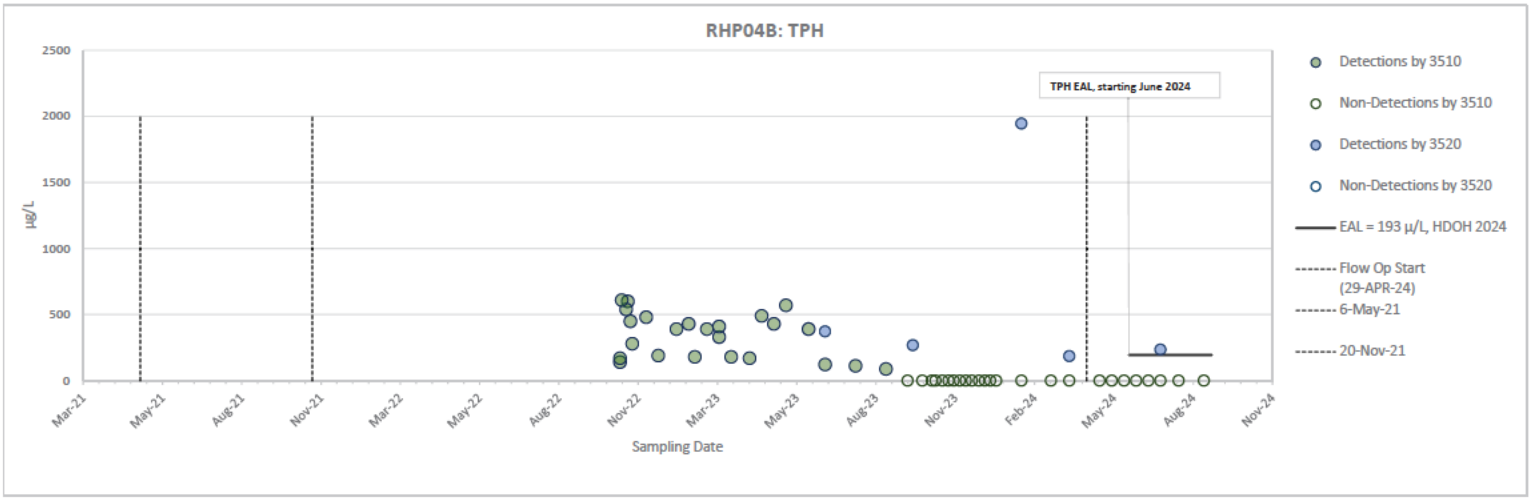
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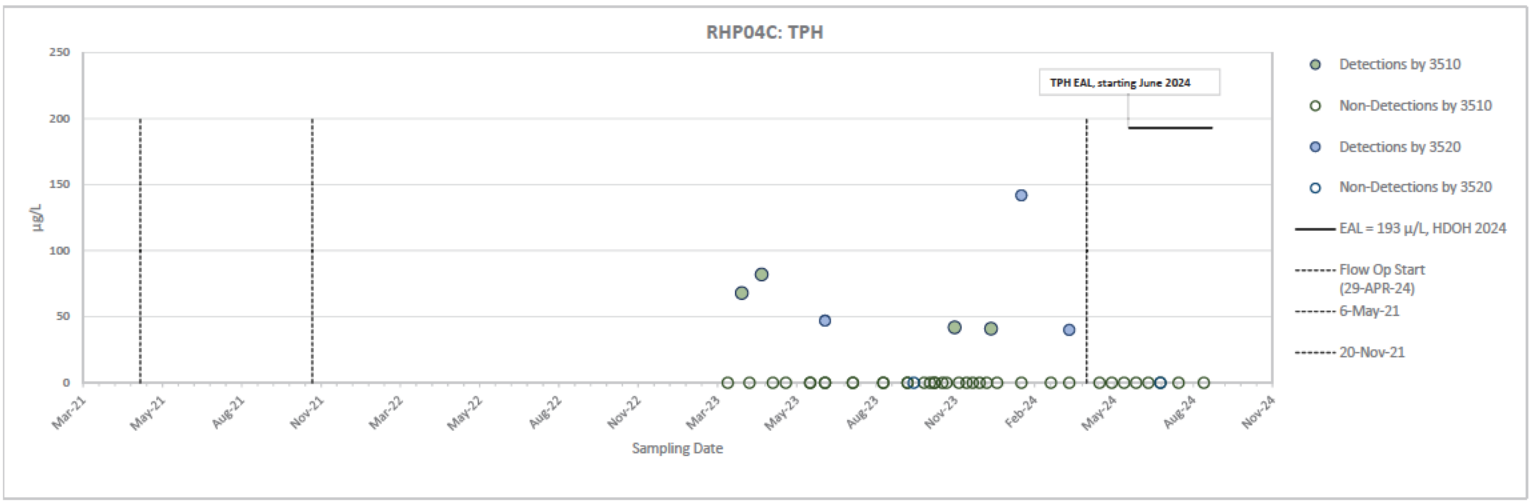


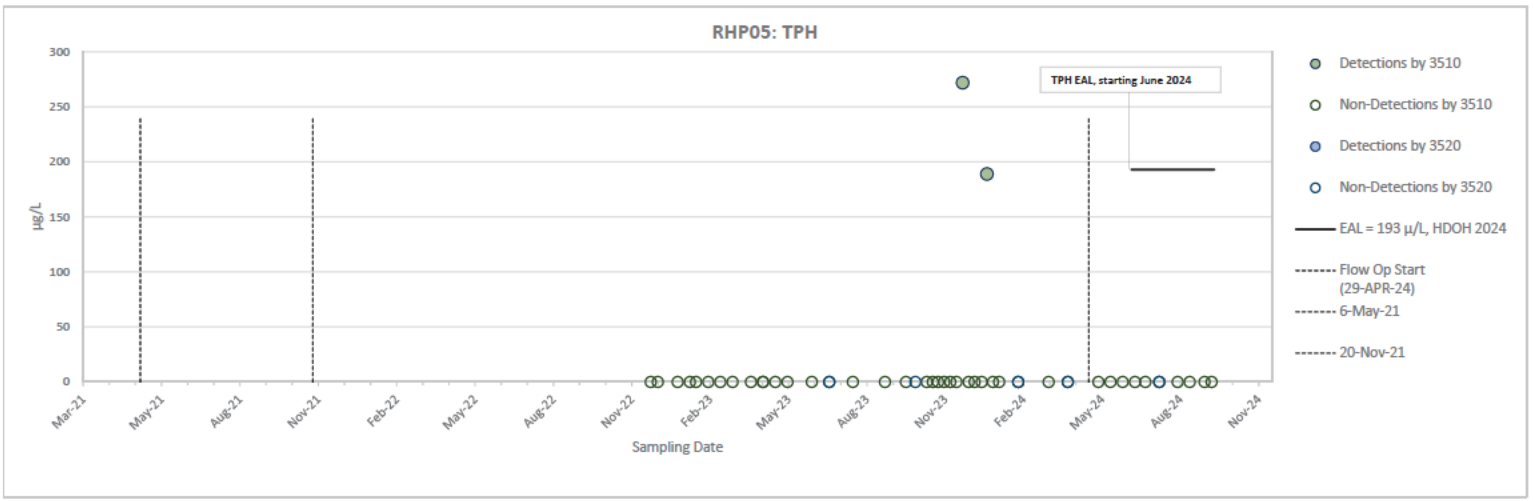




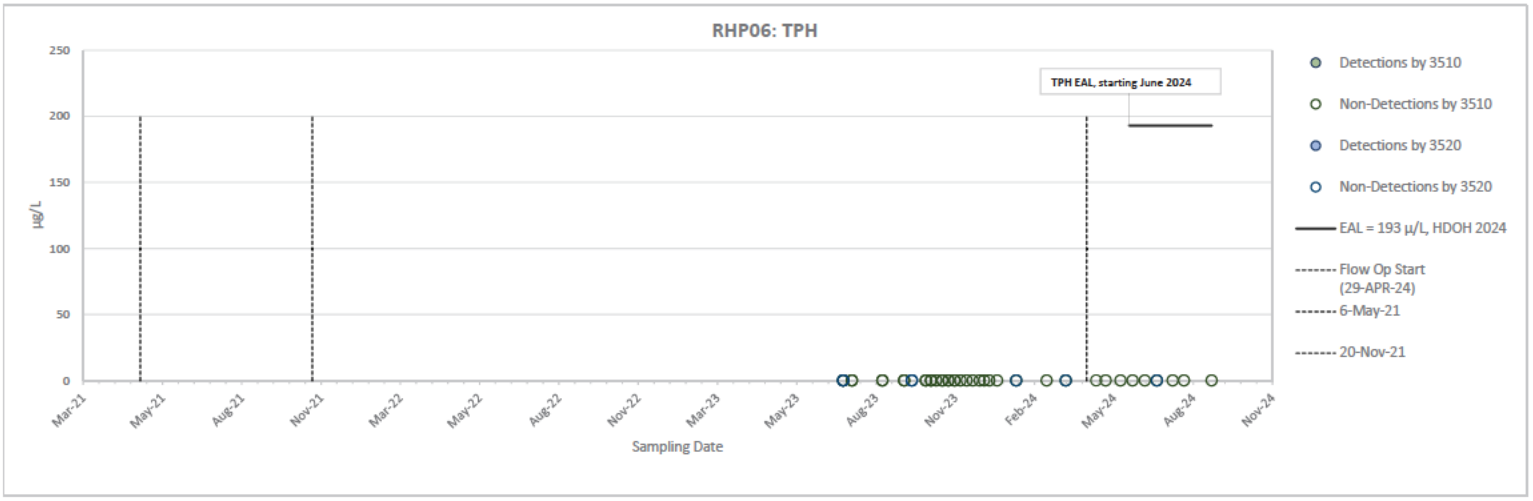
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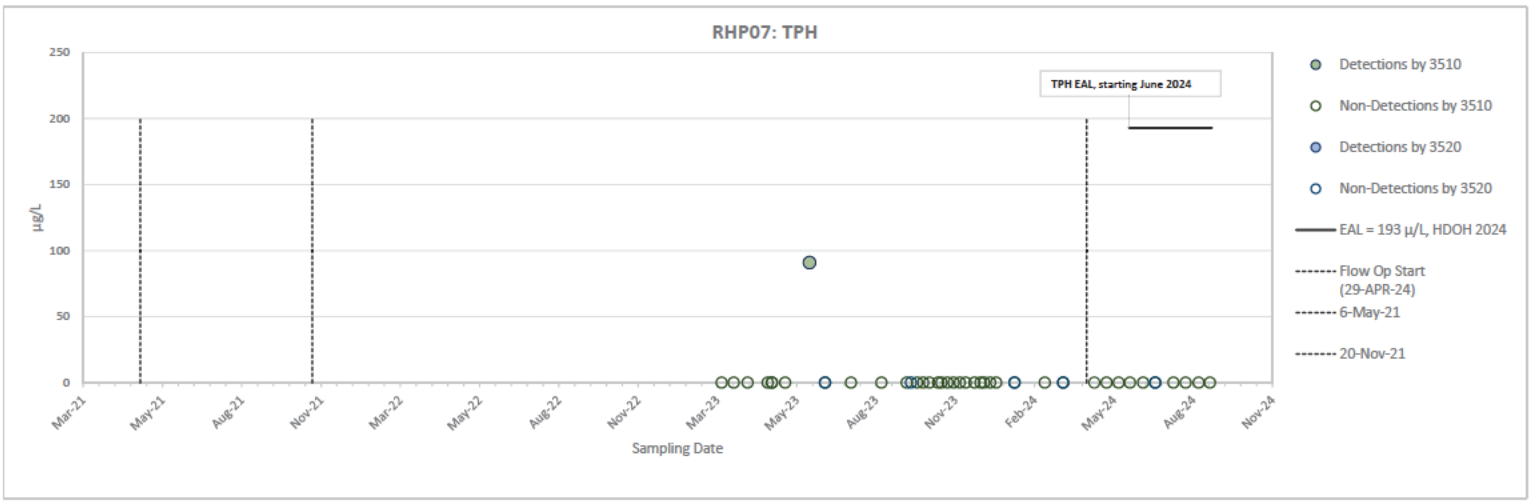


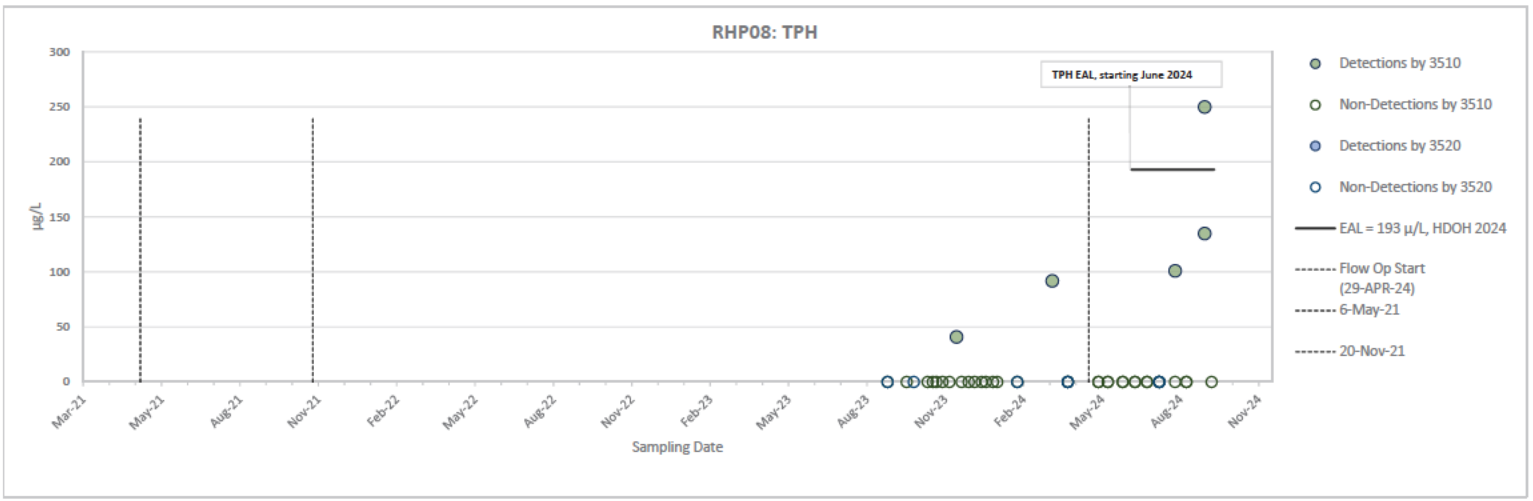




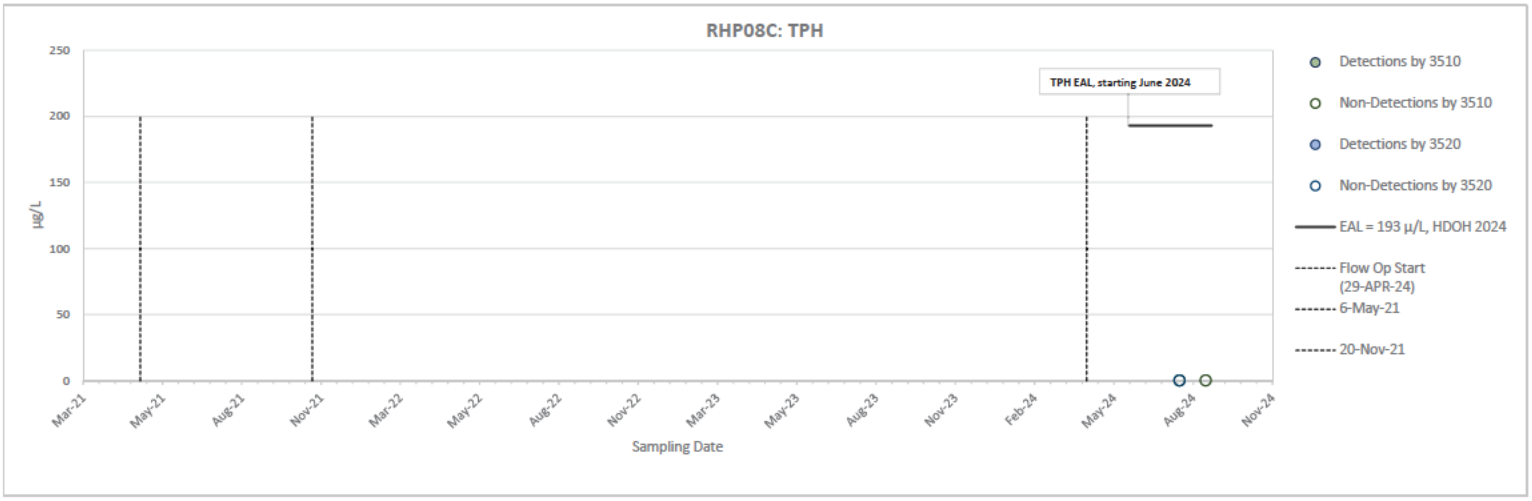
Note: See Data Legend



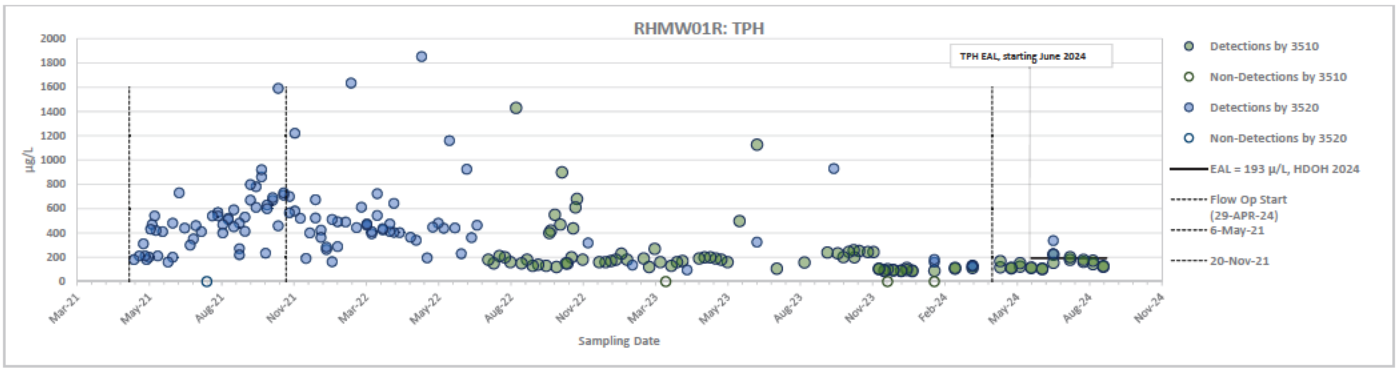


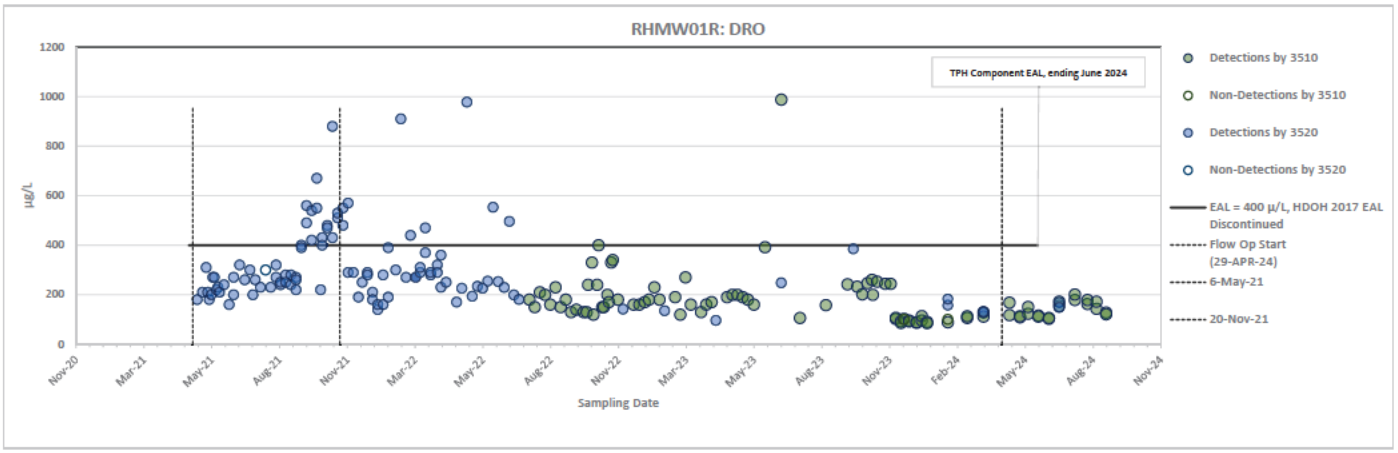


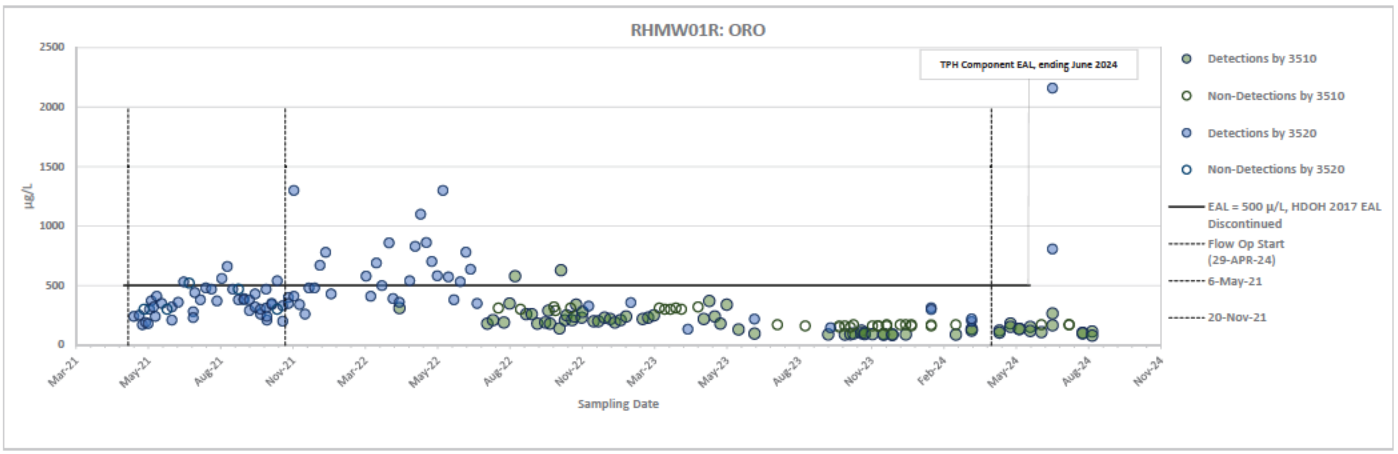
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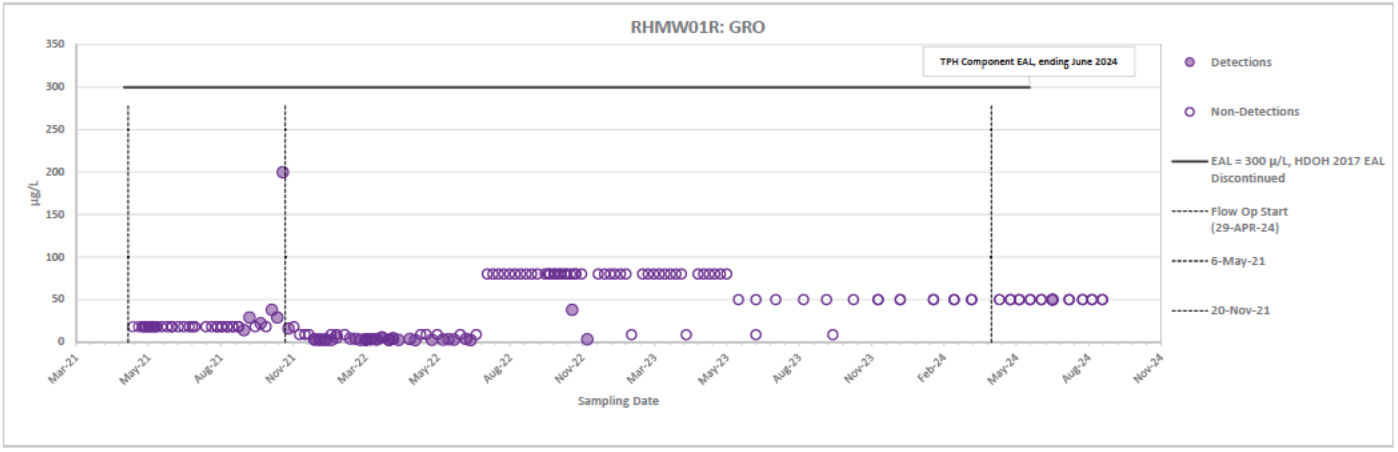


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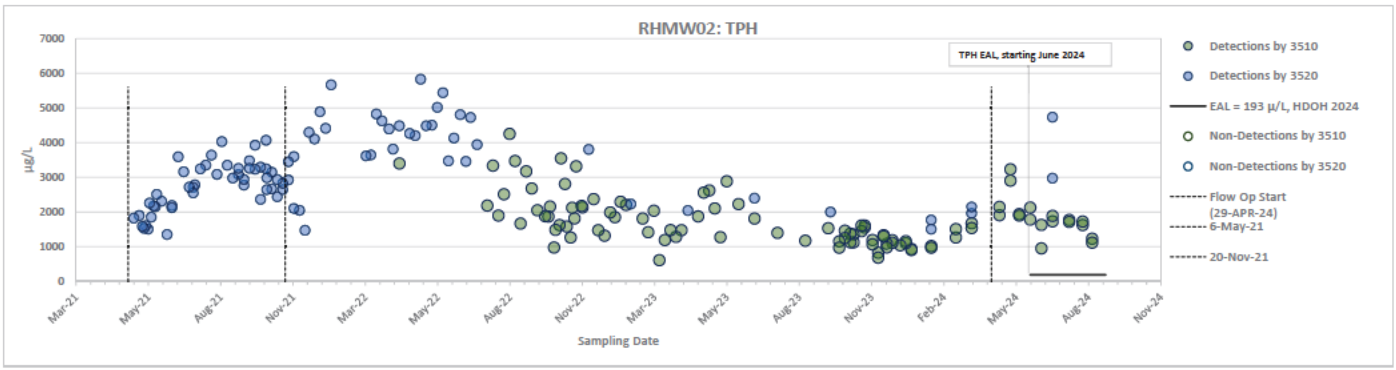


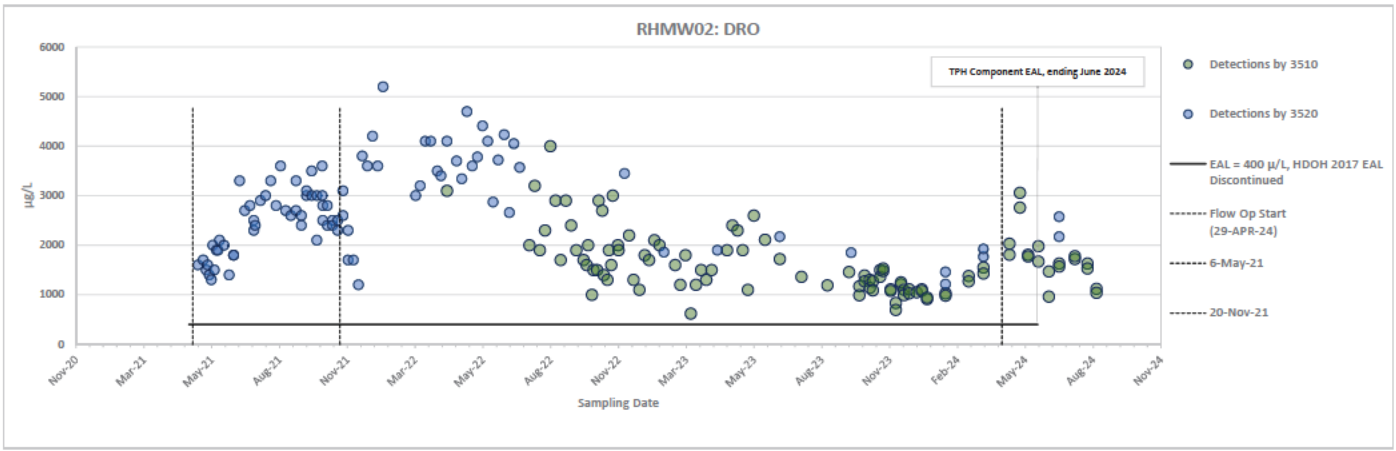


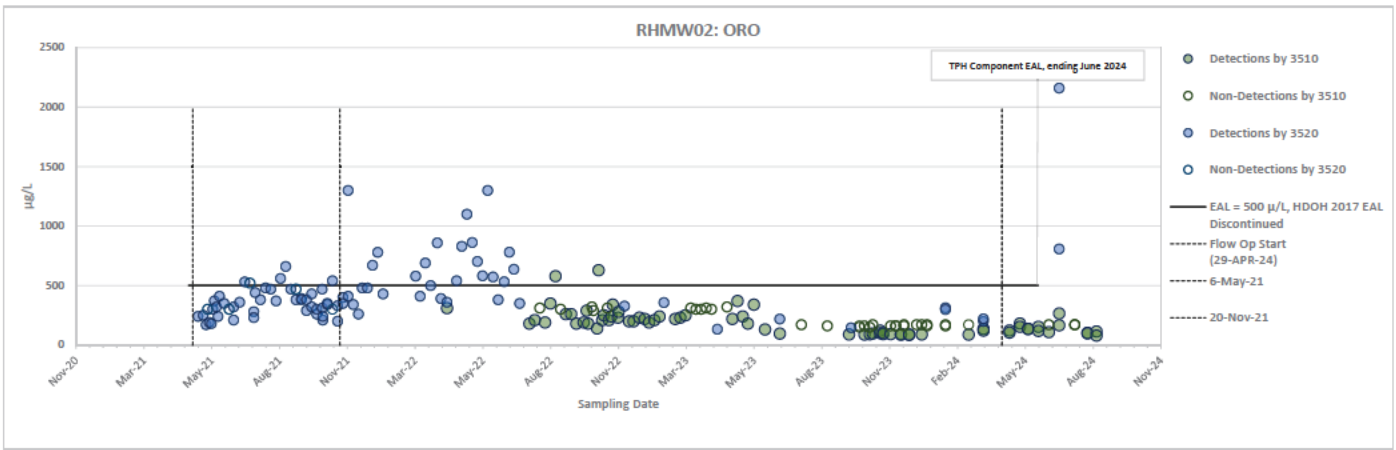


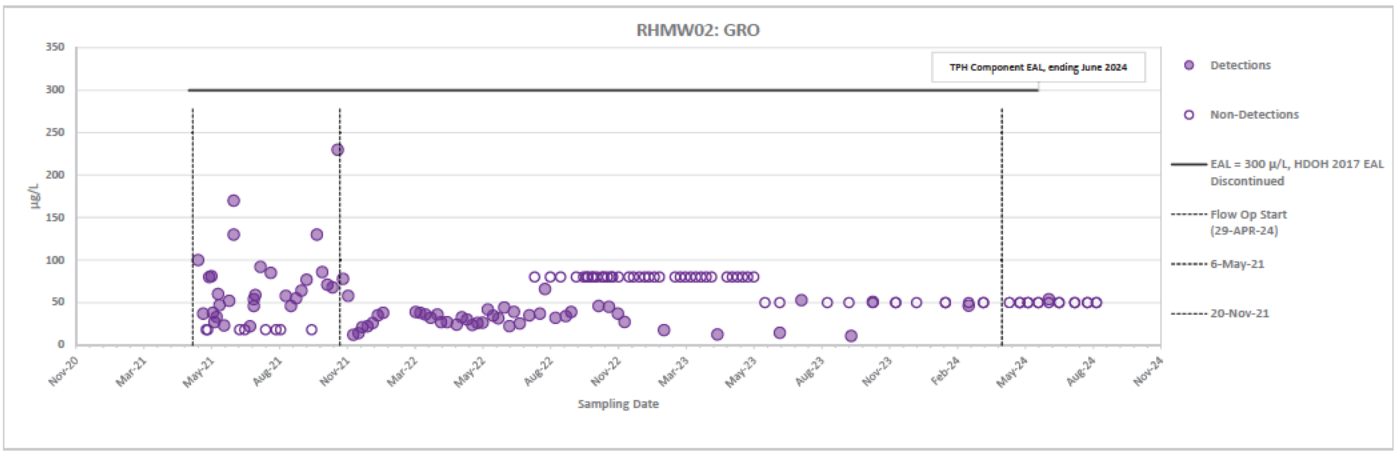


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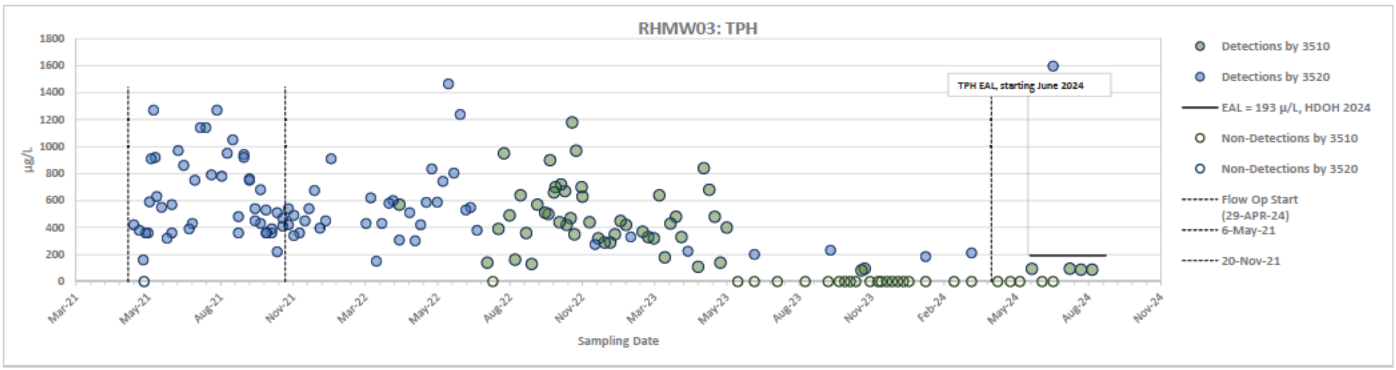


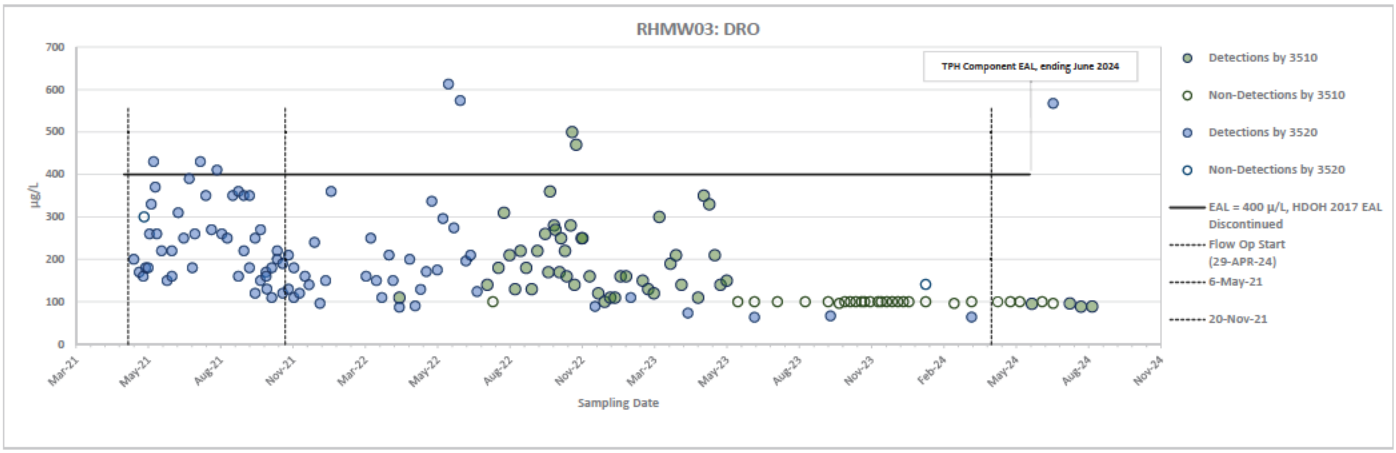


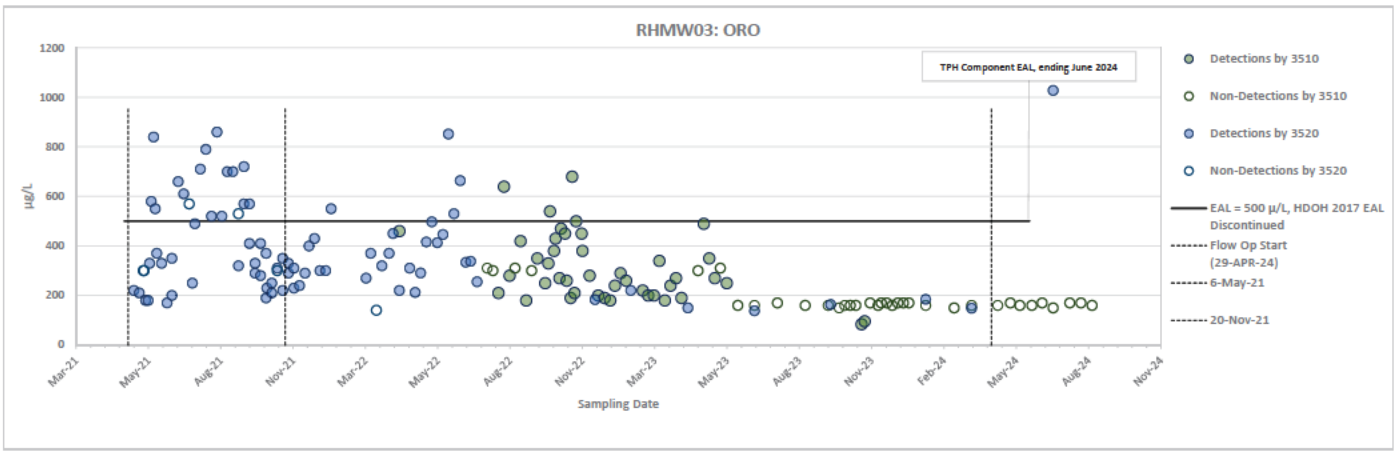


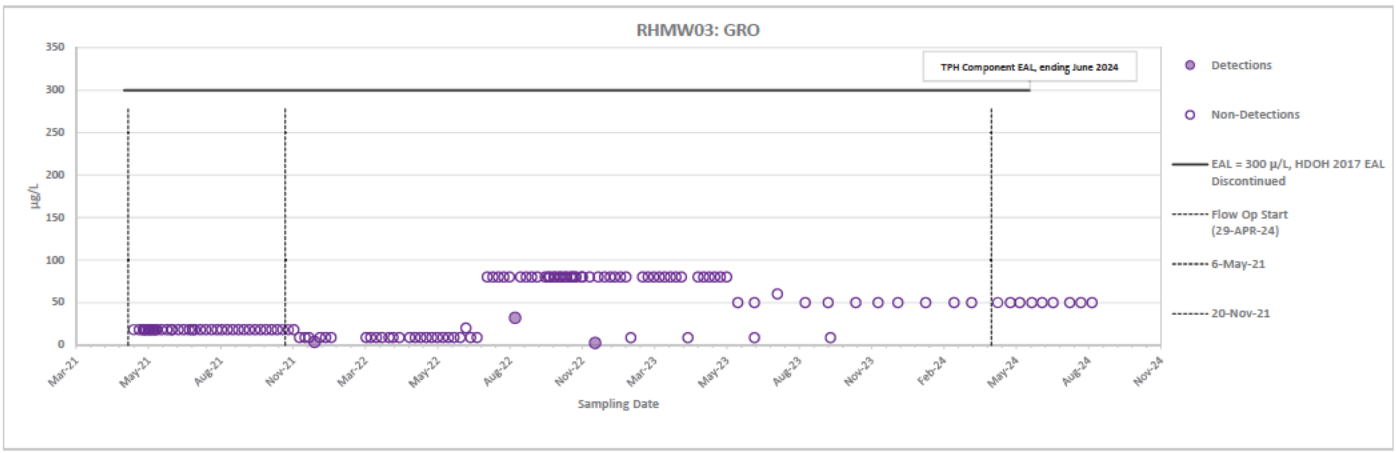


Note: See Data Legend

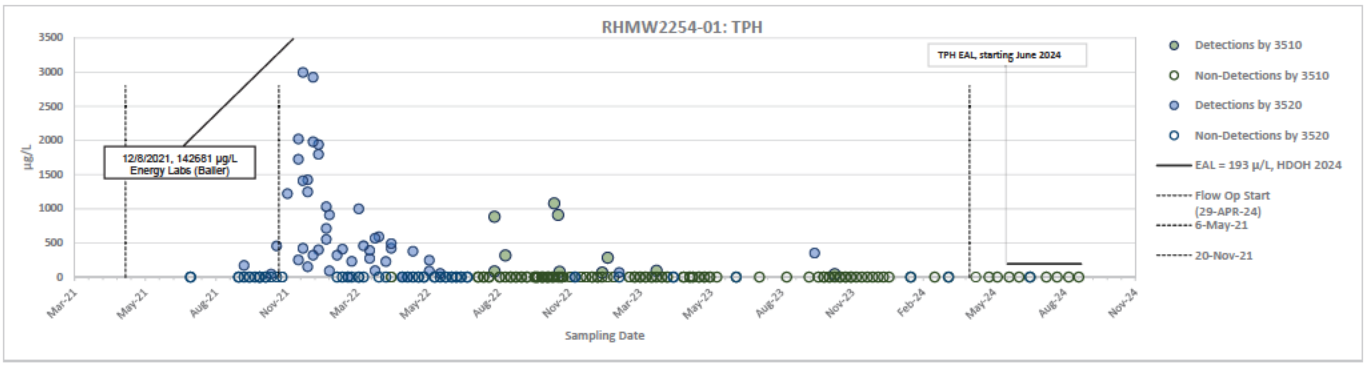


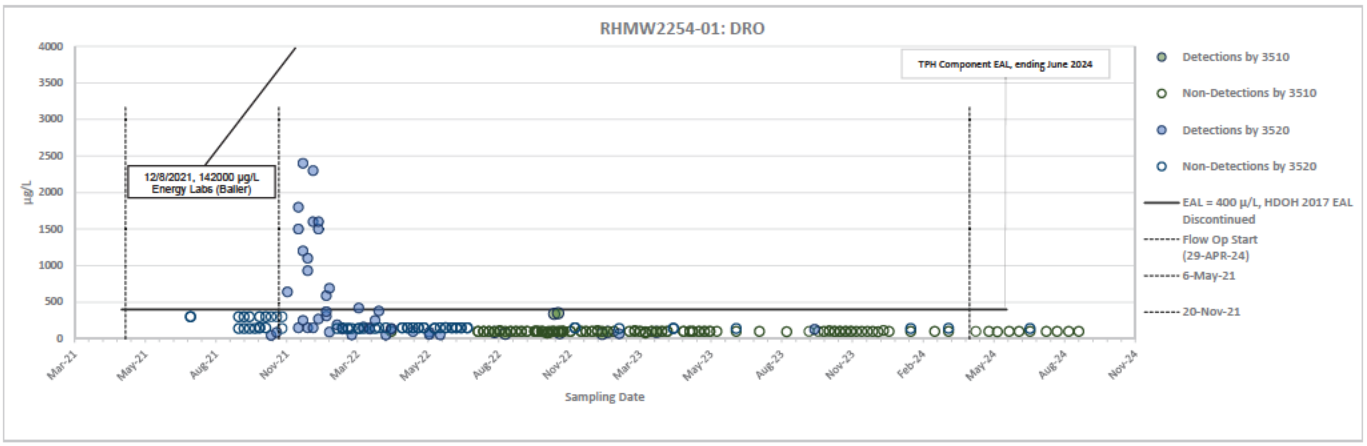


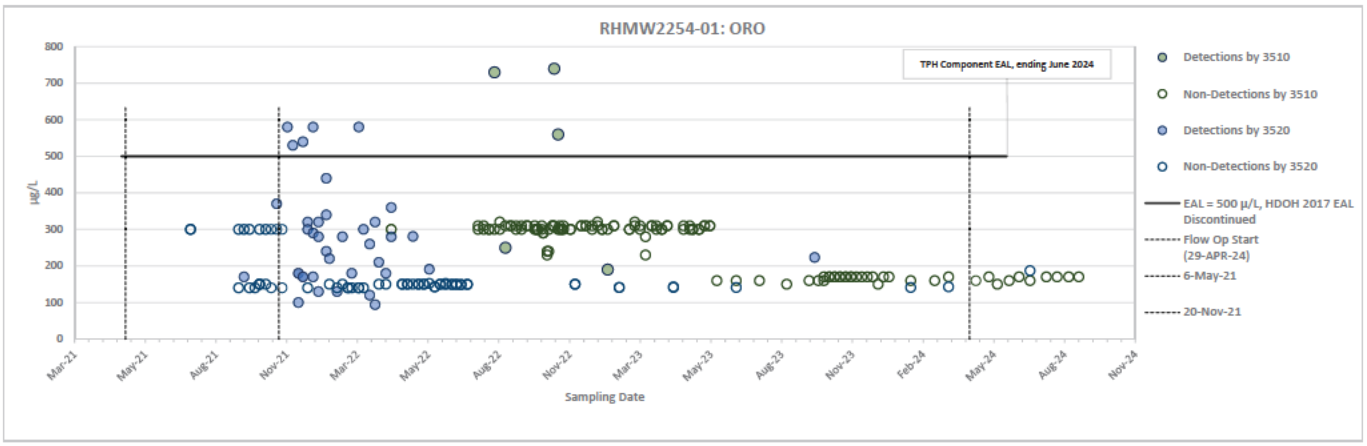


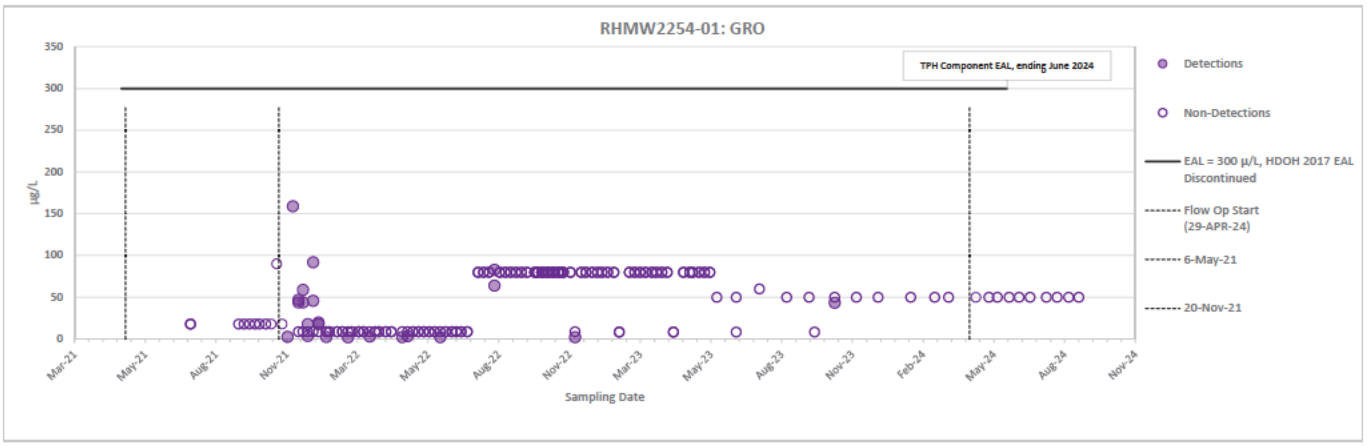


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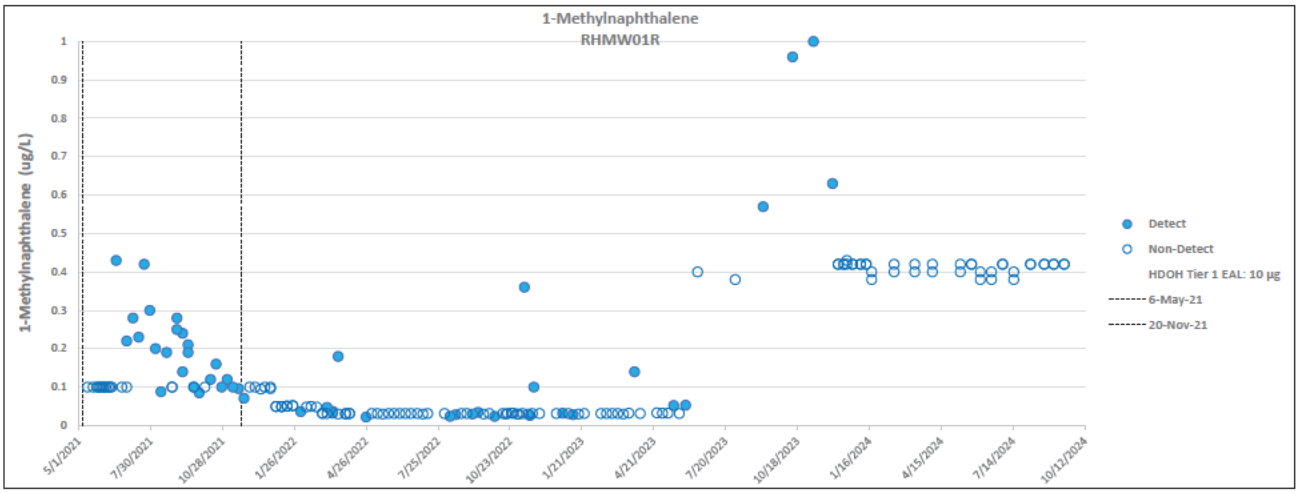


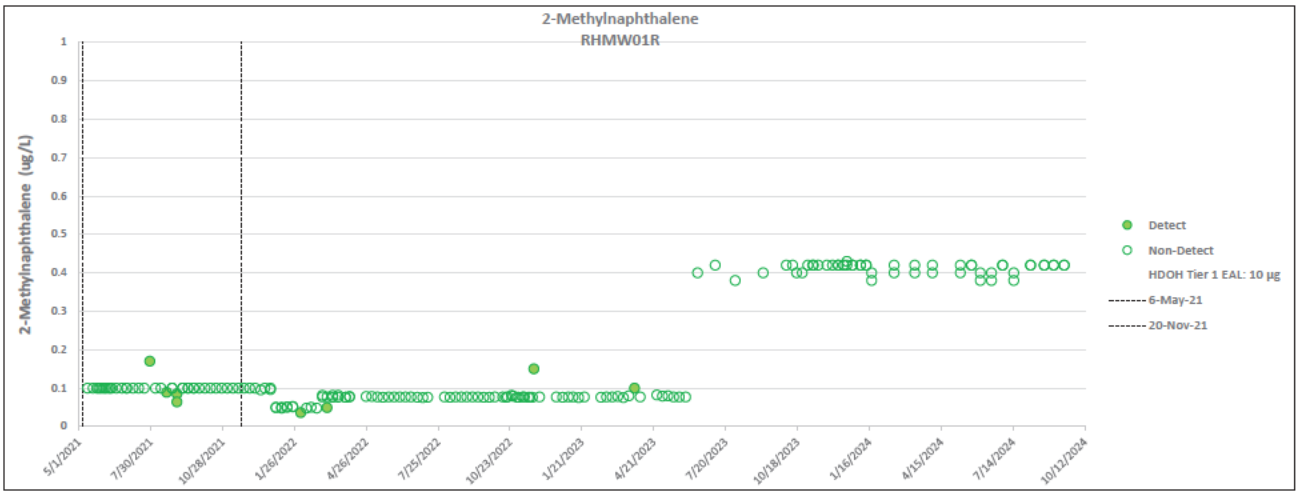


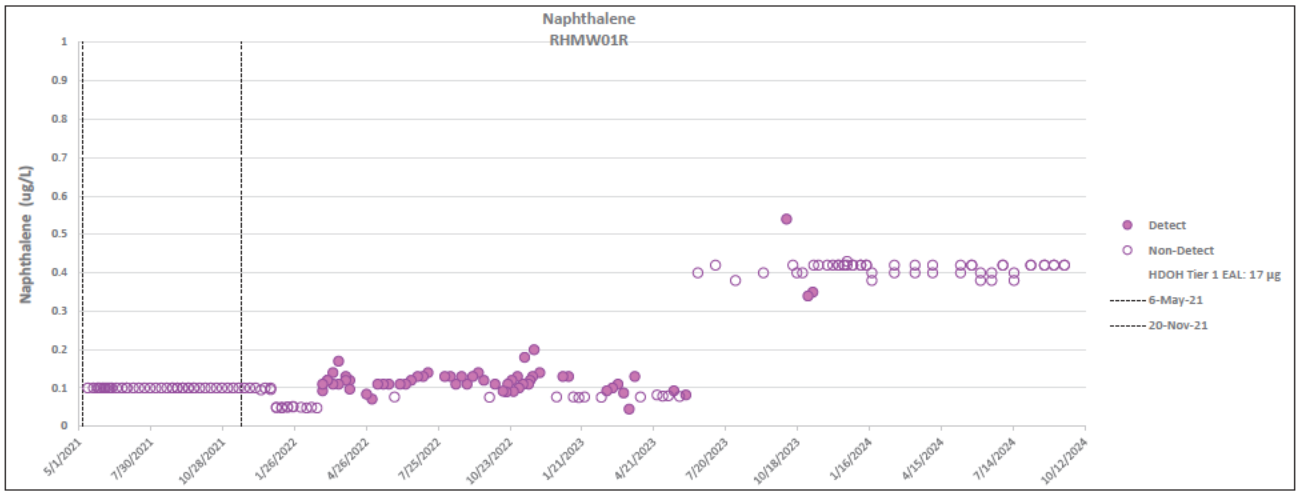


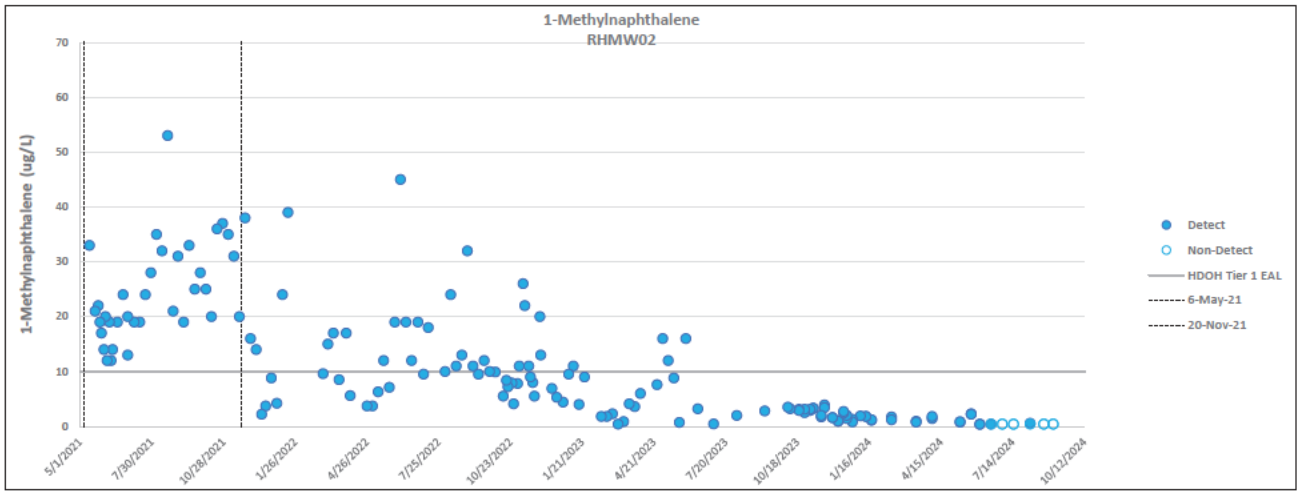


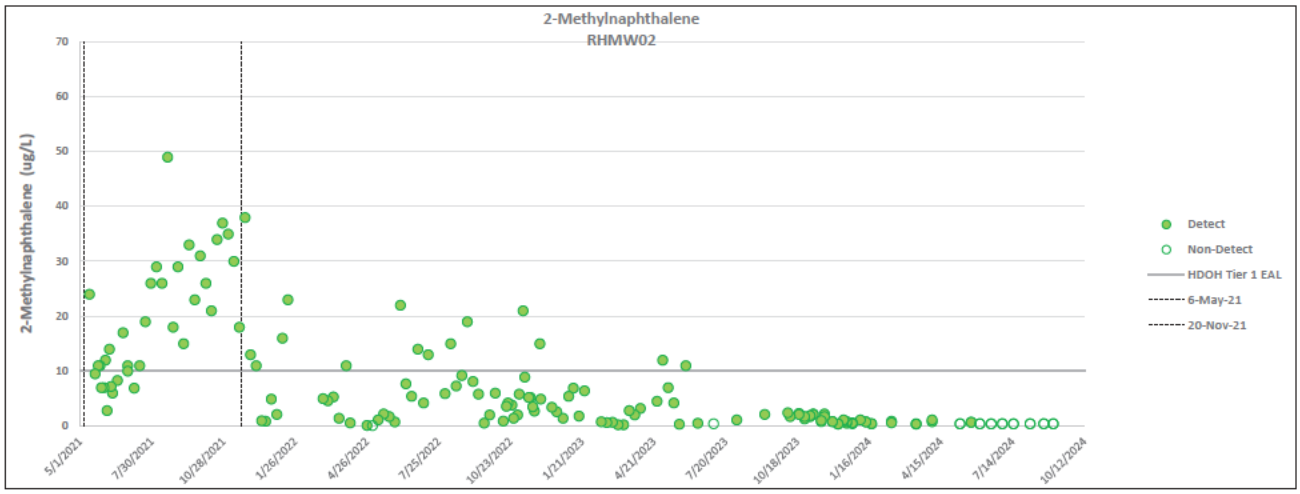
Note: See Data Legend

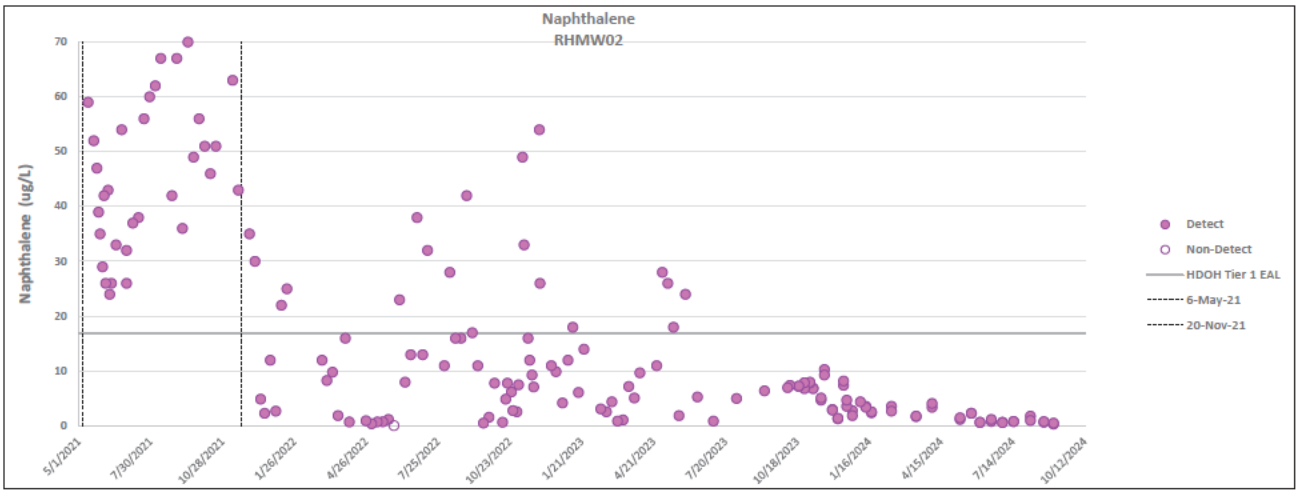

1-Methylnaphthalene
RHMW01R
1-Methylnaphthalene (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL: 10 µg
6-May-21
20-Nov-21


2-Methylnaphthalene
RHMW01R
2-Methylnaphthalene (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL: 10 µg
6-May-21
20-Nov-21


Naphthalene
RHMW01R
Naphthalene (ug/L)
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL: 17 µg
6-May-21
20-Nov-21


1-Methylnaphthalene
RHMW02
1-Methylnaphthalene (ug/L)
70
60
50
40
30
20
10
0
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21


2-Methylnaphthalene
RHMW02
2-Methylnaphthalene (ug/L)
70
60
50
40
30
20
10
0
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21


Naphthalene
RHMW02
Naphthalene (ug/L)
70
60
50
40
30
20
10
0
5/1/2021
7/30/2021
10/28/2021
1/26/2022
4/26/2022
7/25/2022
10/23/2022
1/21/2023
4/21/2023
7/20/2023
10/18/2023
1/16/2024
4/15/2024
7/14/2024
10/12/2024
Detect
Non-Detect
HDOH Tier 1 EAL
6-May-21
20-Nov-21

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

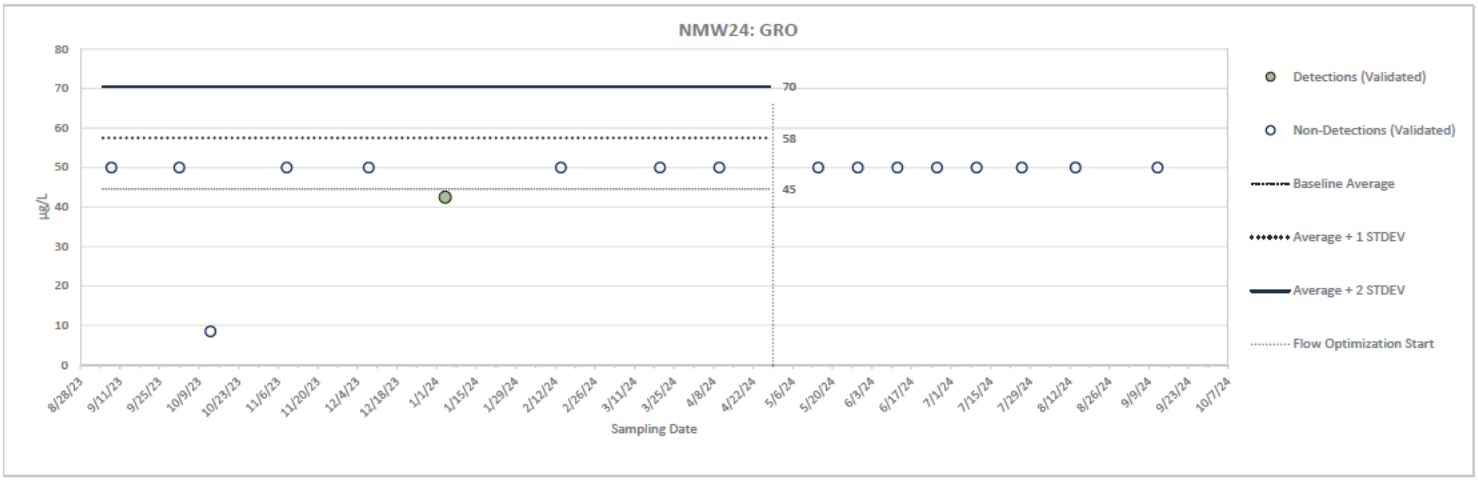
N – Normal Sample

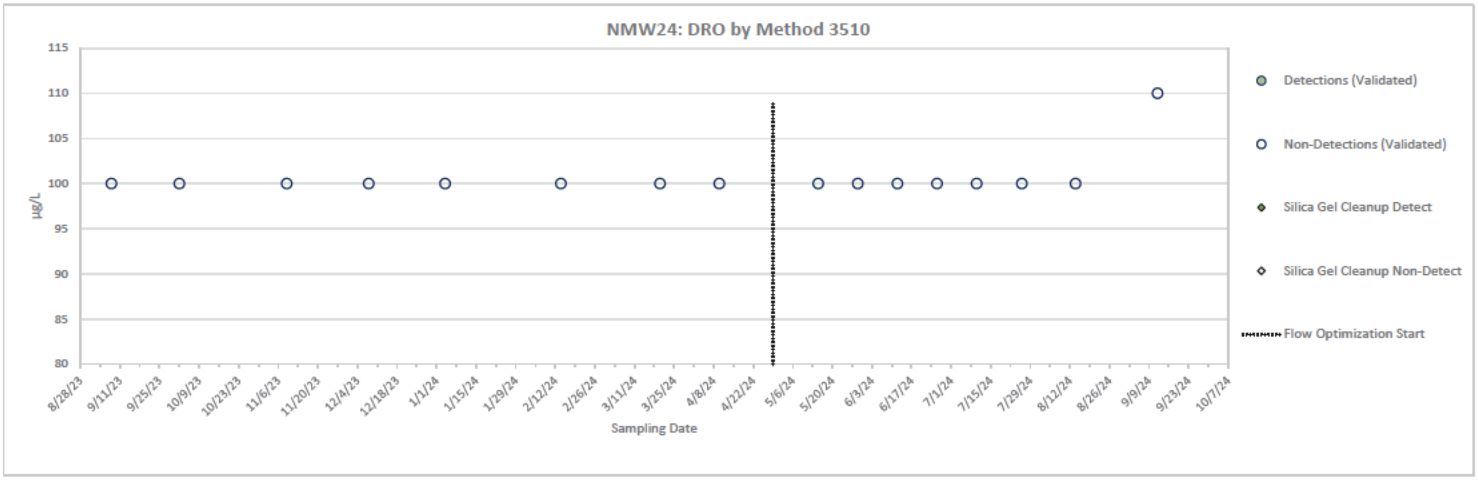
FD – Field Duplicate

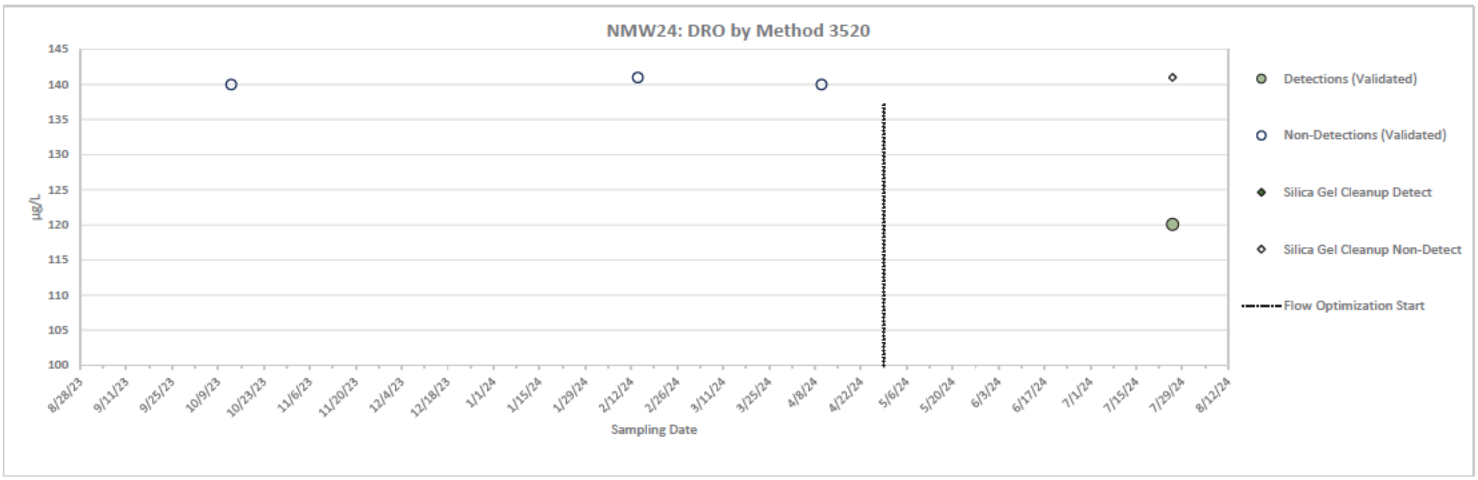
SGC – Silica Gel Cleanup

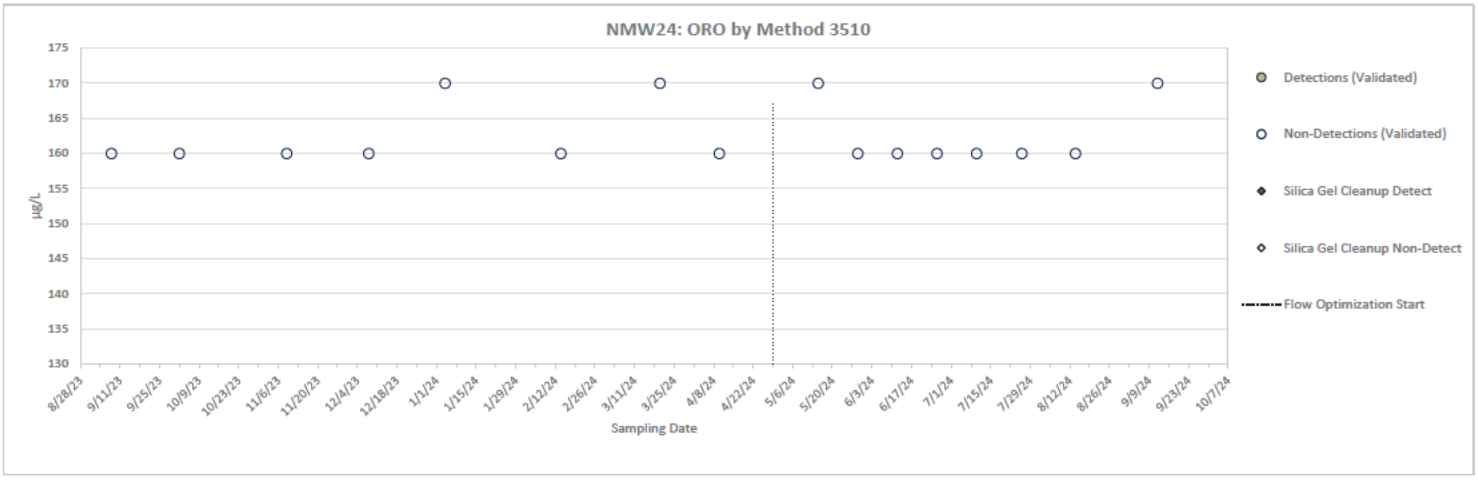
Units

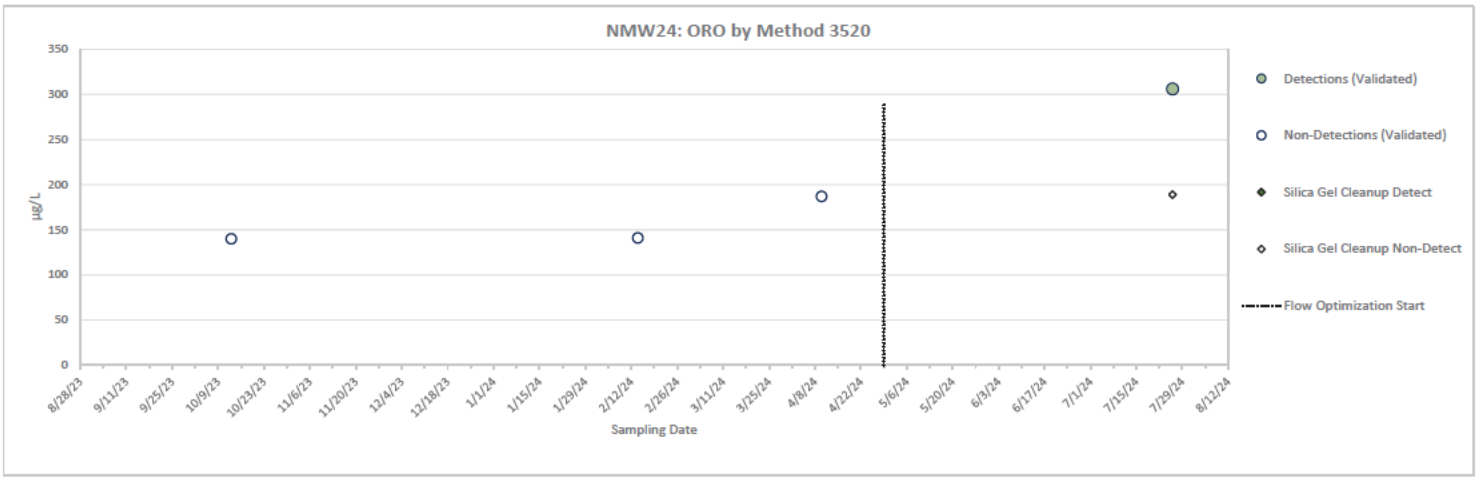
µg/L – Micrograms per Liter

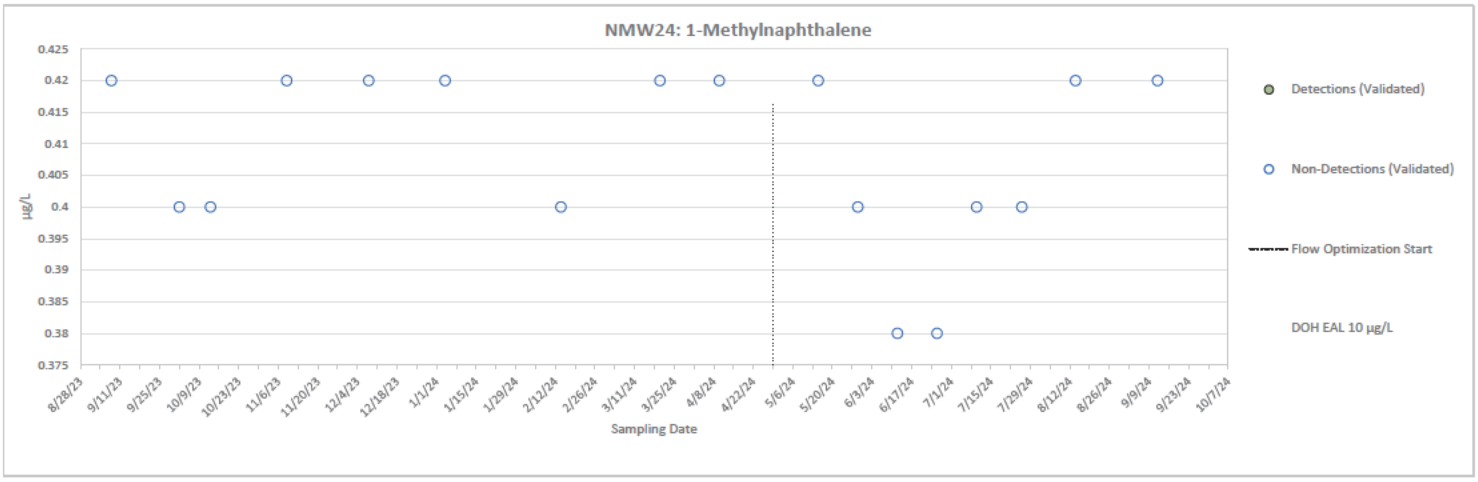

NMW24: GRO
µg/L
Sampling Date
70
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

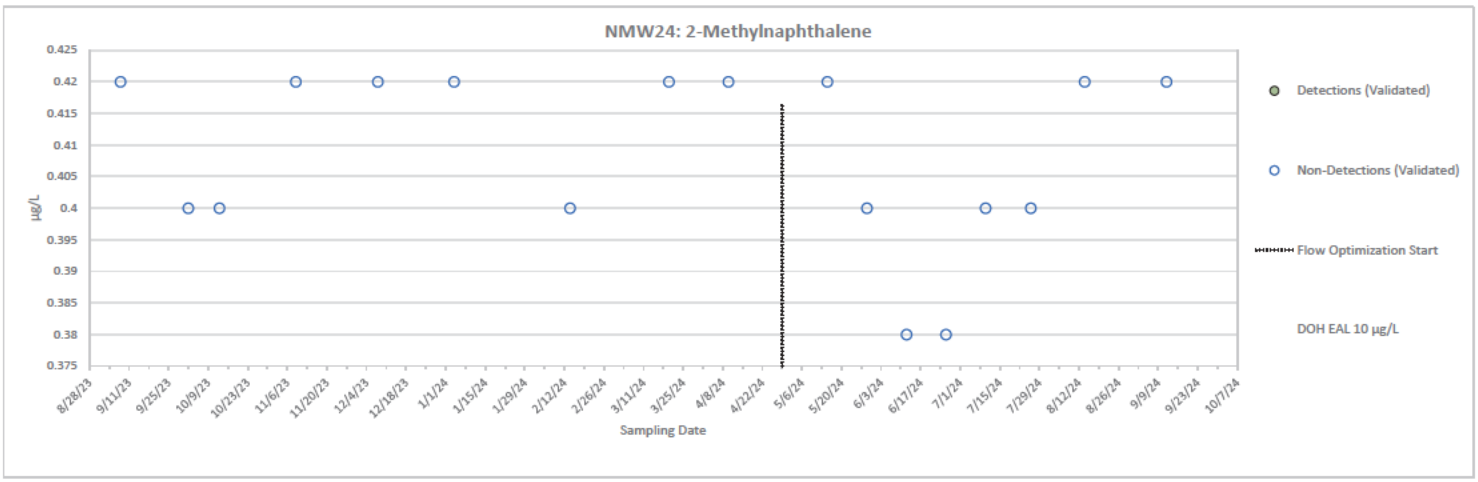

NMW24: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

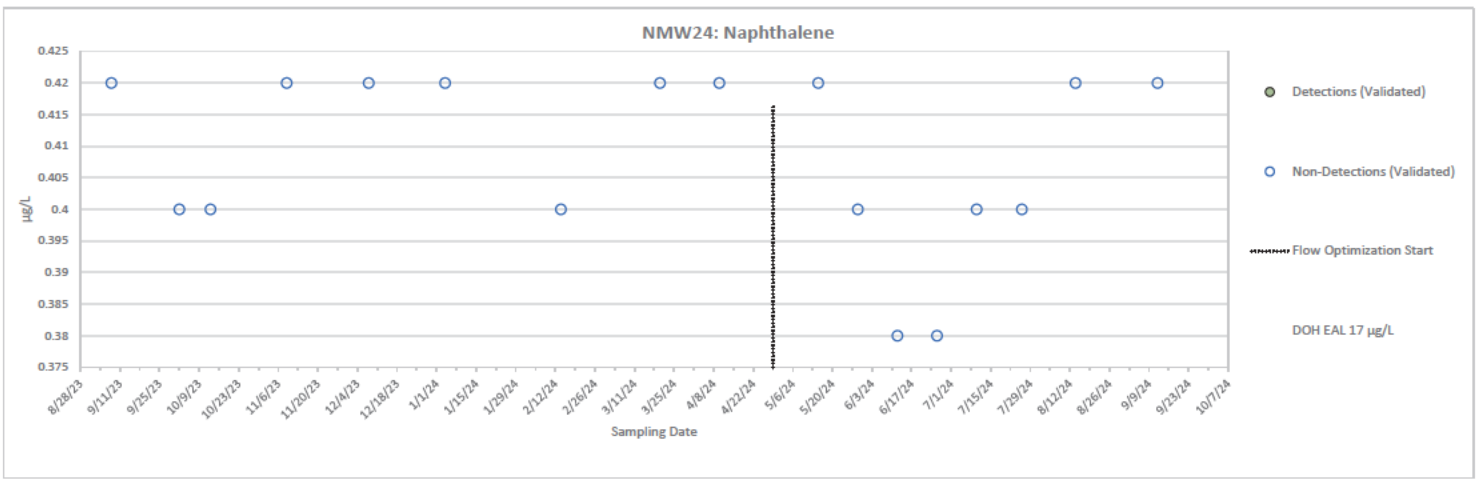

NMW24: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW24: ORO by Method 3510
µg/L
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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

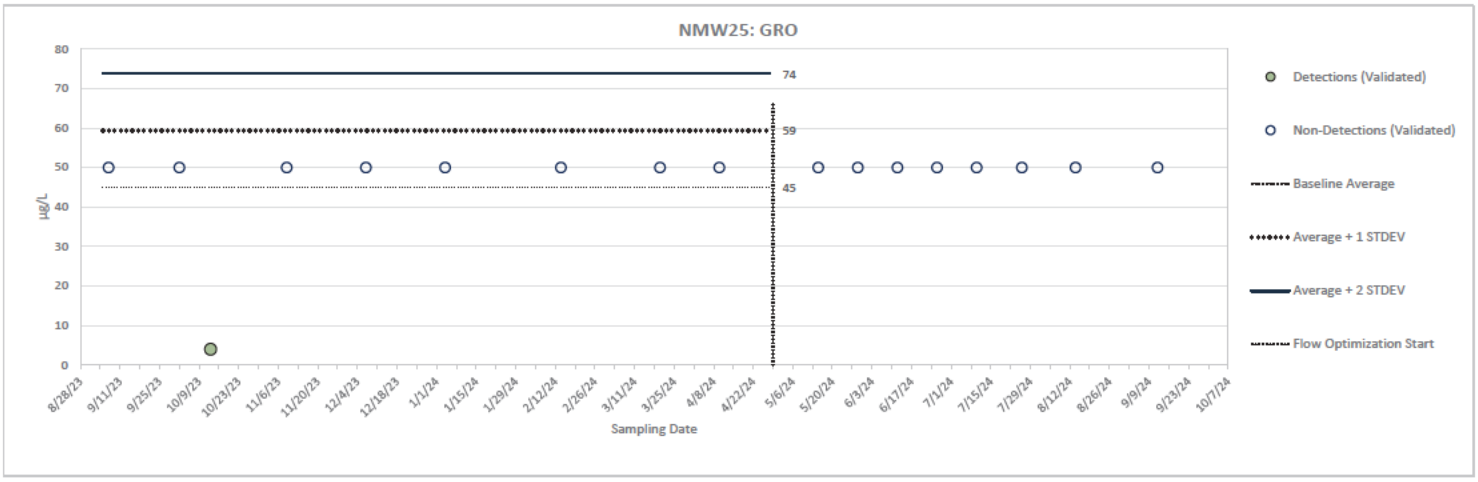

NMW24: ORO by Method 3520
µg/L
350
300
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

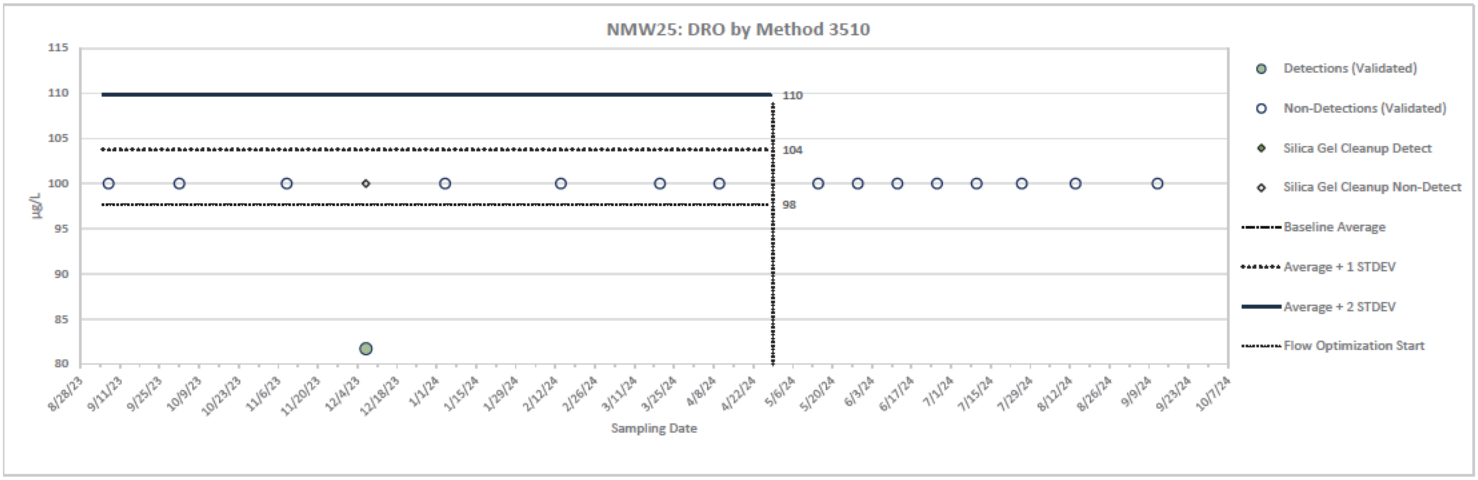


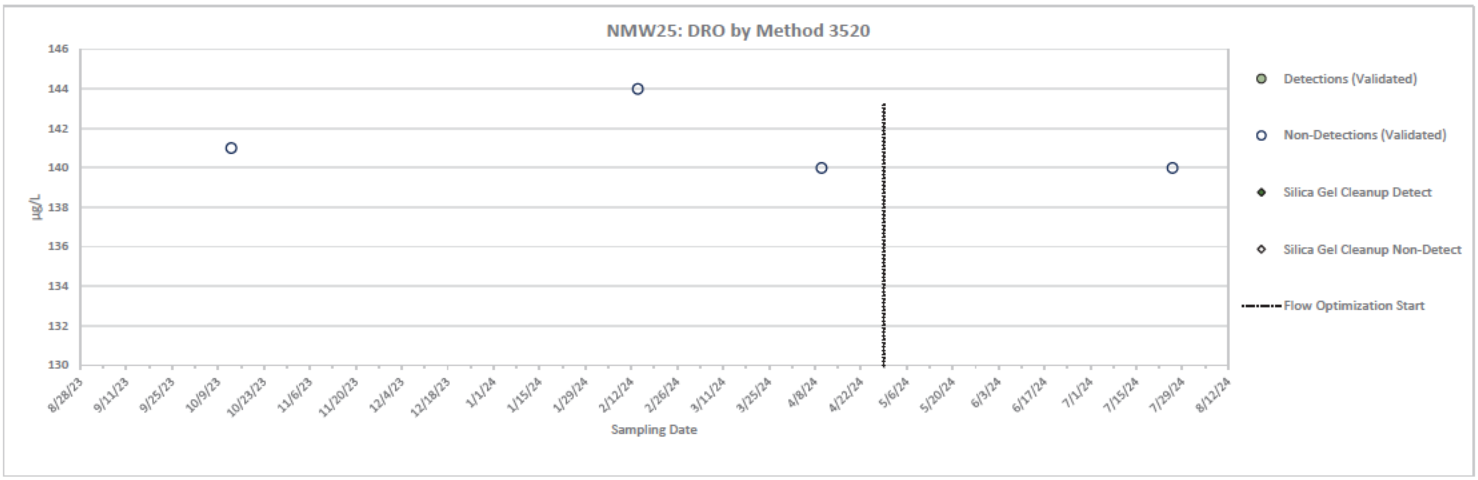


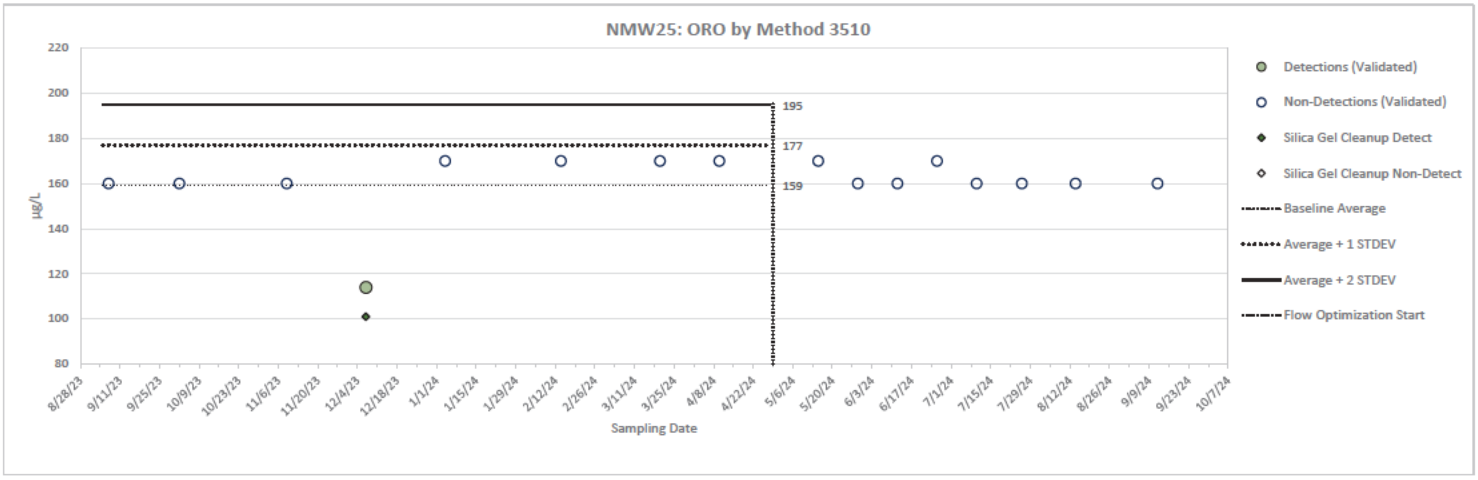


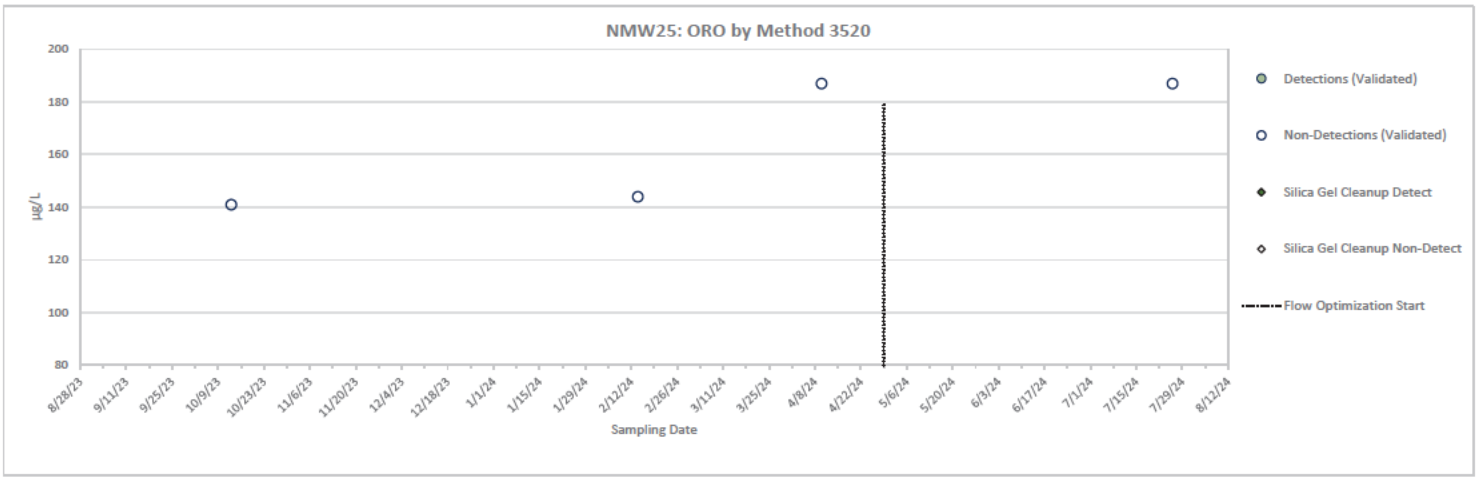
Note: See Data Legend

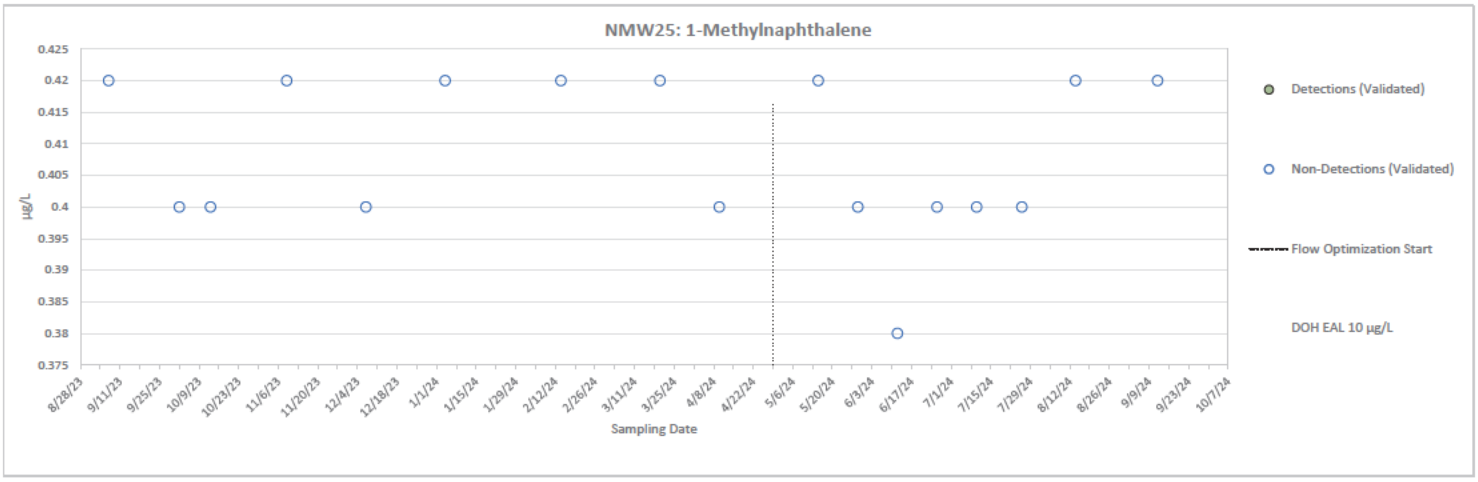

NMW25: GRO
µg/L
Sampling Date
74
59
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

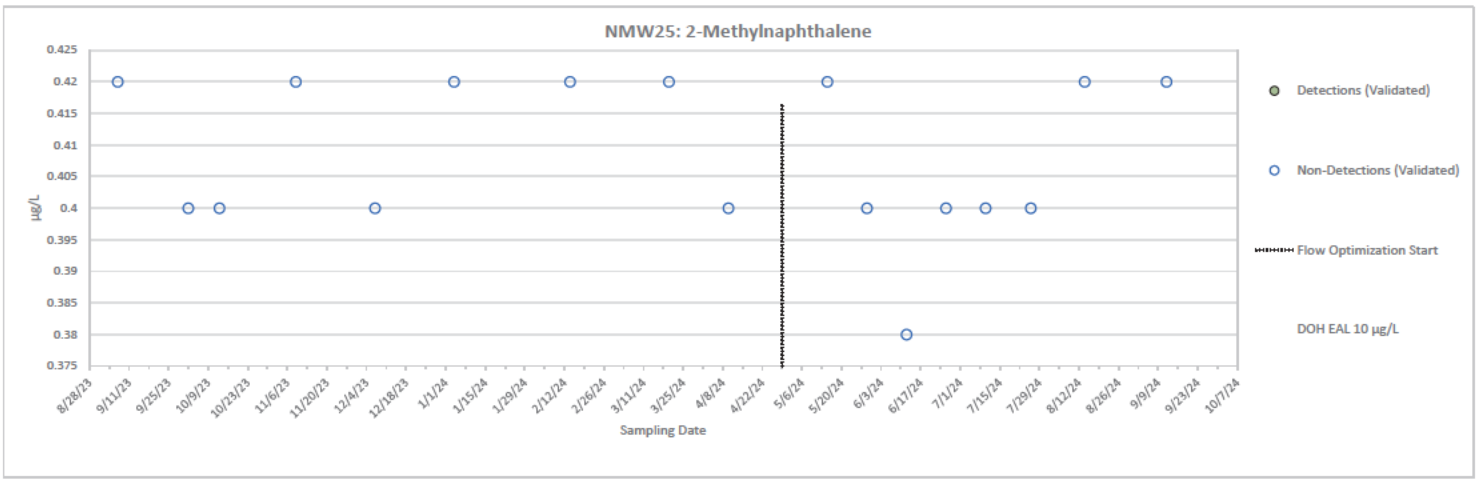

NMW25: DRO by Method 3510
µg/L
Sampling Date
110
104
98
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

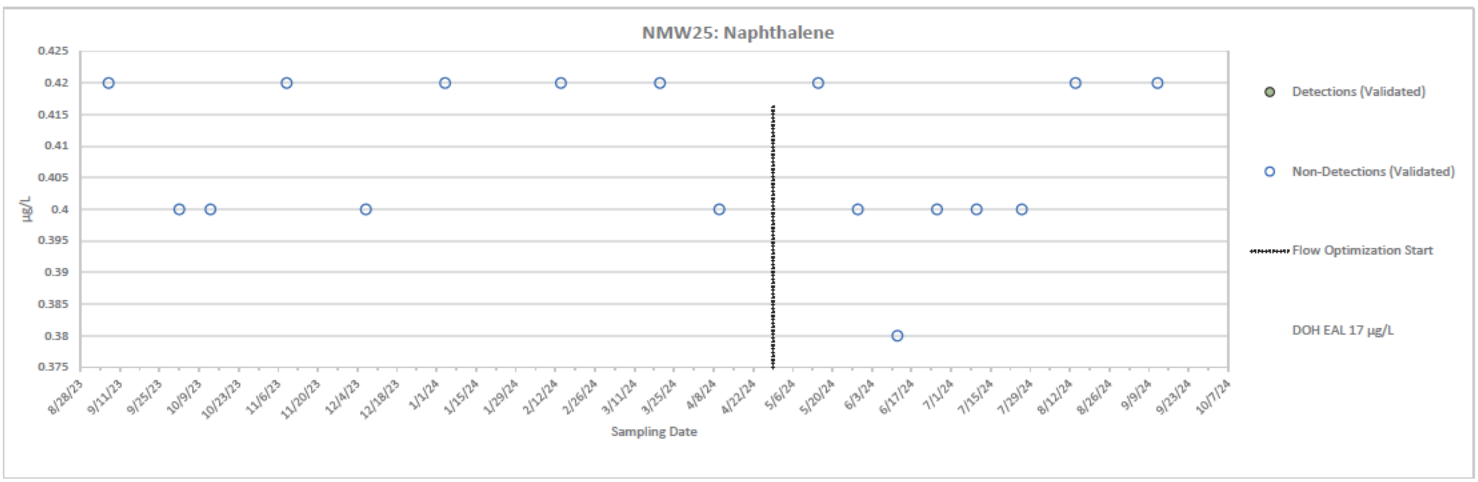

NMW25: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


NMW25: ORO by Method 3510
220
200
180
160
140
120
100
80
µg/L
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
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

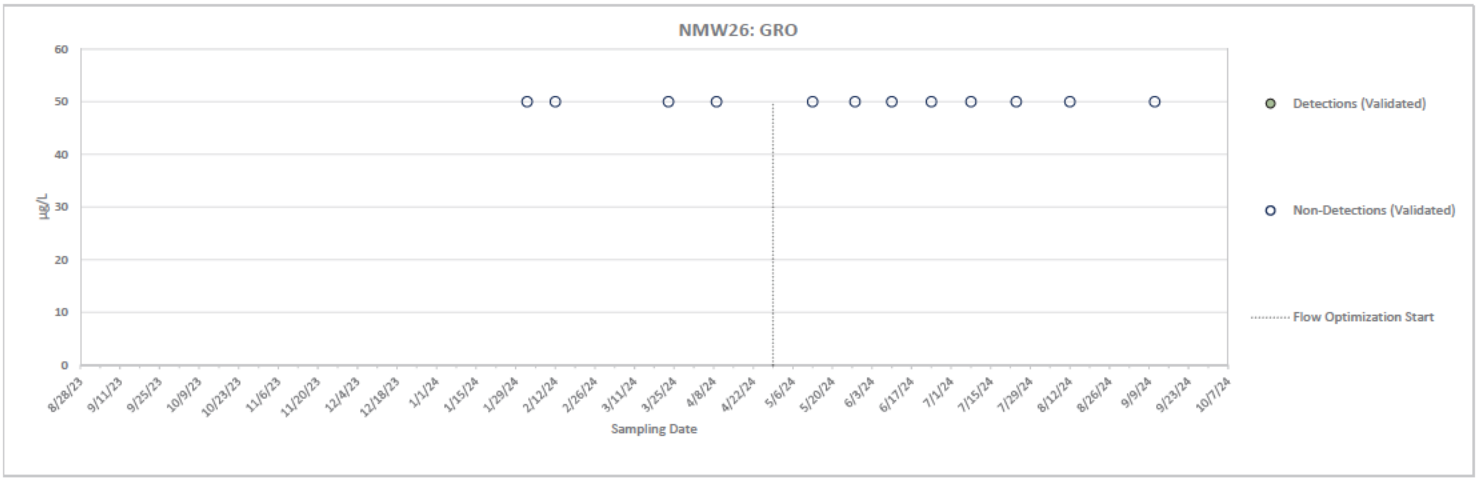

NMW25: ORO by Method 3520
200
180
160
140
120
100
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

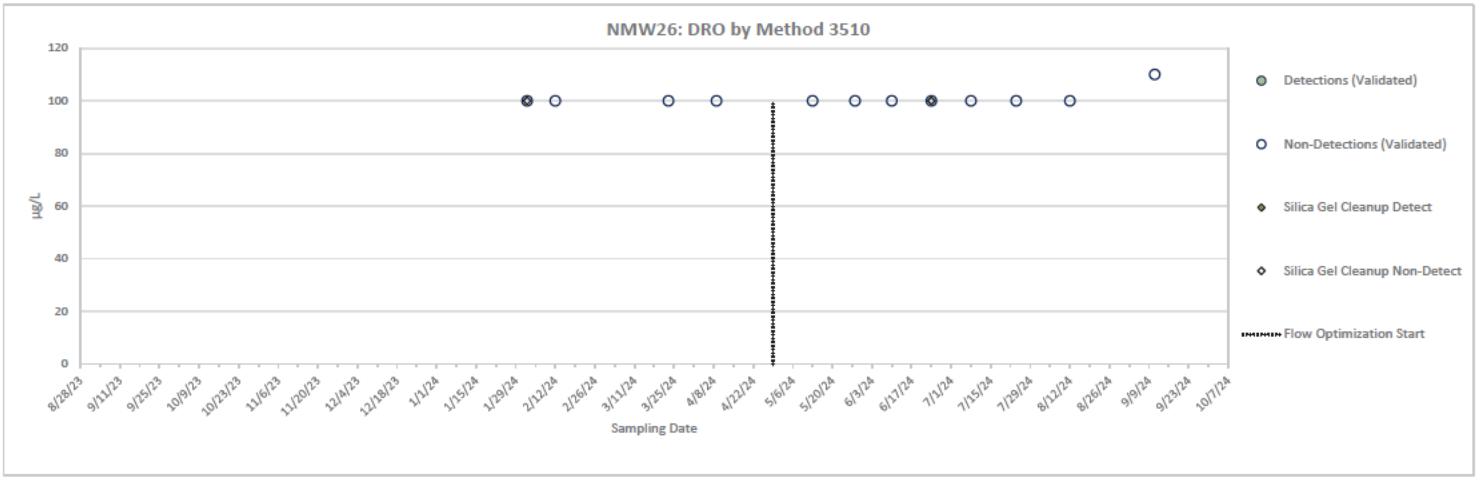


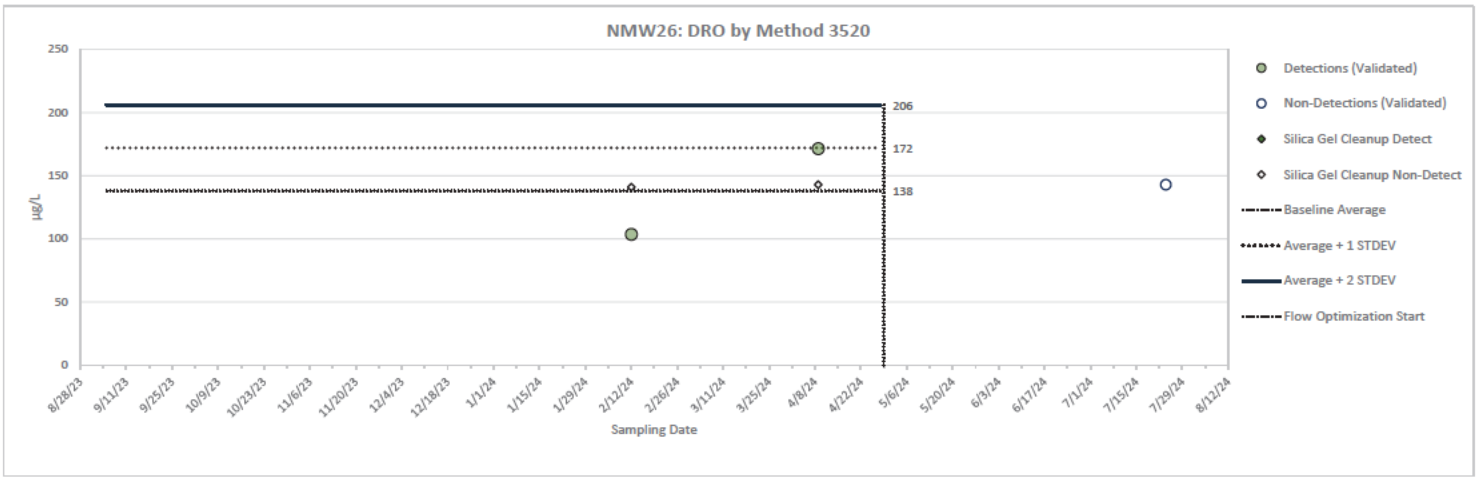


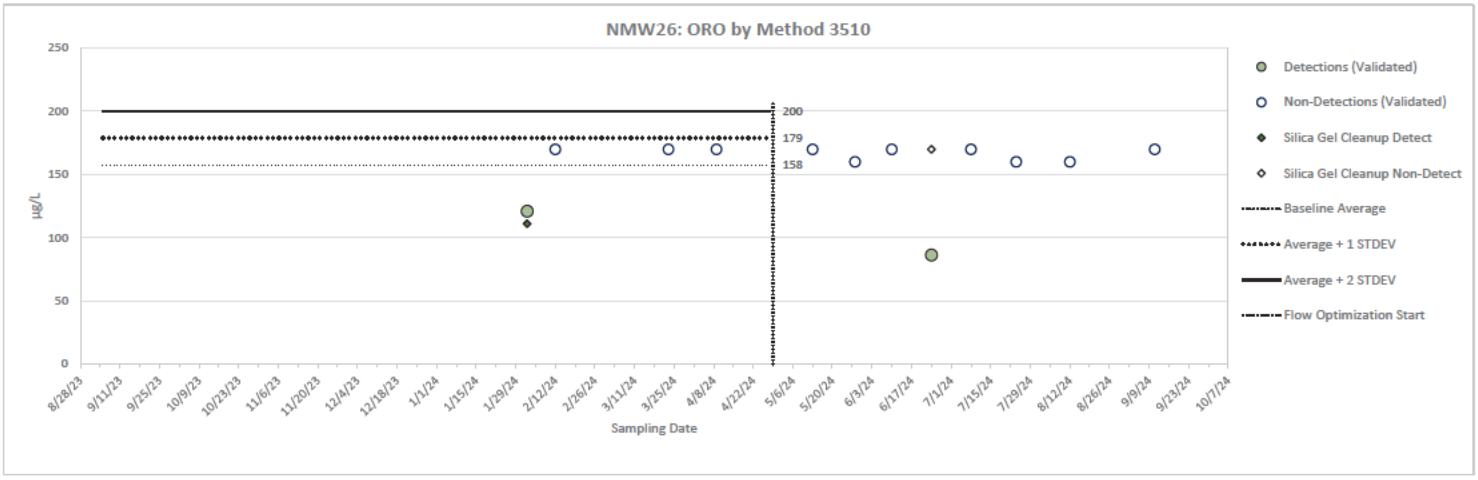


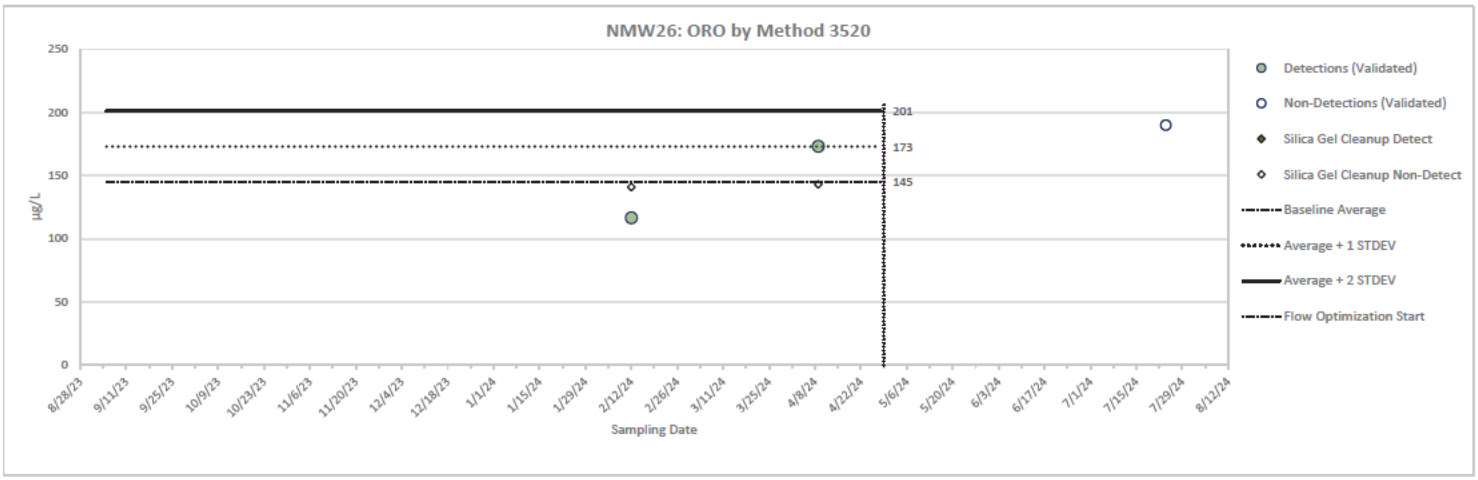
Note: See Data Legend

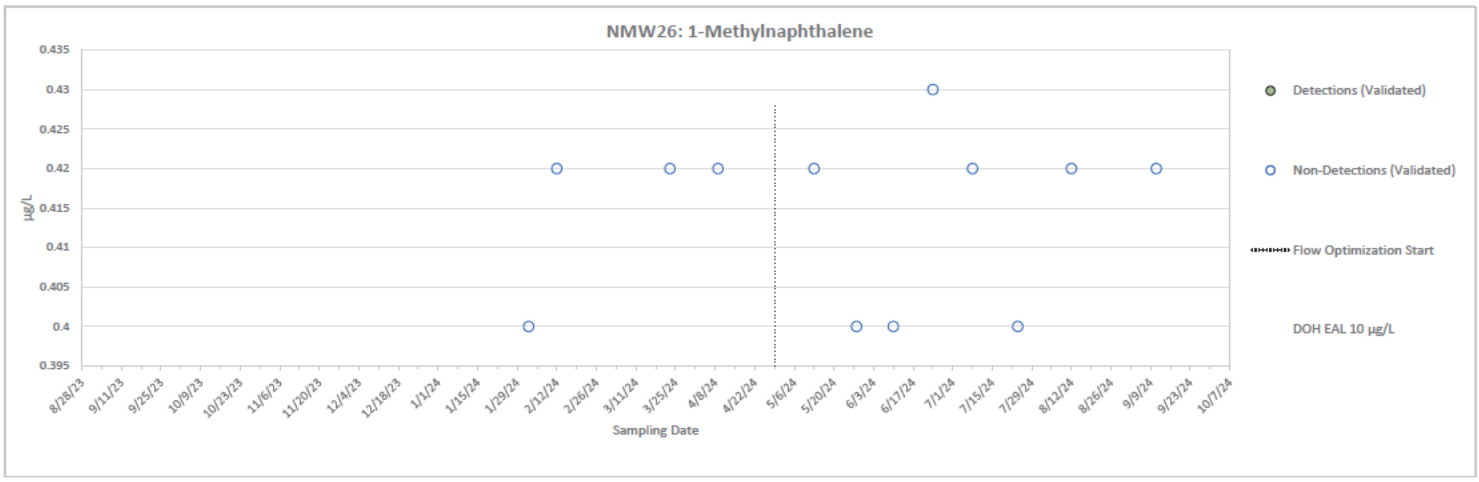

NMW26: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

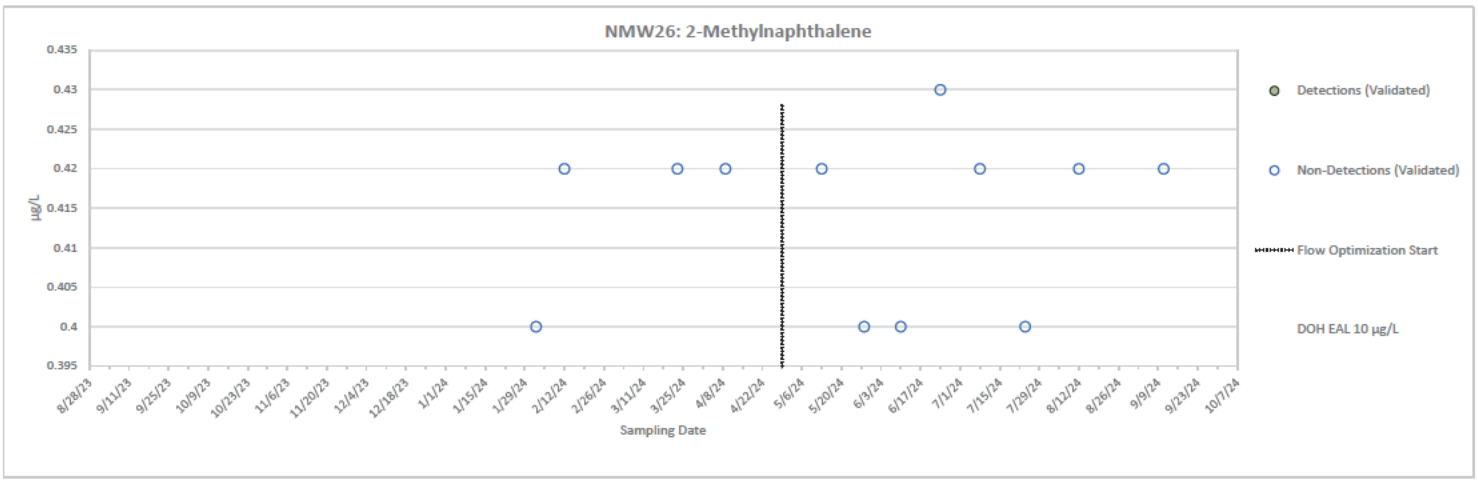

NMW26: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

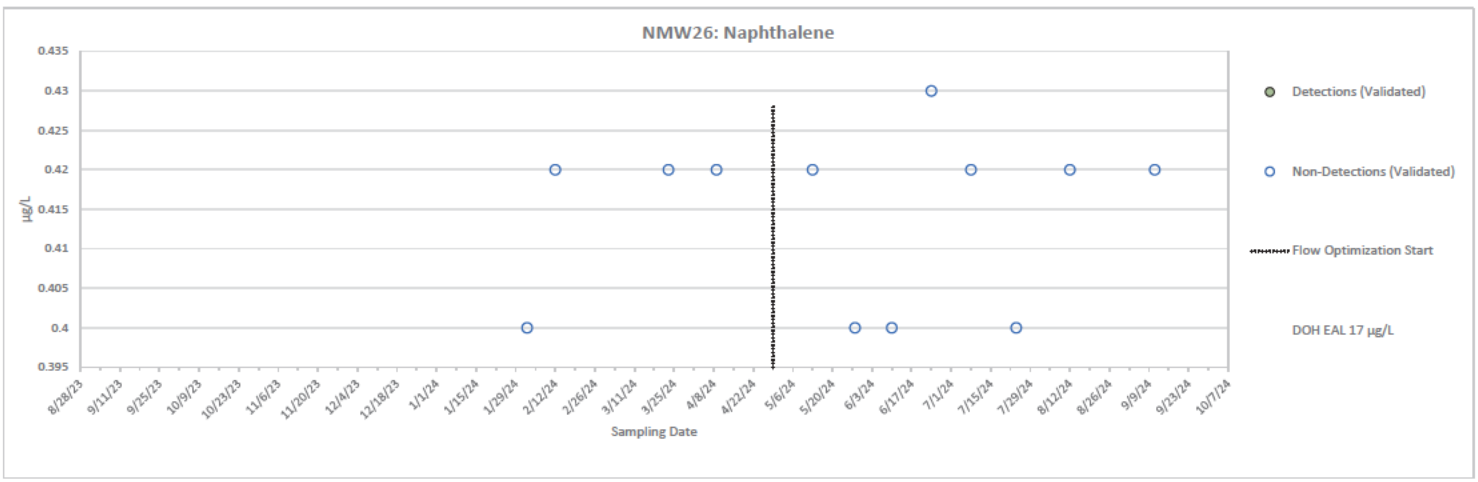

NMW26: DRO by Method 3520
µg/L
Sampling Date
206
172
138
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW26: ORO by Method 3510
µg/L
Sampling Date
200
179
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

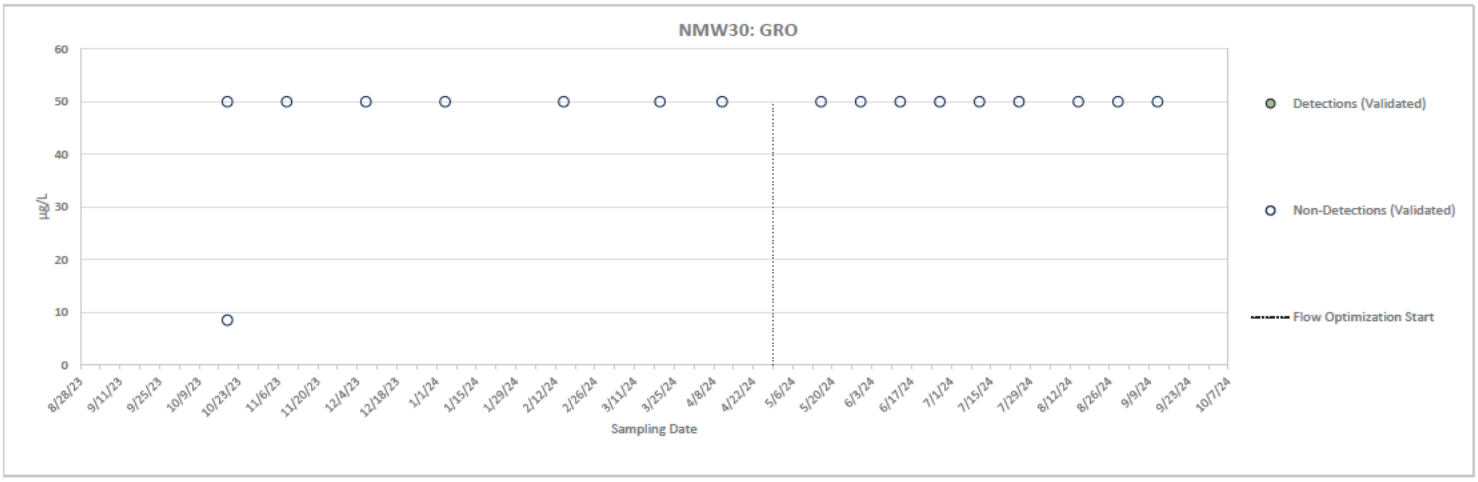

NMW26: ORO by Method 3520
µg/L
Sampling Date
201
173
145
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

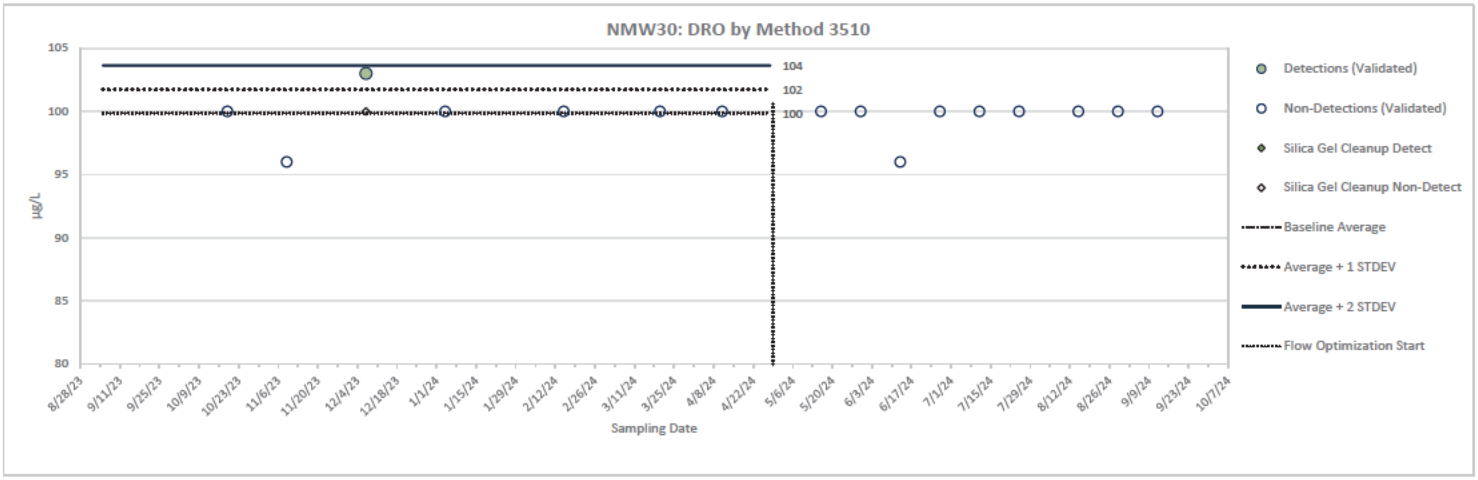


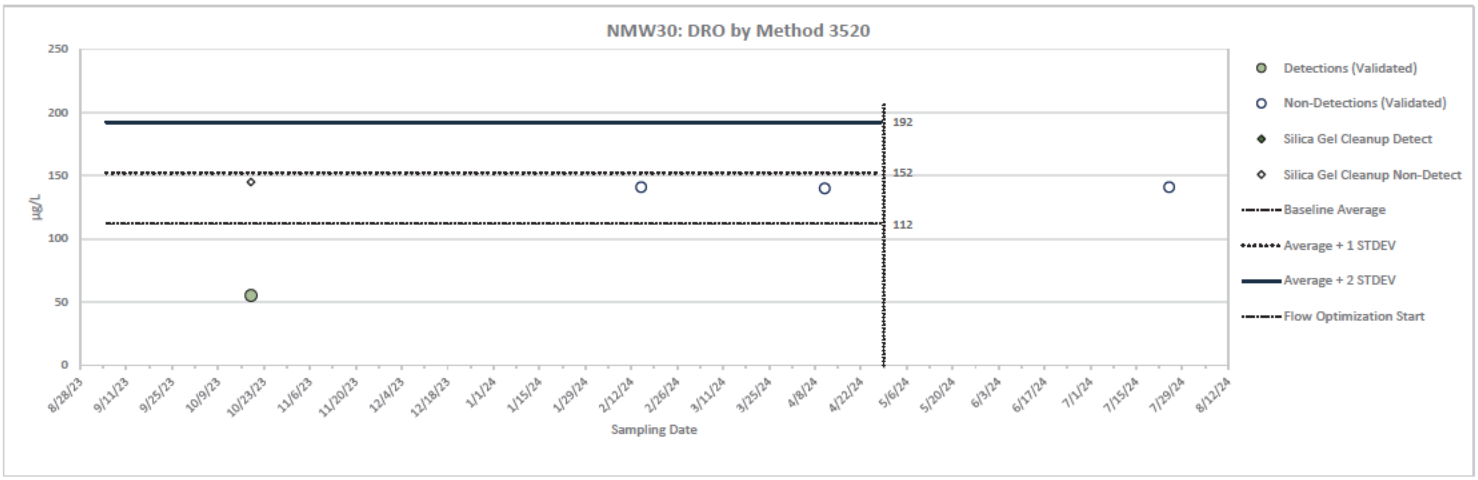


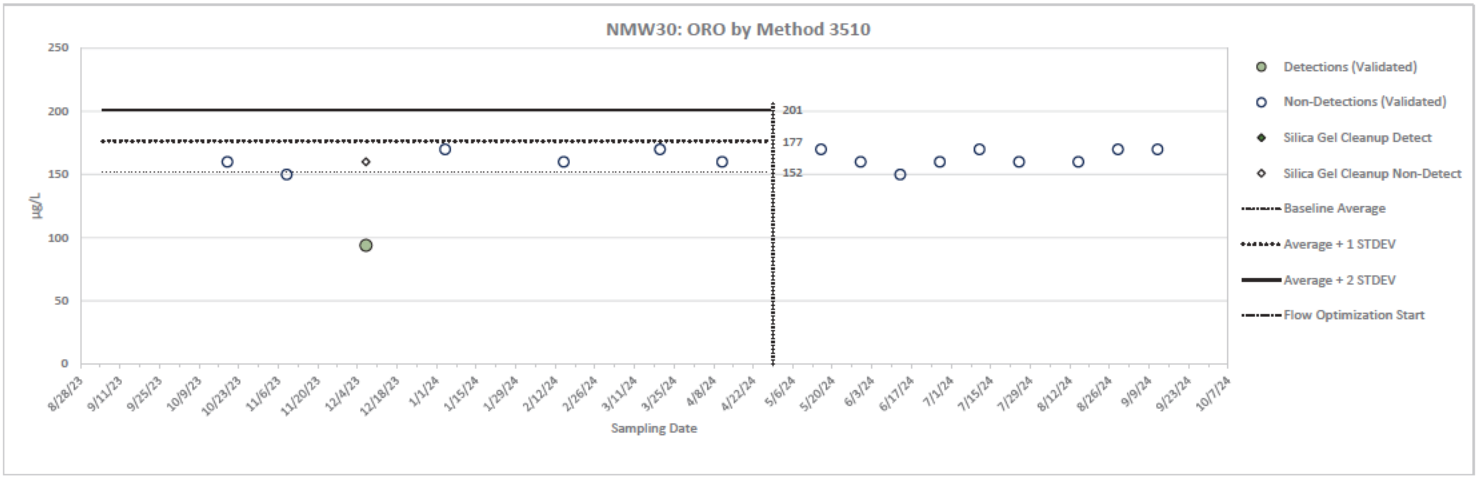


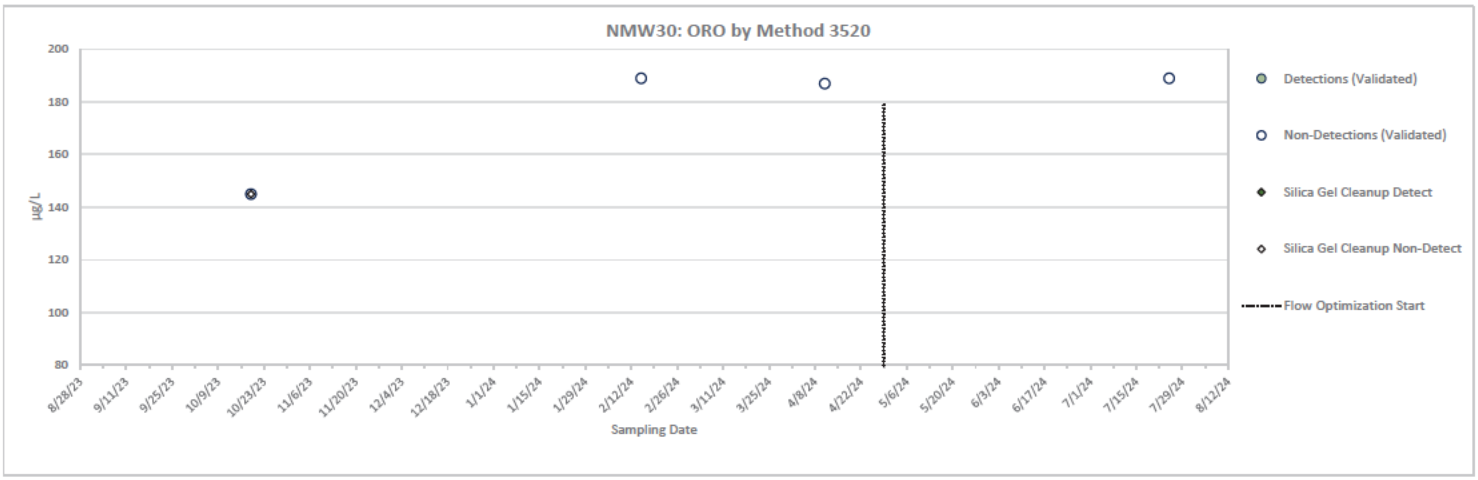
Note: See Data Legend

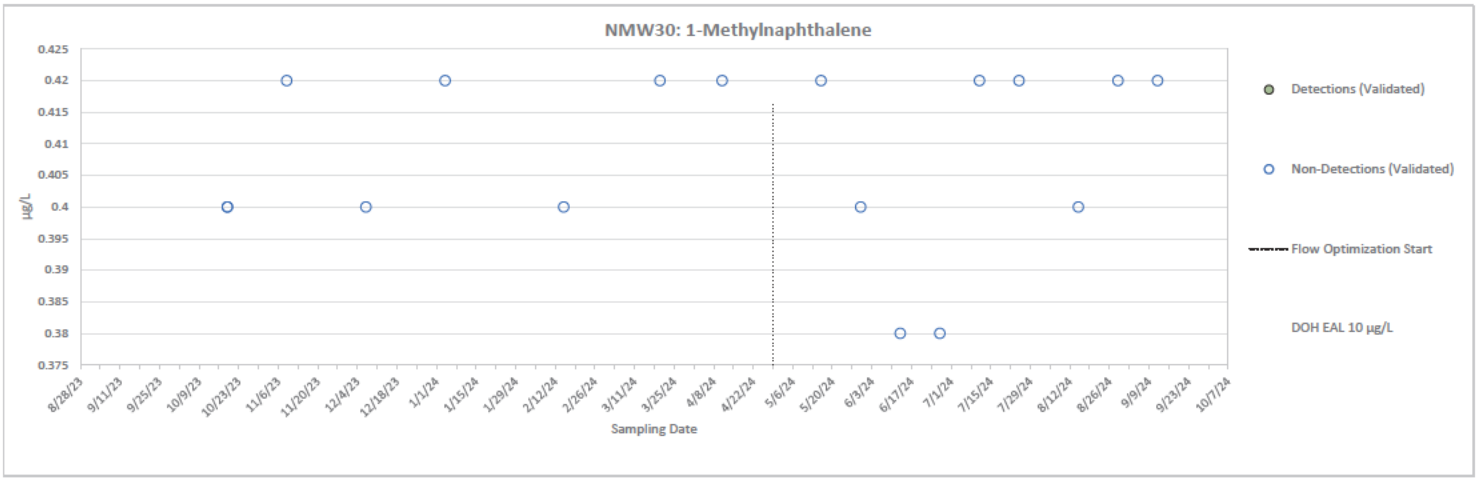

NMW30: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

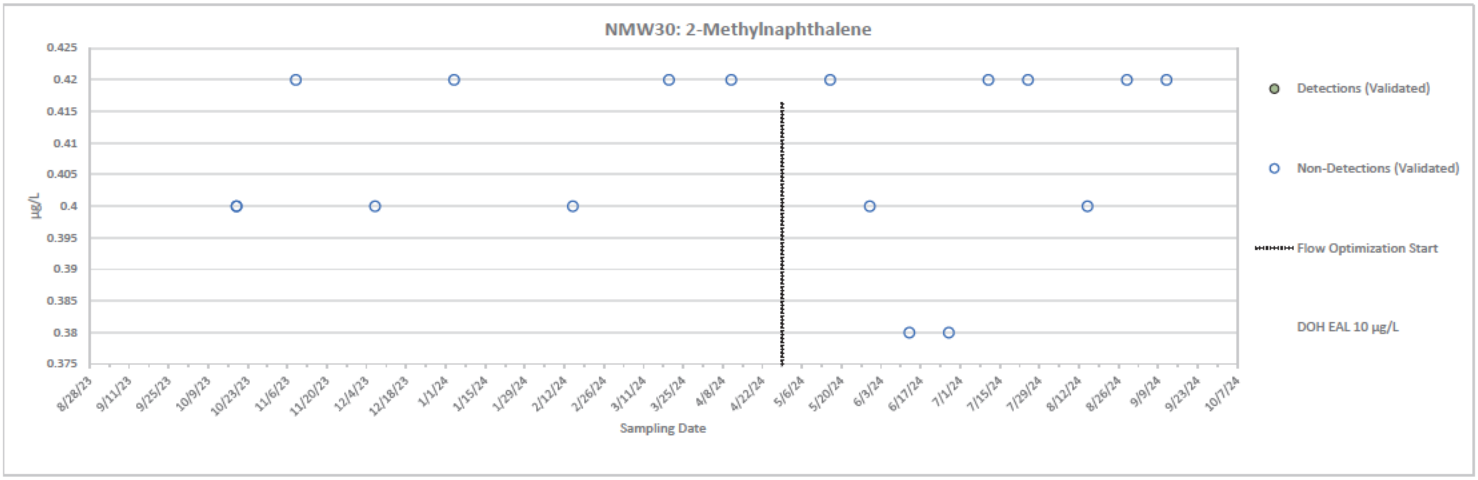

NMW30: DRO by Method 3510
µg/L
Sampling Date
104
102
100
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

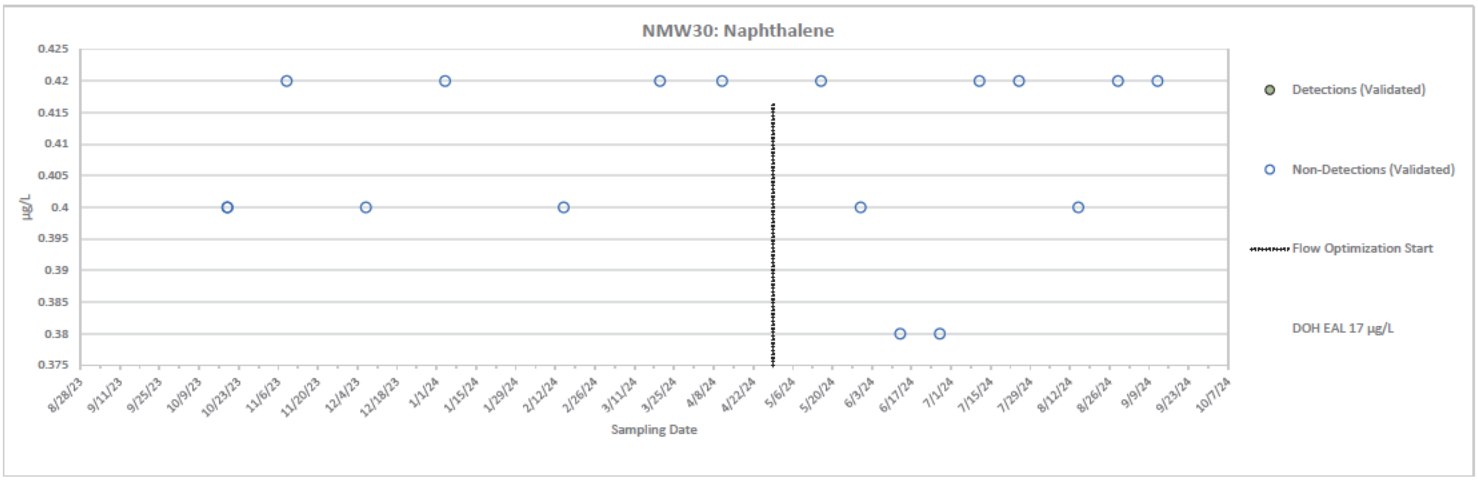

NMW30: DRO by Method 3520
µg/L
Sampling Date
192
152
112
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW30: ORO by Method 3510
250
200
150
100
50
0
ug/L
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
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

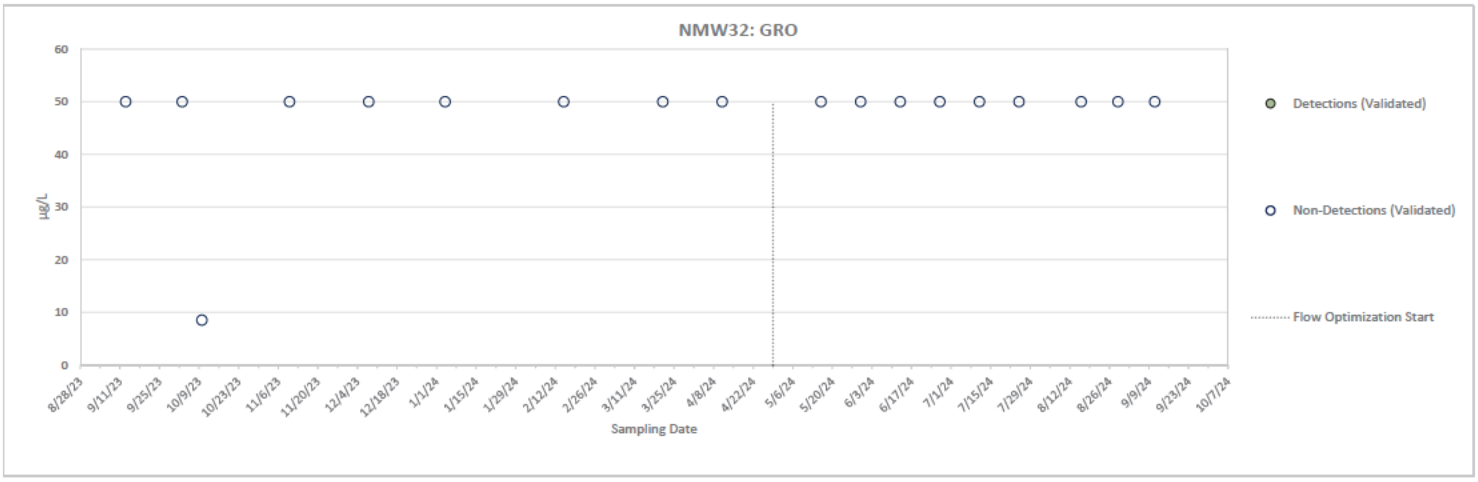

NMW30: ORO by Method 3520
200
180
160
140
120
100
80
ug/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

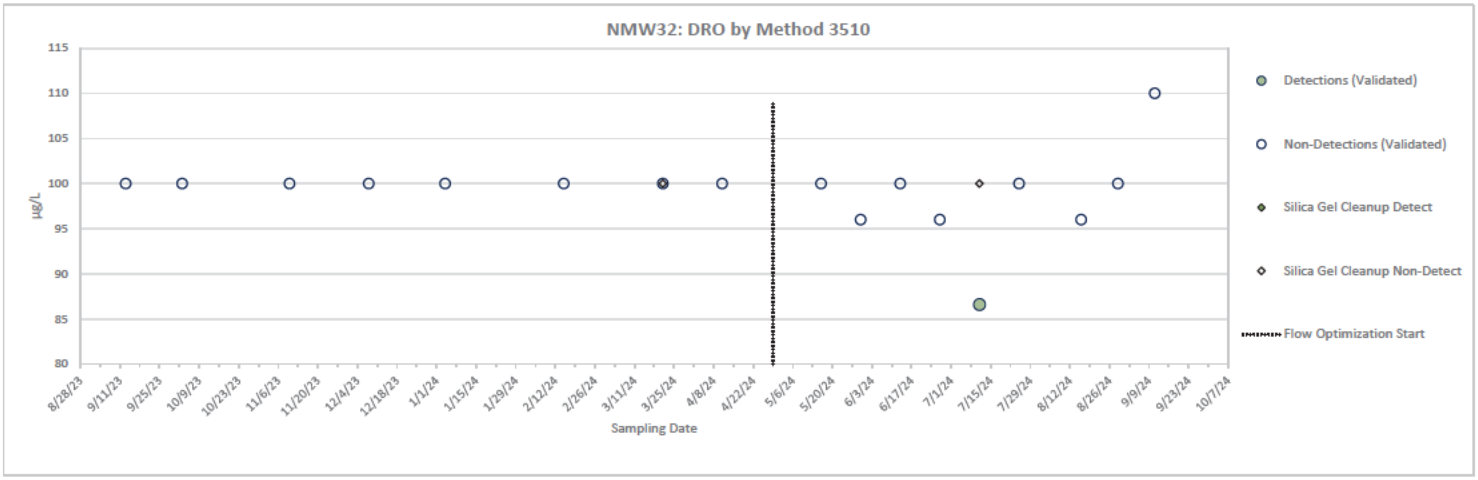


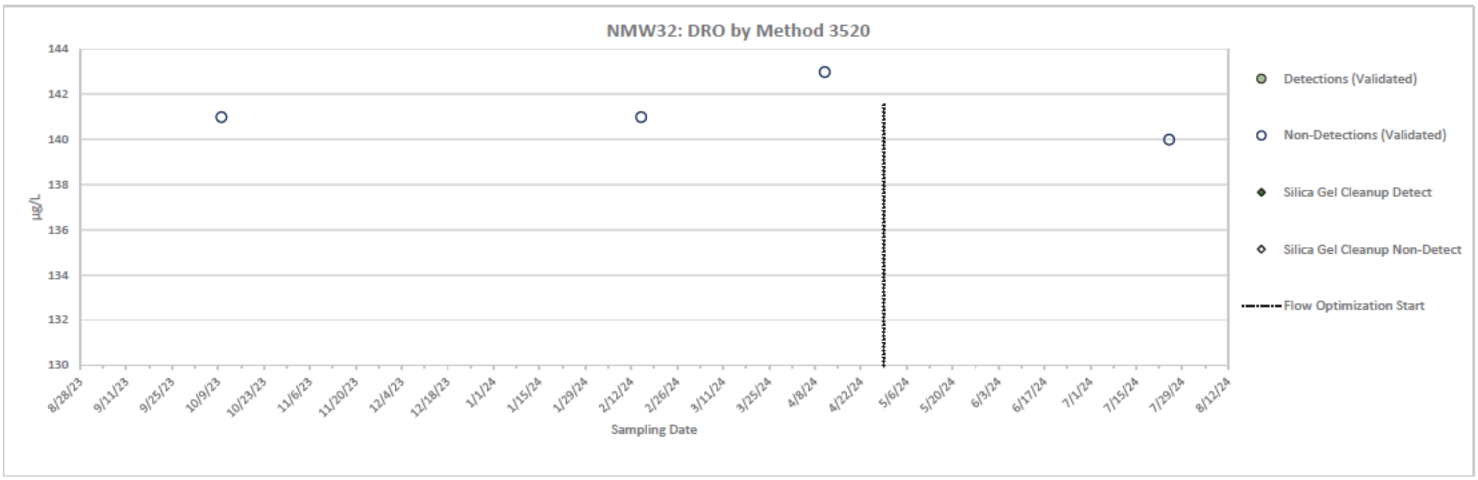


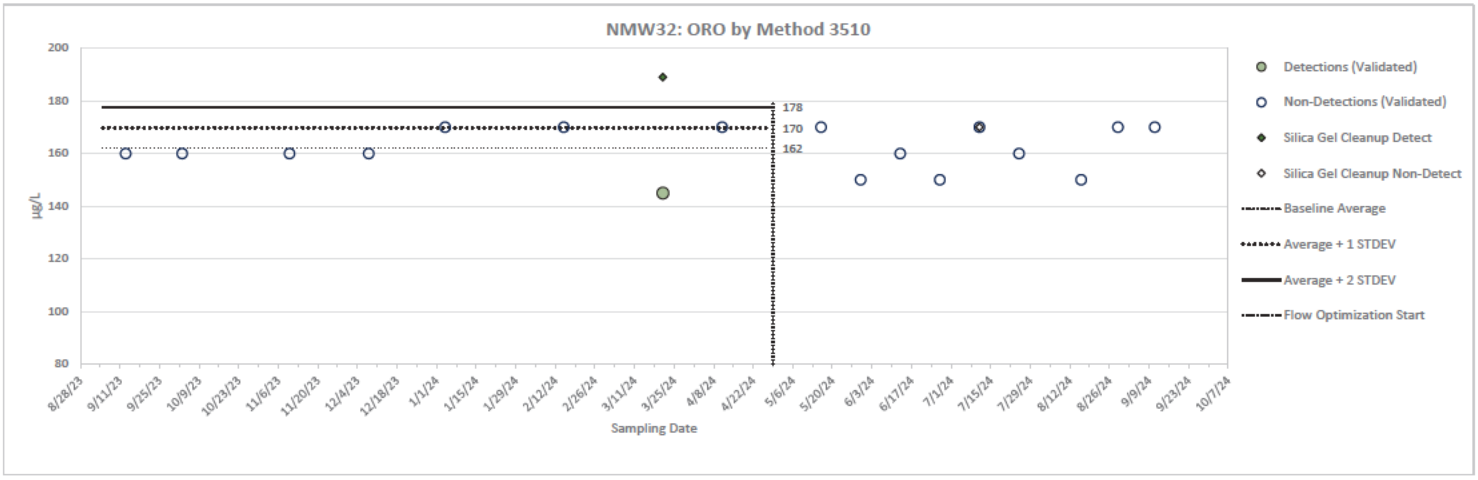


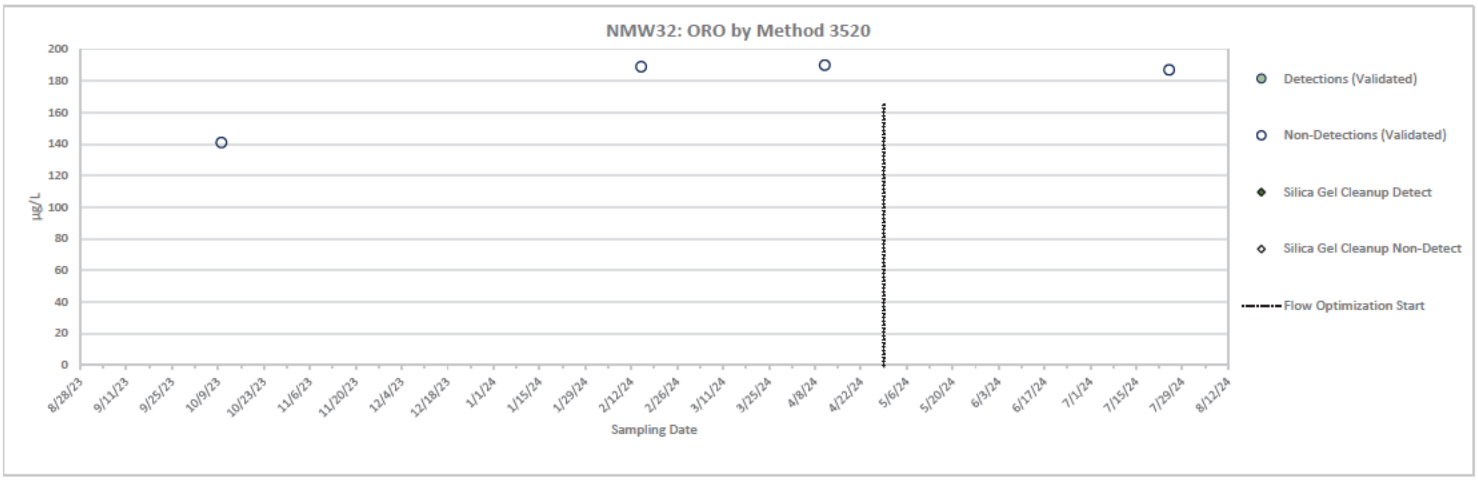
Note: See Data Legend

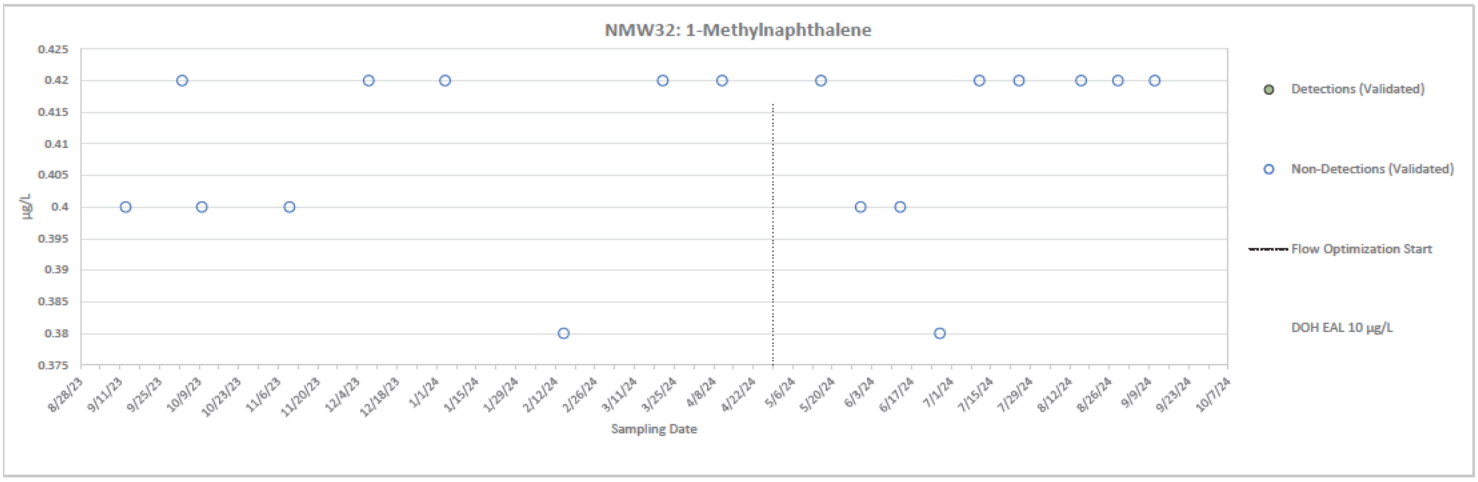

NMW32: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

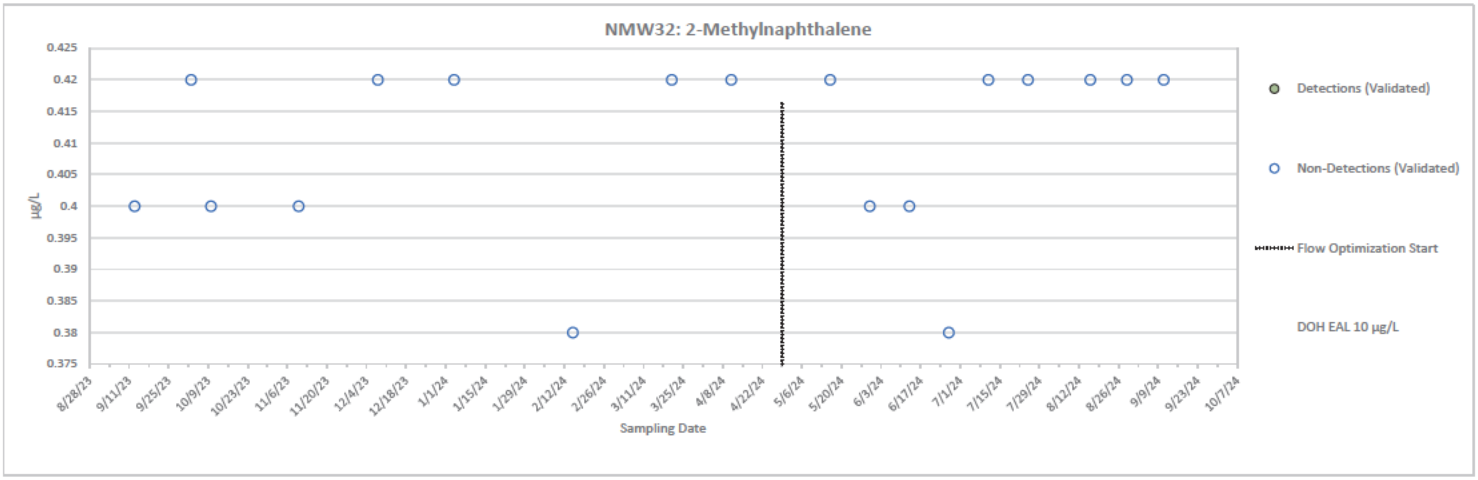

NMW32: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

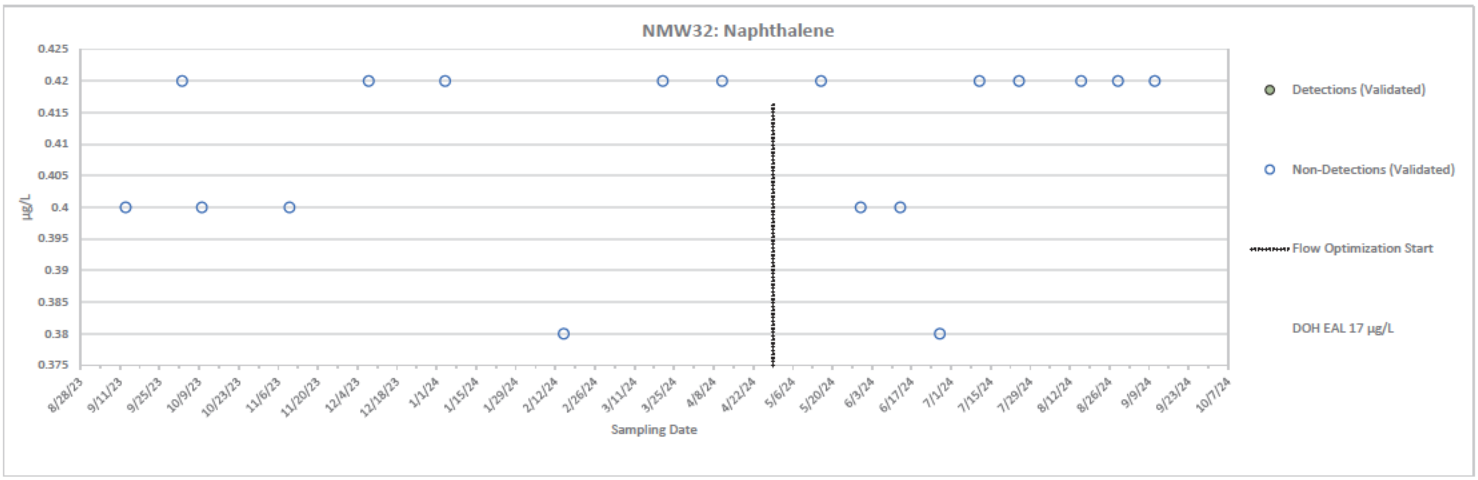

NMW32: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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

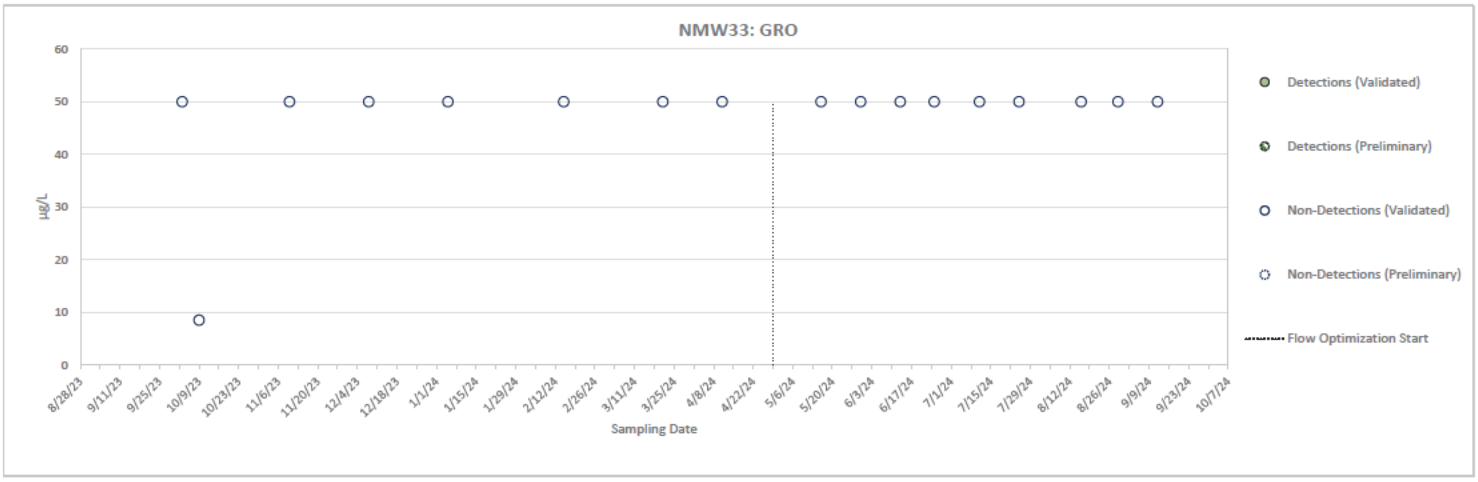

NMW32: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

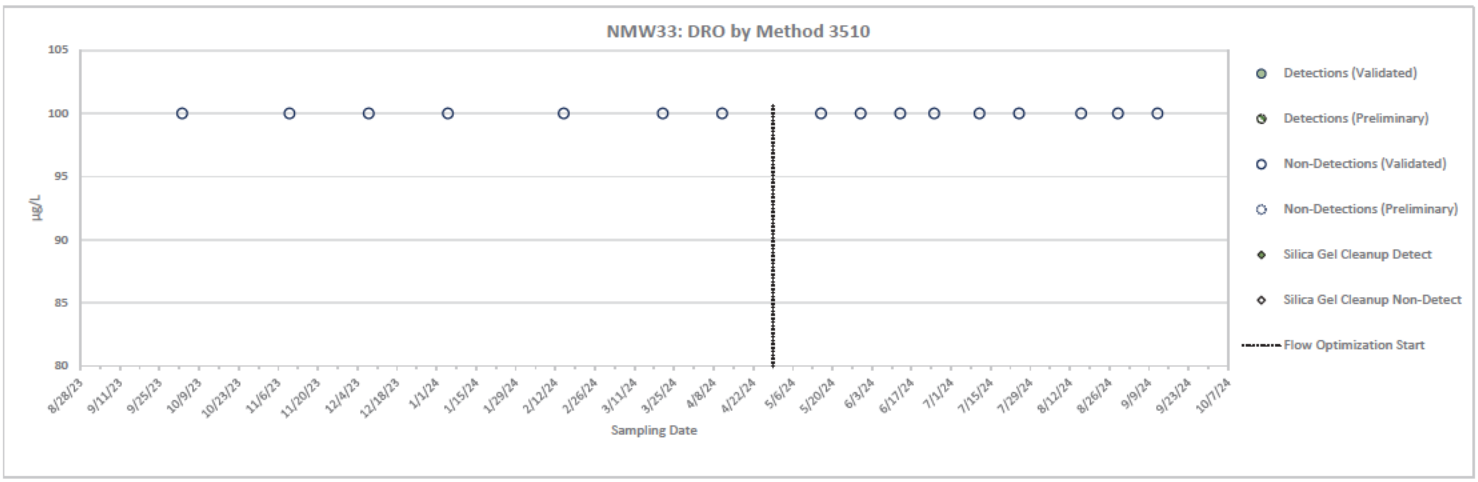


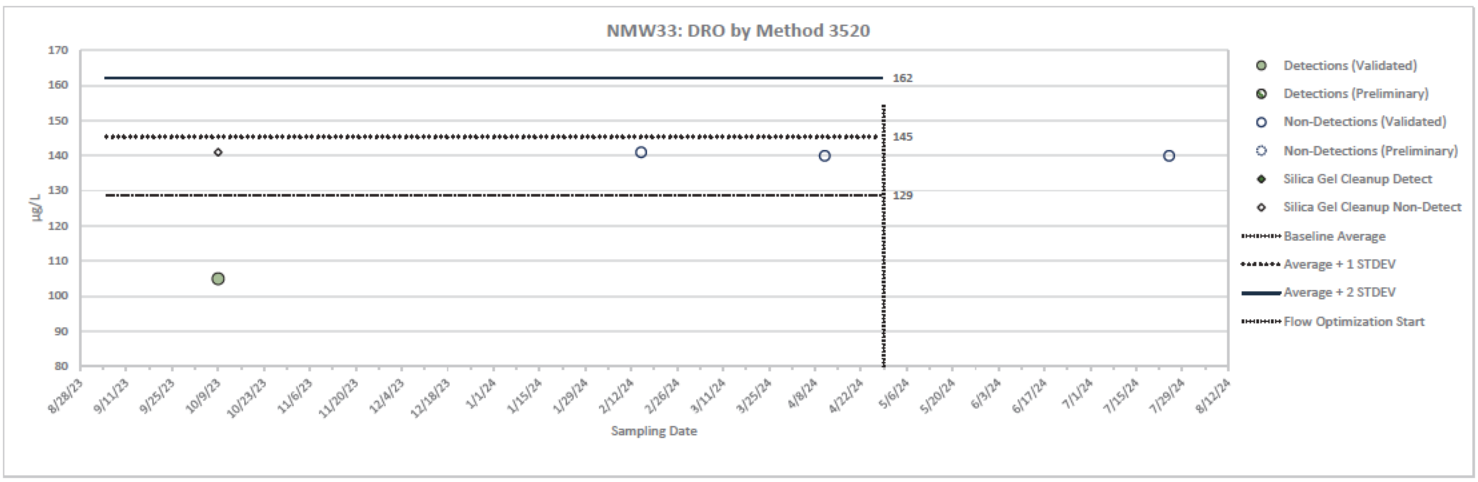


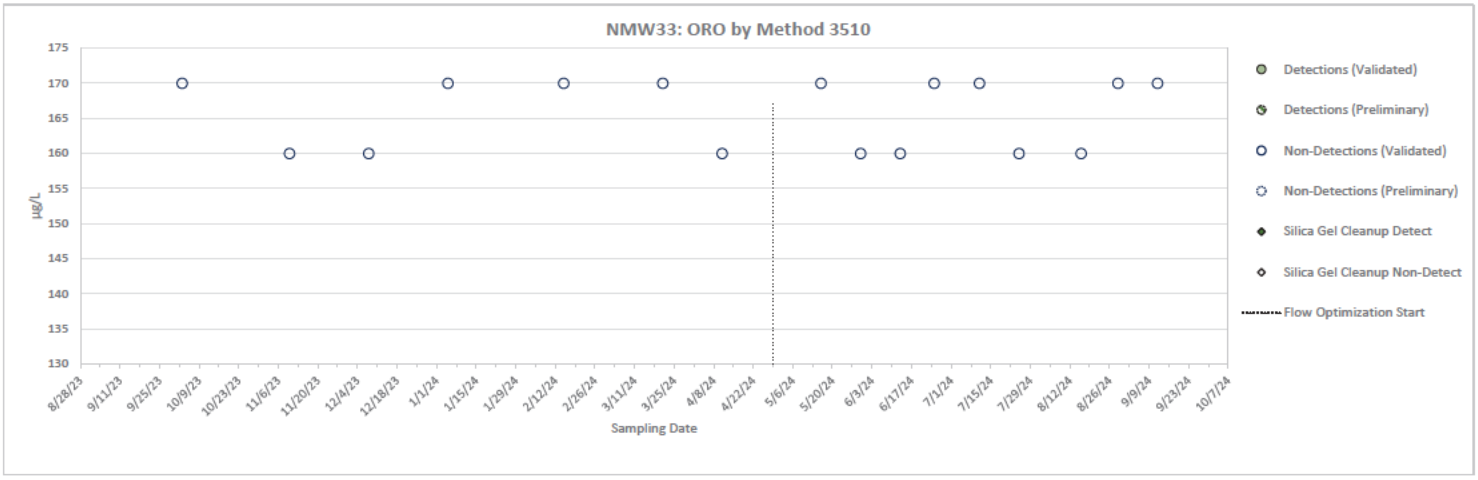


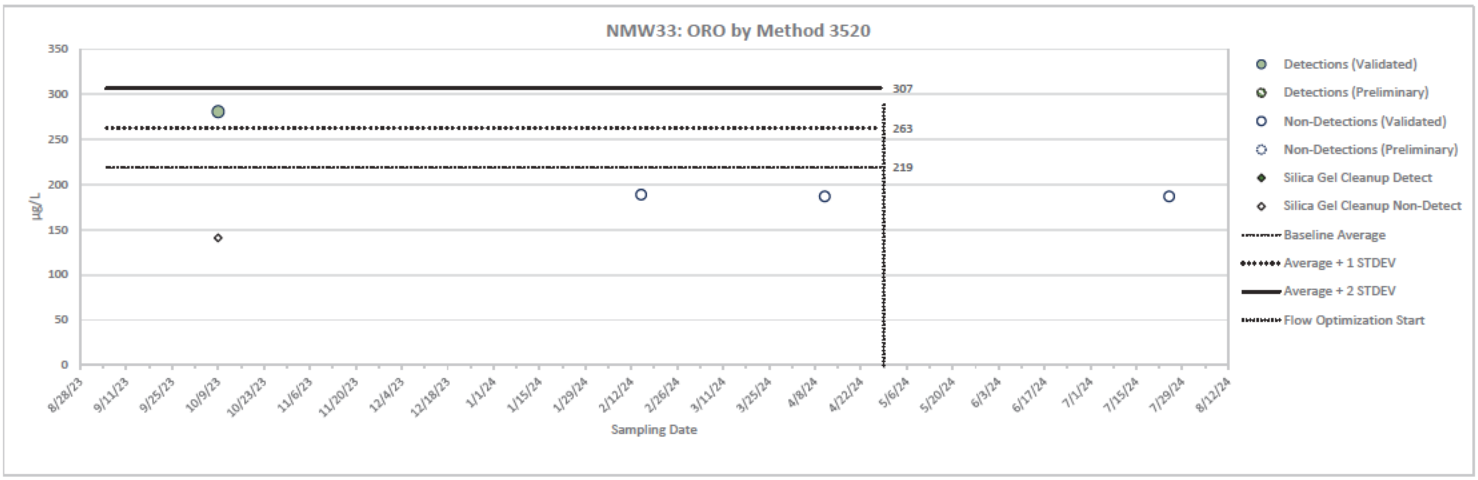
Note: See Data Legend

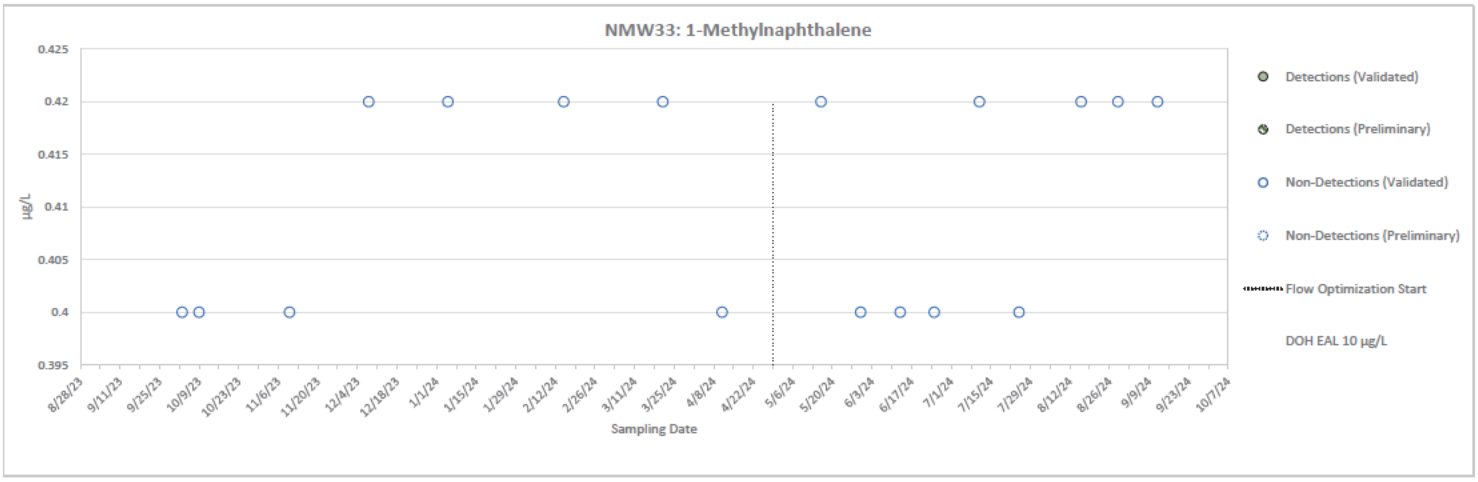

NMW33: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

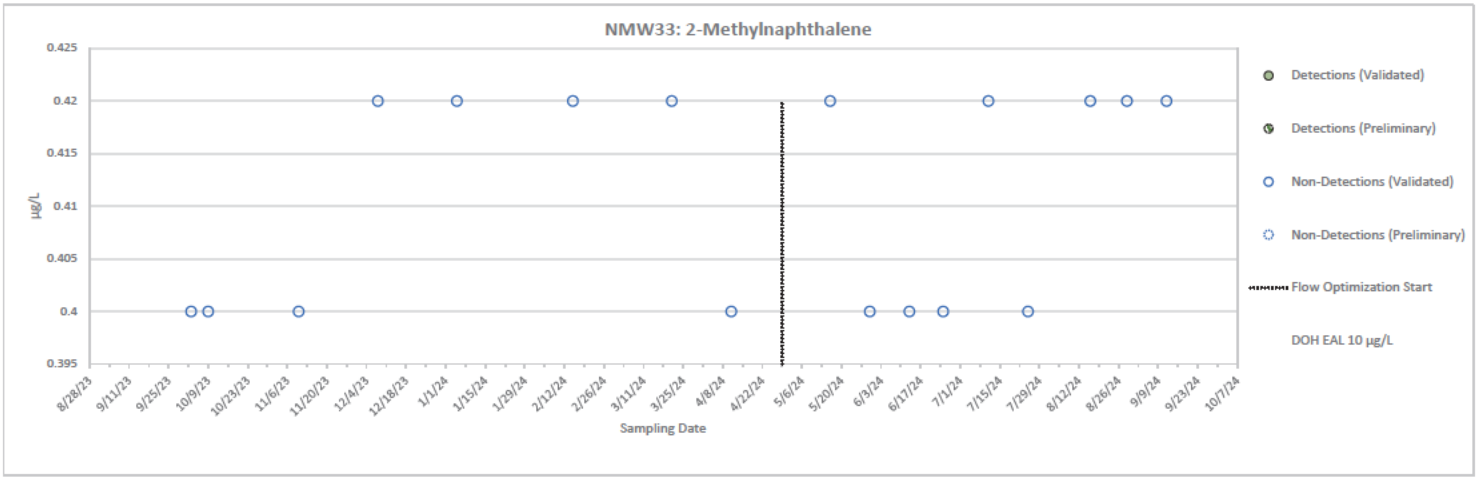

NMW33: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

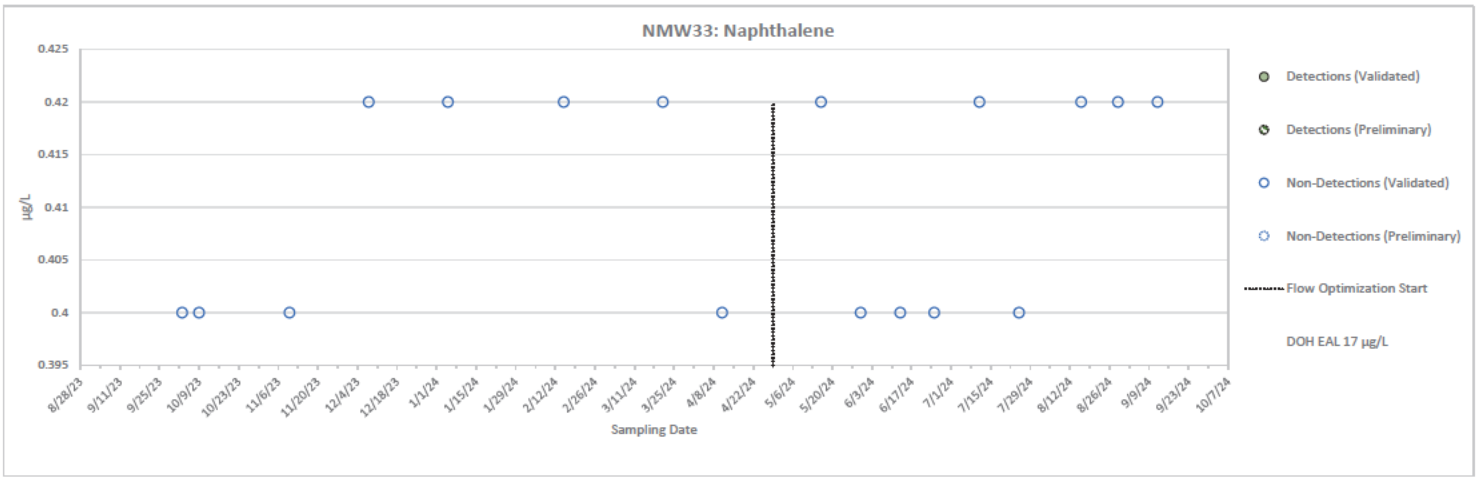

NMW33: DRO by Method 3520
µg/L
Sampling Date
162
145
129
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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

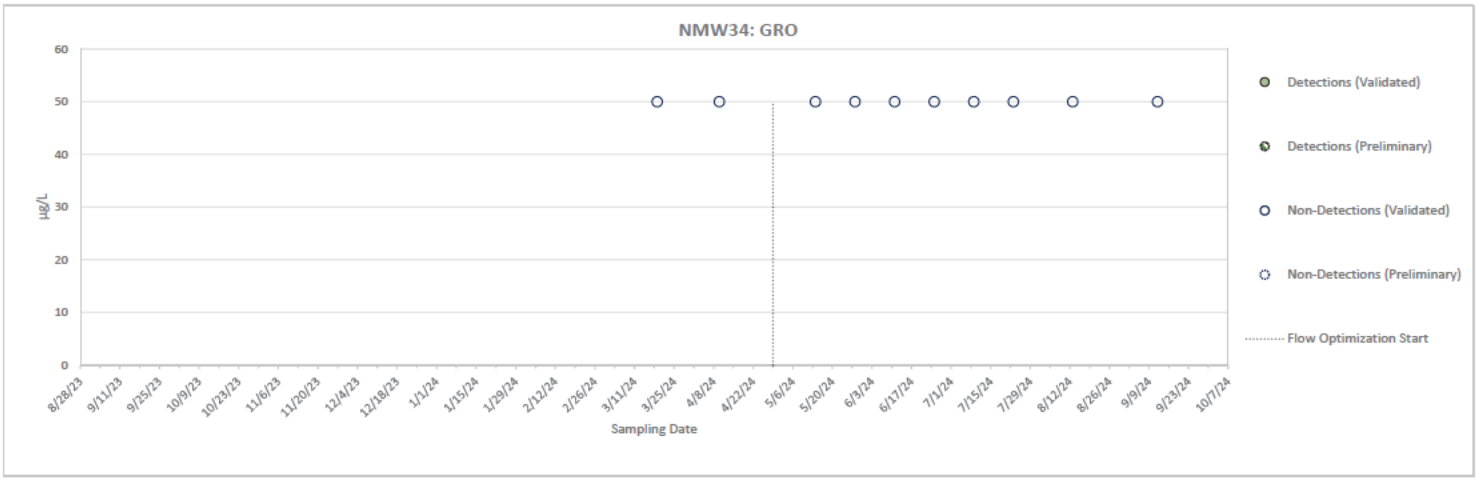

NMW33: ORO by Method 3520
µg/L
Sampling Date
307
263
219
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

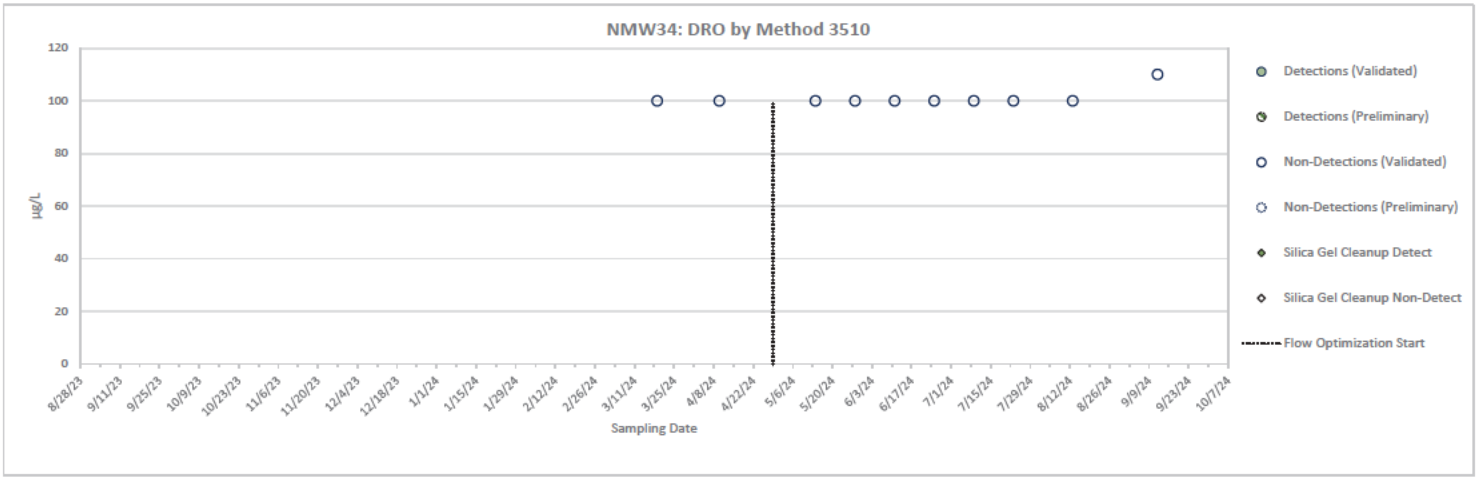


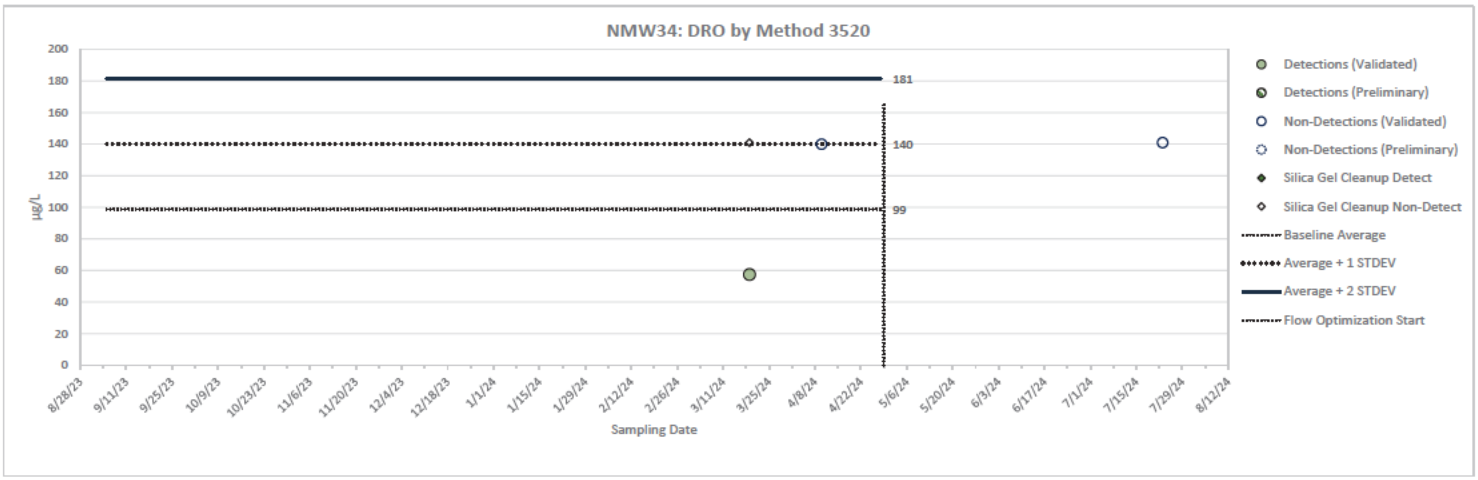


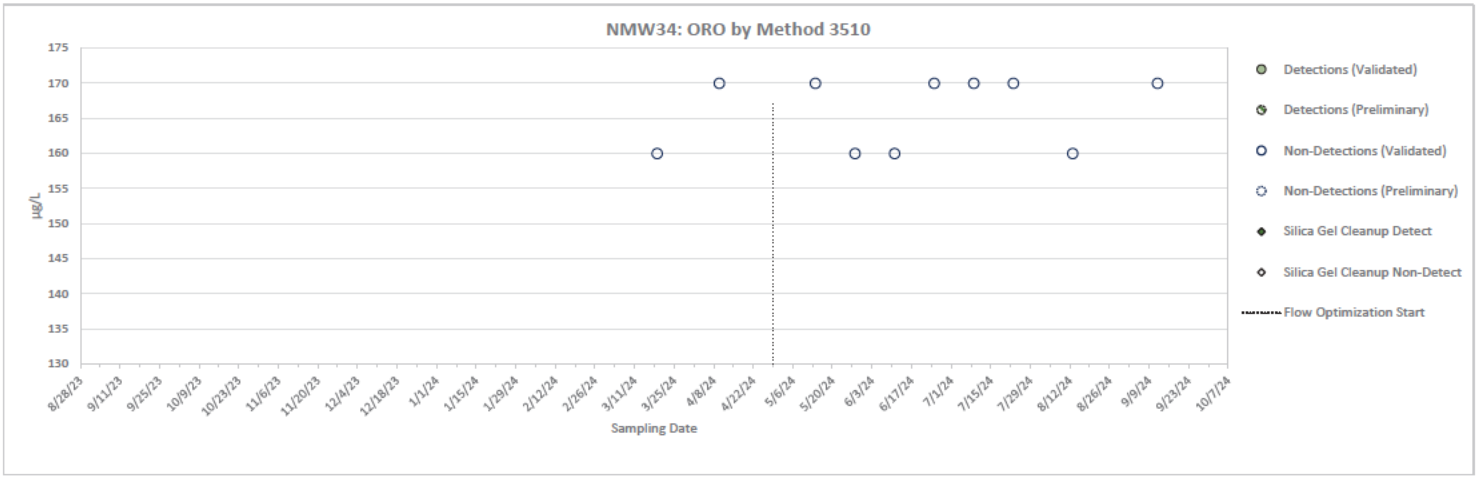


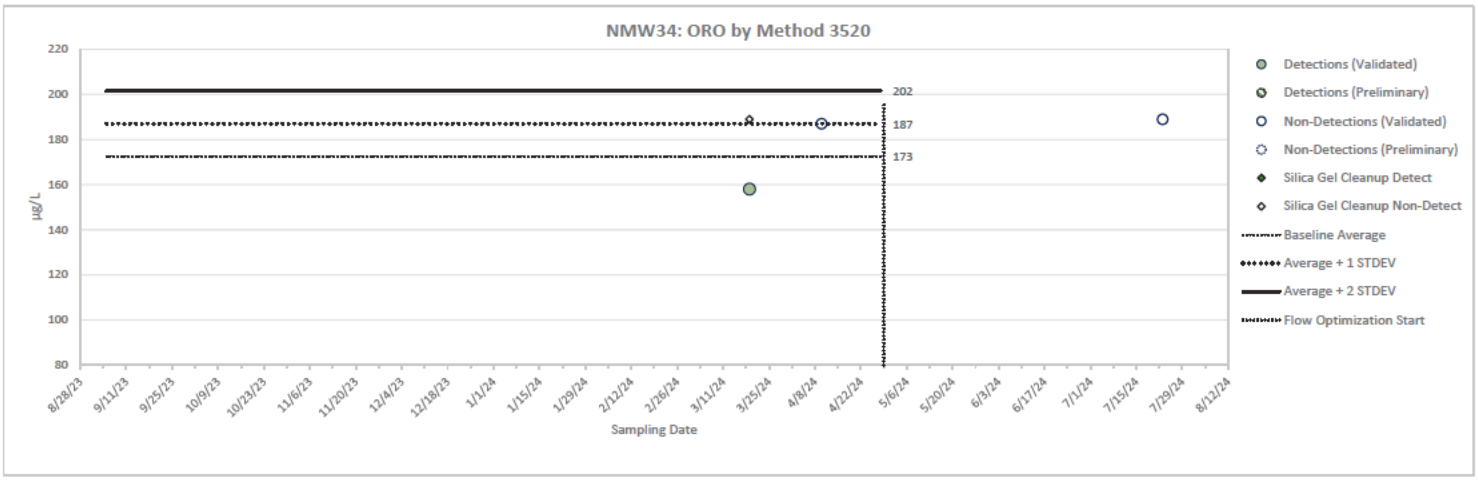
Note: See Data Legend

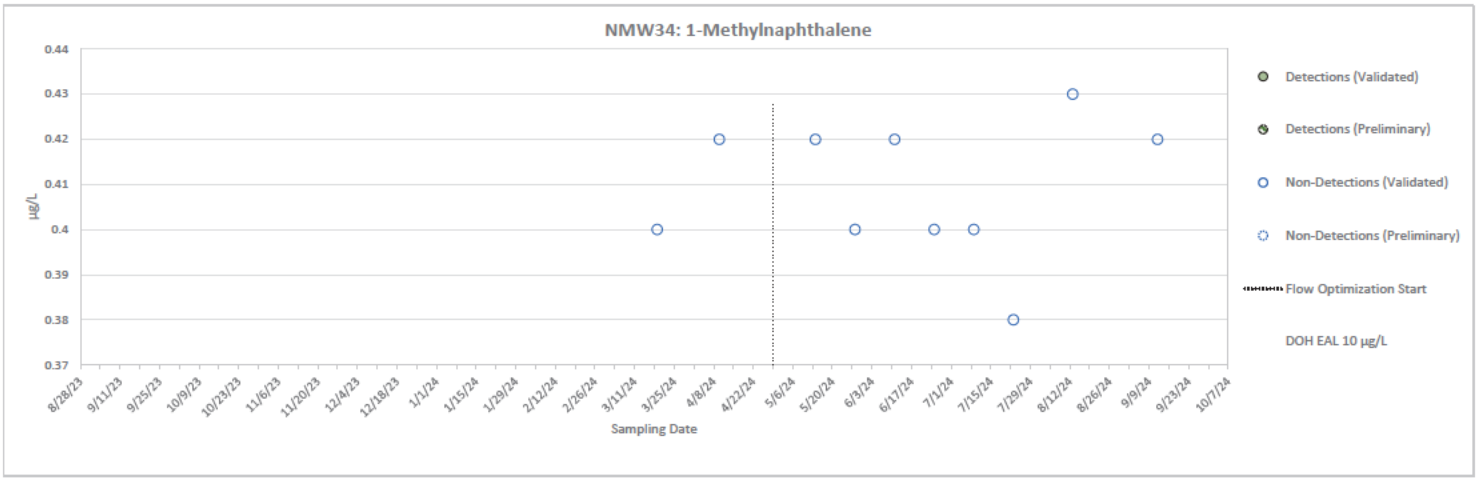

NMW34: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

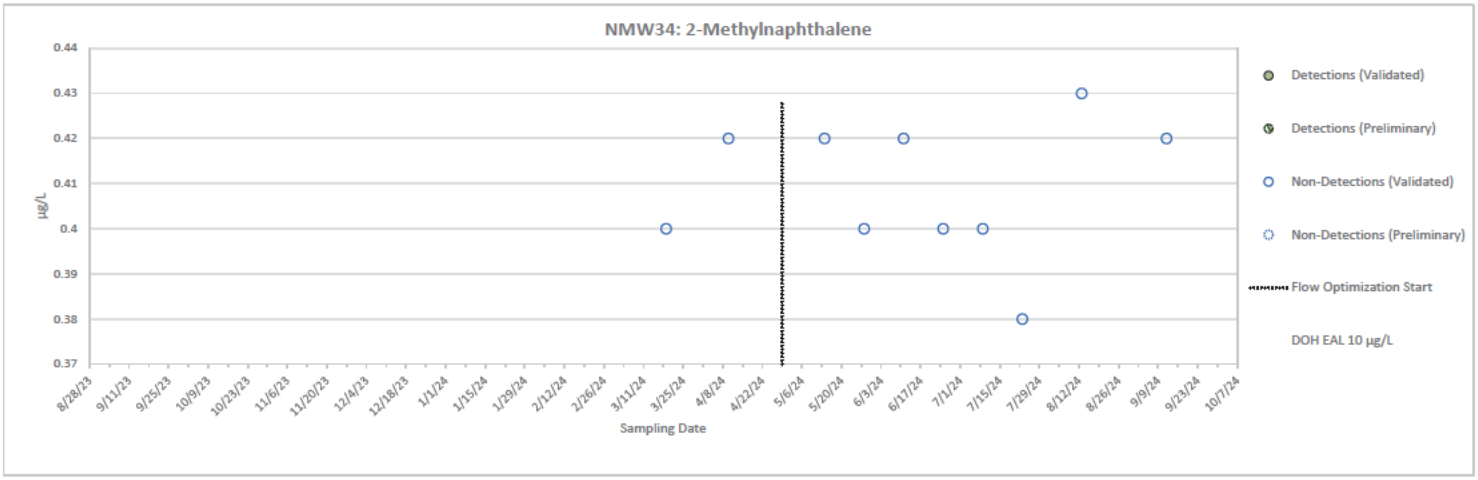

NMW34: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

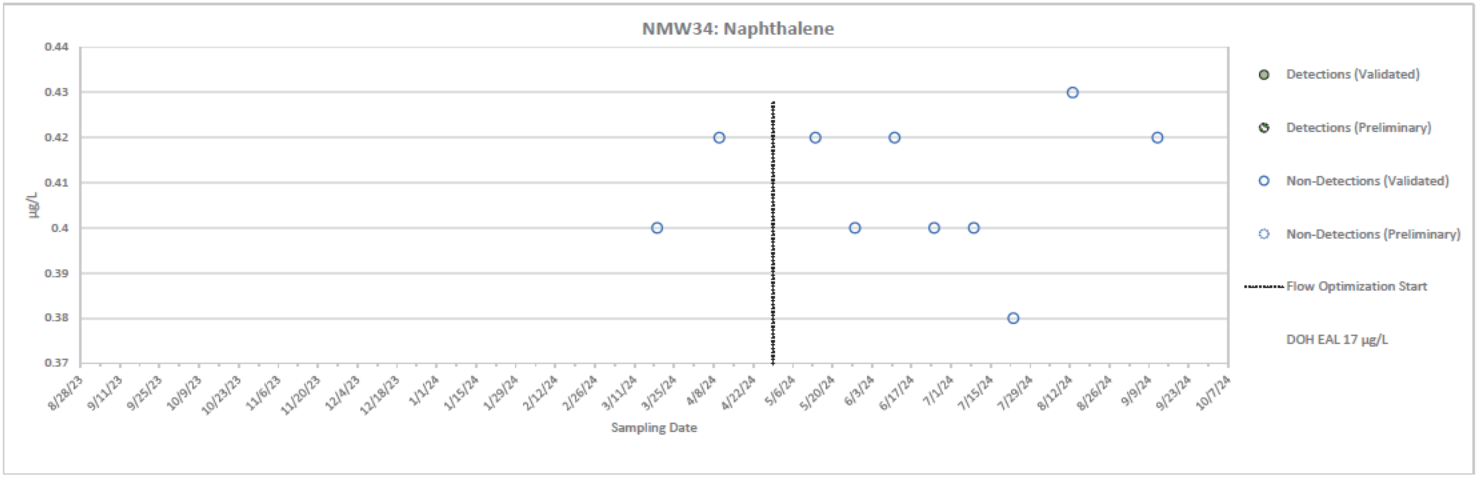

NMW34: DRO by Method 3520
µg/L
Sampling Date
181
140
99
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


NMW34: ORO by Method 3510
µg/L
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
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

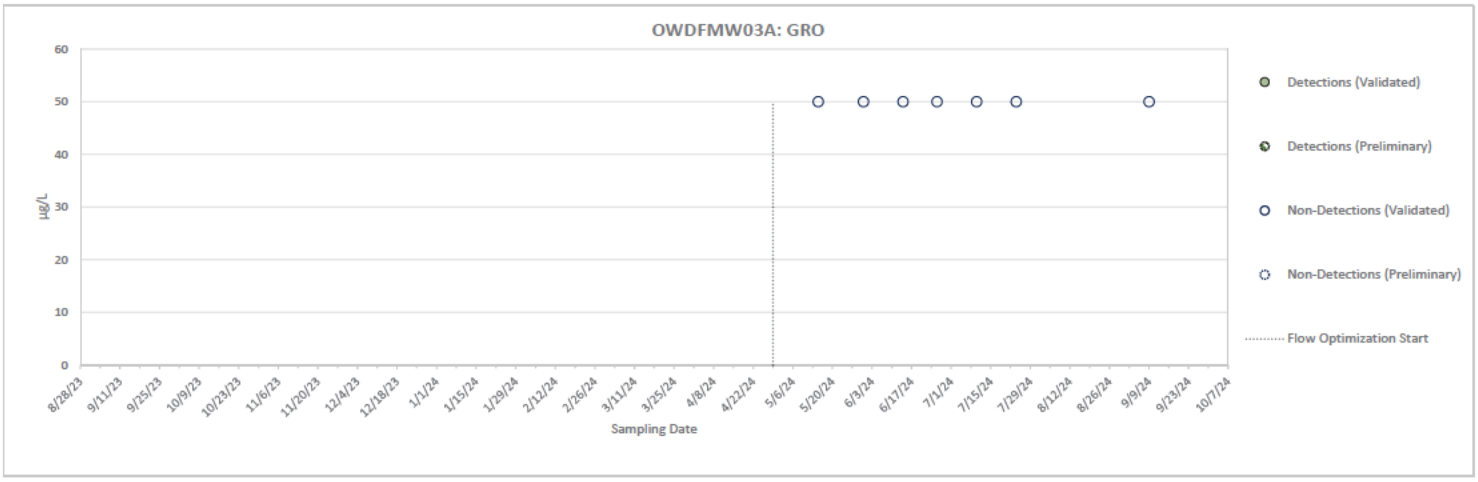

NMW34: ORO by Method 3520
µg/L
220
200
180
160
140
120
100
80
202
187
173
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (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

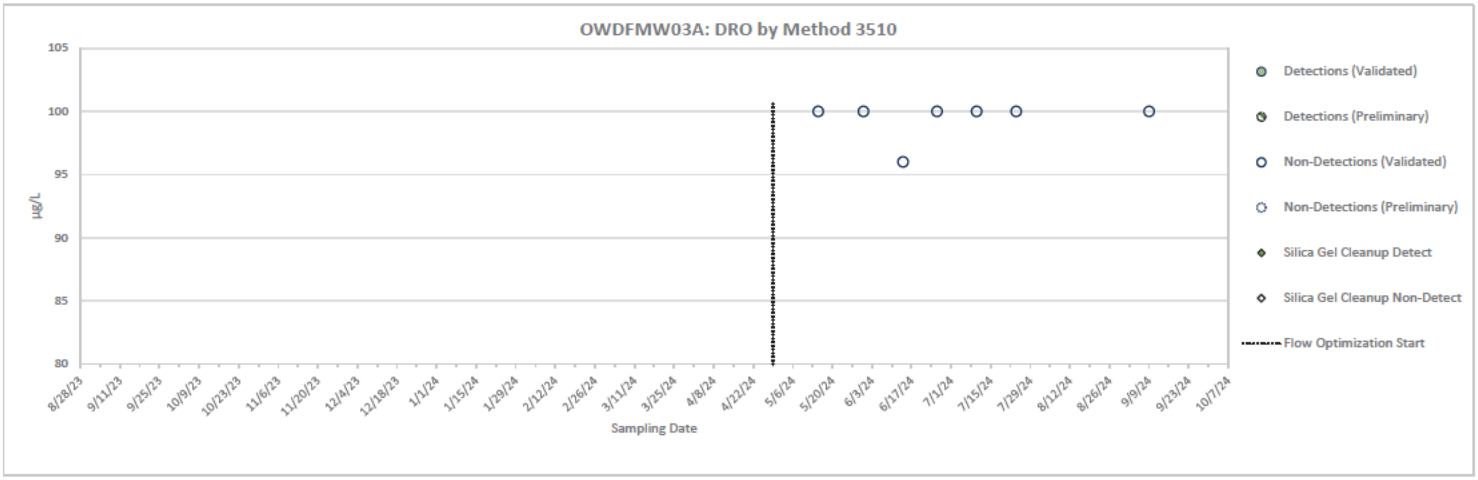


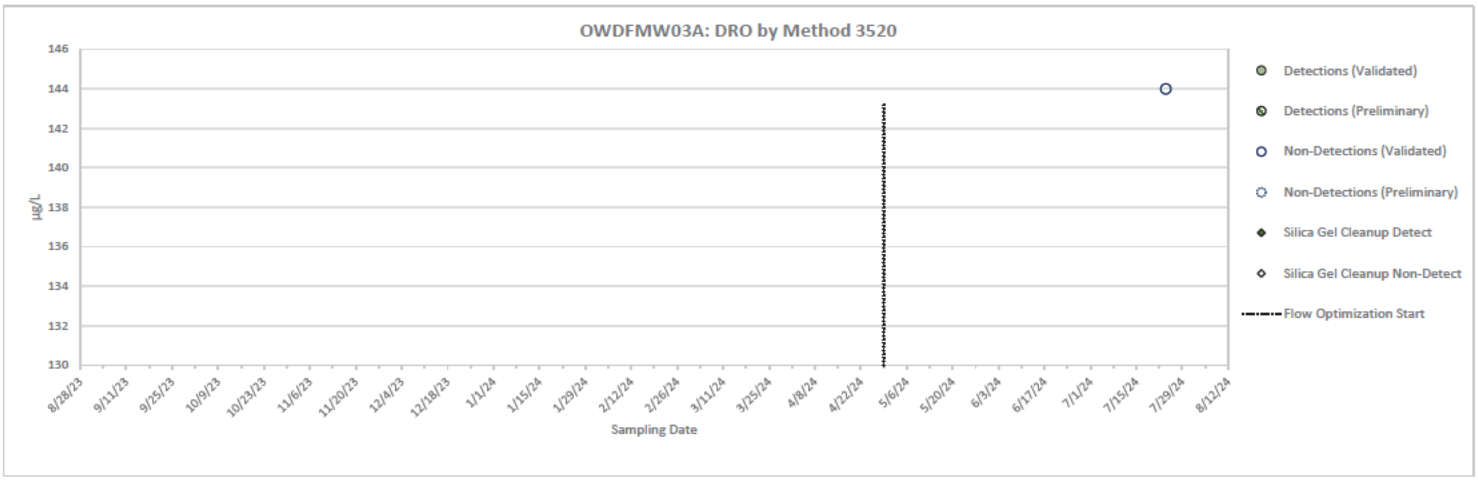


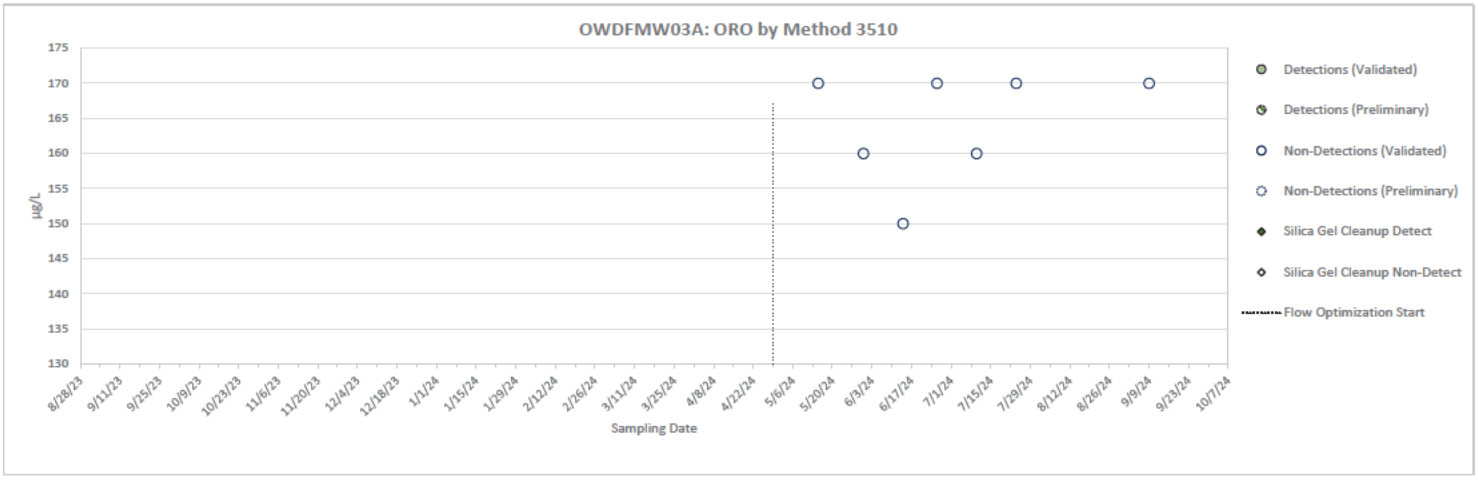


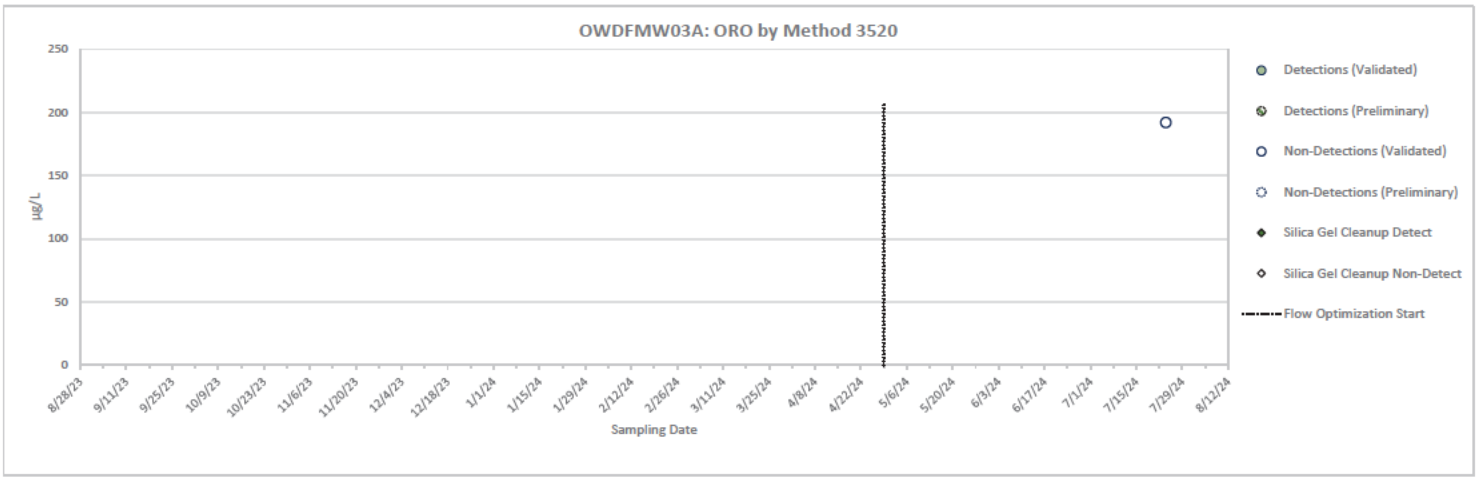
Note: See Data Legend

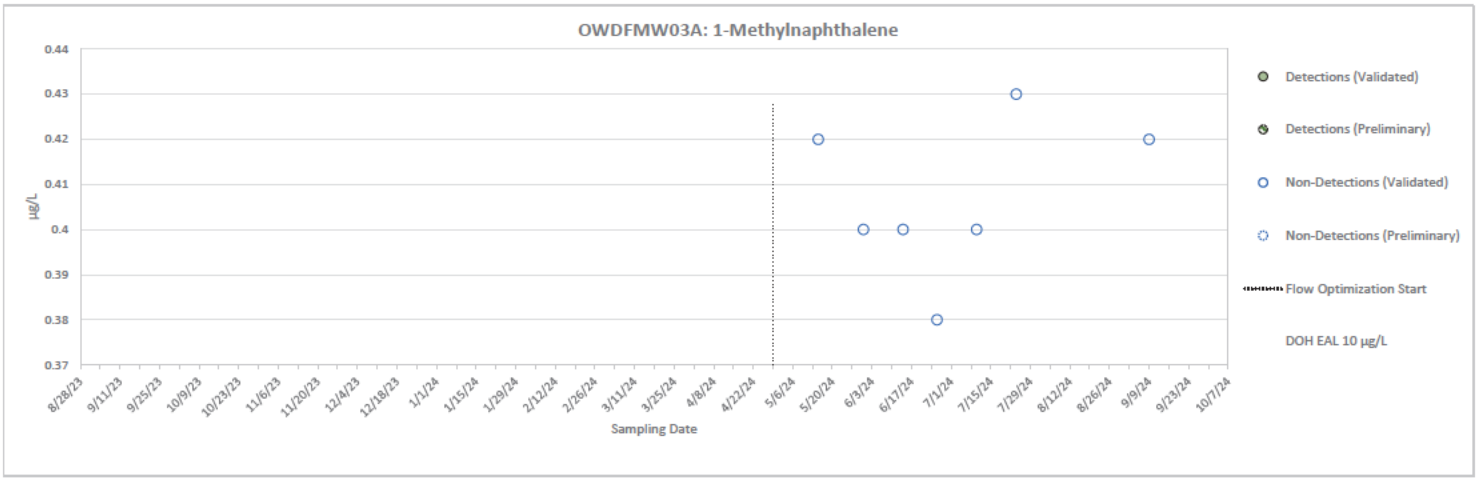

OWDFMW03A: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

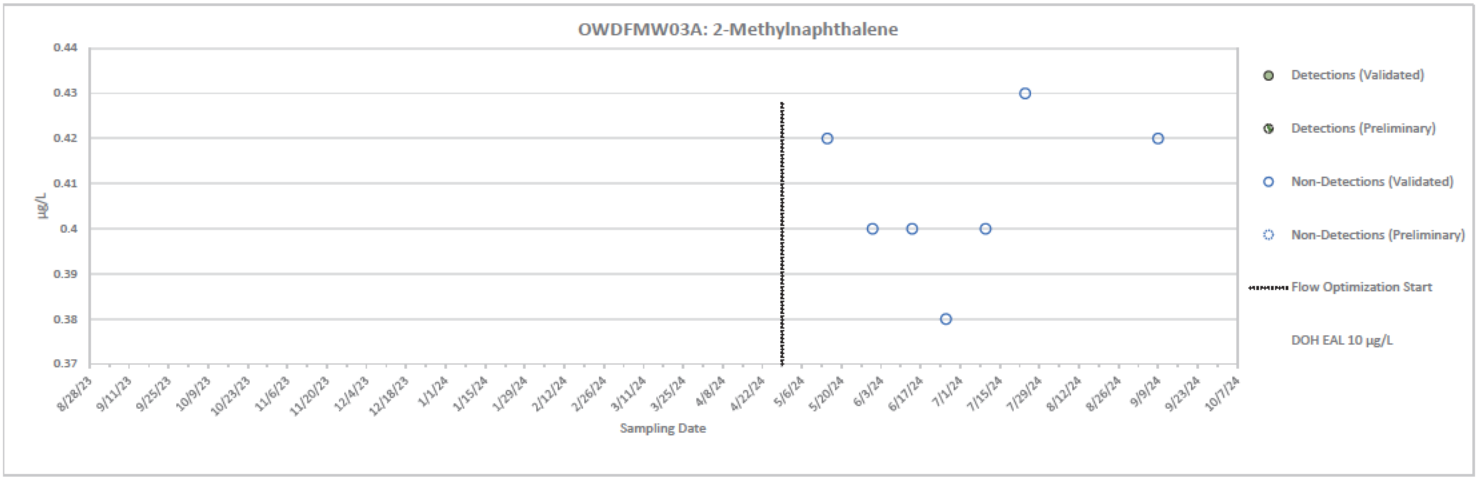

OWDFMW03A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

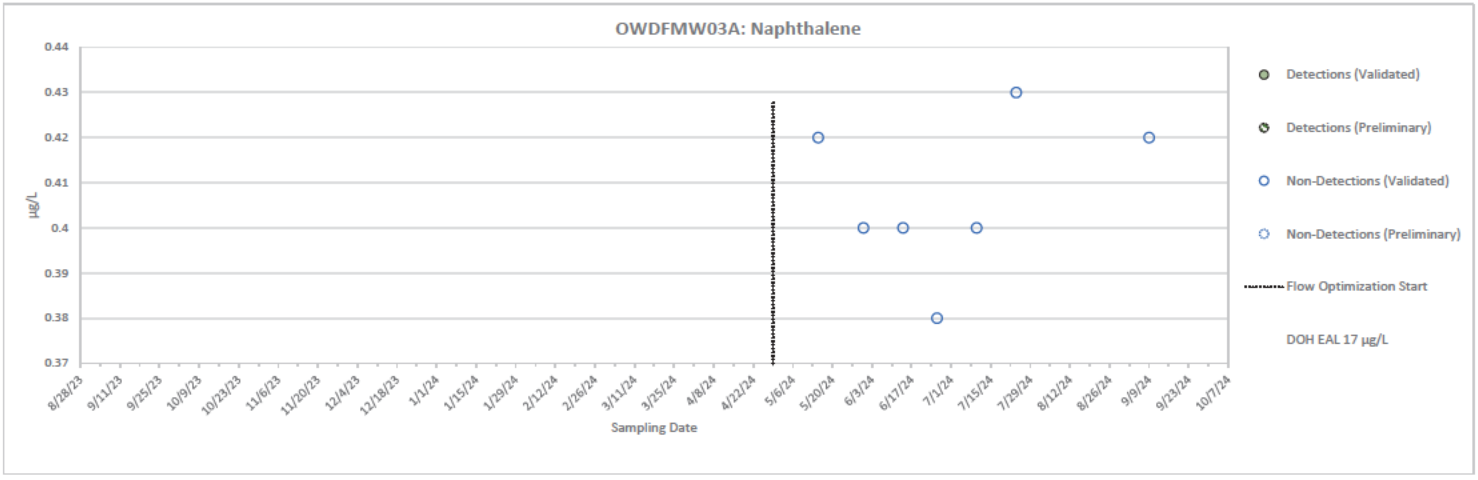

OWDFMW03A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

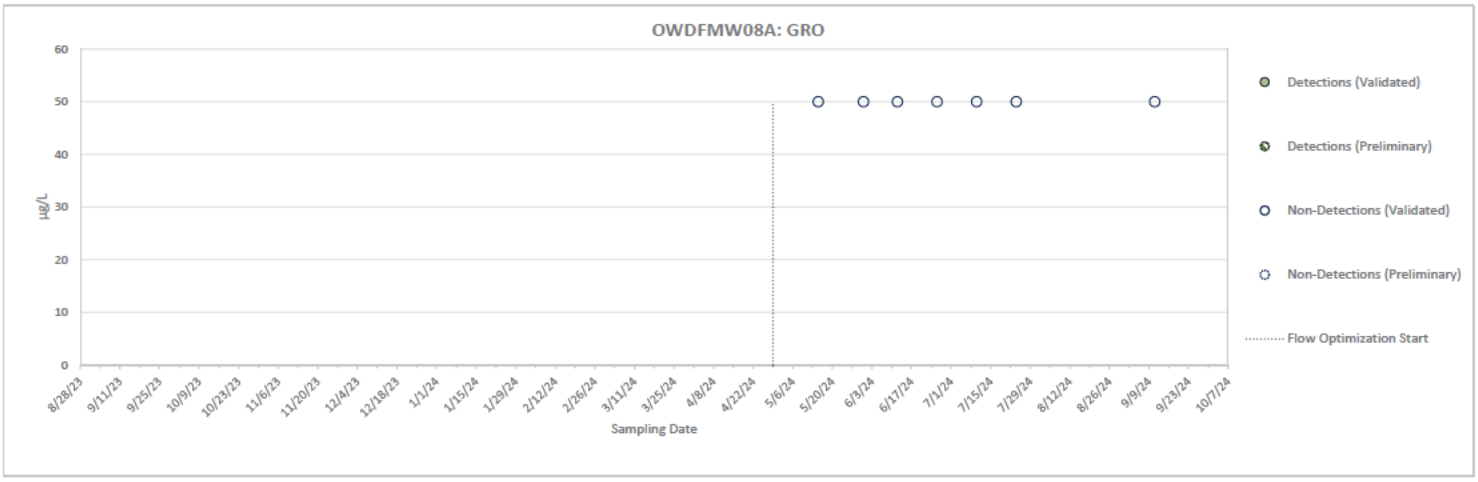

OWDFMW03A: ORO by Method 3520
µg/L
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

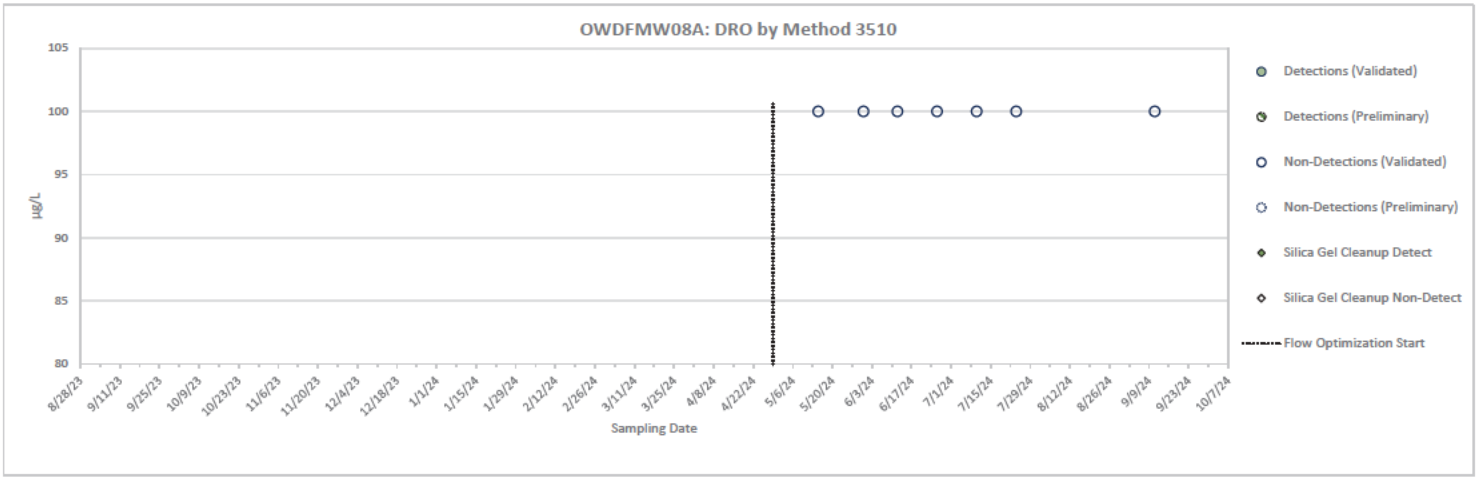


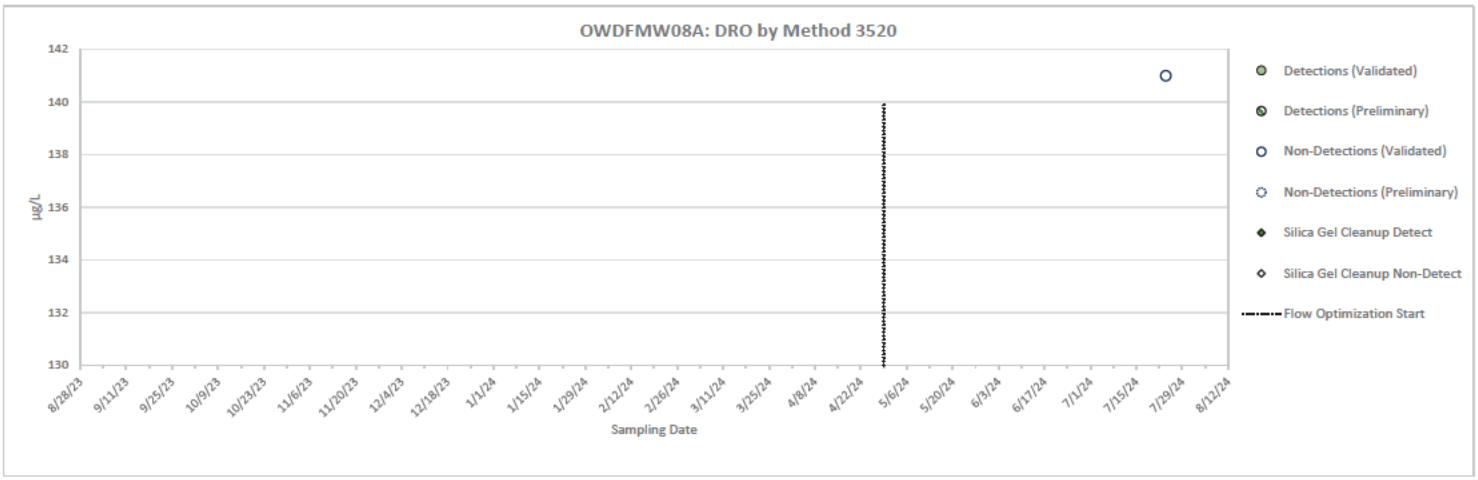


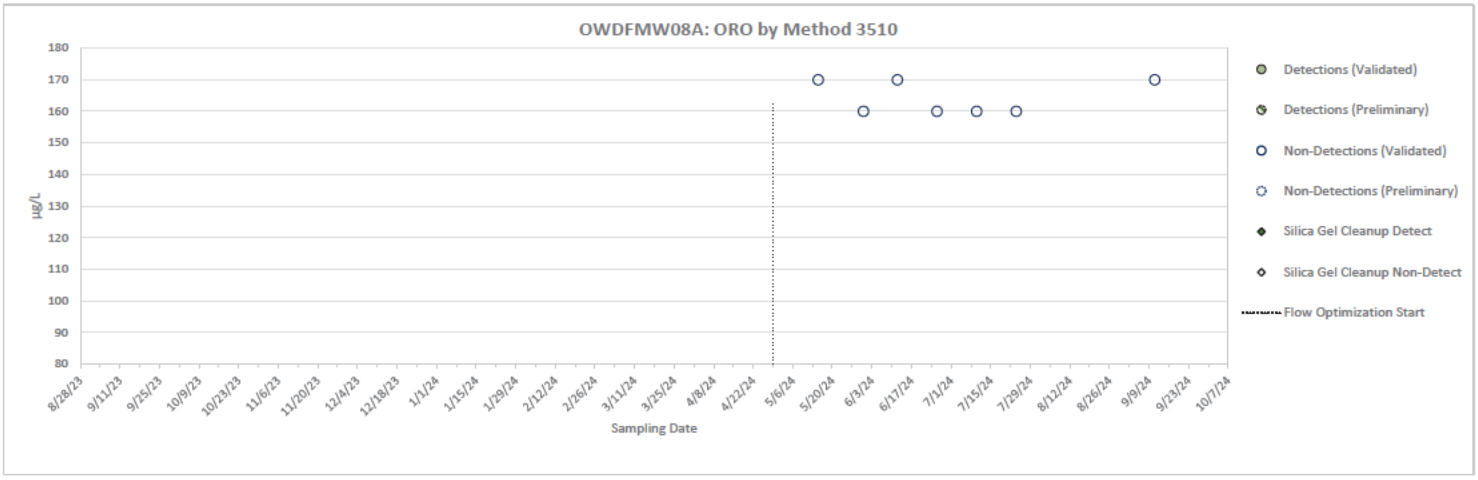


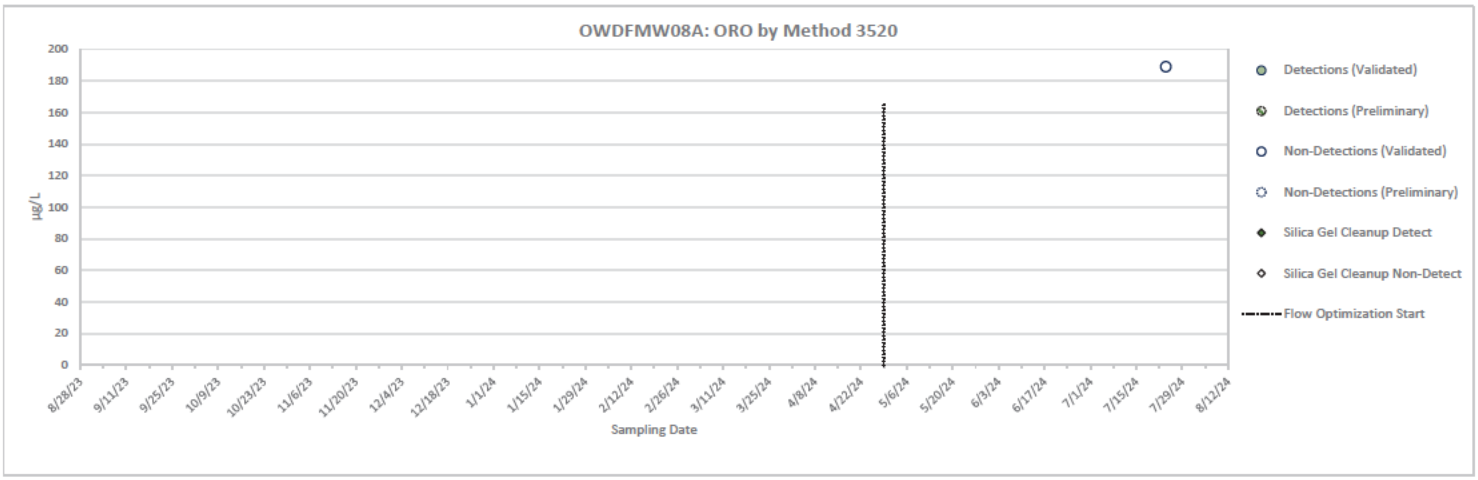
Note: See Data Legend

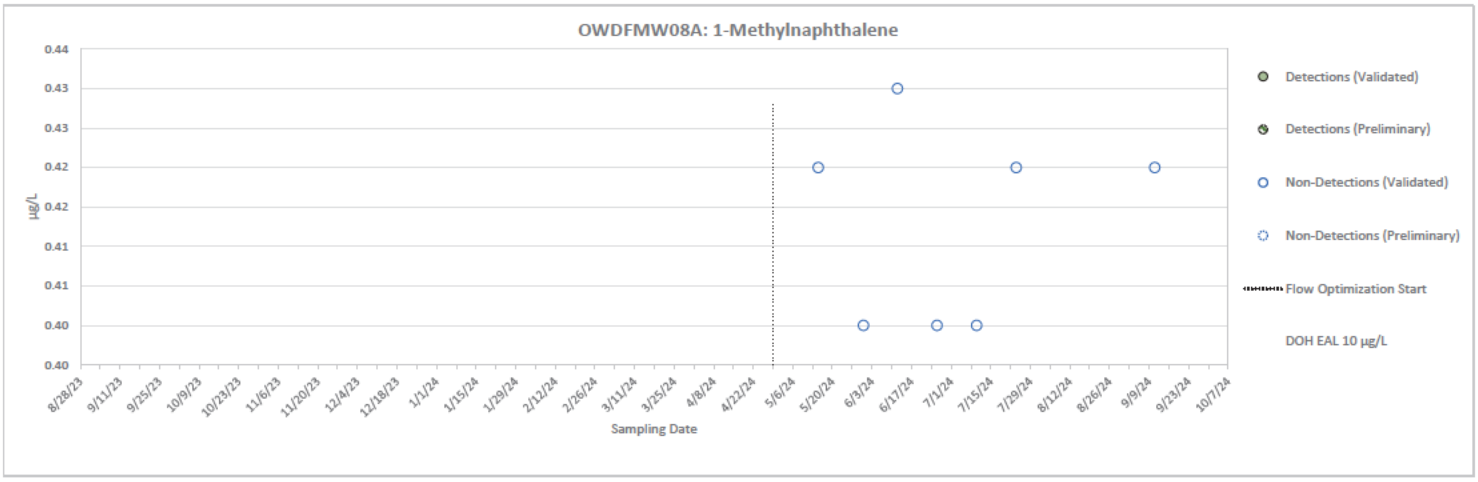

OWDFMW08A: GRO
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Flow Optimization Start

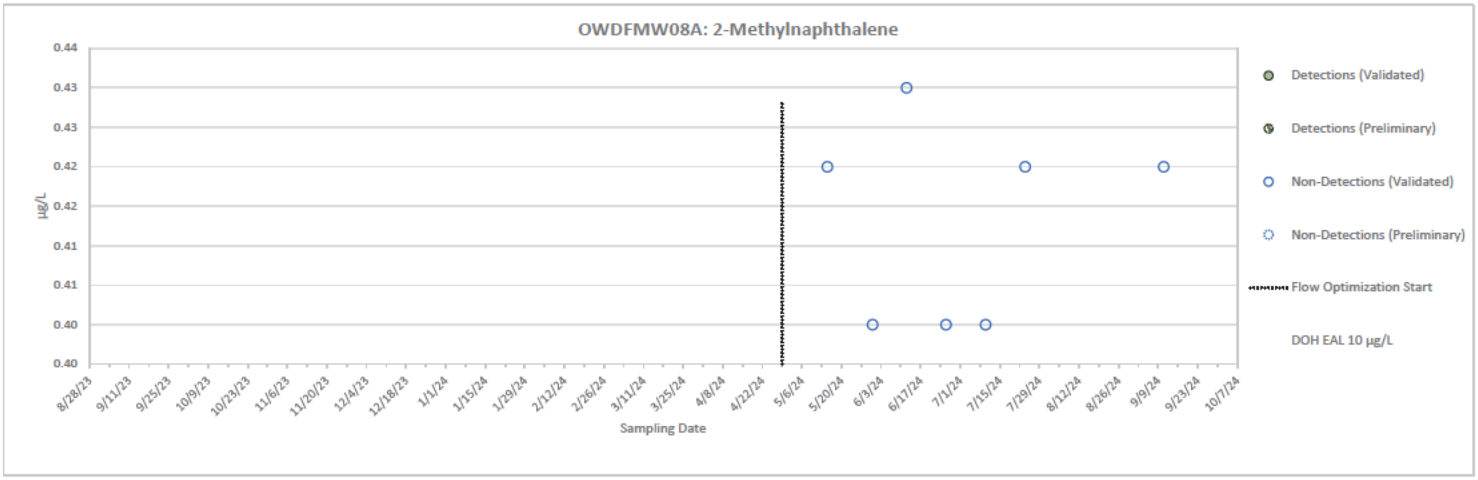

OWDFMW08A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

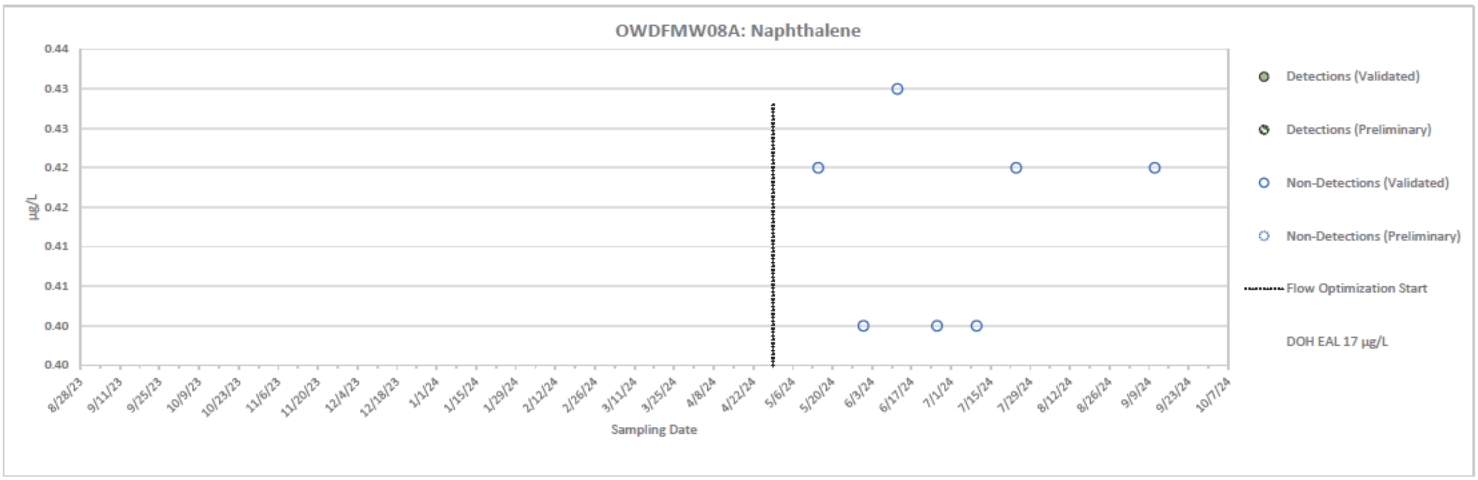

OWDFMW08A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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

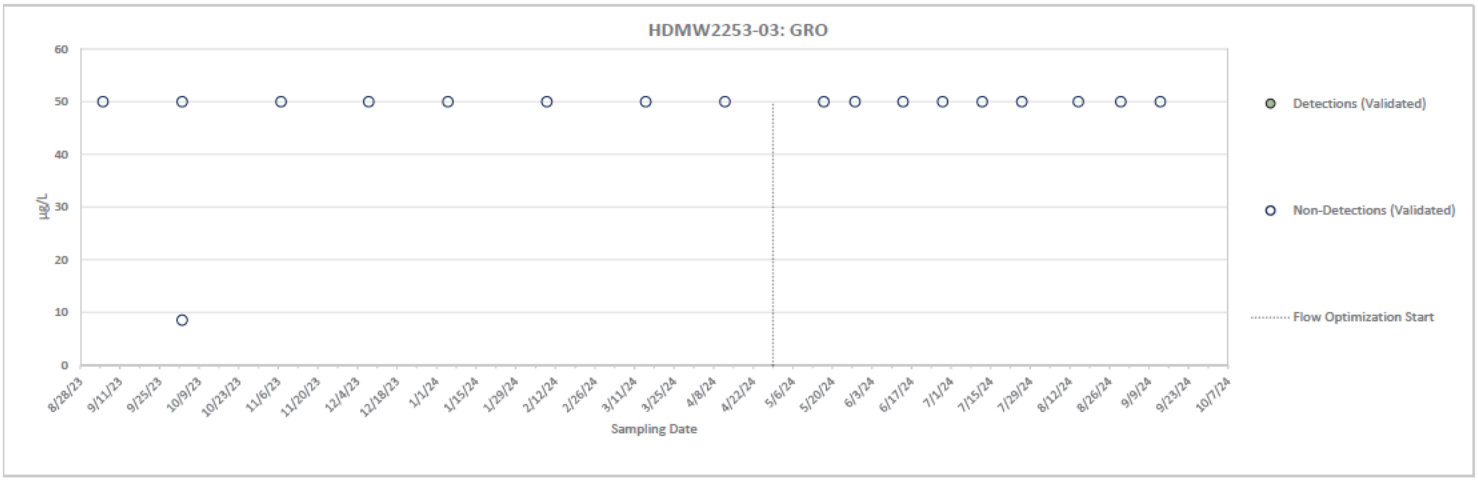

OWDFMW08A: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Detections (Preliminary)
Non-Detections (Validated)
Non-Detections (Preliminary)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

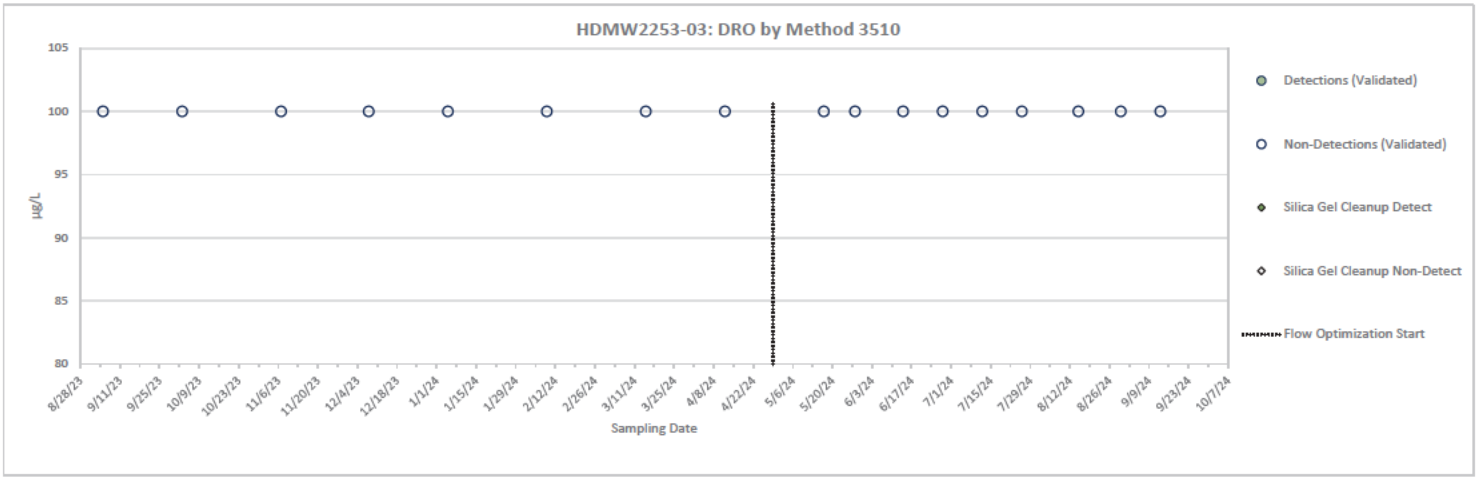


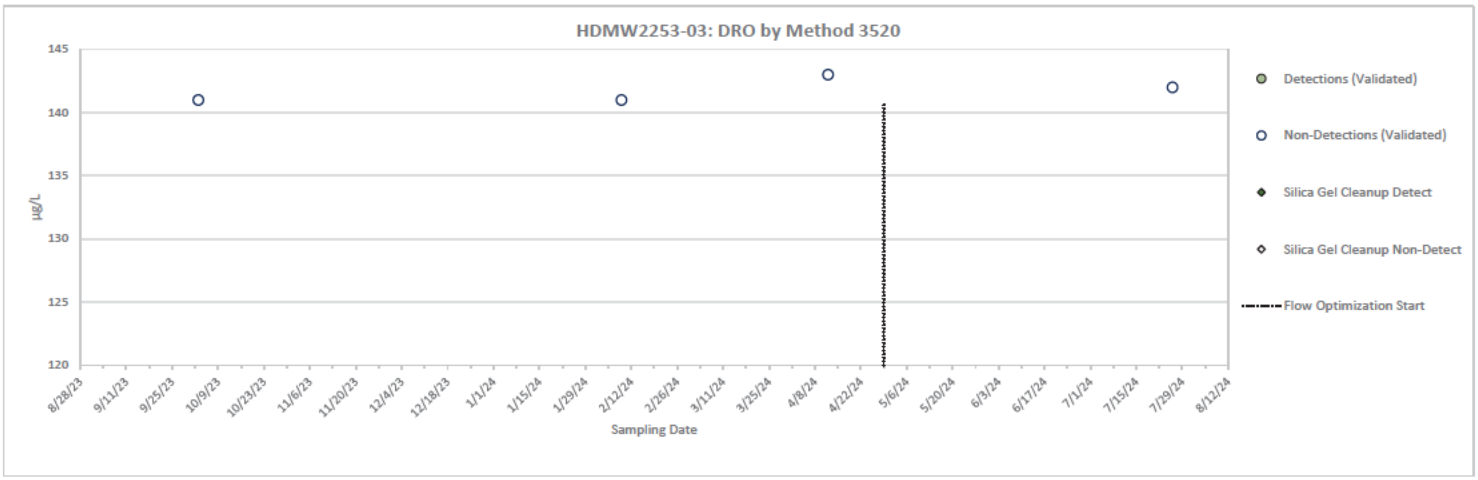


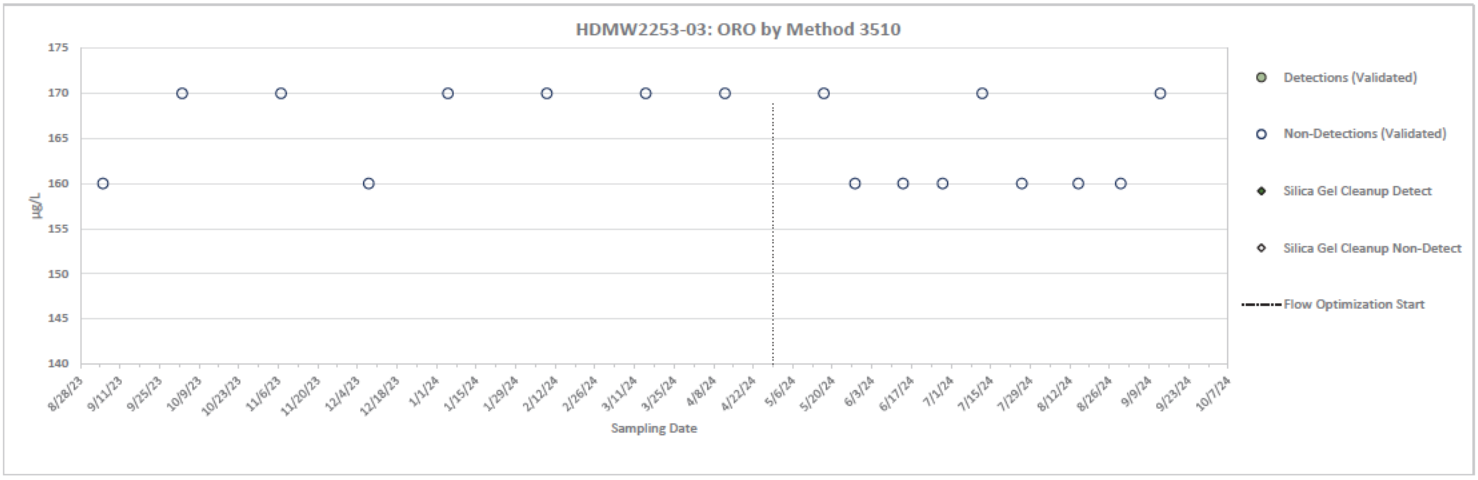


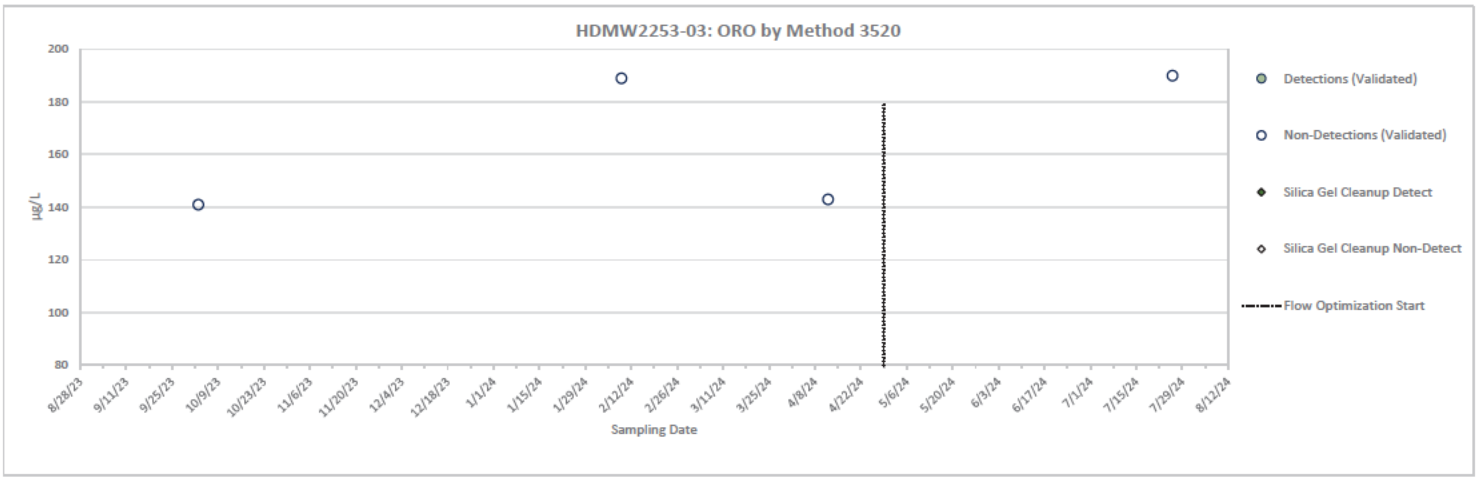
Note: See Data Legend

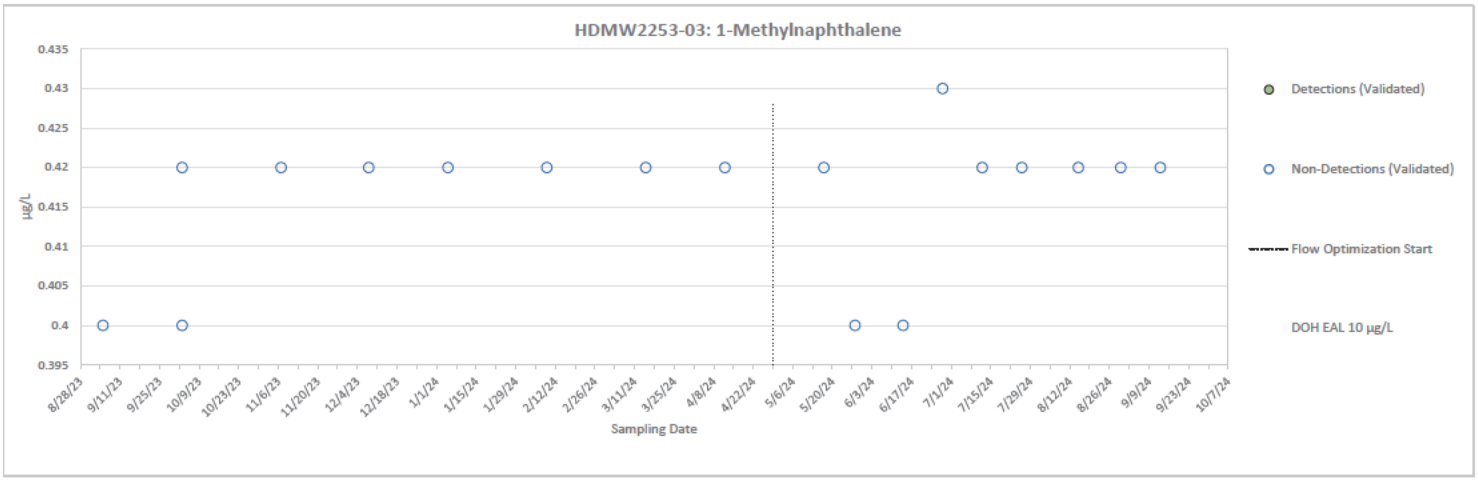

HDMW2253-03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

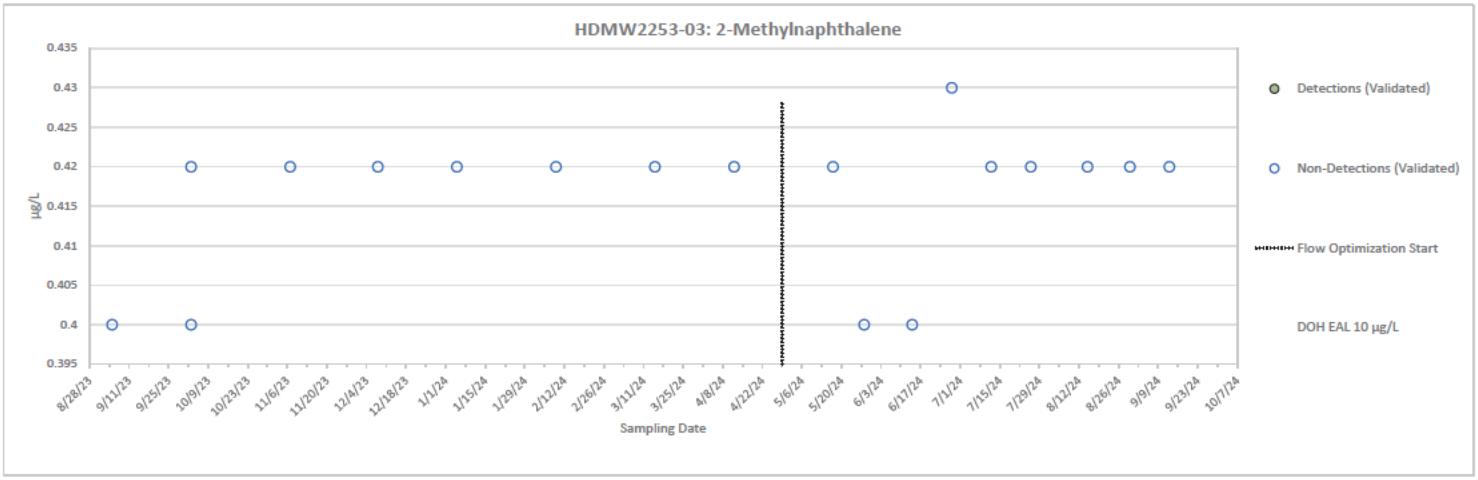

HDMW2253-03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

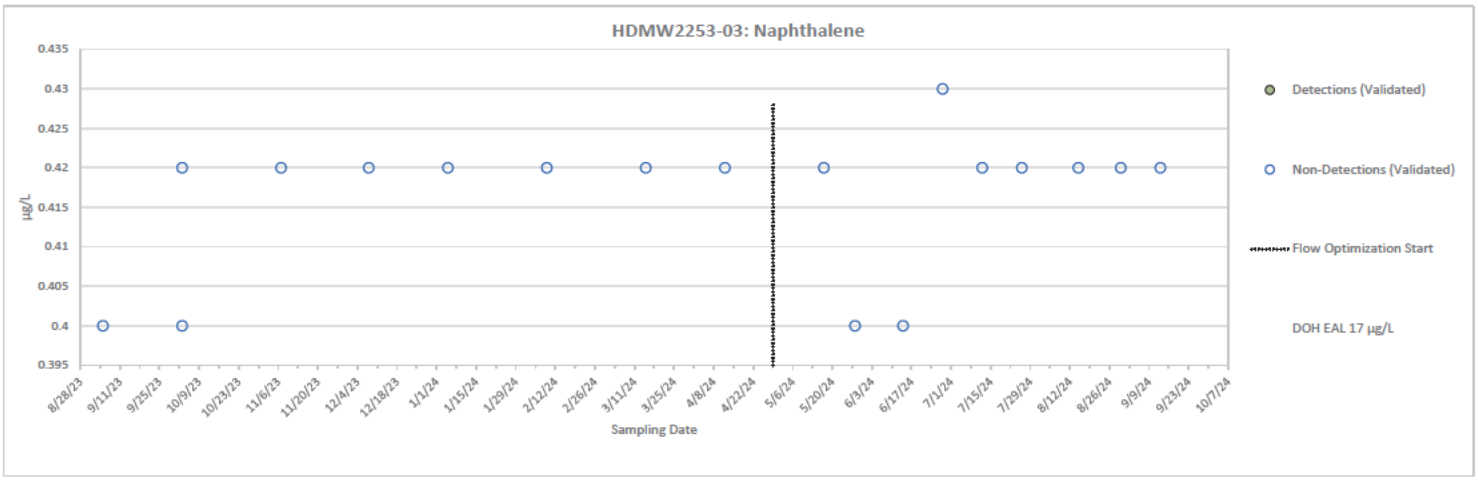

HDMW2253-03: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


HDMW2253-03: ORO by Method 3510
175
170
165
160
155
150
145
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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

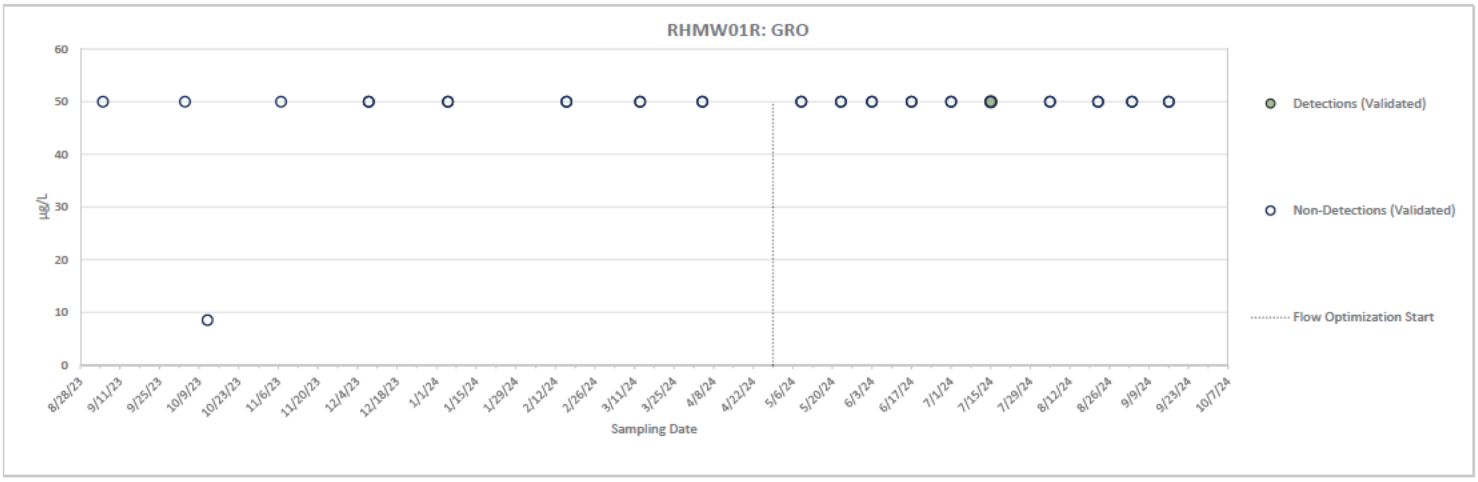

HDMW2253-03: ORO by Method 3520
200
180
160
140
120
100
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

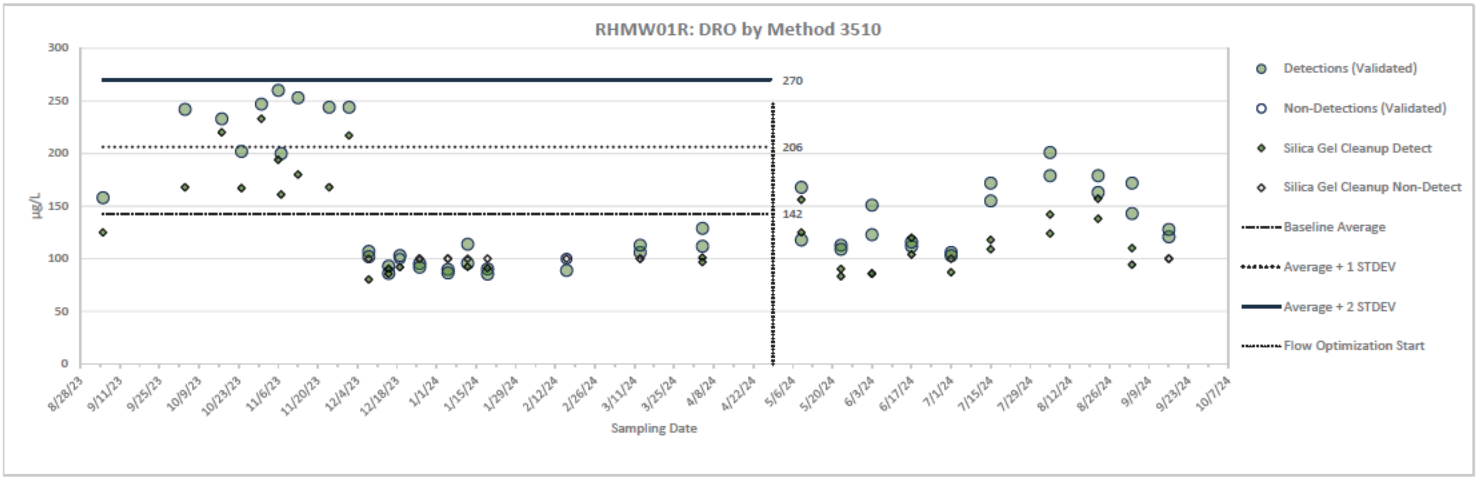


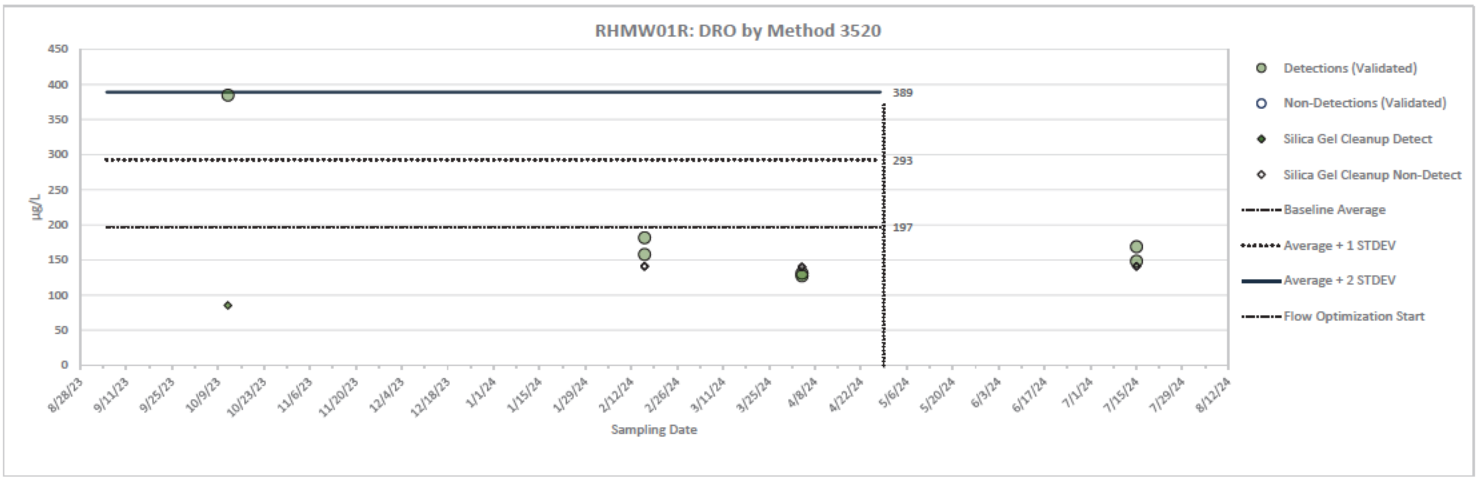


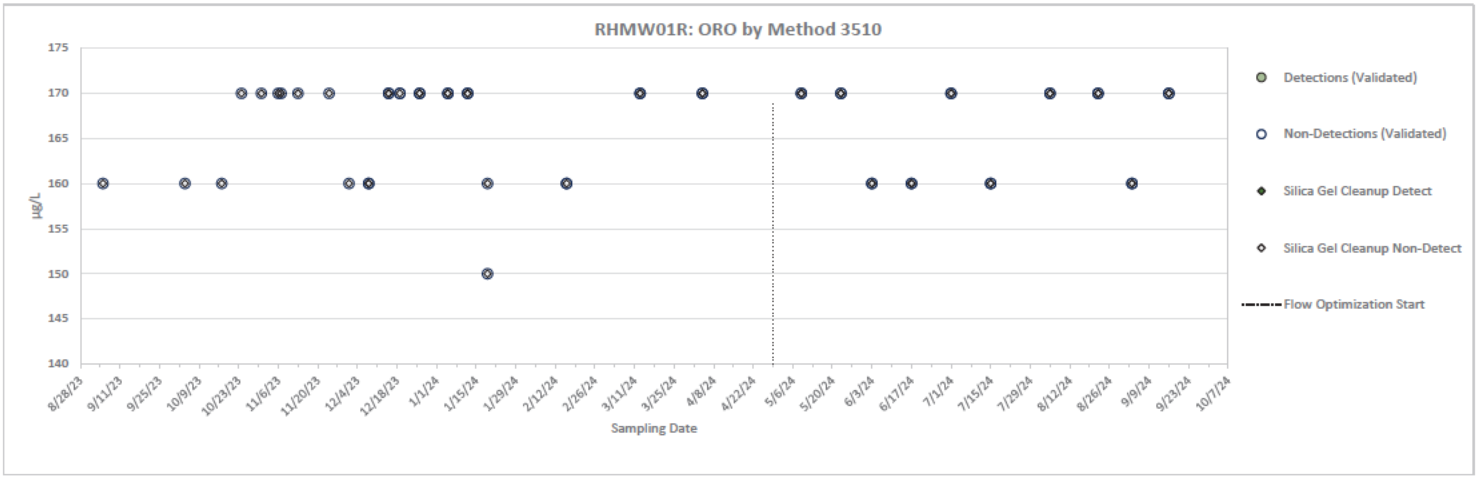


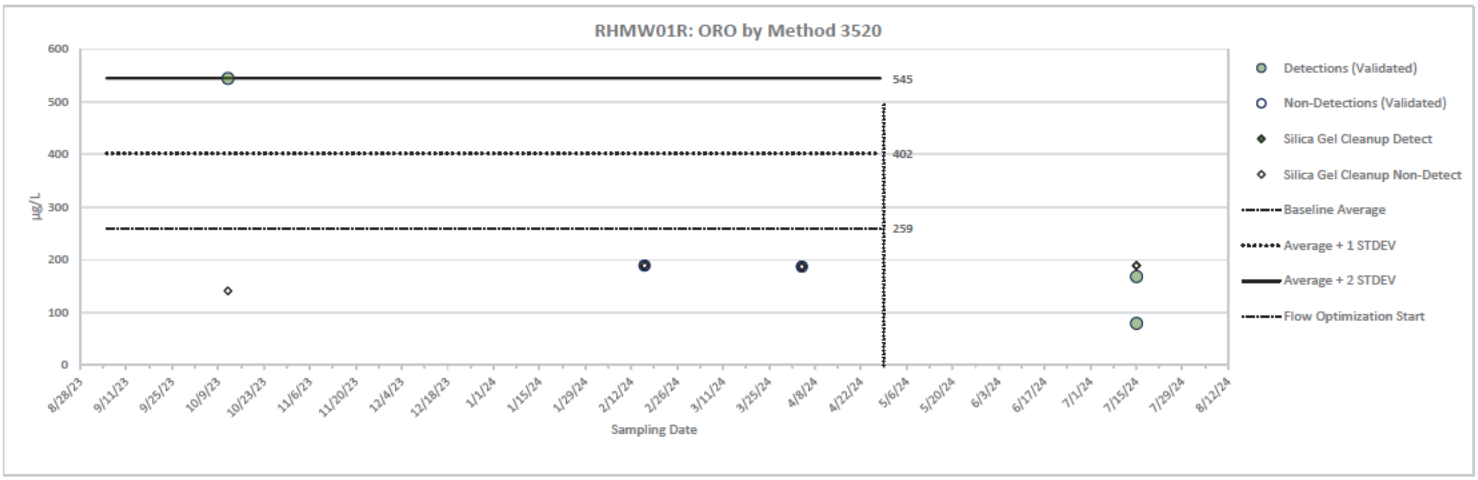
Note: See Data Legend

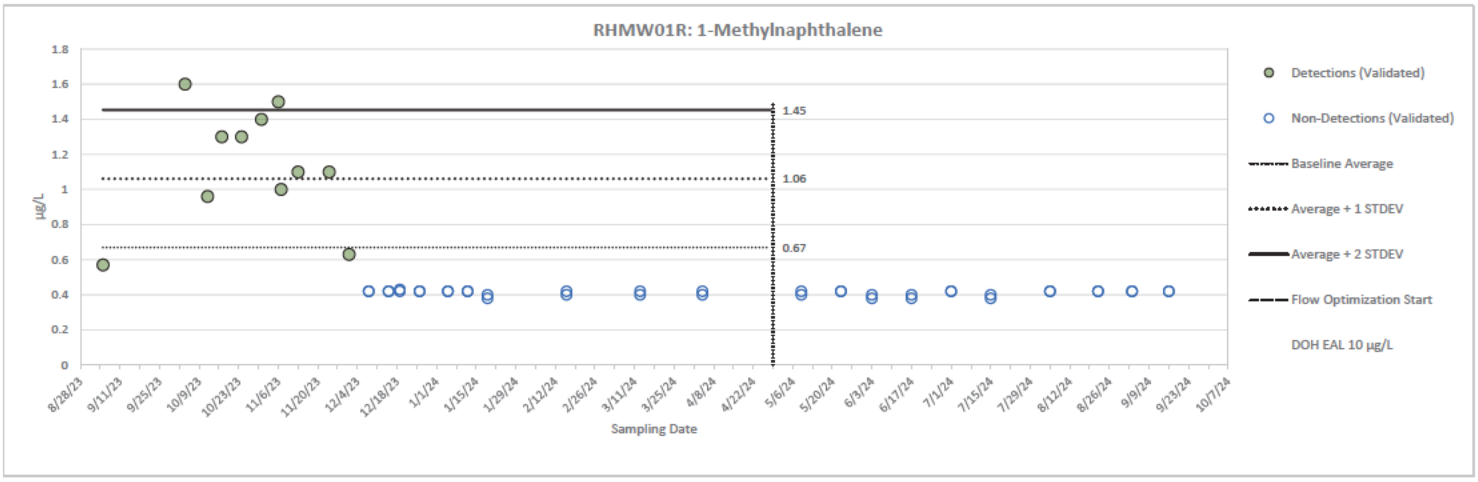

RHMW01R: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

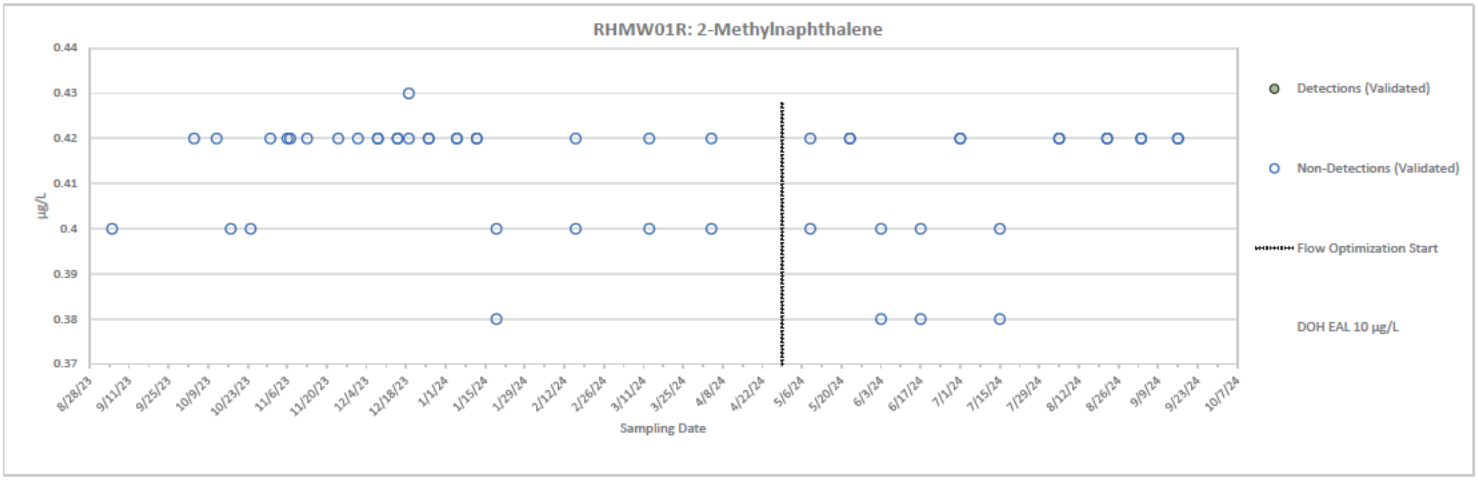

RHMW01R: DRO by Method 3510
µg/L
Sampling Date
270
206
142
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

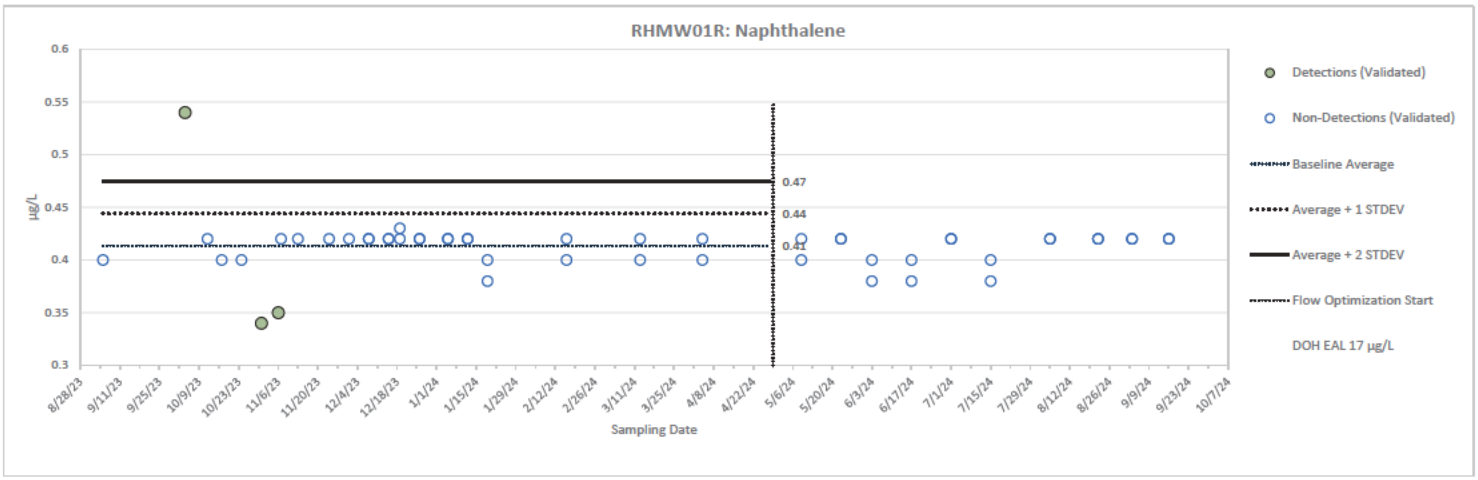

RHMW01R: DRO by Method 3520
µg/L
Sampling Date
389
293
197
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

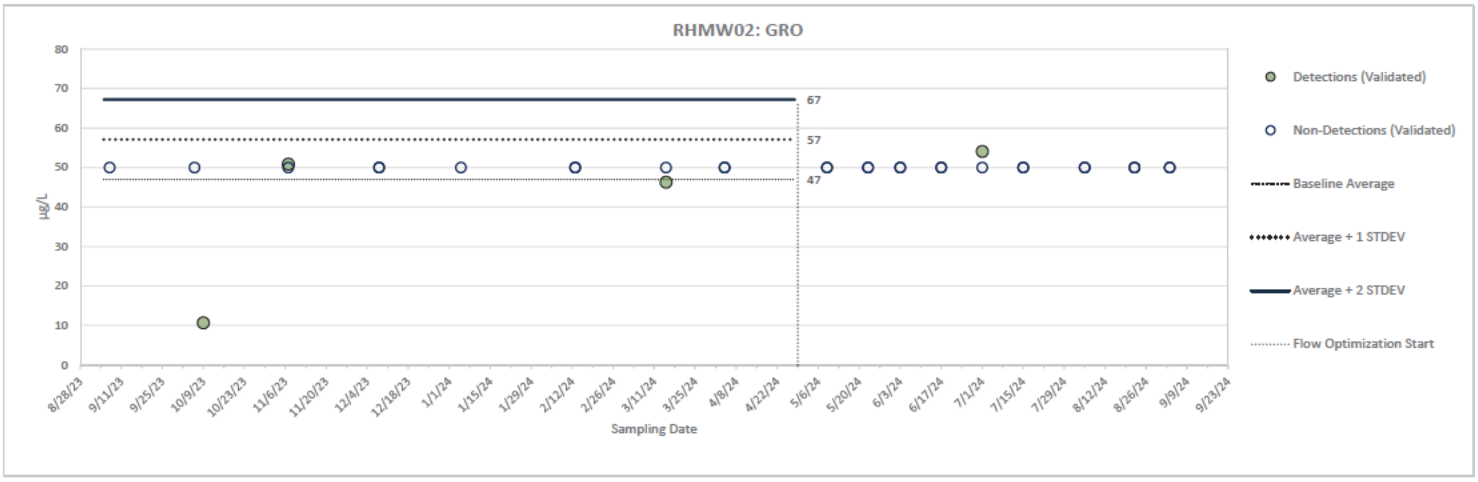

RHMW01R: ORO by Method 3520
µg/L
600
500
400
300
200
100
0
545
402
259
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

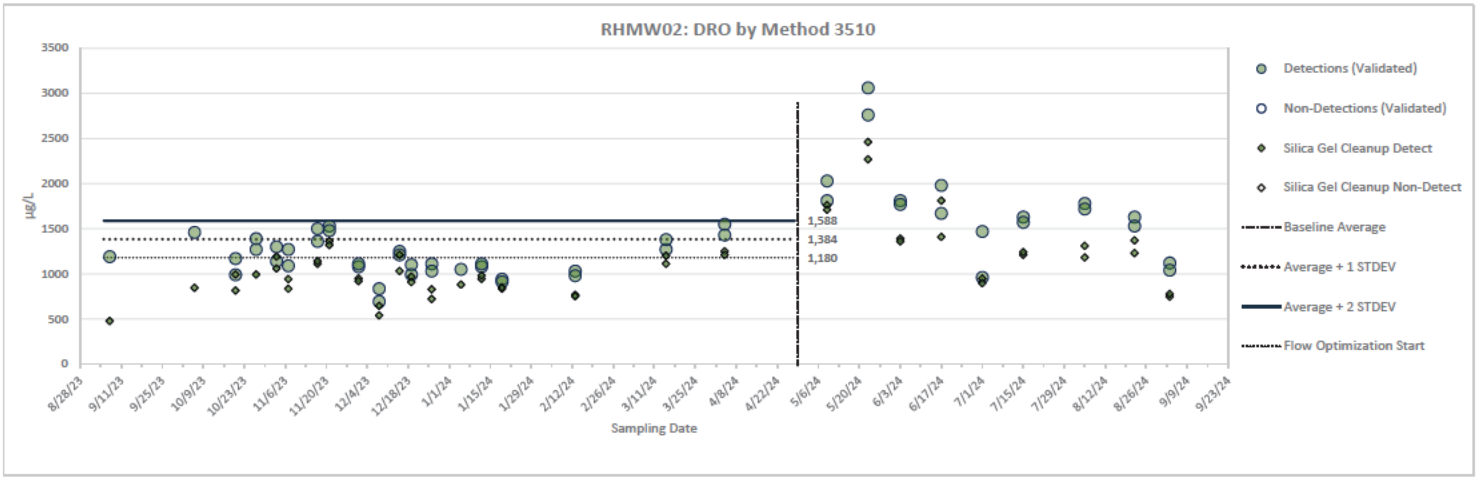


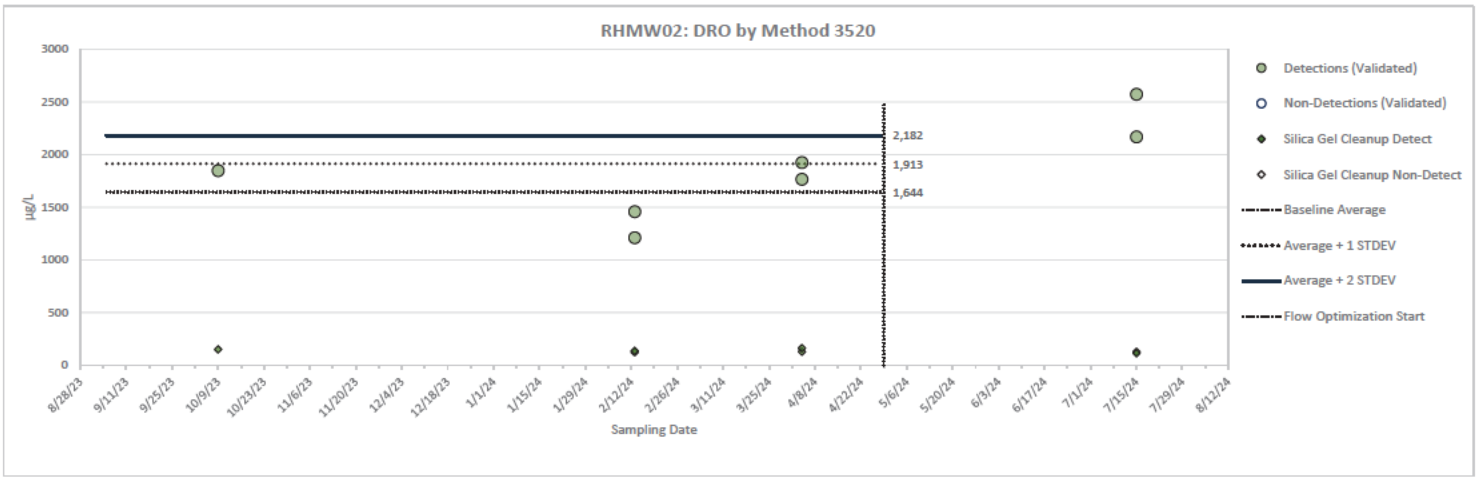


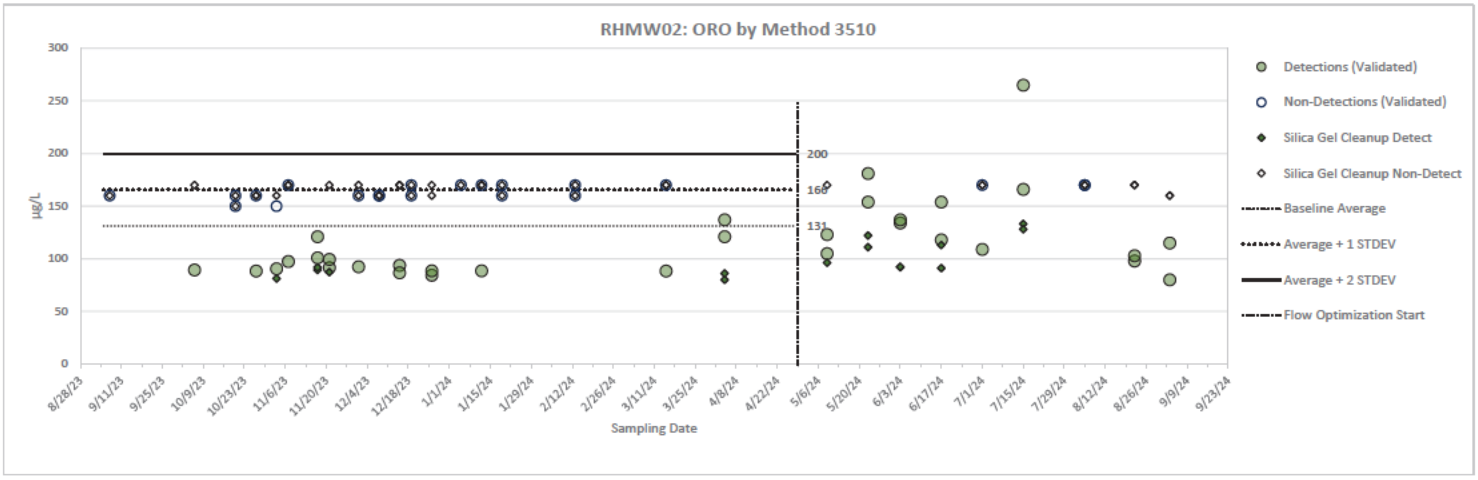


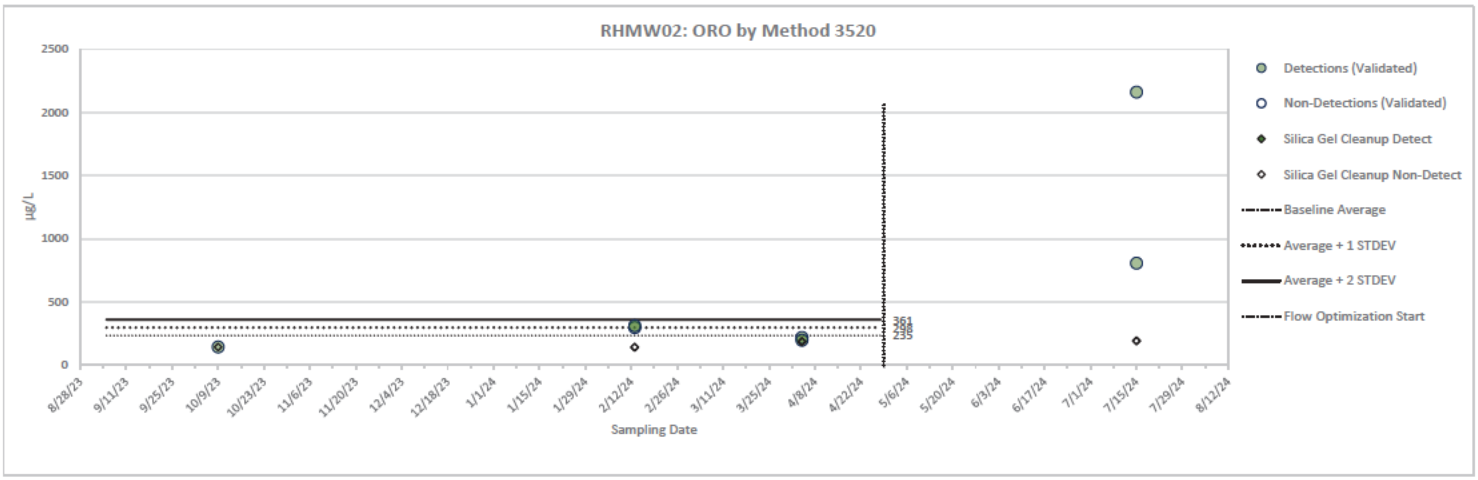
Note: See Data Legend

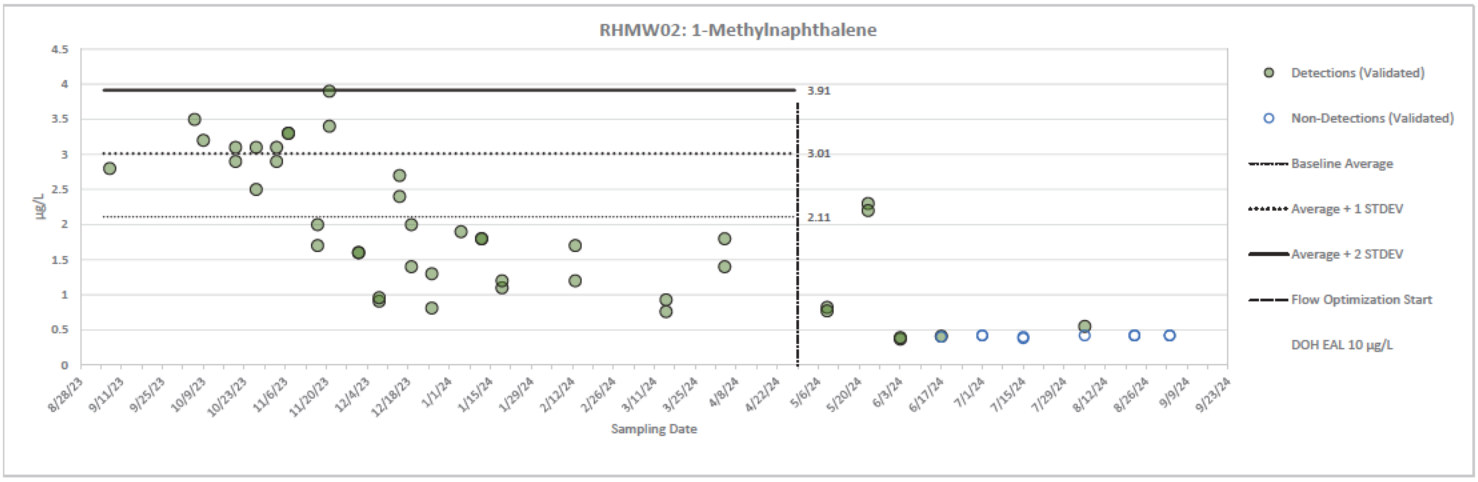

RHMW02: GRO
µg/L
Sampling Date
67
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

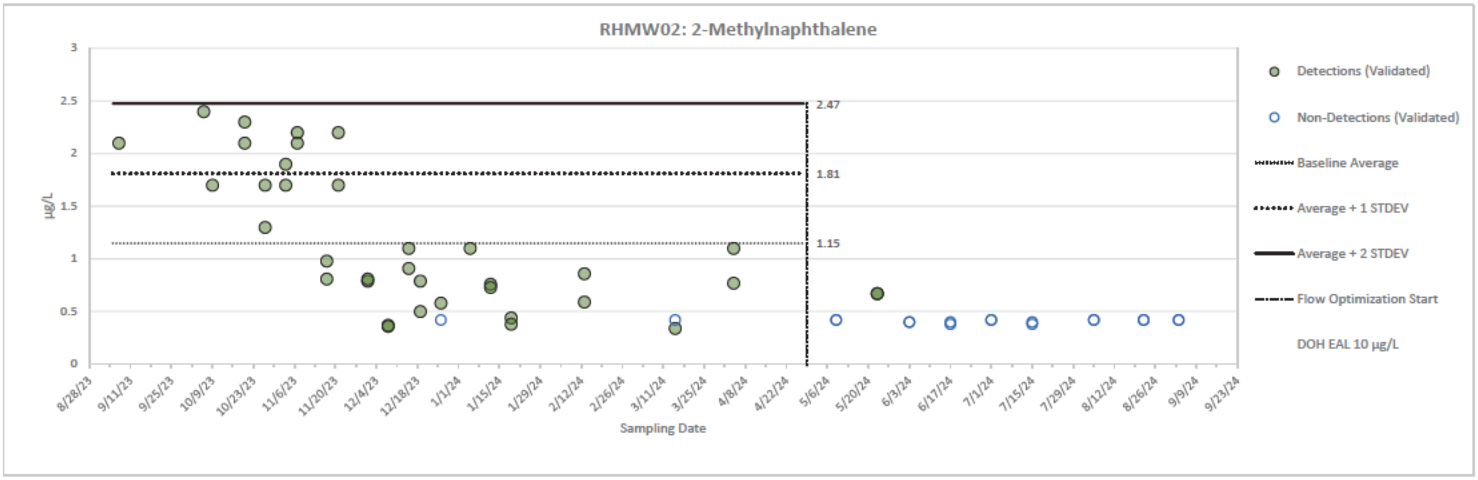

RHMW02: DRO by Method 3510
µg/L
Sampling Date
1,588
1,384
1,180
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

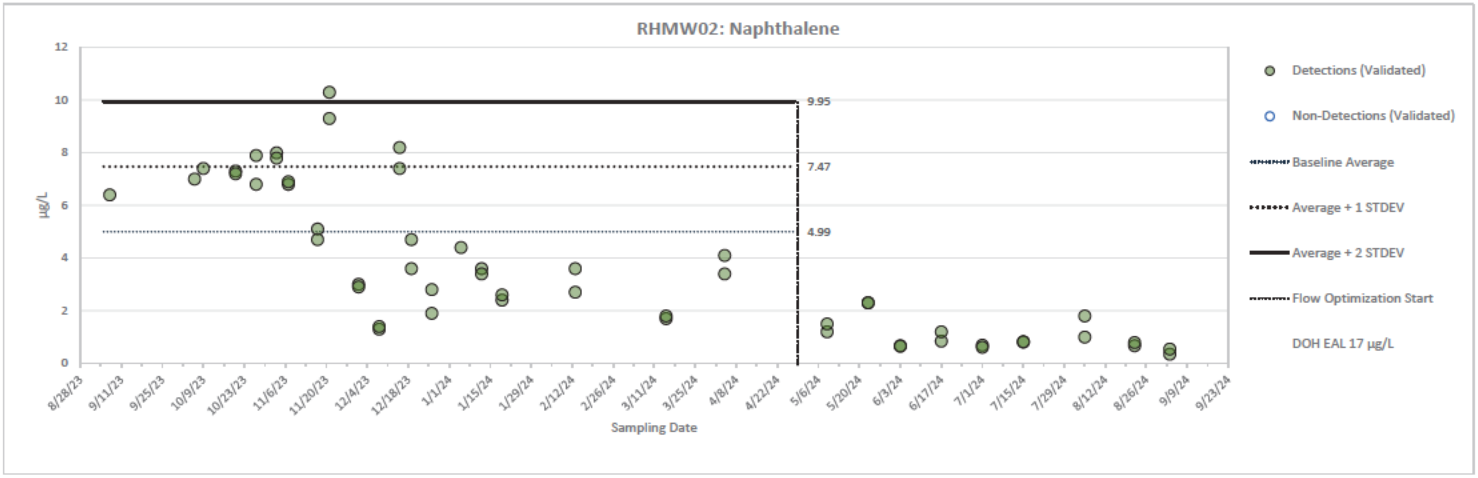

RHMW02: DRO by Method 3520
µg/L
Sampling Date
2,182
1,913
1,644
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW02: ORO by Method 3510
µg/L
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
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

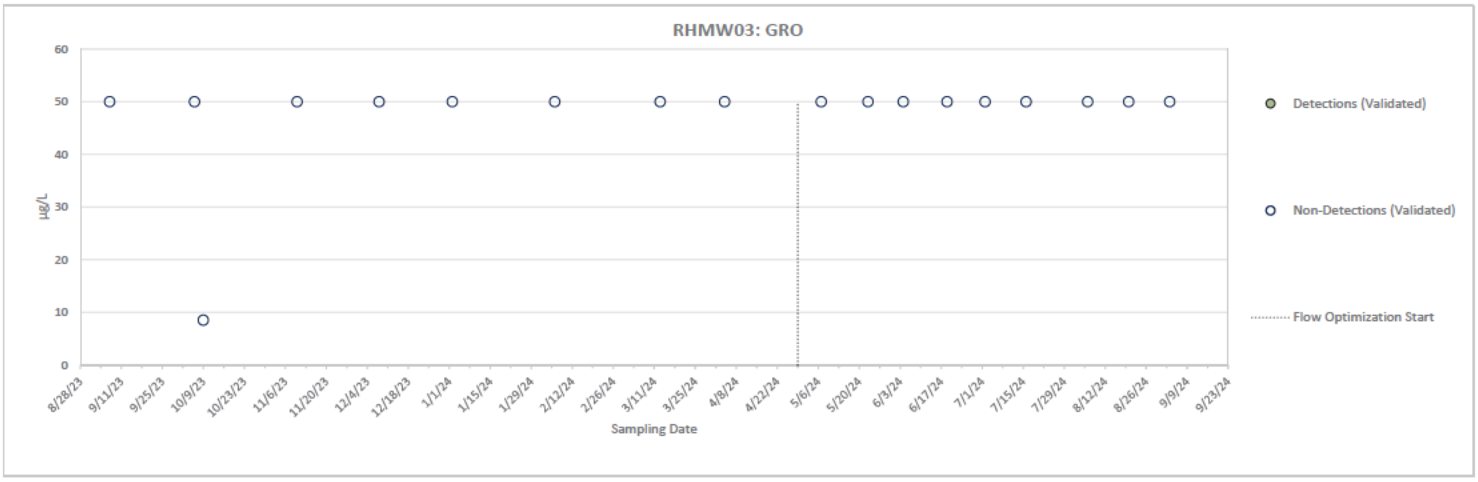

RHMW02: ORO by Method 3520
µg/L
2500
2000
1500
1000
500
0
361
298
235
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

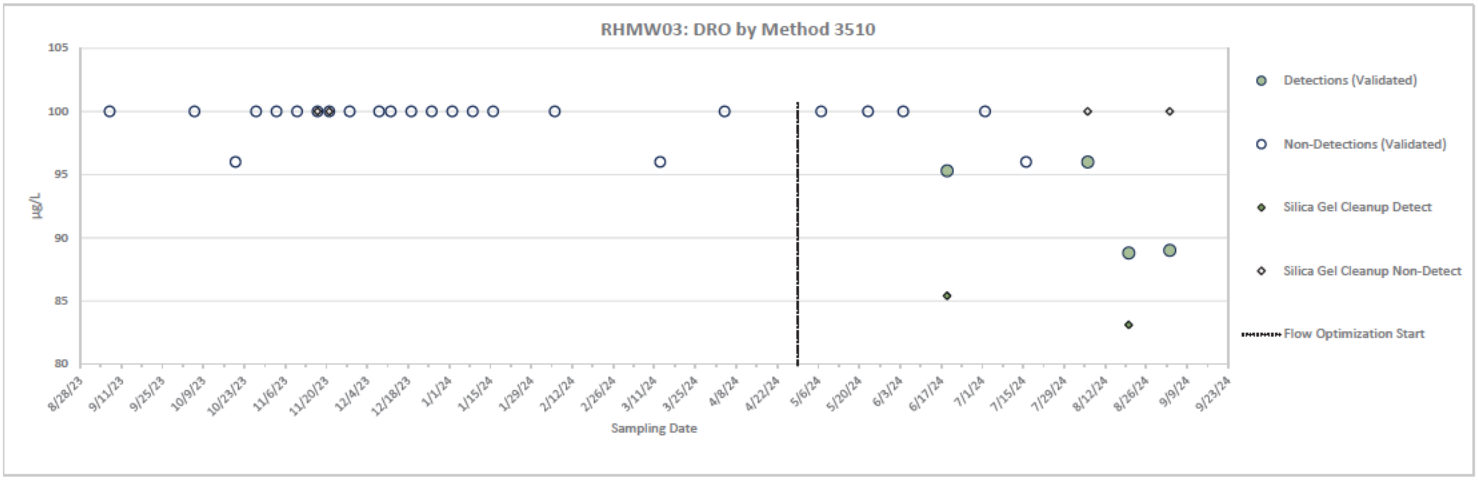


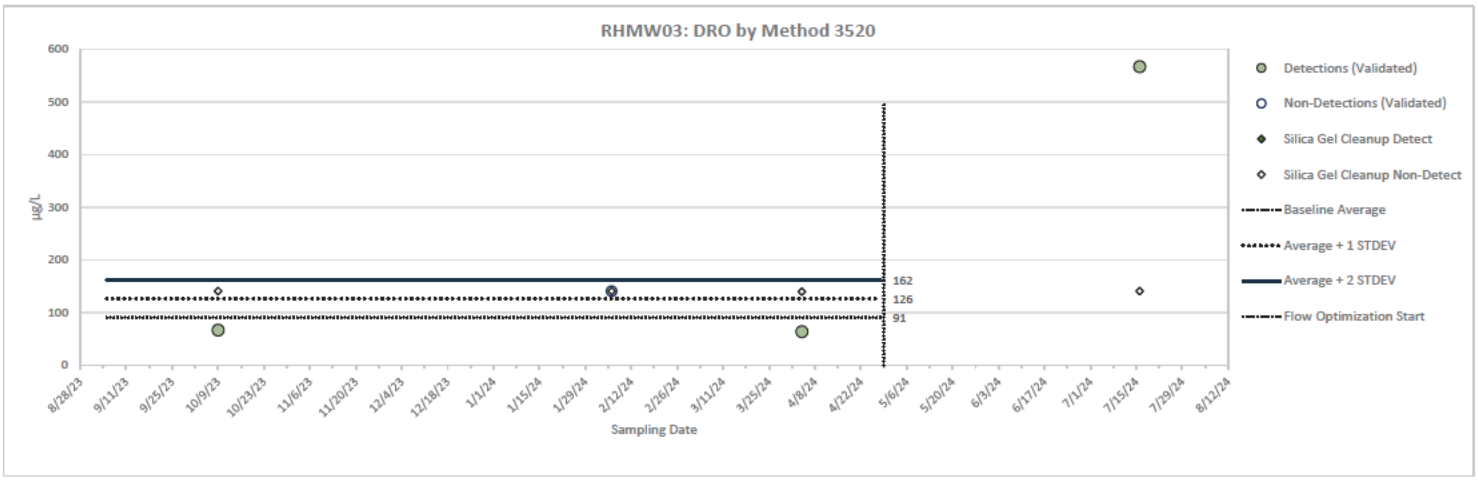


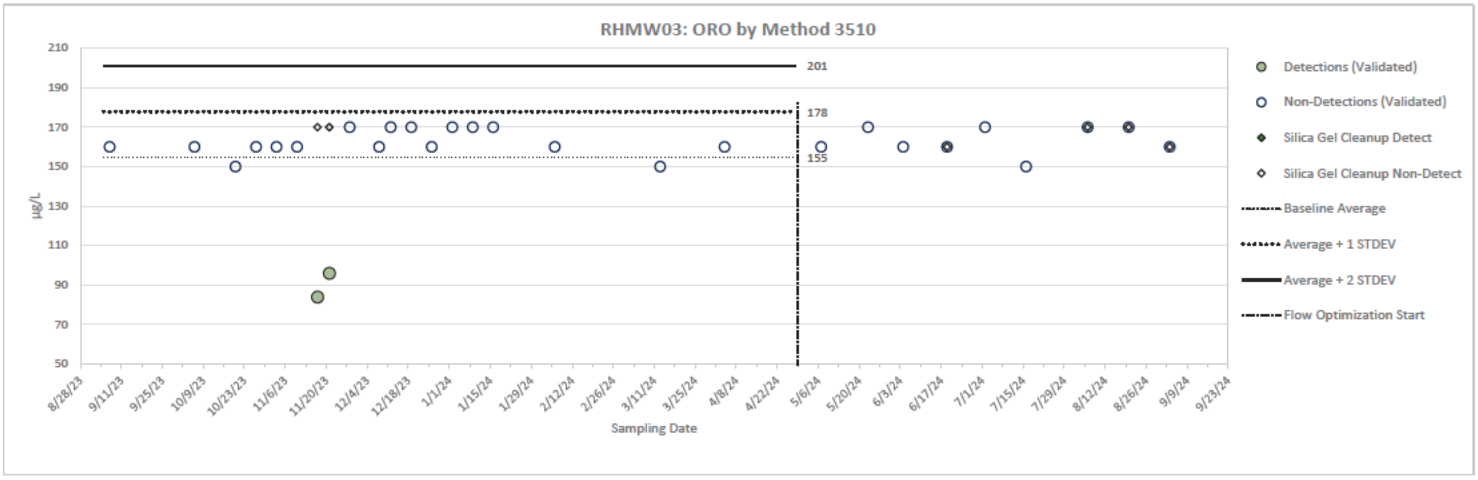


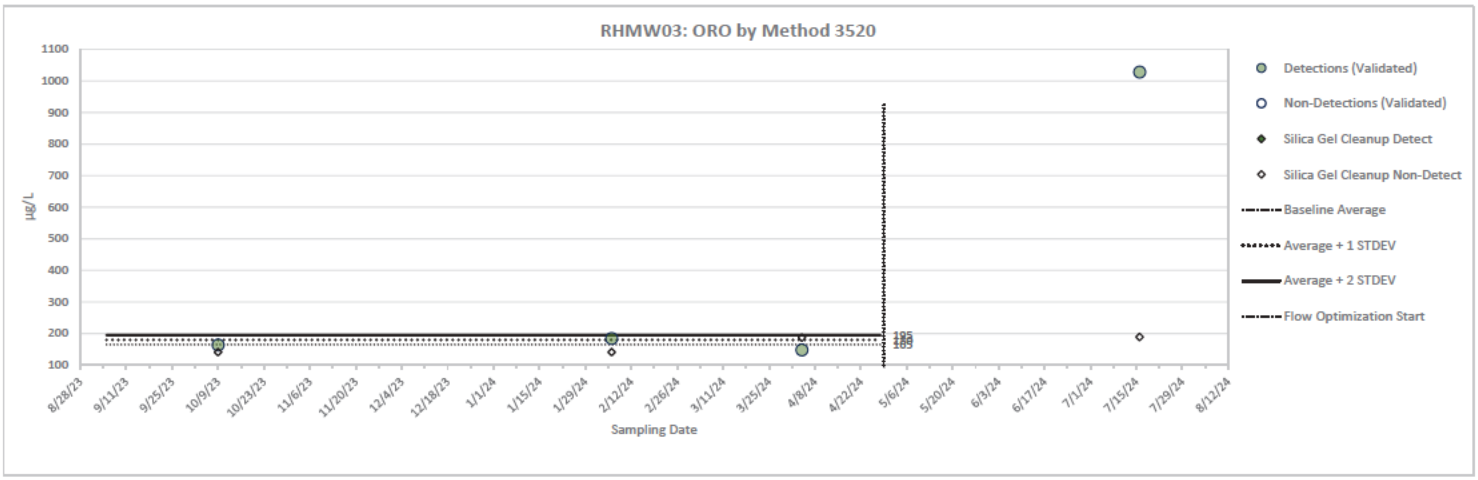
Note: See Data Legend

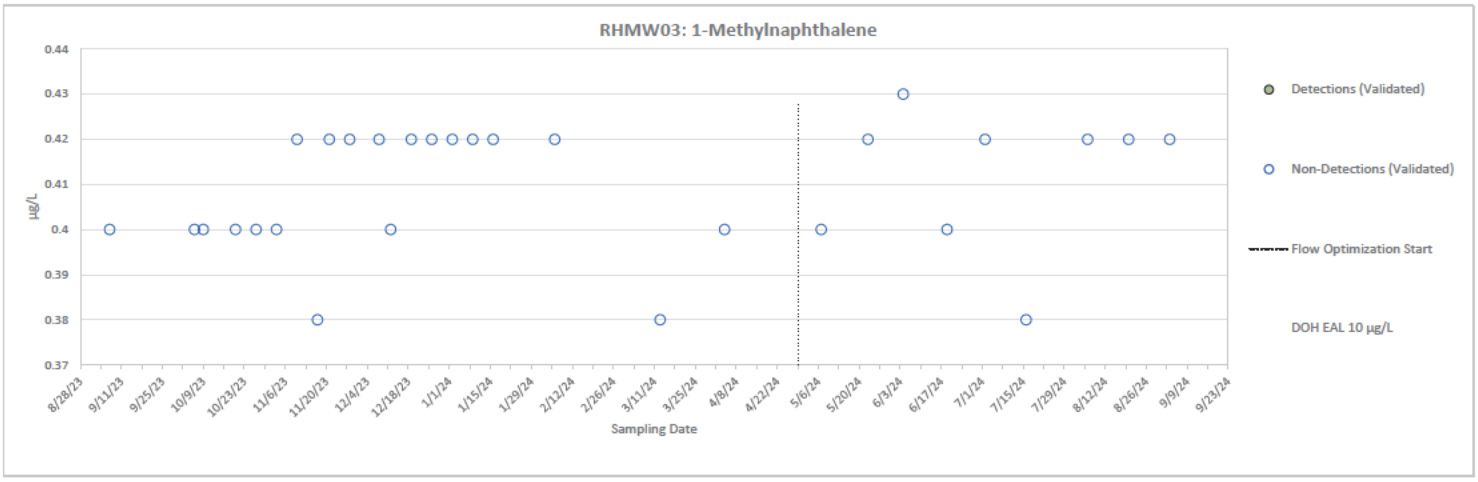

RHMW03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

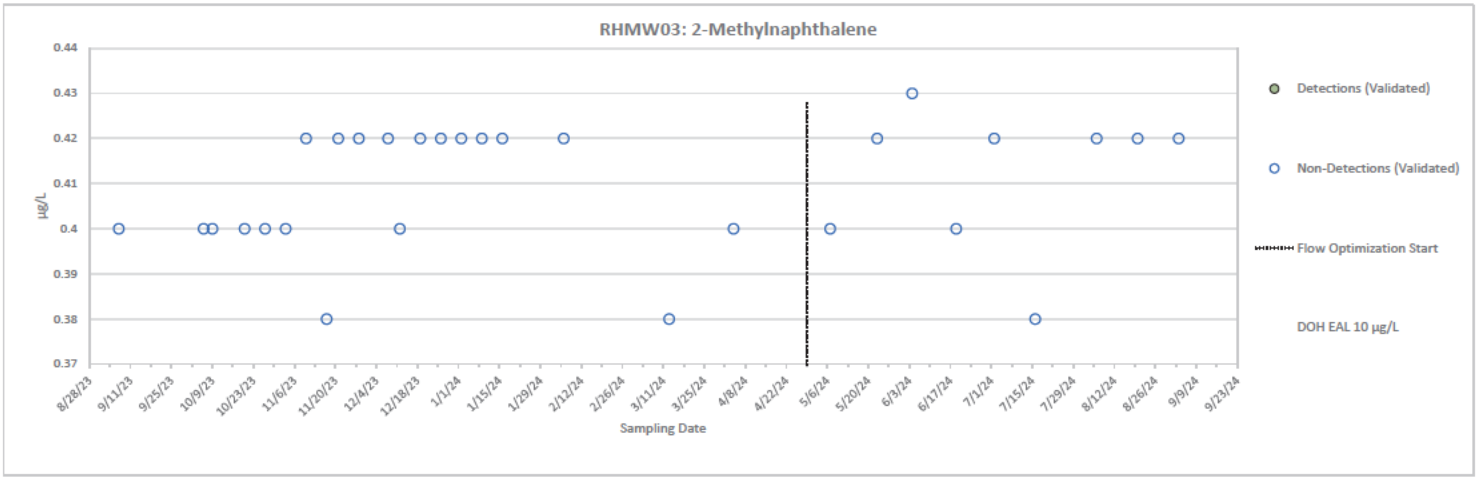

RHMW03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

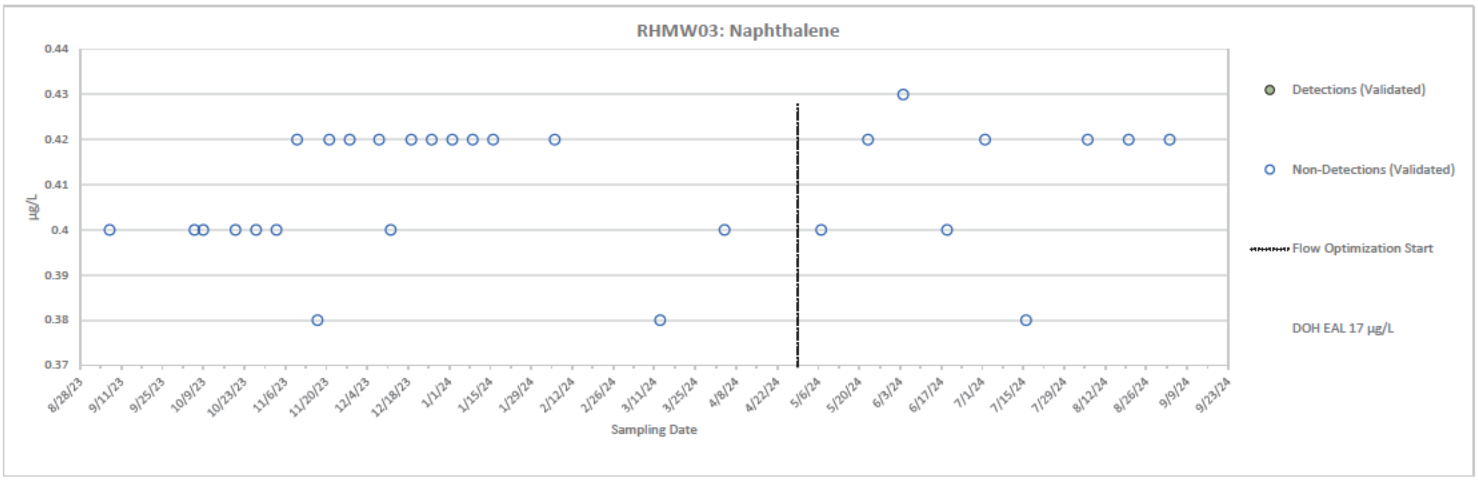

RHMW03: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start
162
126
91


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

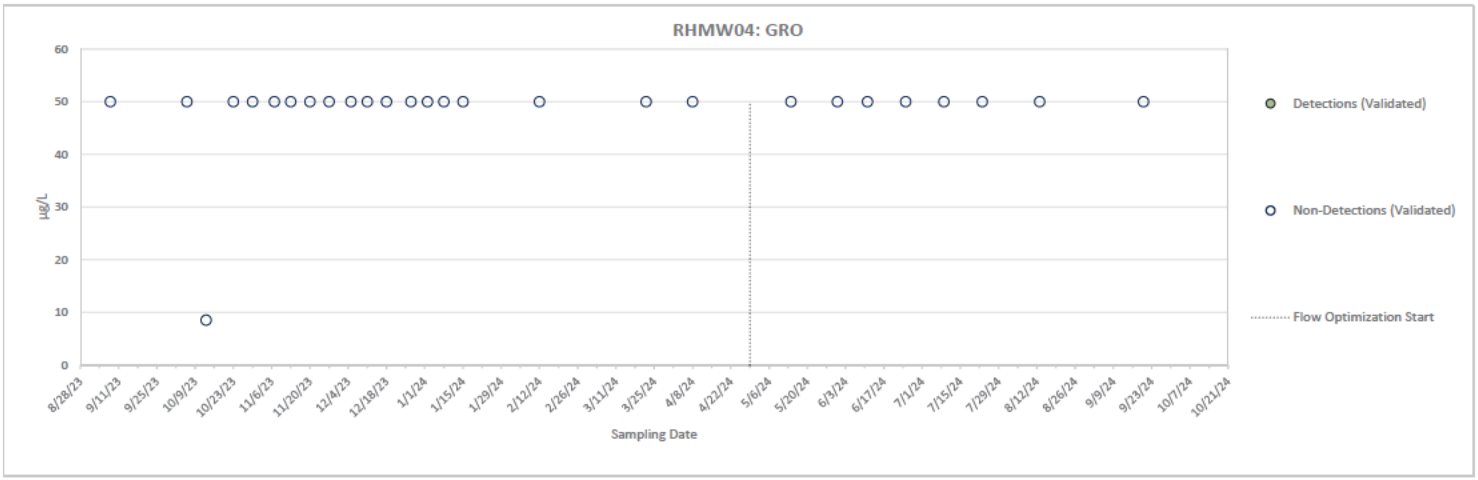

RHMW03: ORO by Method 3520
µg/L
Sampling Date
195
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

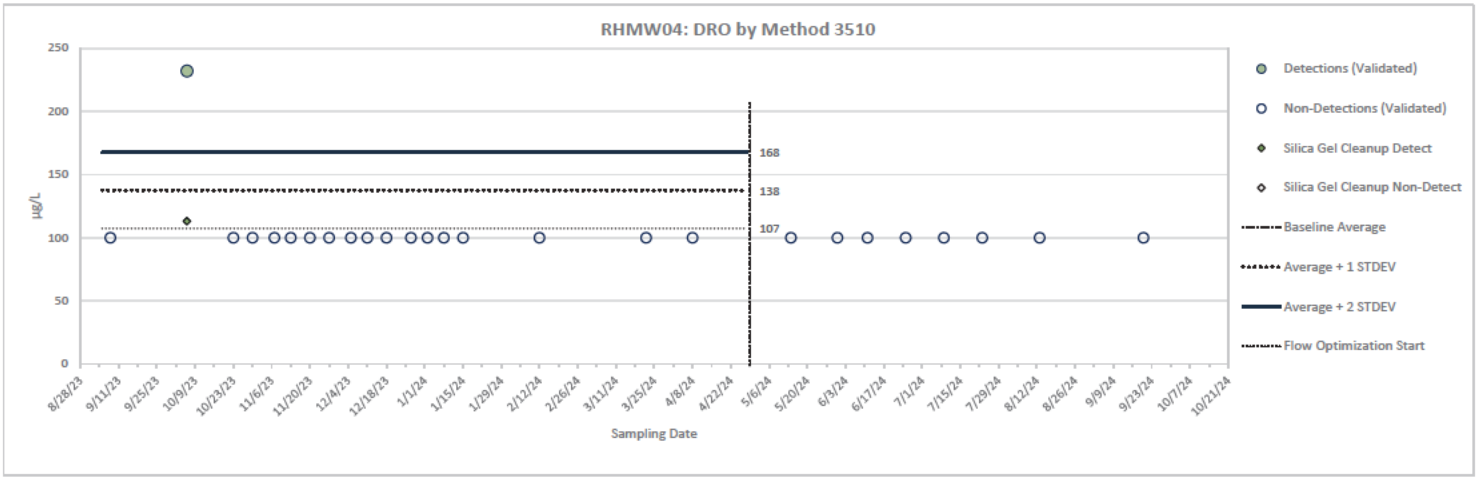


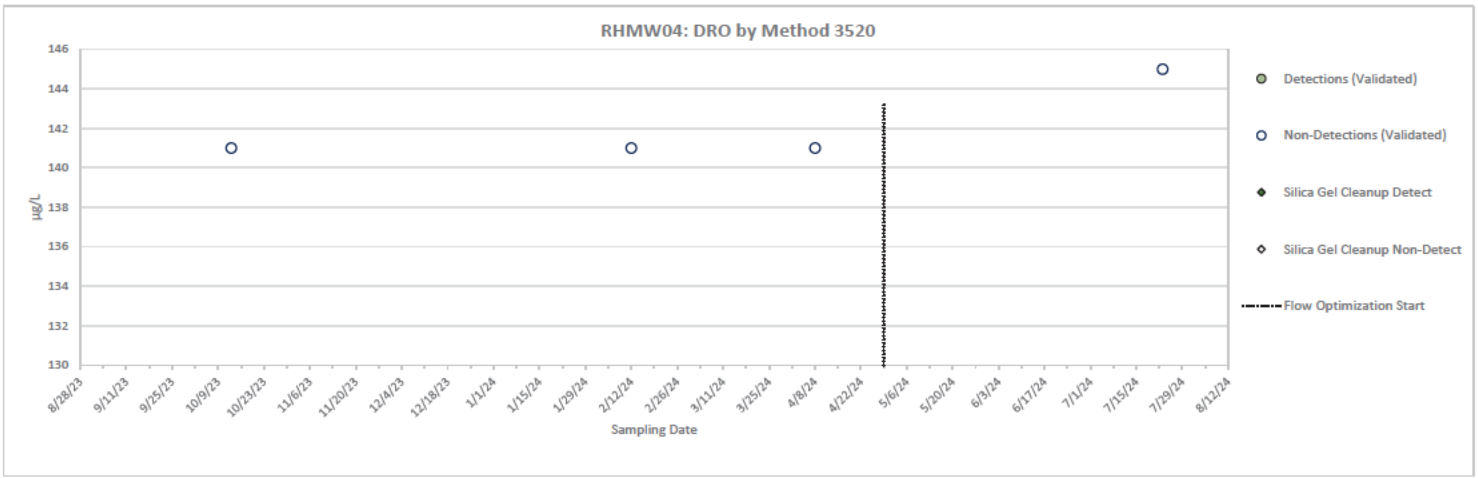


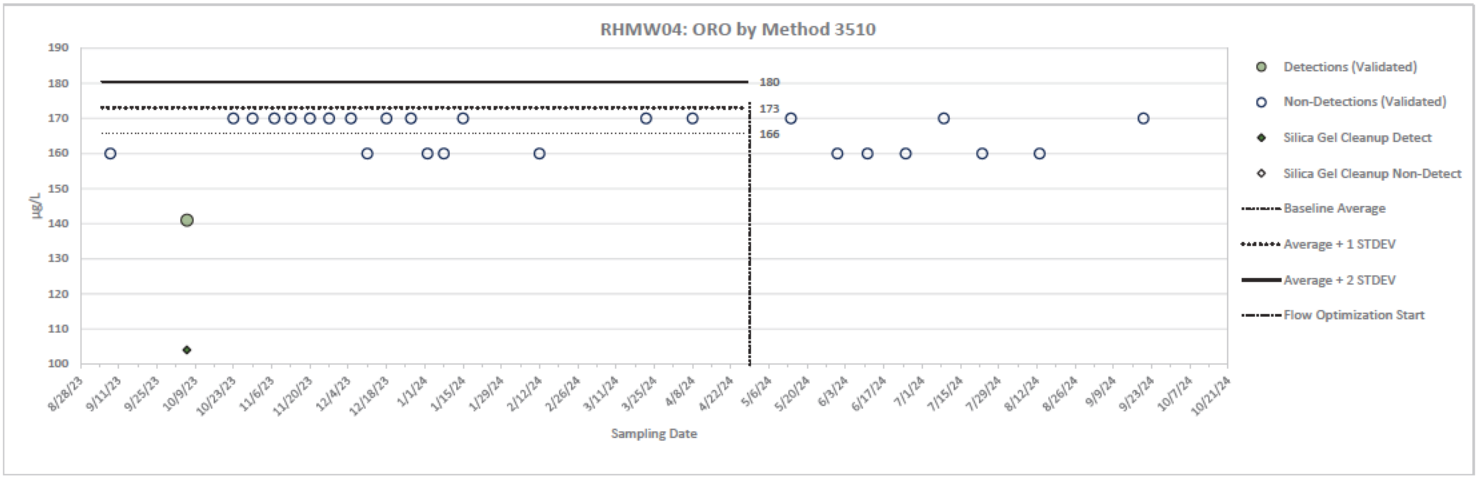


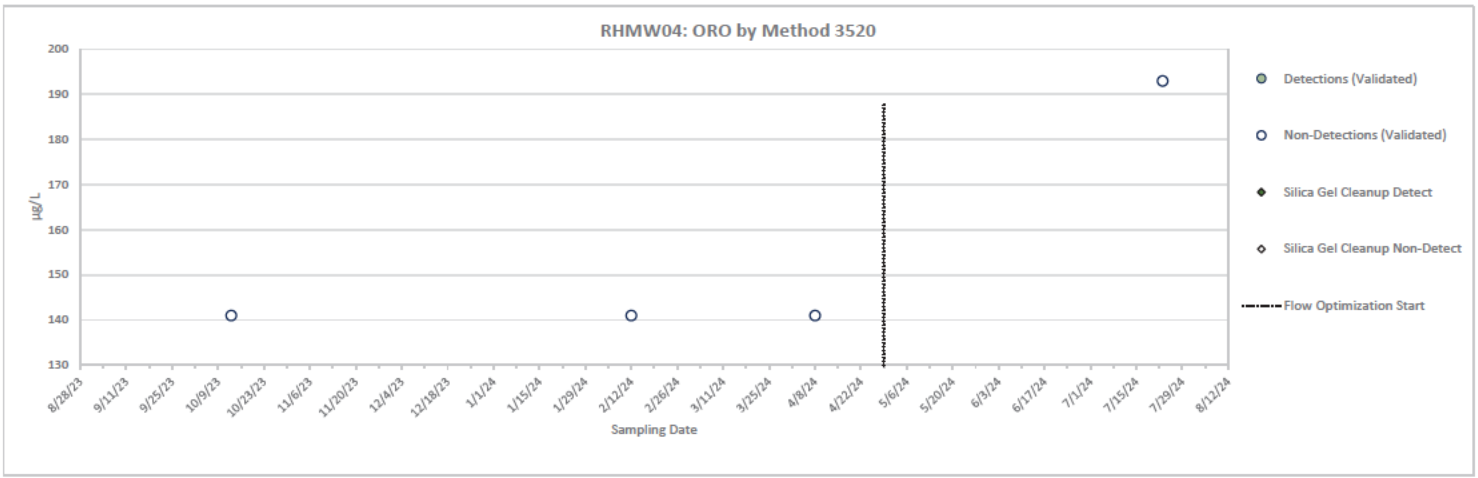
Note: See Data Legend

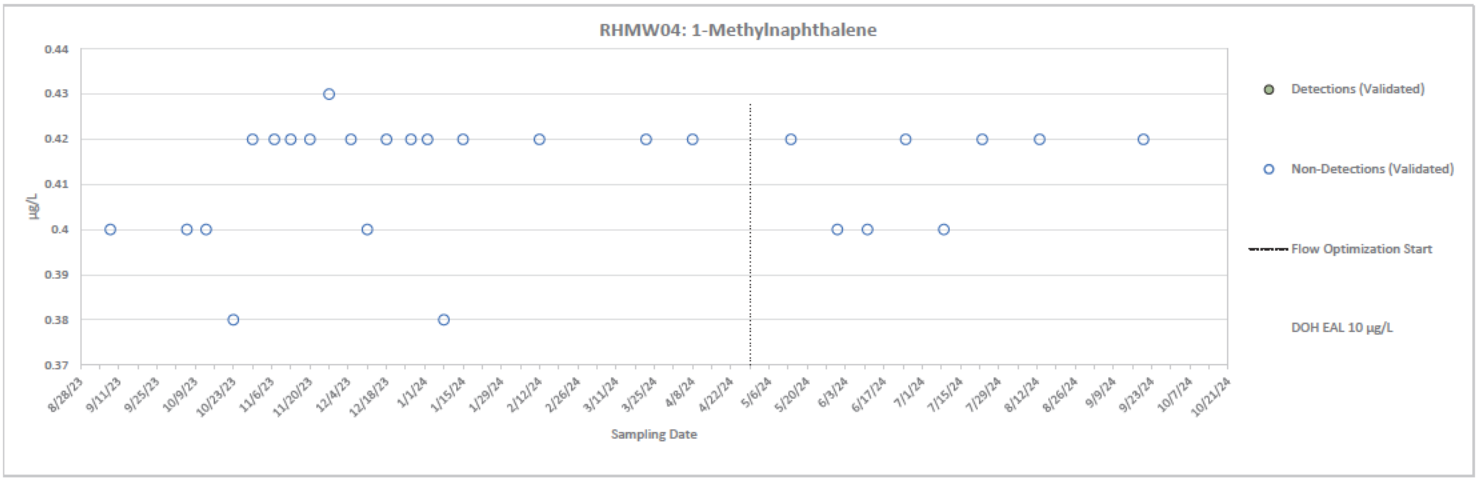

RHMW04: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

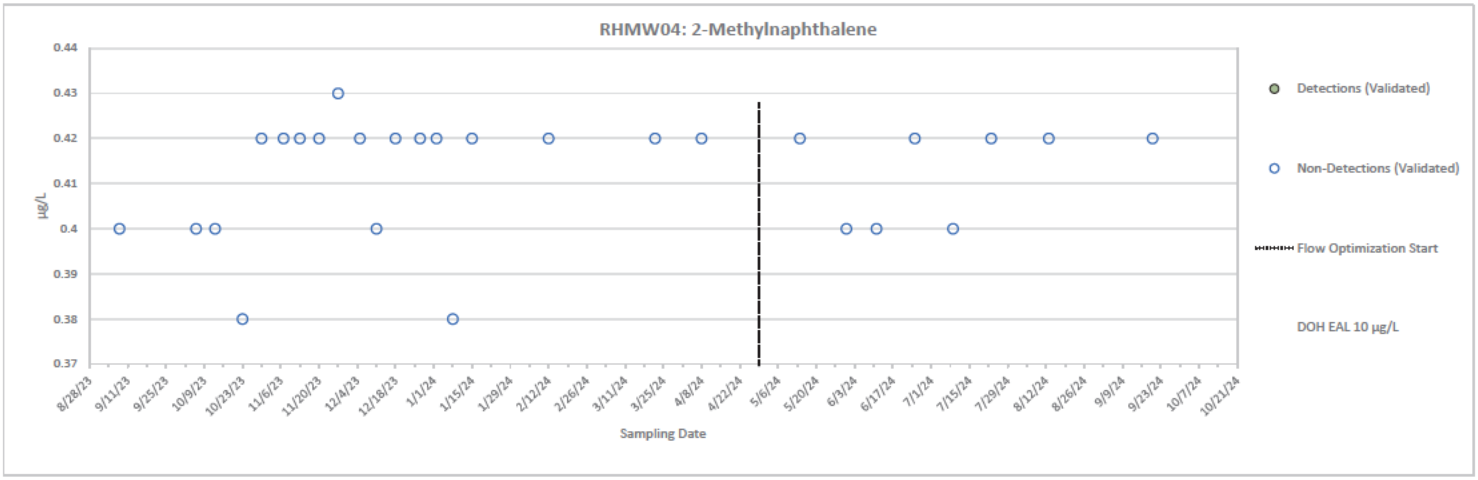

RHMW04: DRO by Method 3510
µg/L
Sampling Date
168
138
107
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

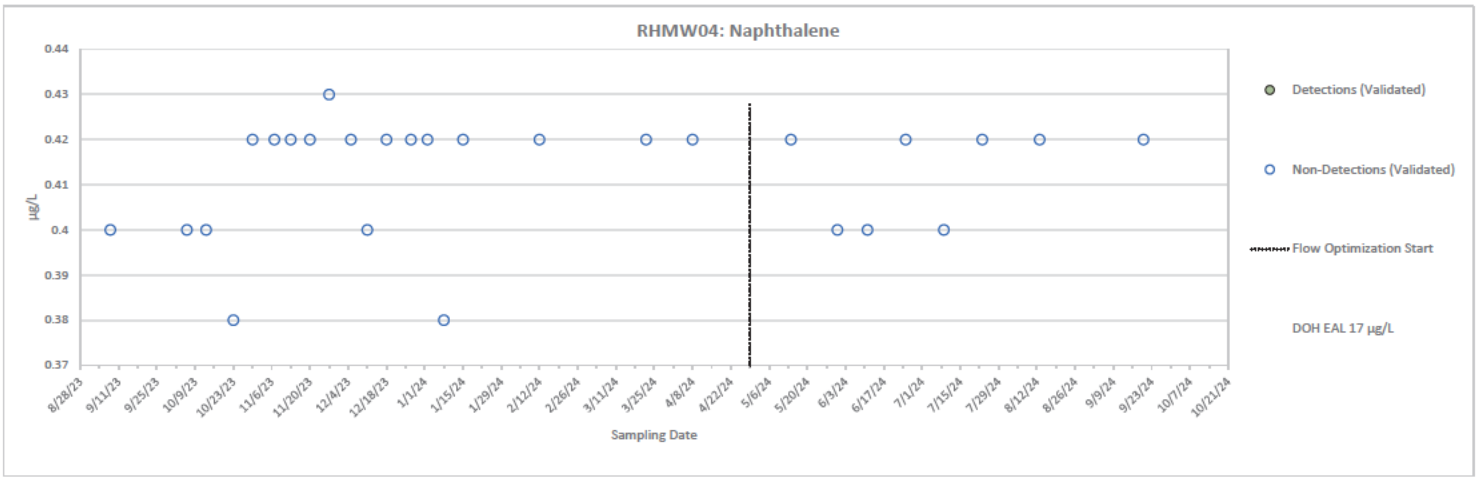

RHMW04: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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

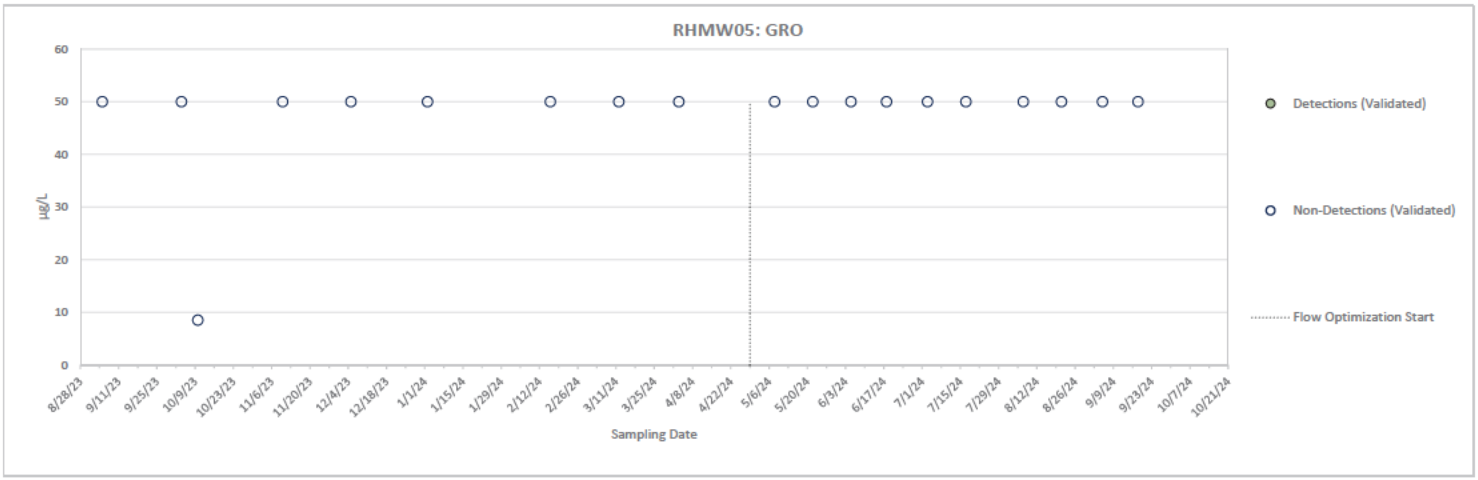

RHMW04: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

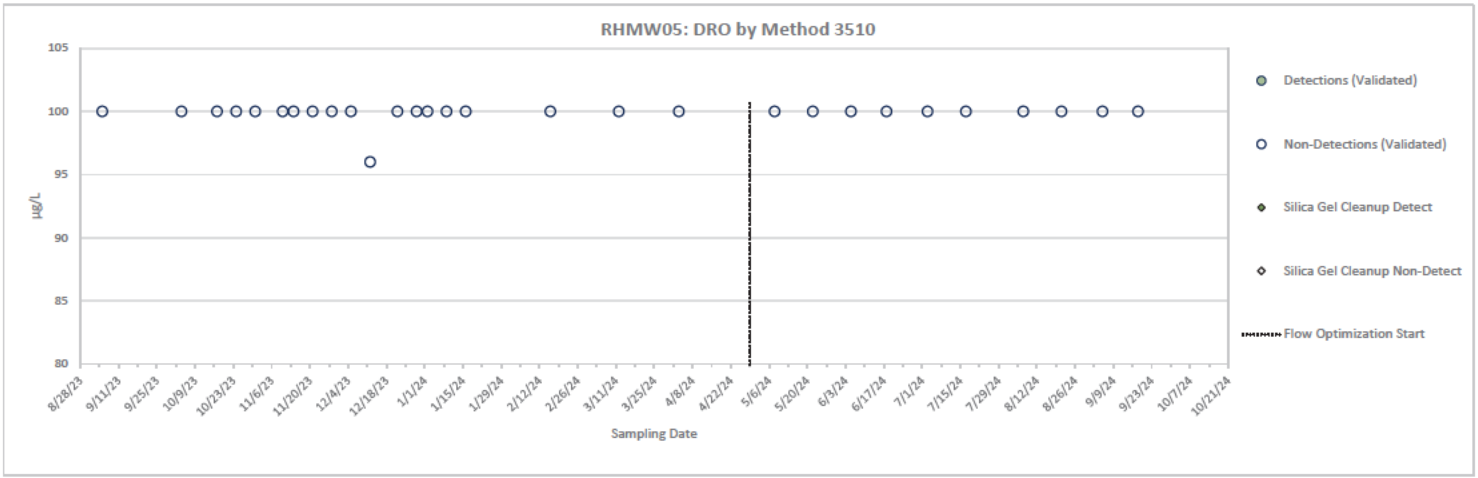


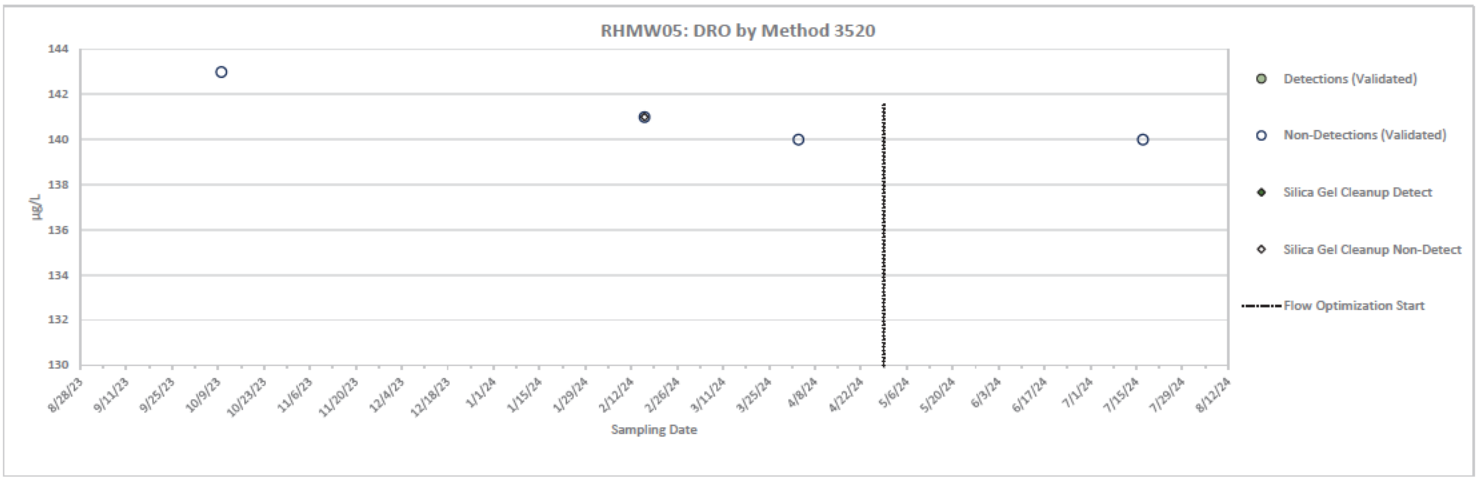


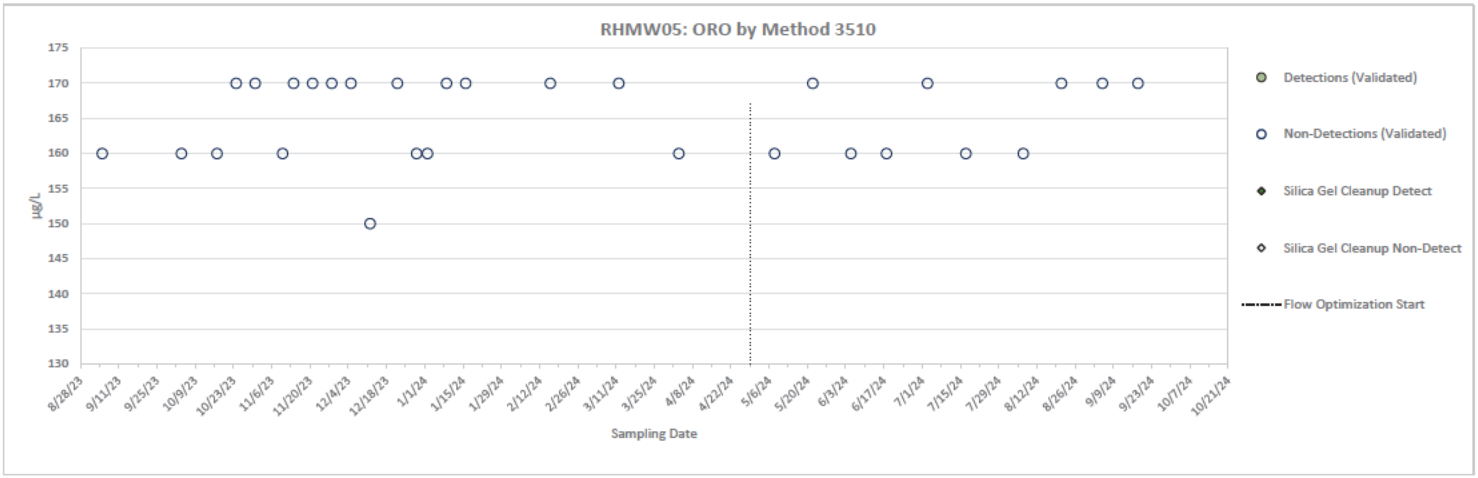


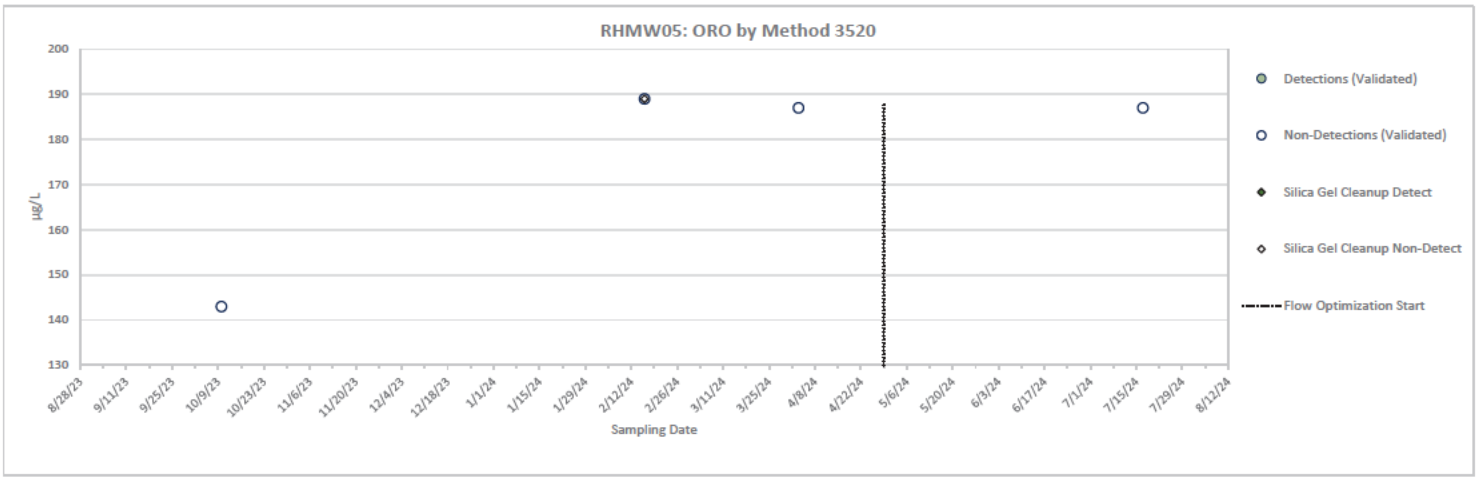
Note: See Data Legend

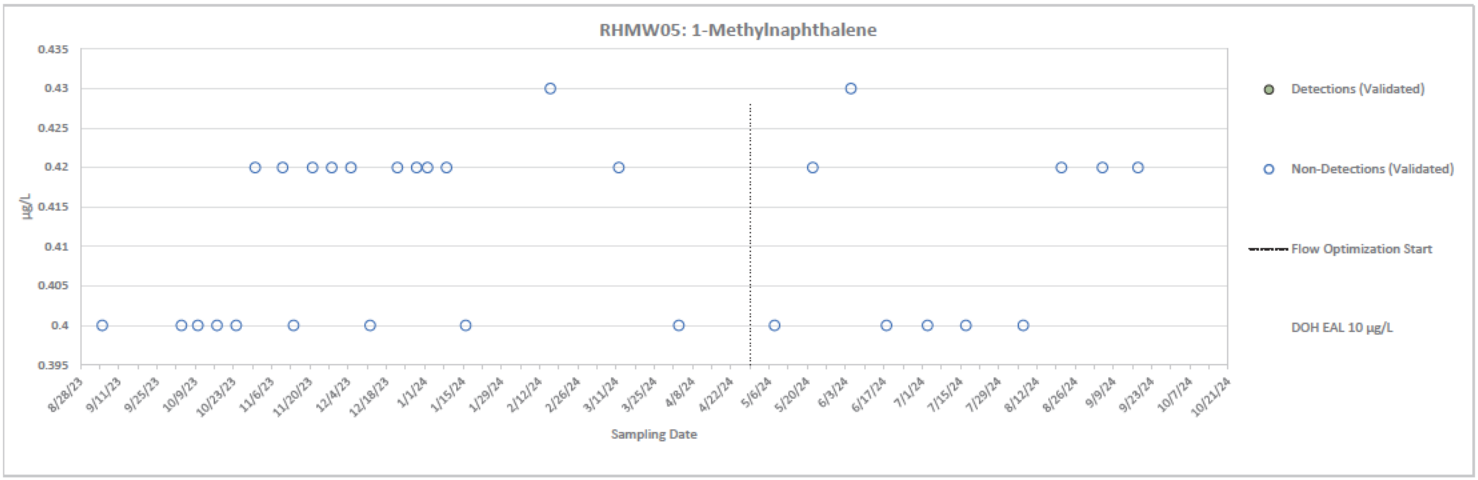

RHMW05: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

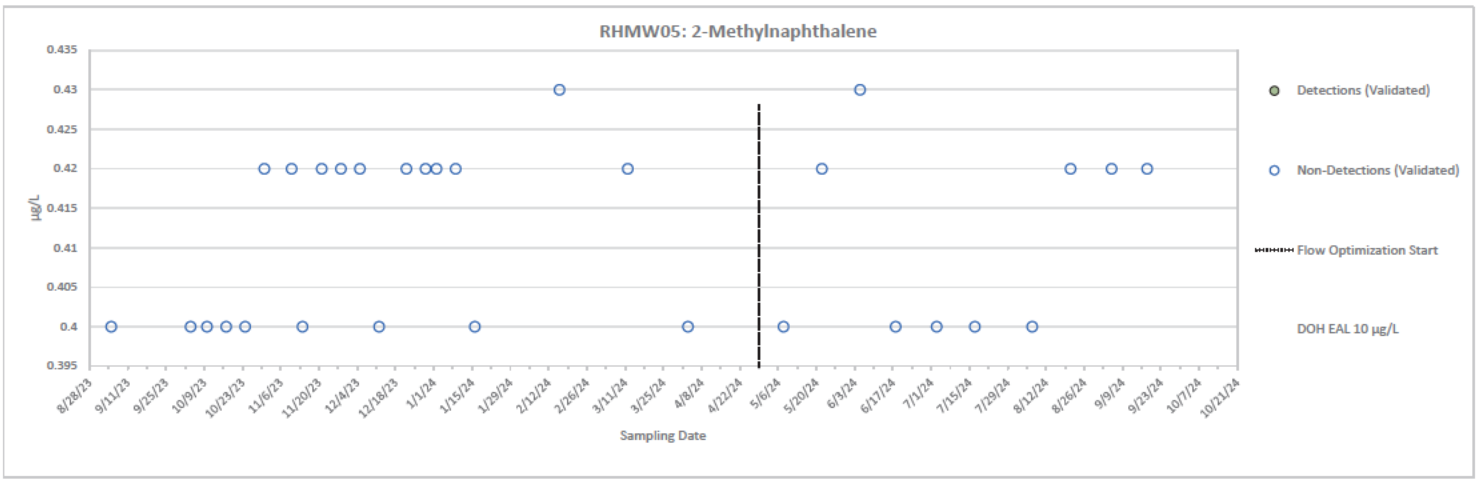

RHMW05: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

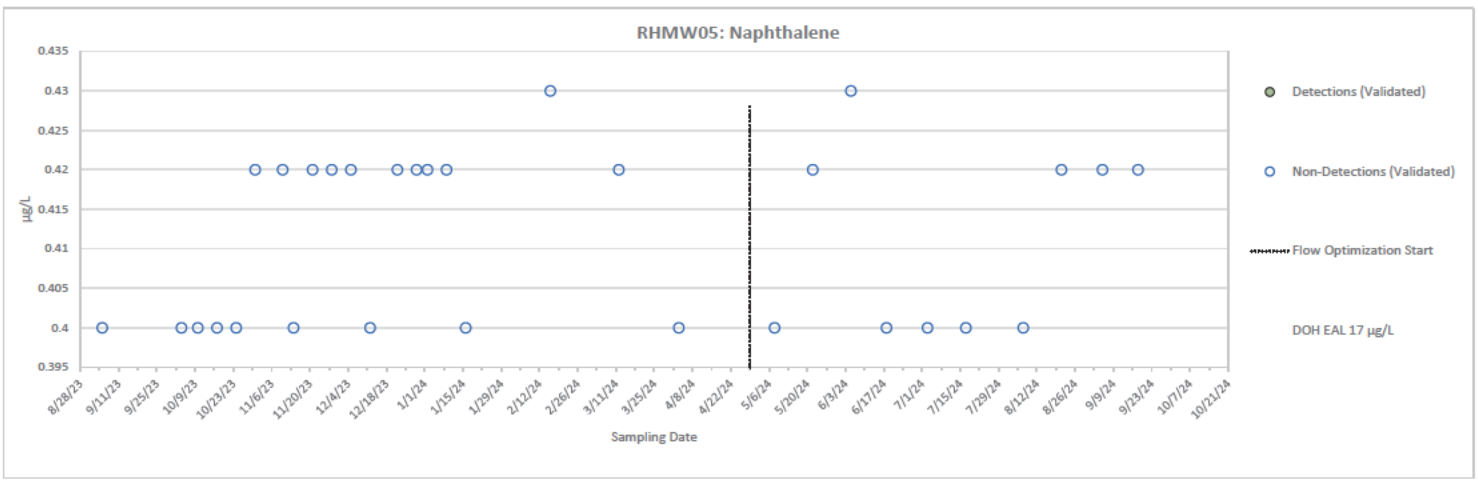

RHMW05: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

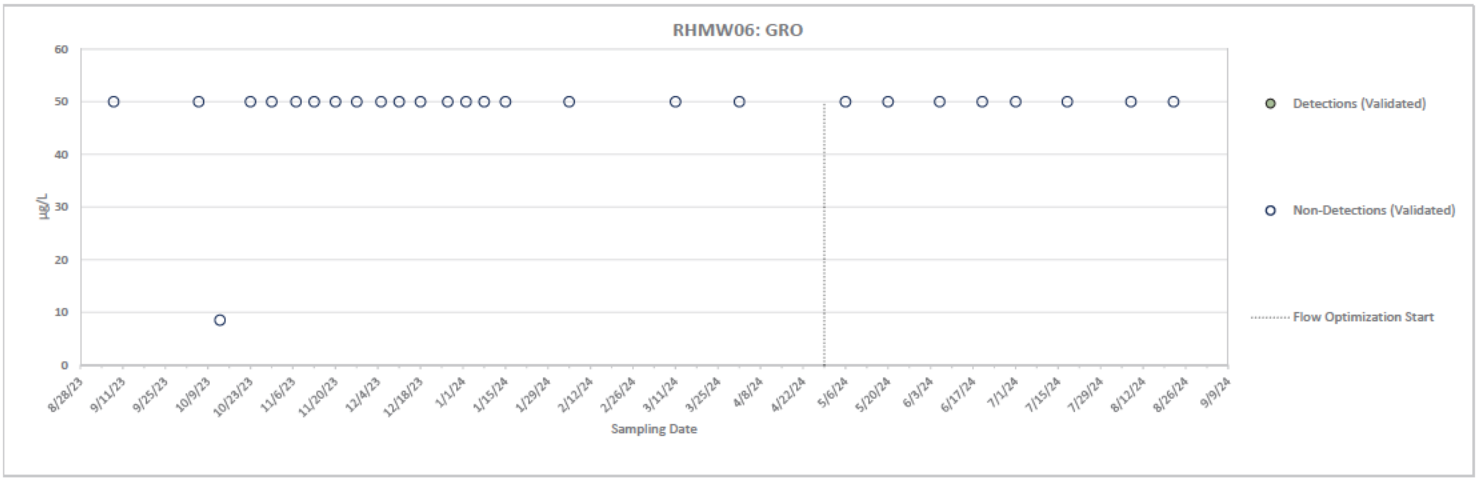

RHMW05: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

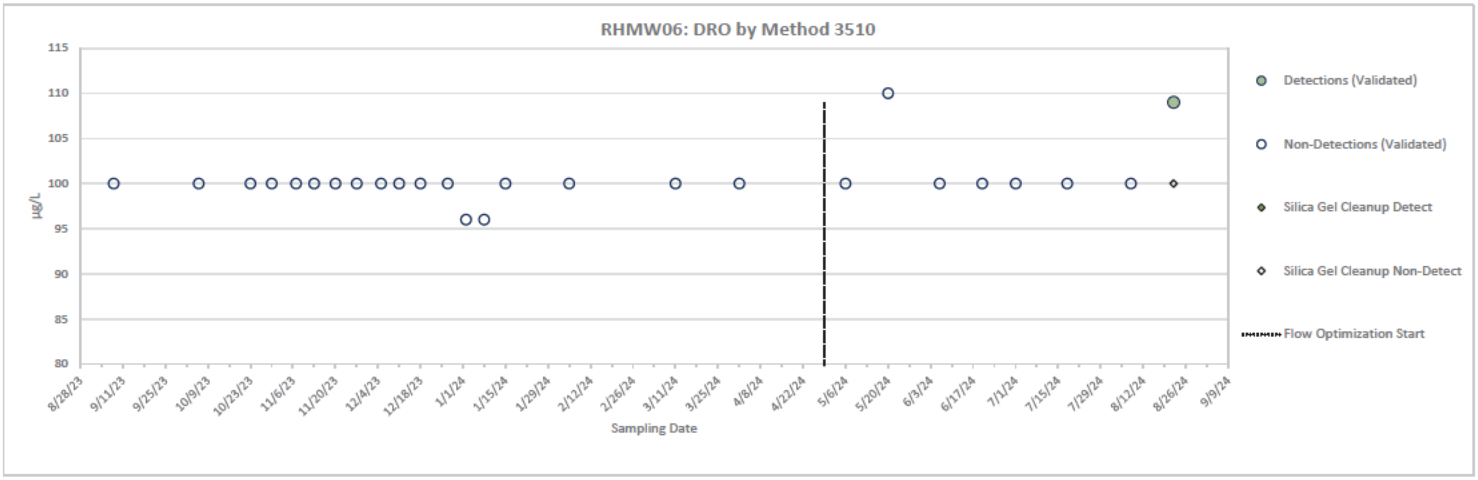


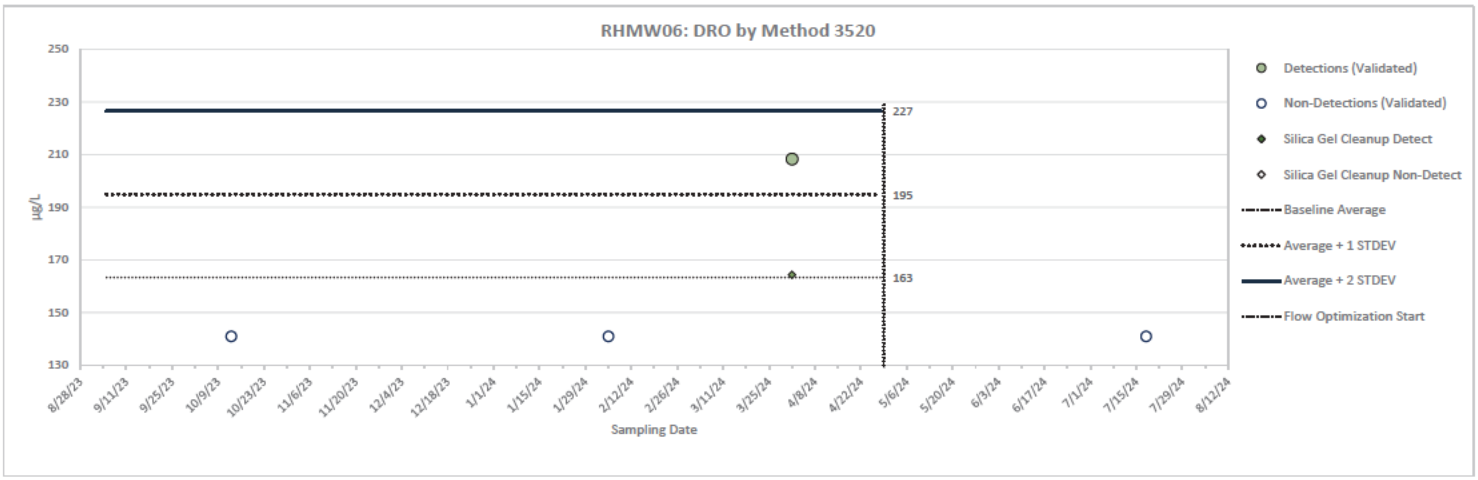


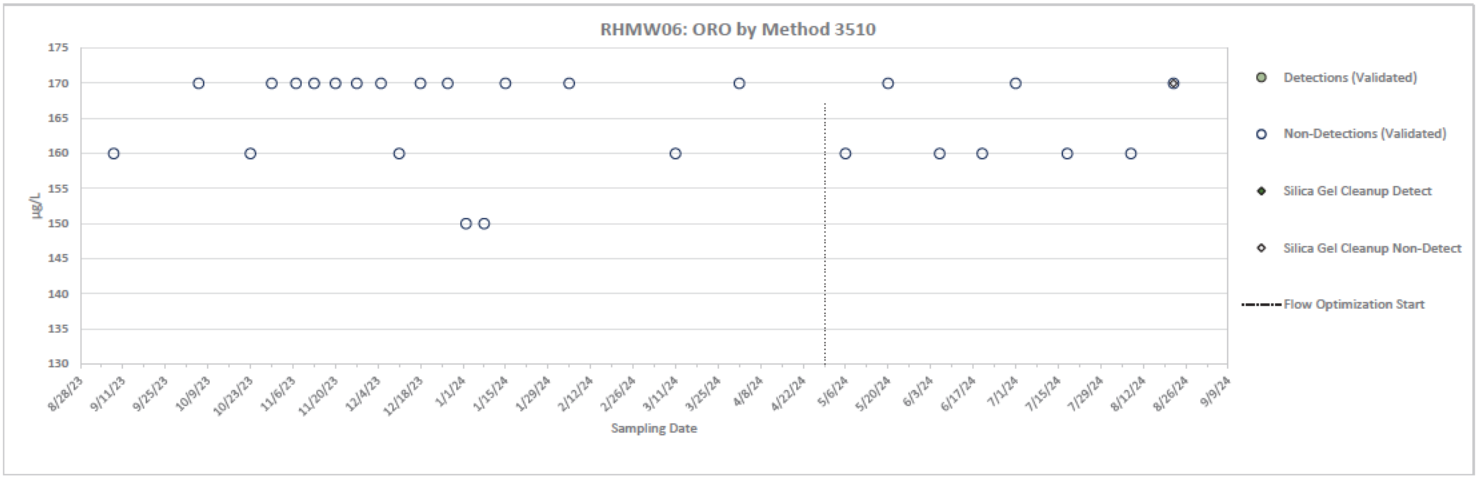


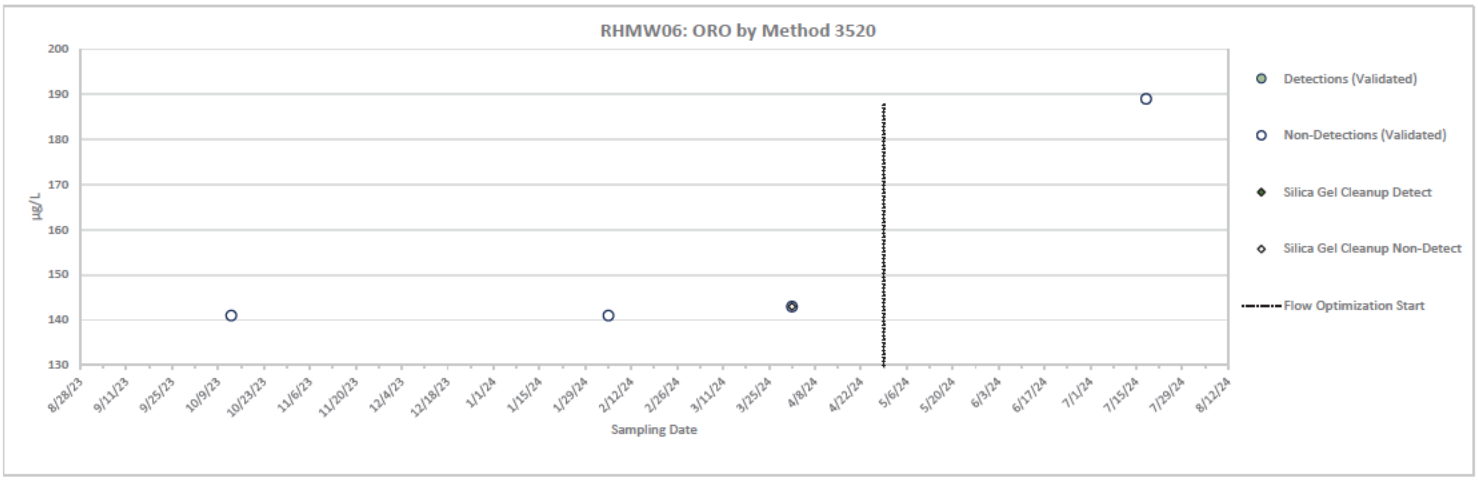
Note: See Data Legend

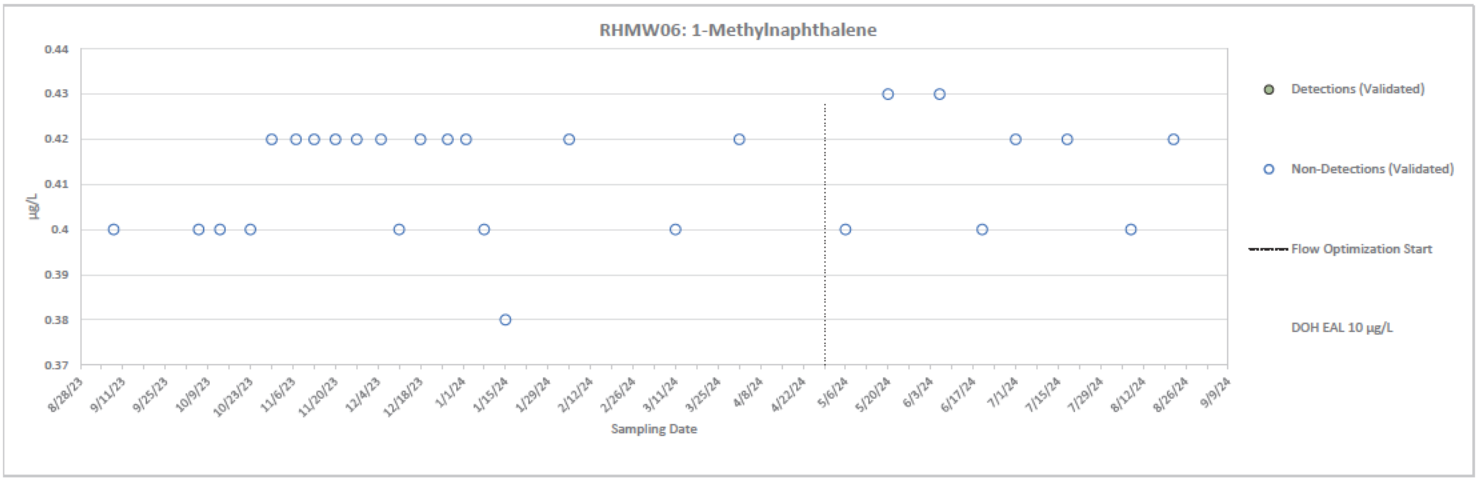

RHMW06: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

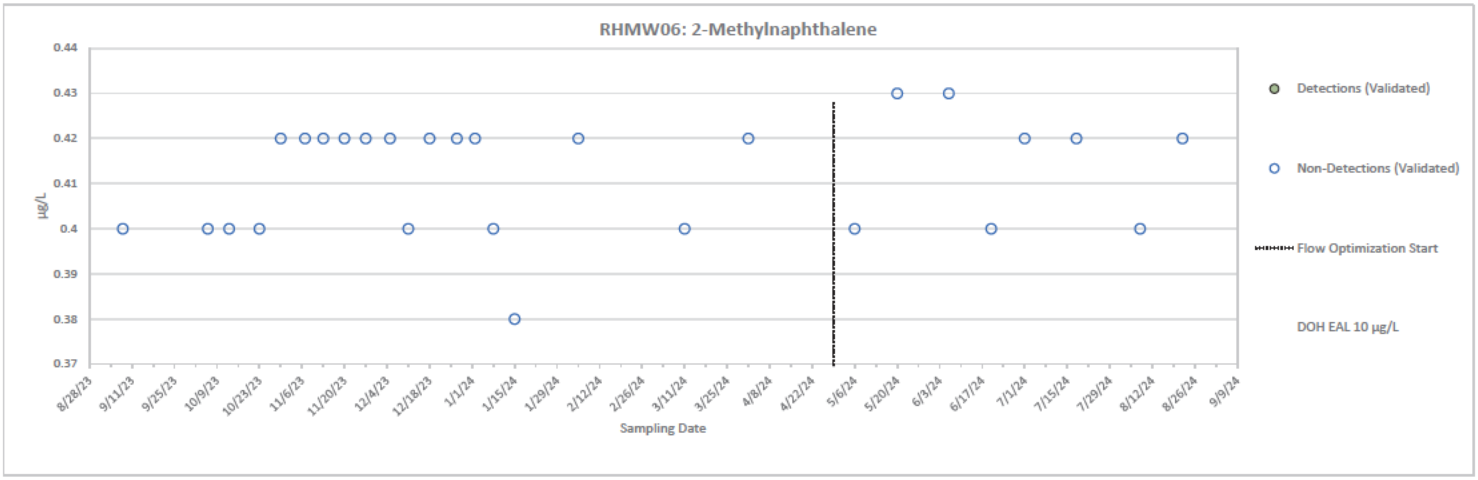

RHMW06: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

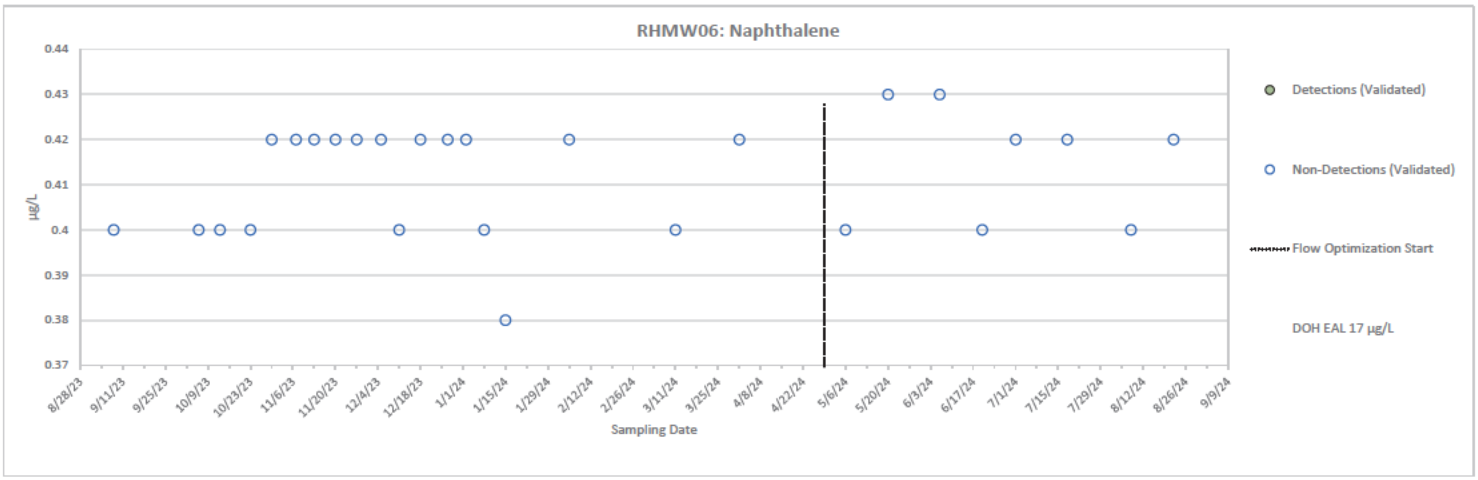

RHMW06: DRO by Method 3520
µg/L
Sampling Date
227
195
163
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

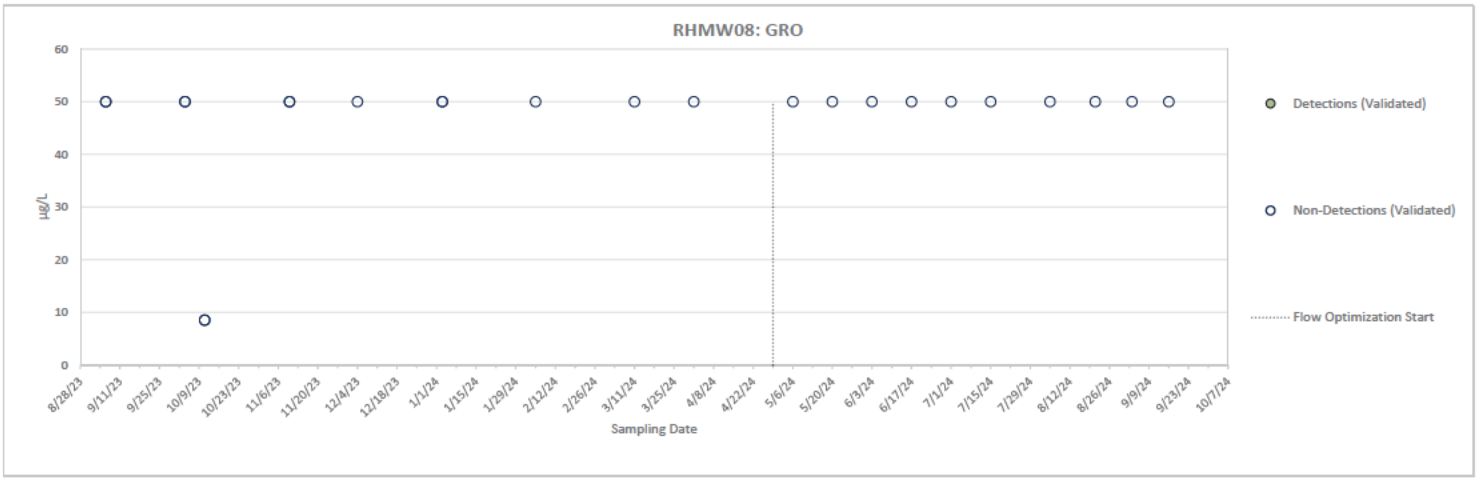

RHMW06: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

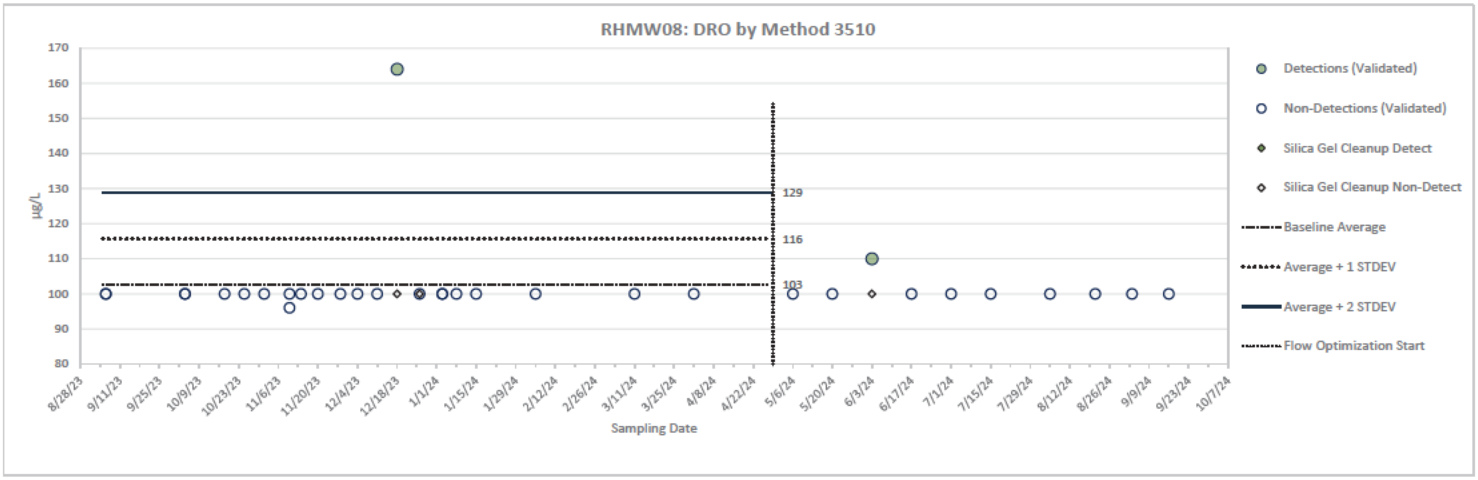


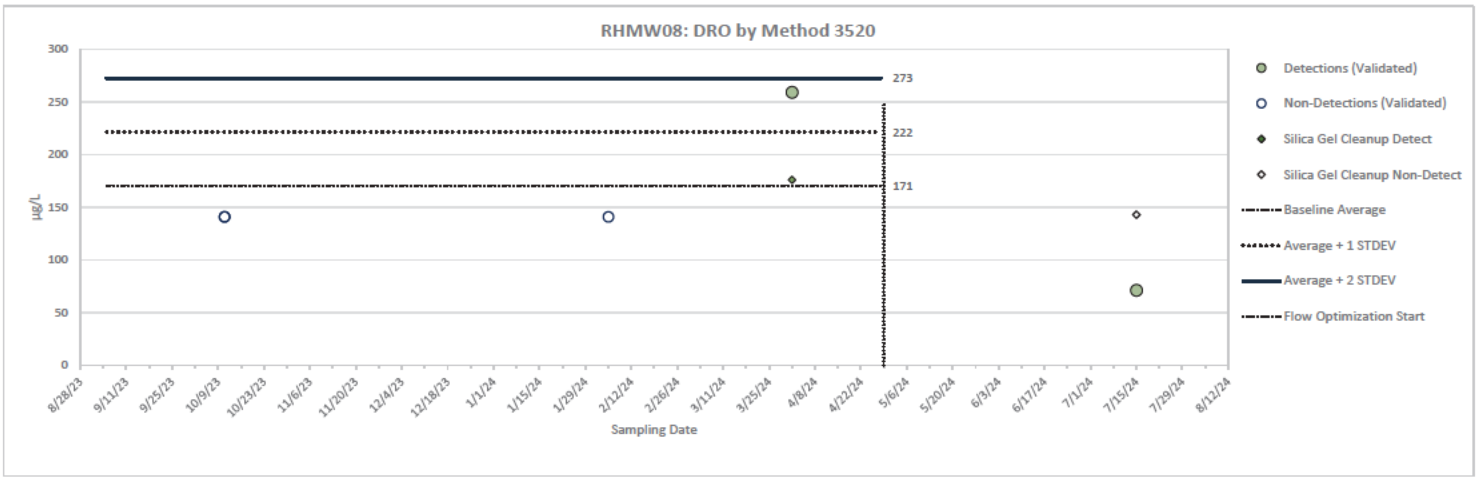


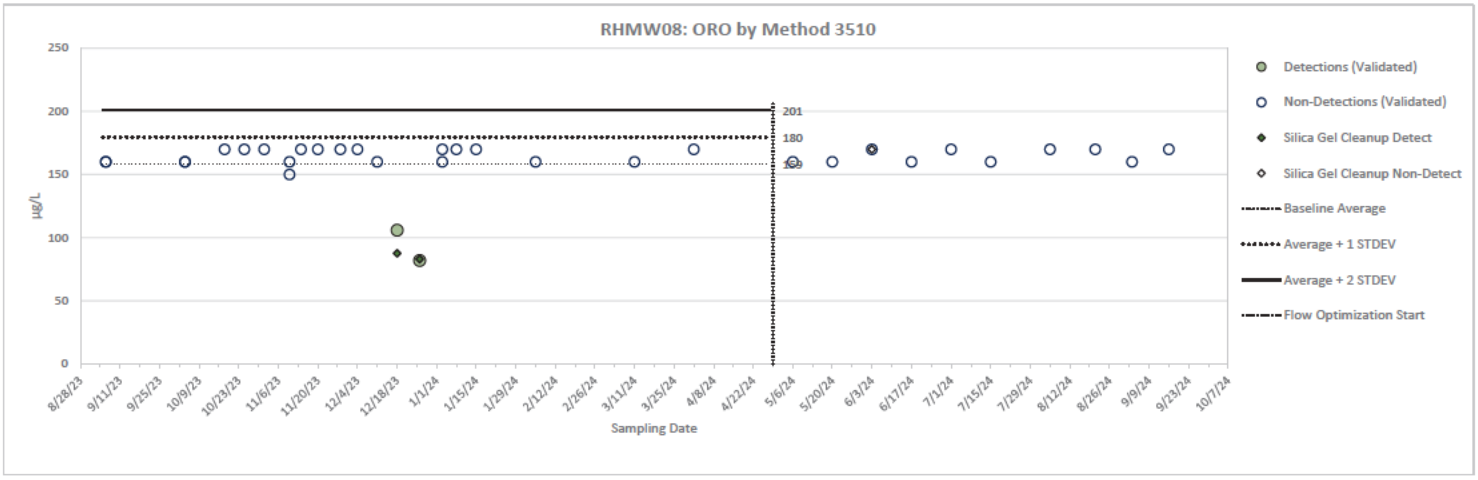


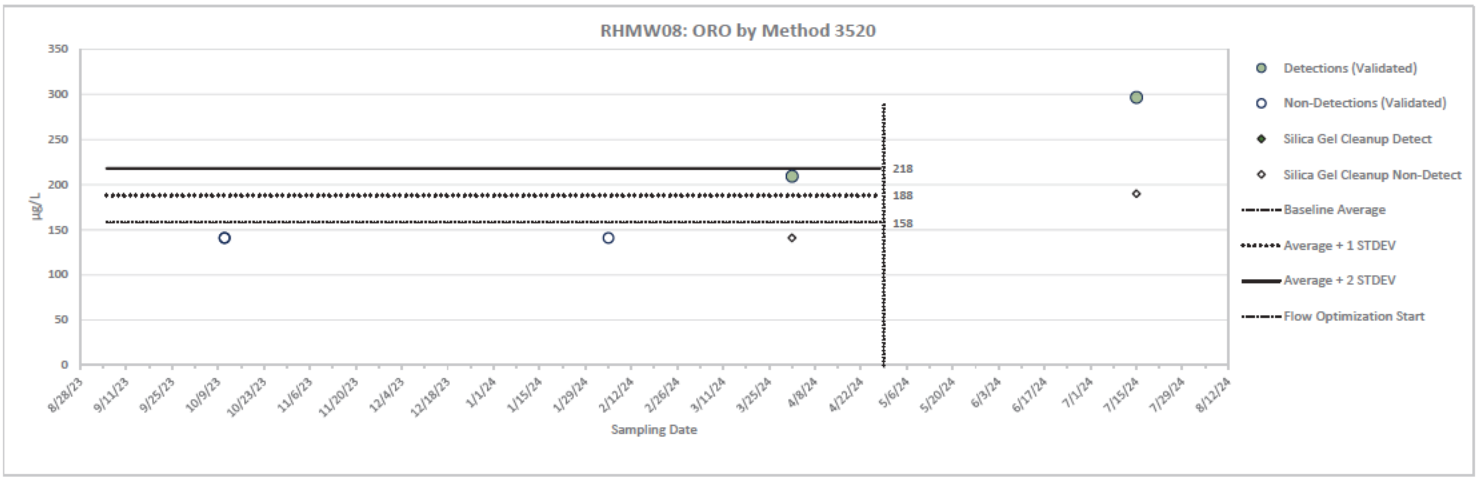
Note: See Data Legend

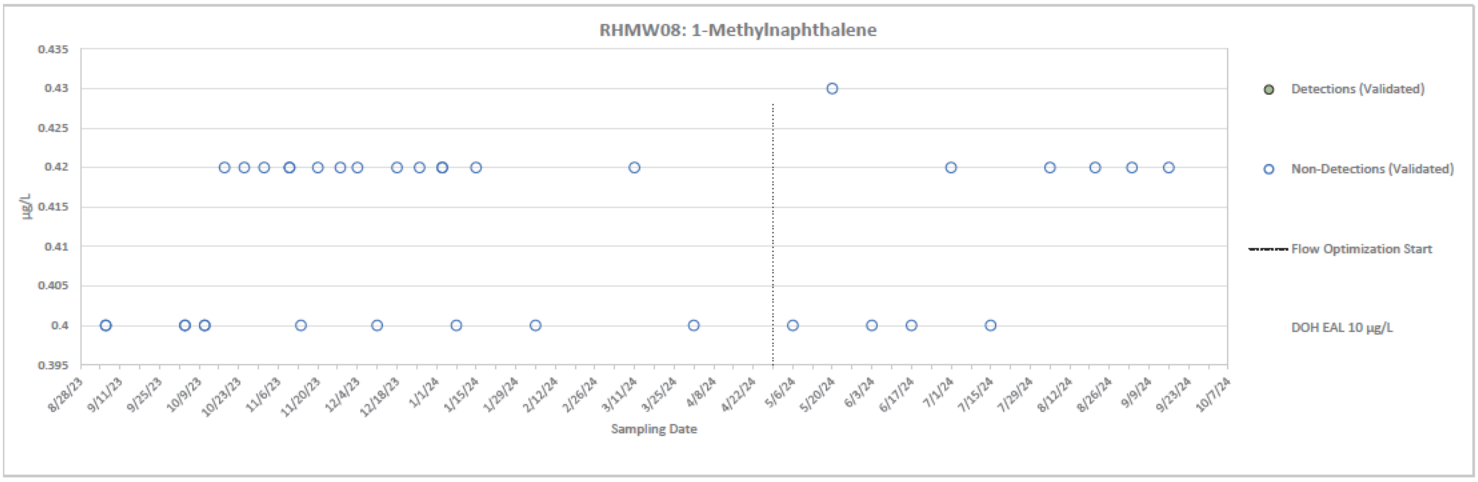

RHMW08: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

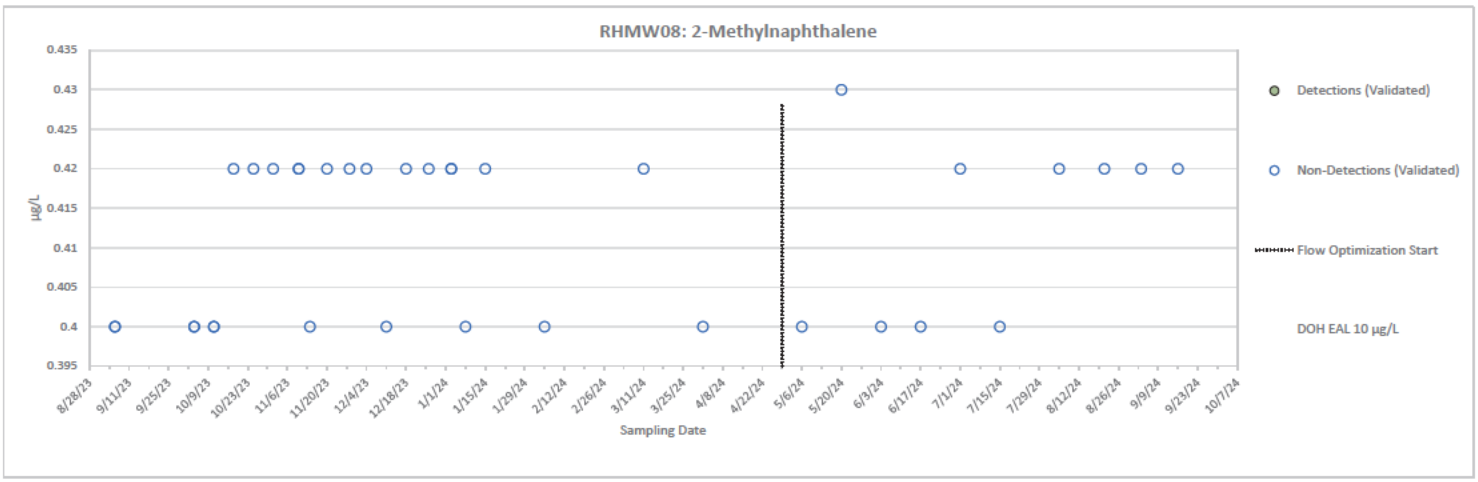

RHMW08: DRO by Method 3510
µg/L
Sampling Date
129
116
103
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

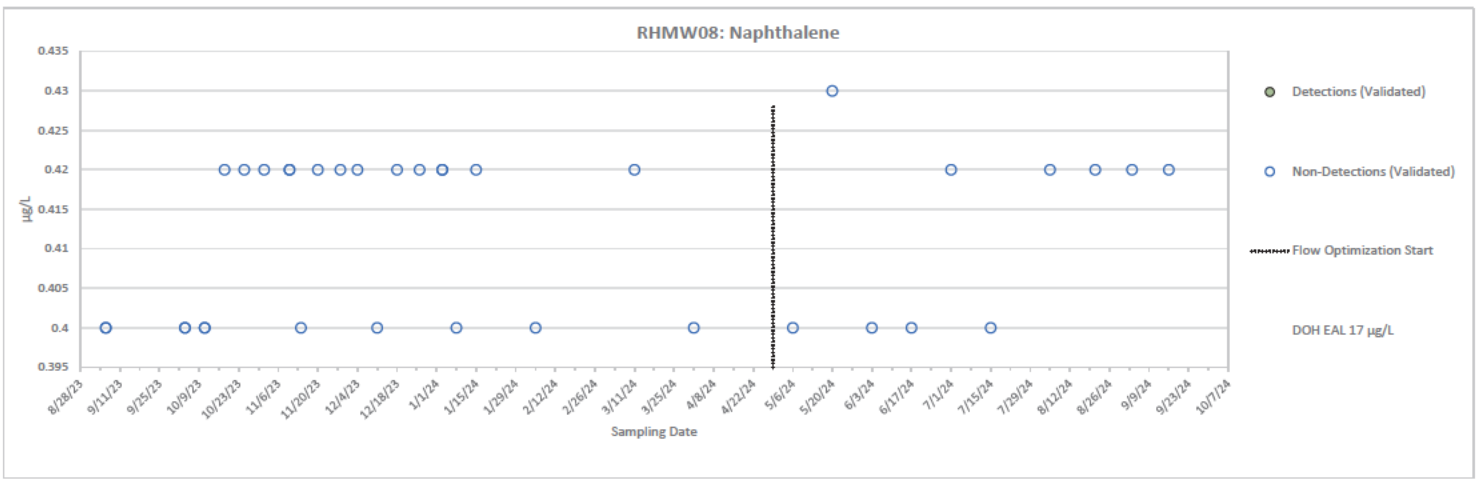

RHMW08: DRO by Method 3520
µg/L
Sampling Date
273
222
171
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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

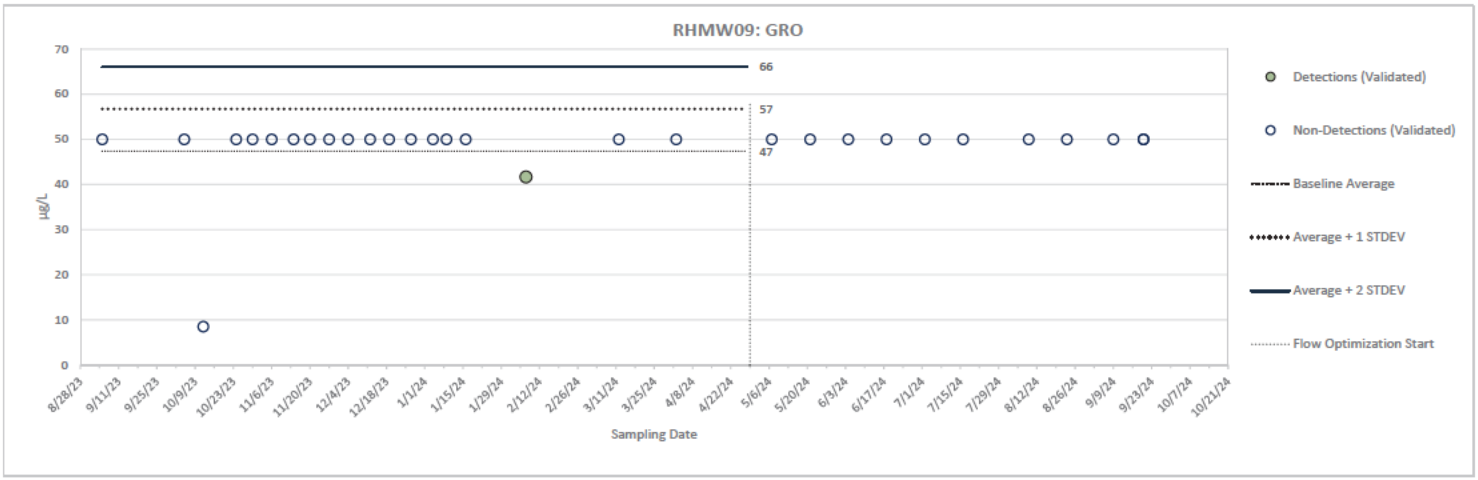

RHMW08: ORO by Method 3520
µg/L
Sampling Date
218
188
158
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

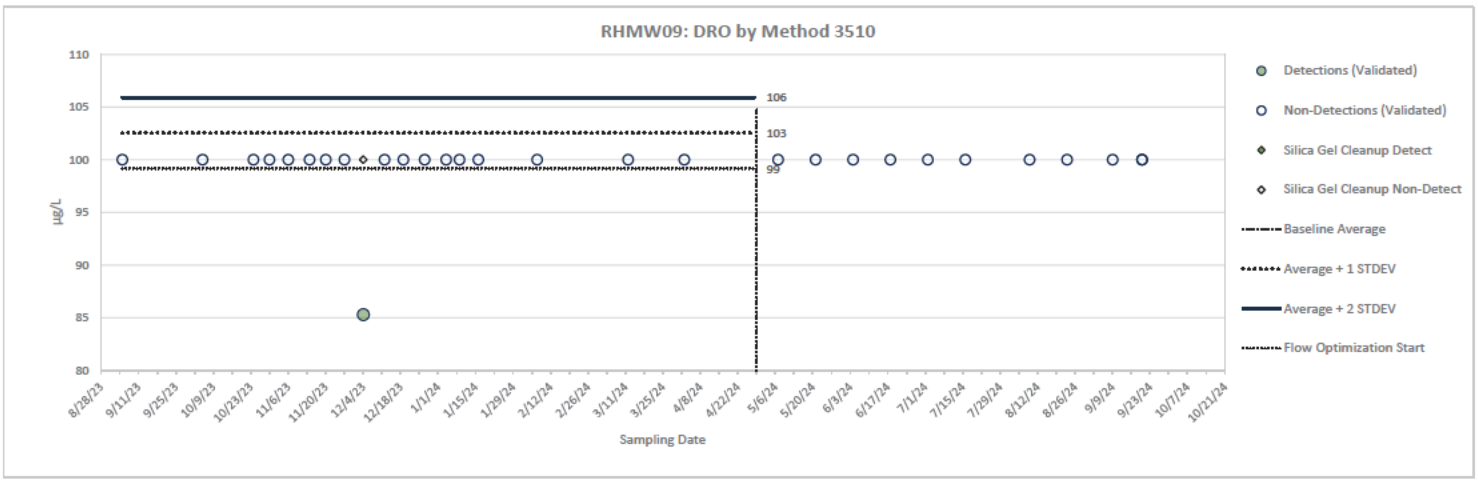


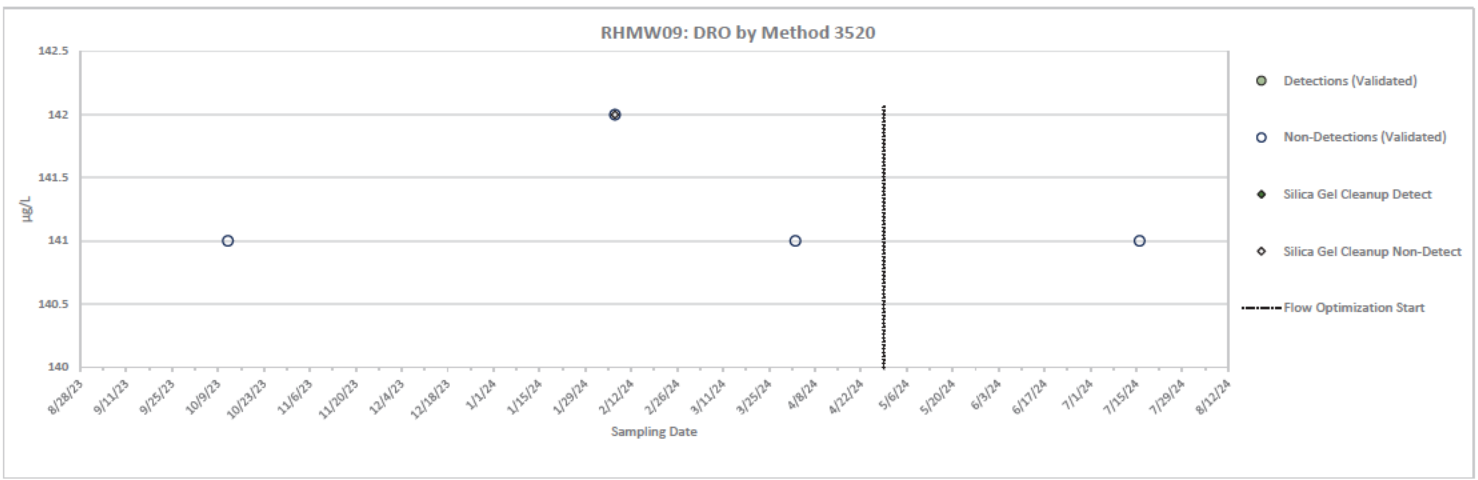


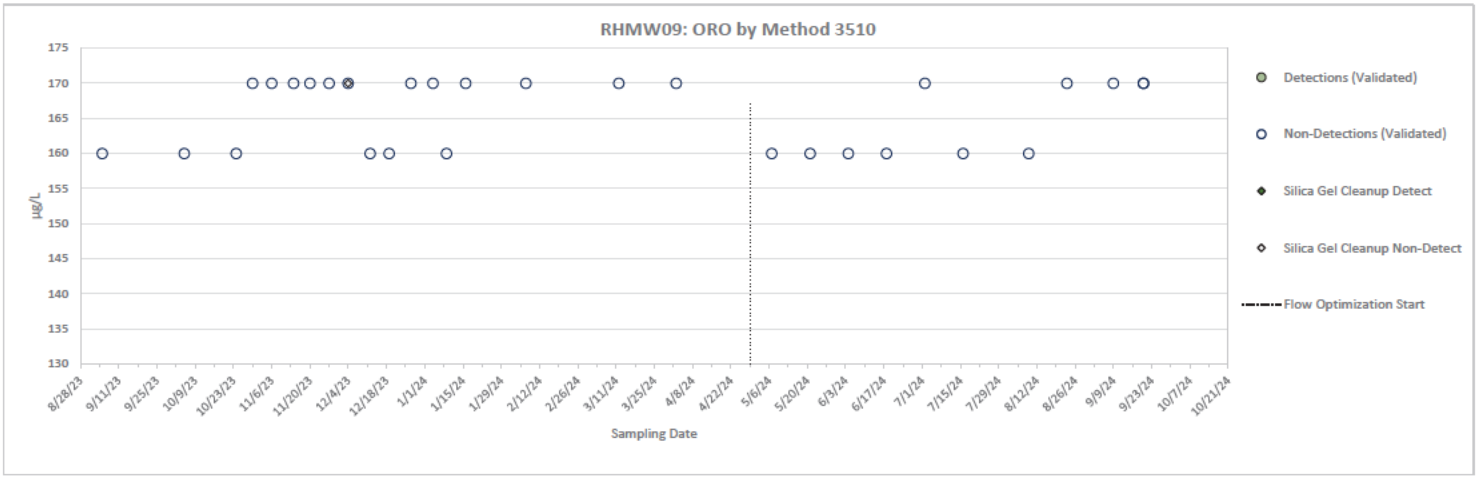


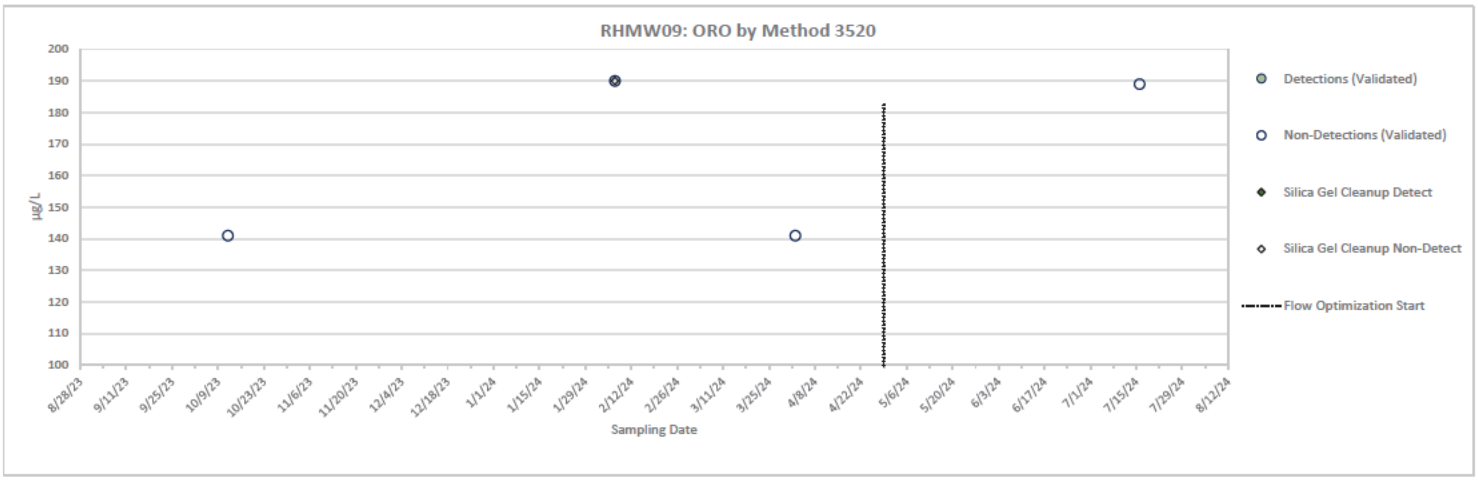
Note: See Data Legend

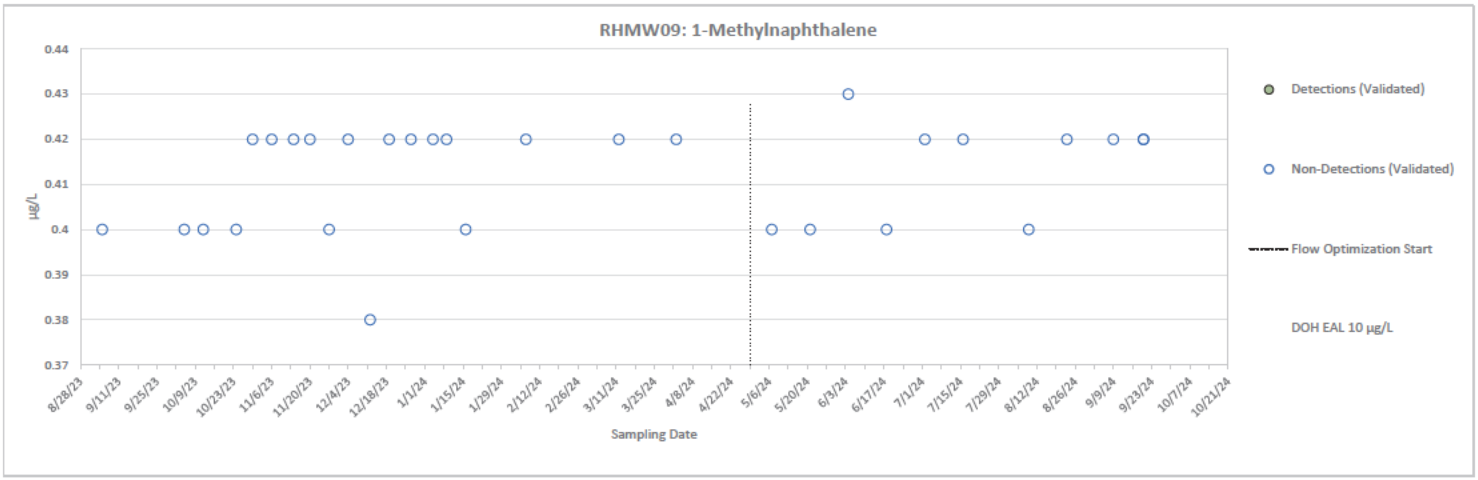

RHMW09: GRO
70
60
50
40
30
20
10
0
µg/L
66
57
47
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

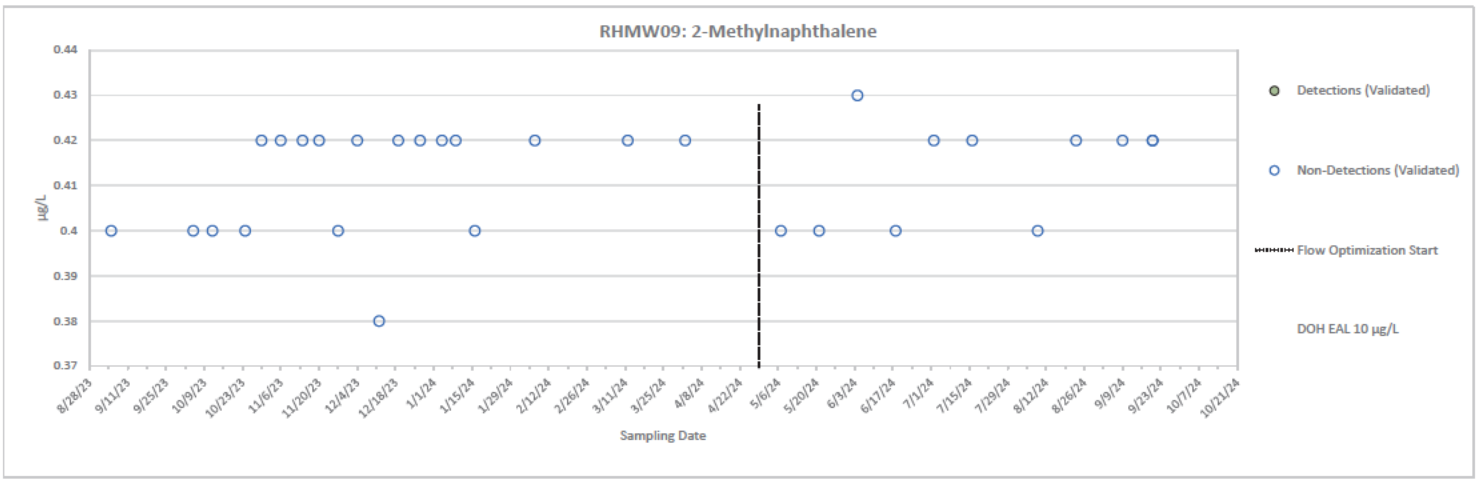

RHMW09: DRO by Method 3510
110
105
100
95
90
85
80
µg/L
106
103
99
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
10/21/24
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

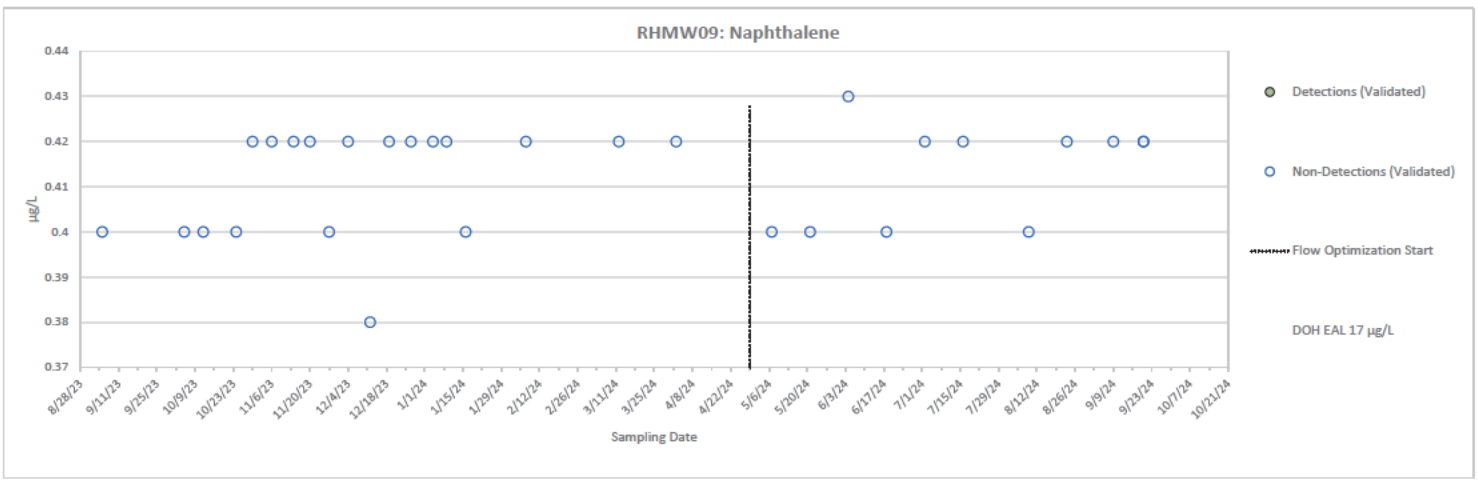

RHMW09: DRO by Method 3520
142.5
142
141.5
141
140.5
140
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

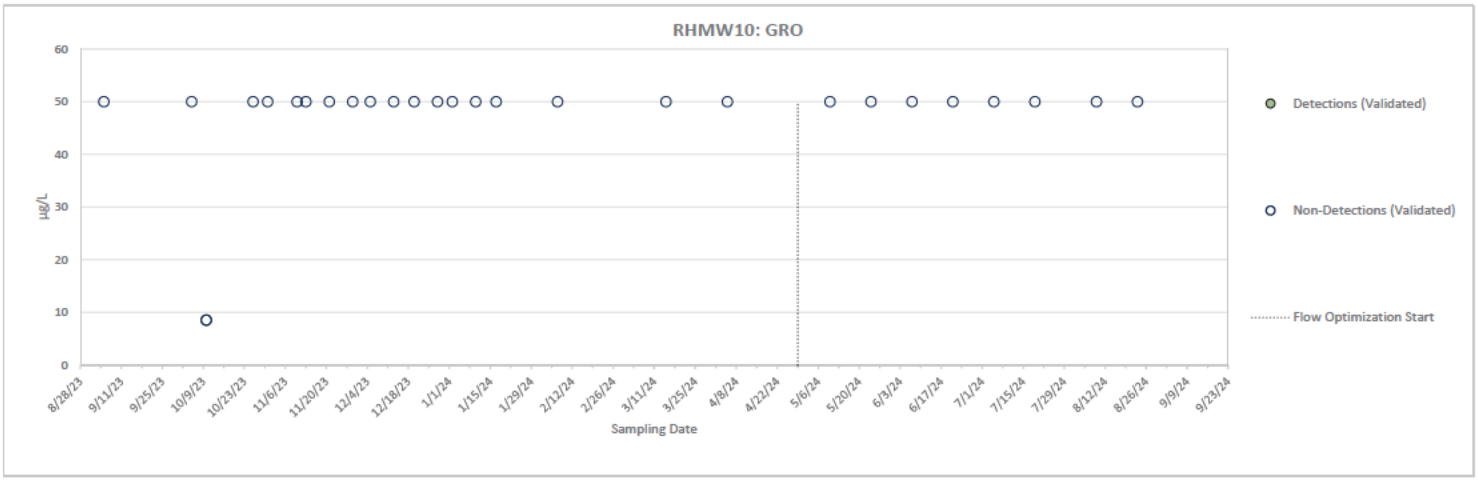

RHMW09: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
120
110
100
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

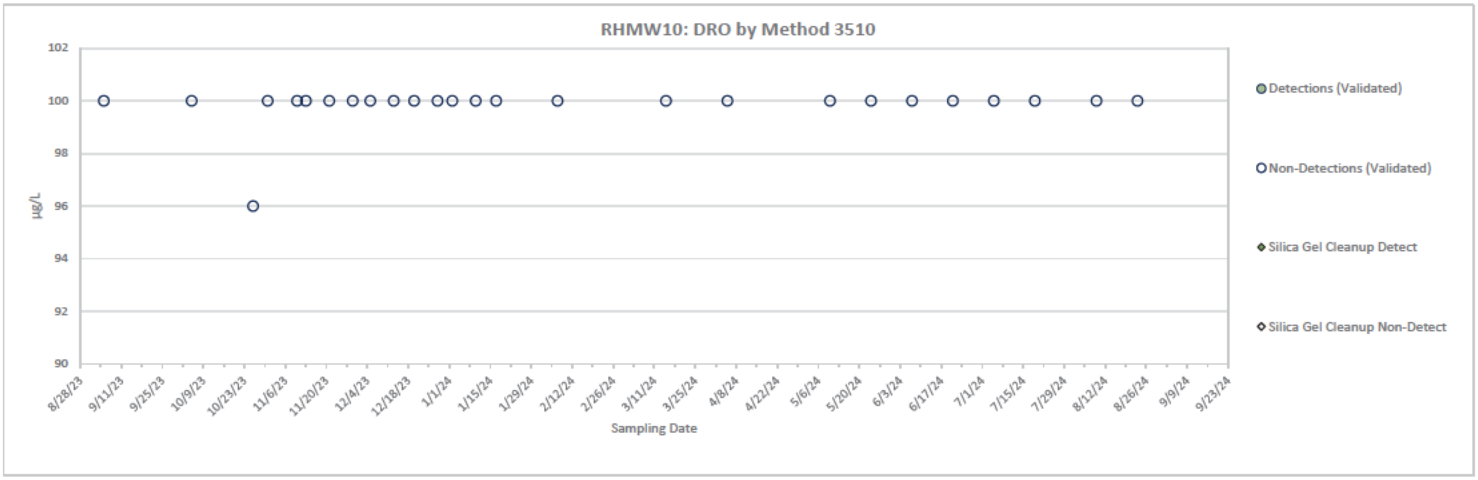


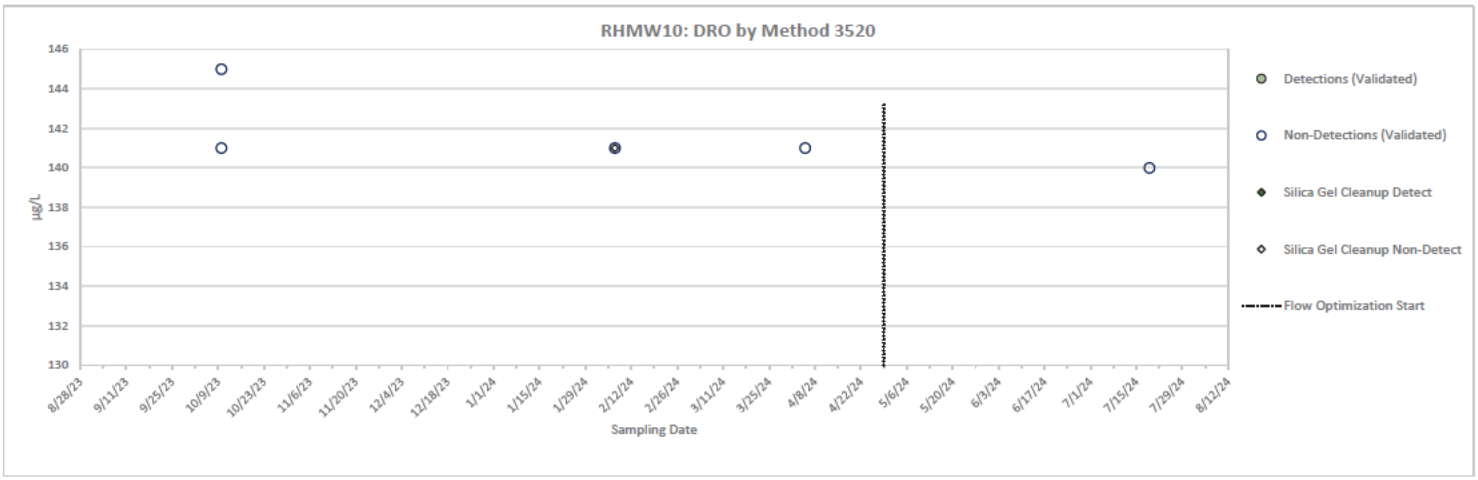


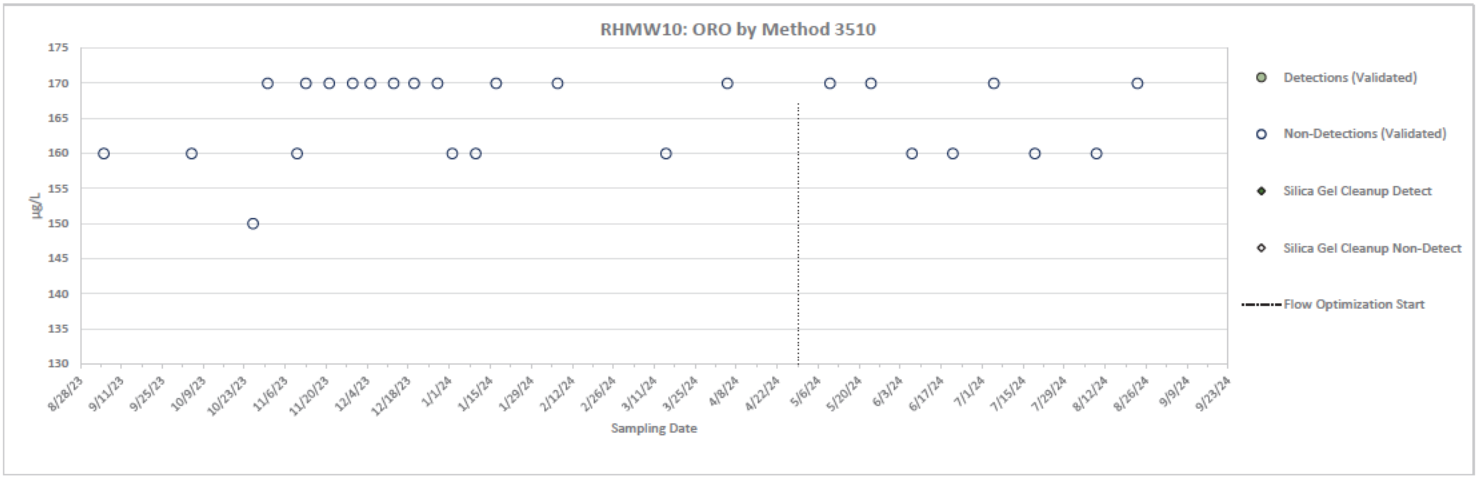


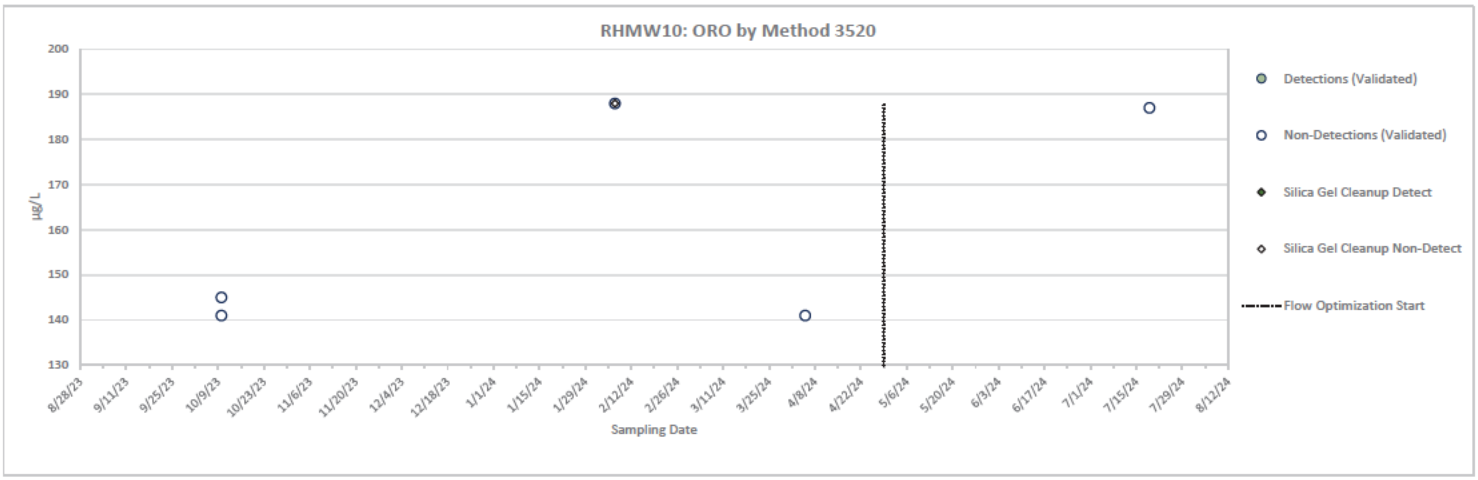
Note: See Data Legend

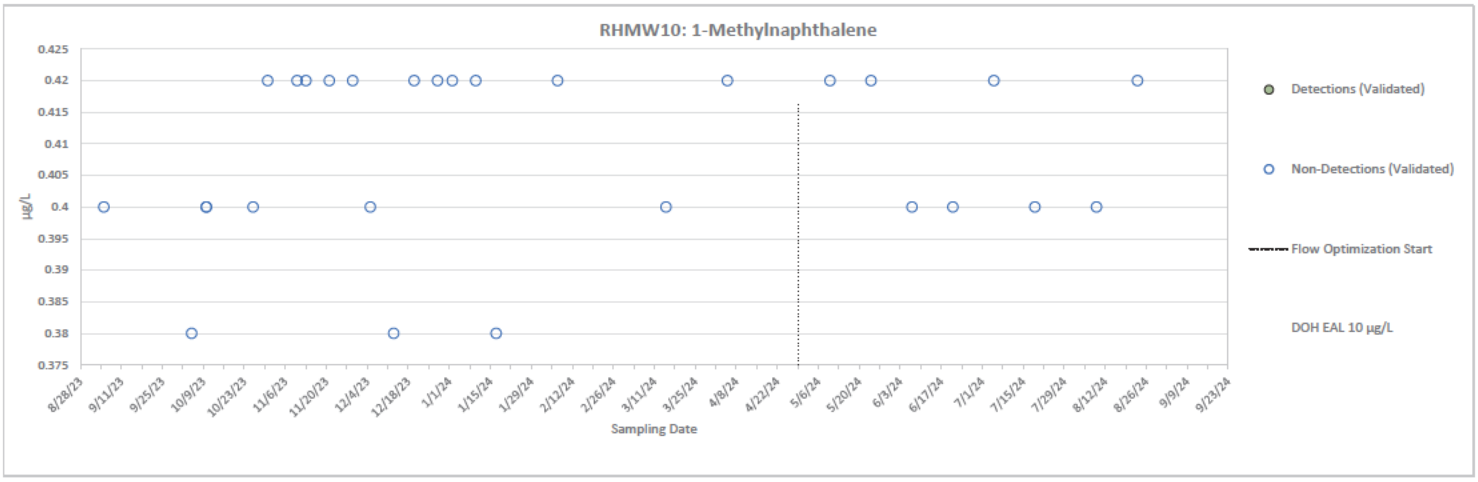

RHMW10: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

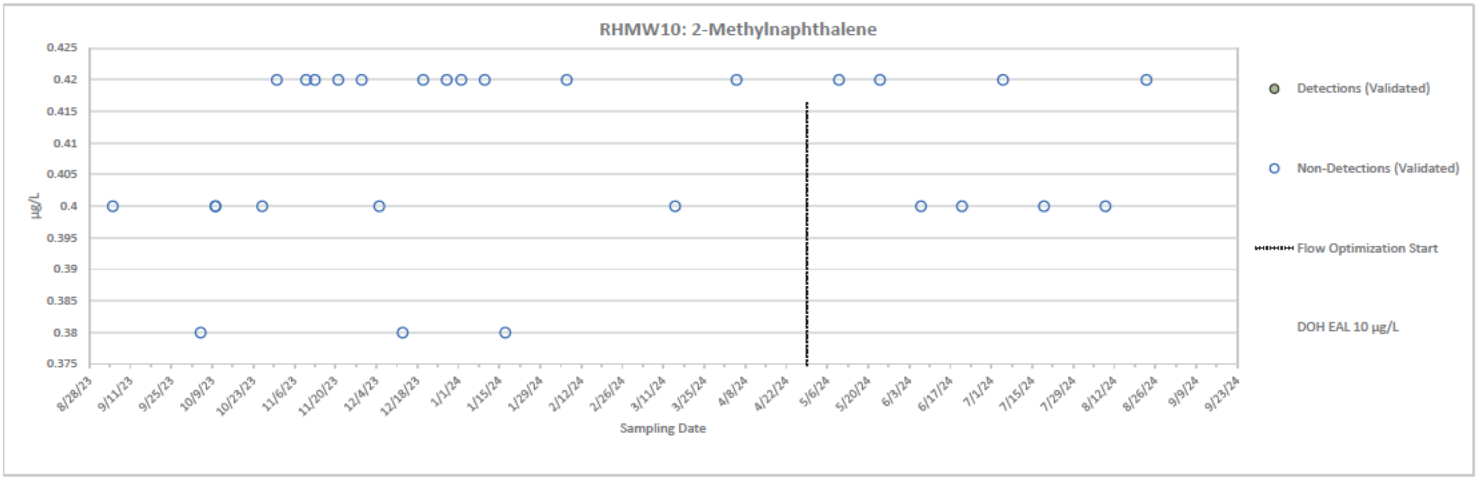

RHMW10: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

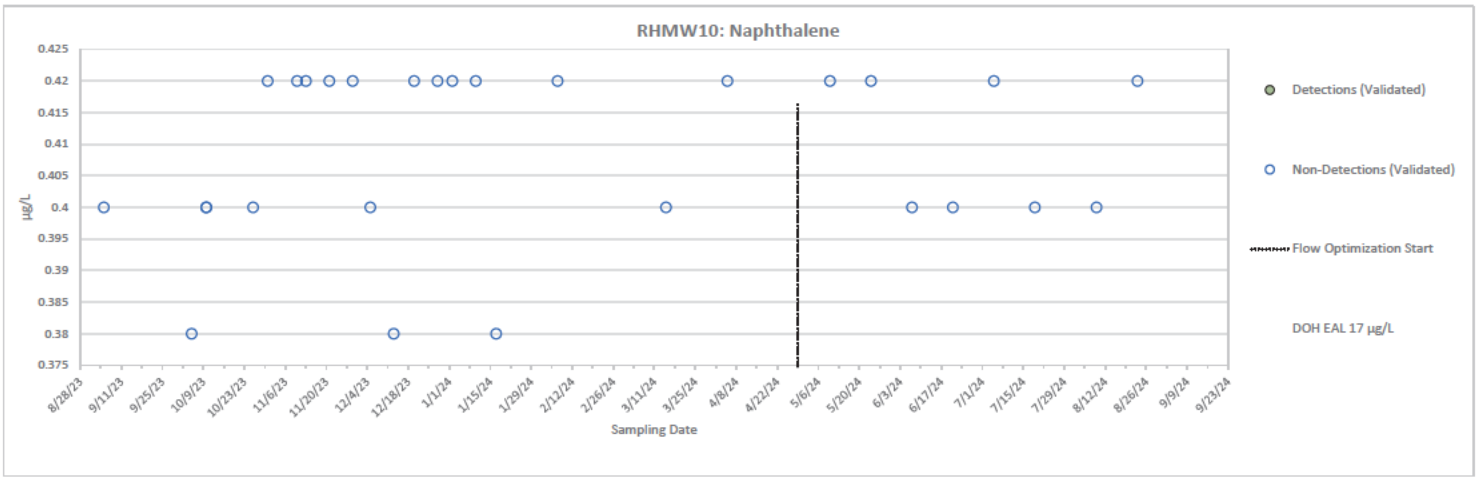

RHMW10: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

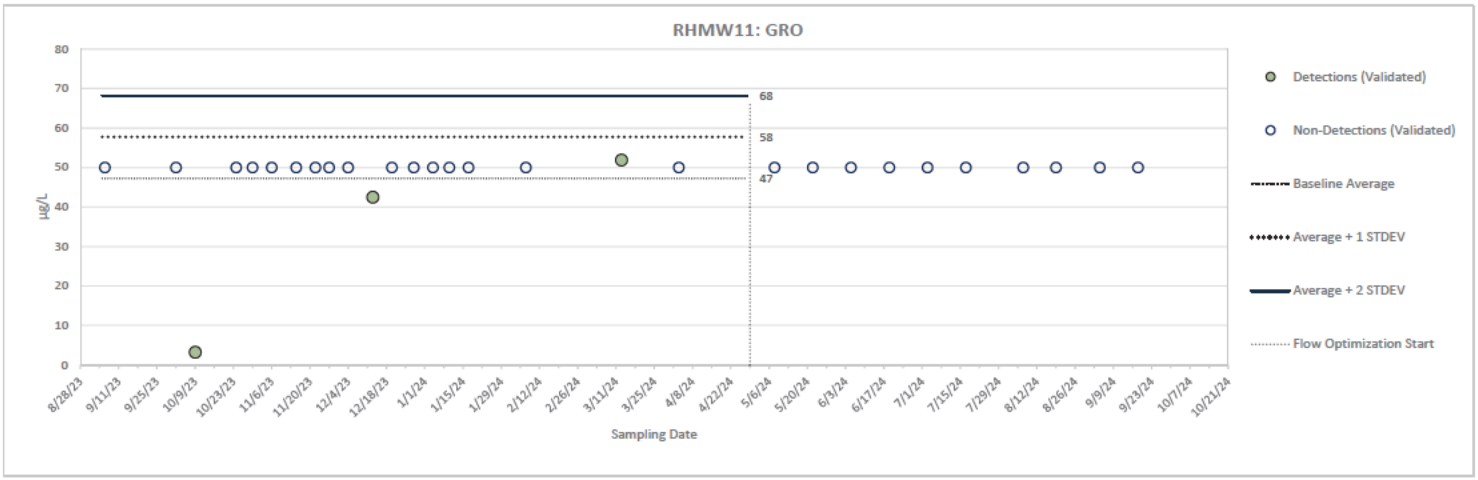

RHMW10: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

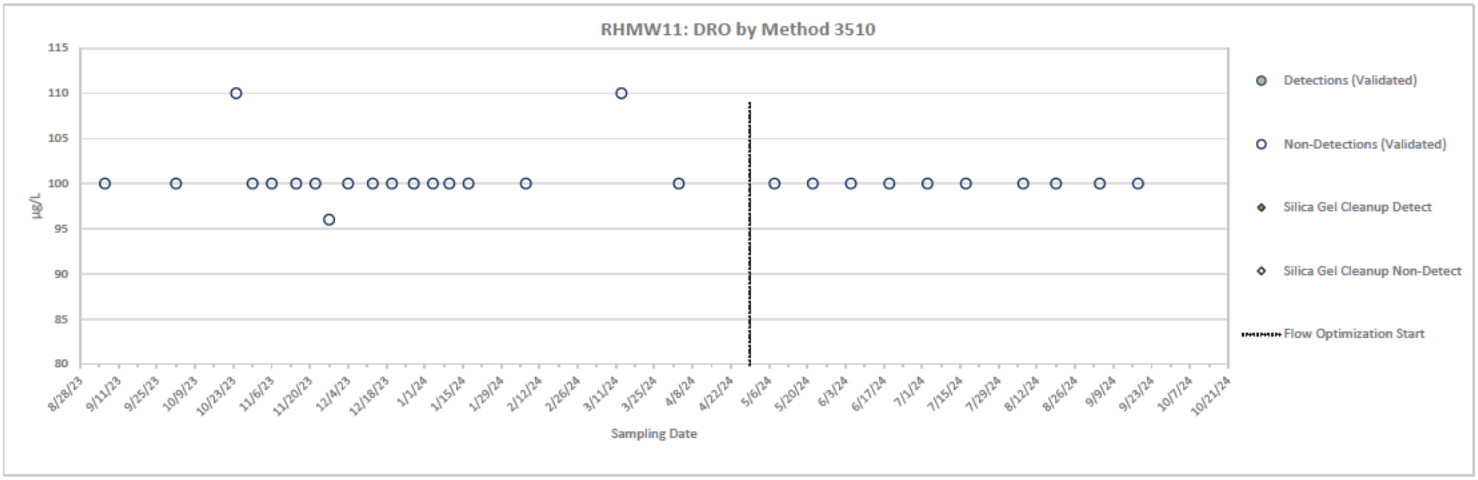


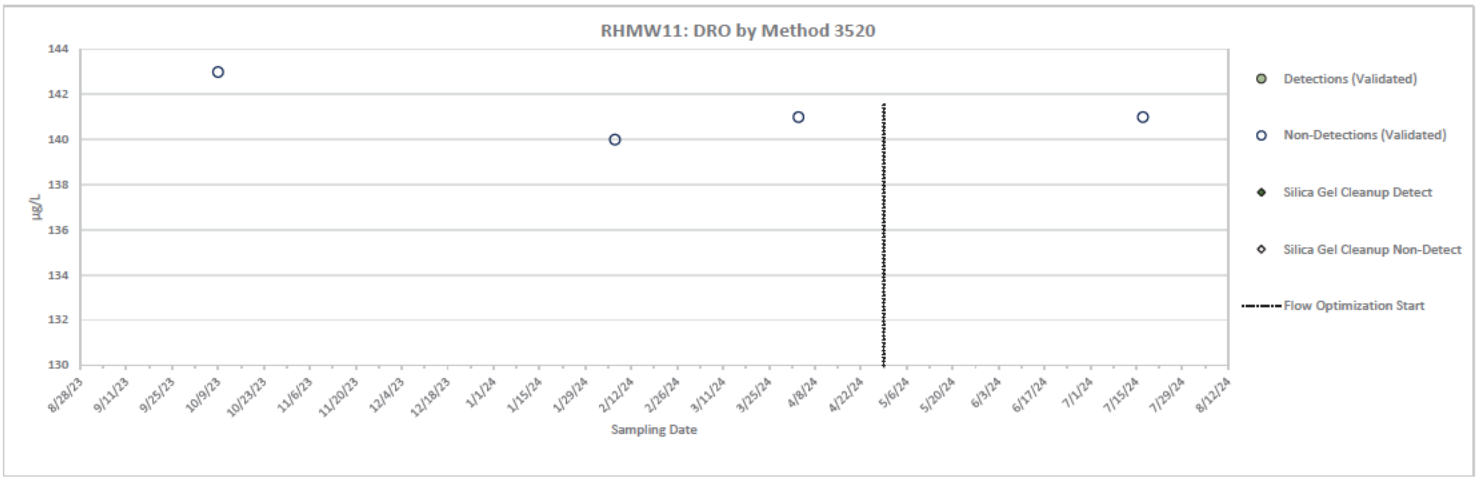


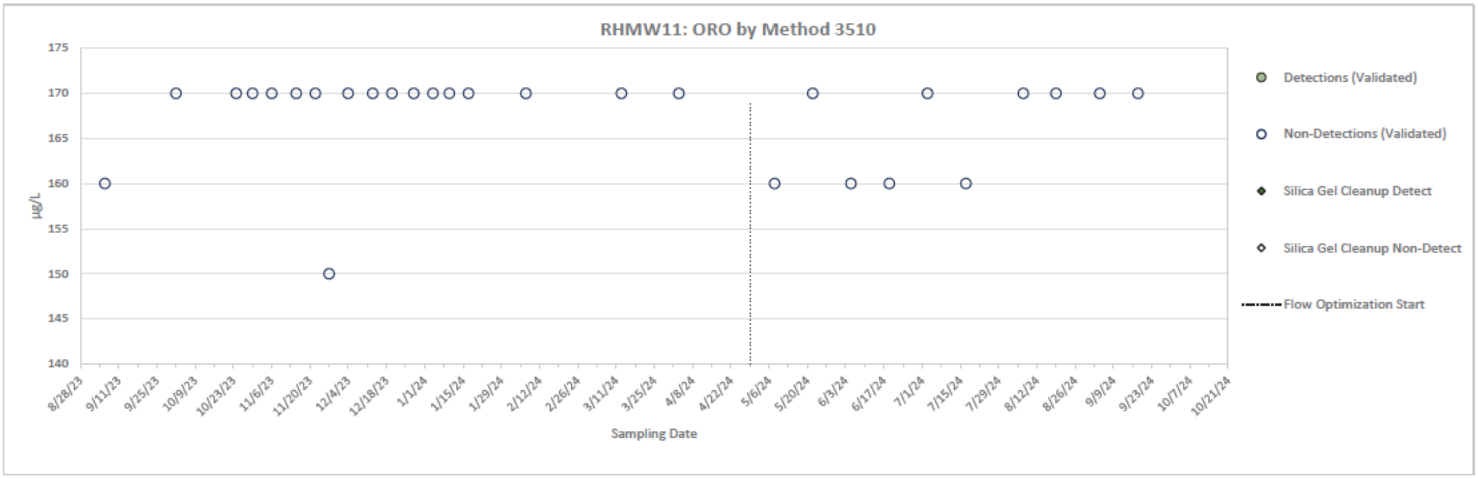


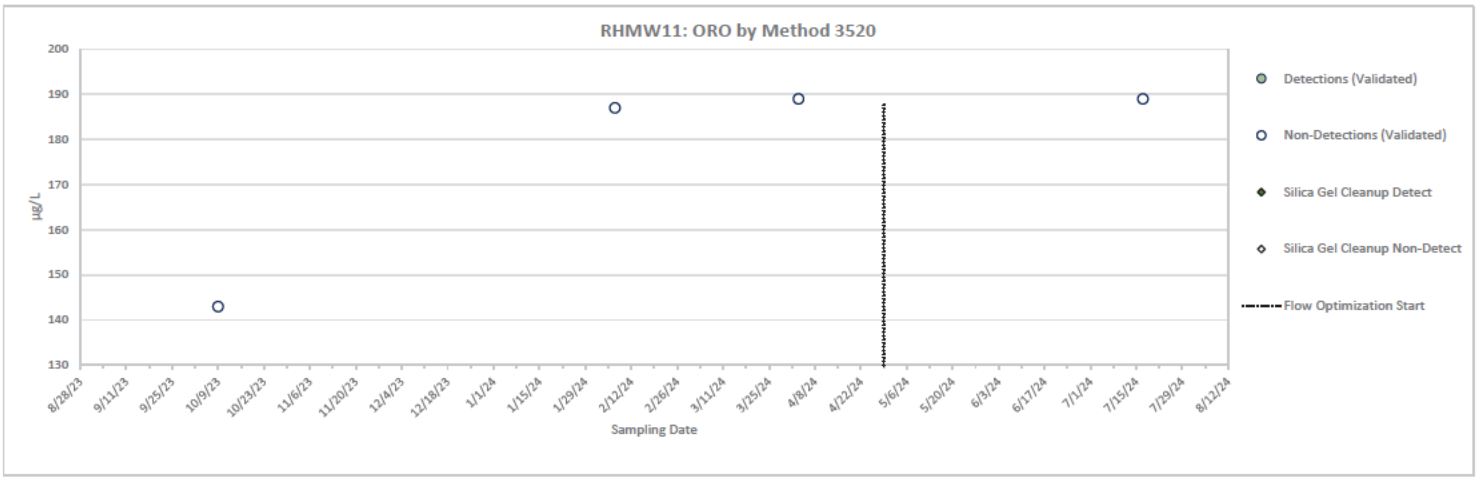
Note: See Data Legend

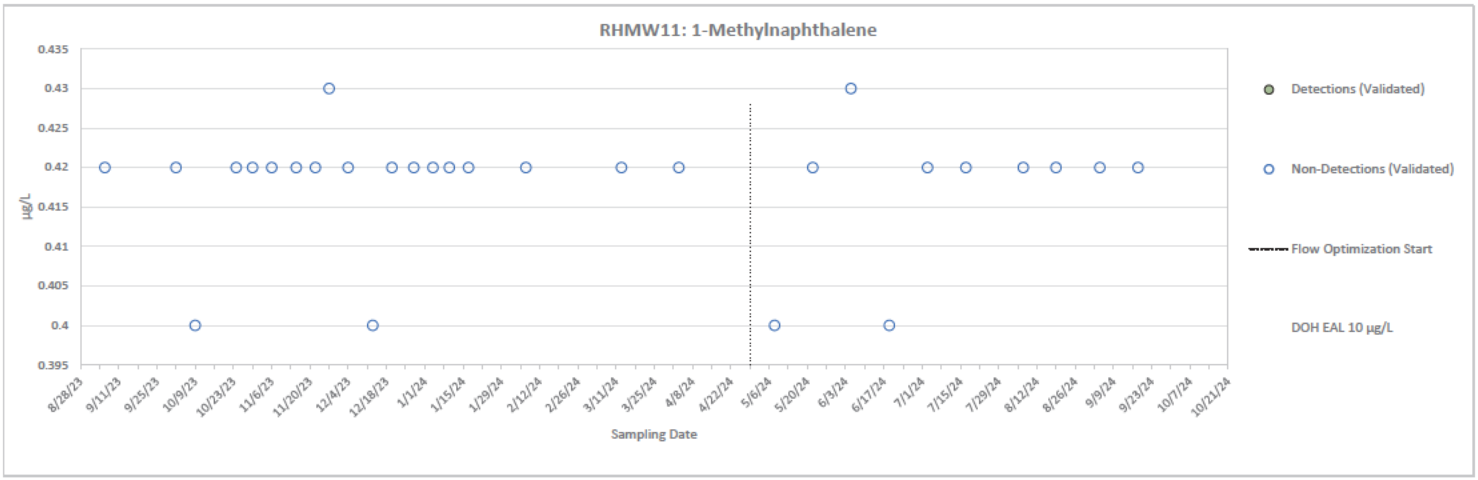

RHMW11: GRO
µg/L
Sampling Date
68
58
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

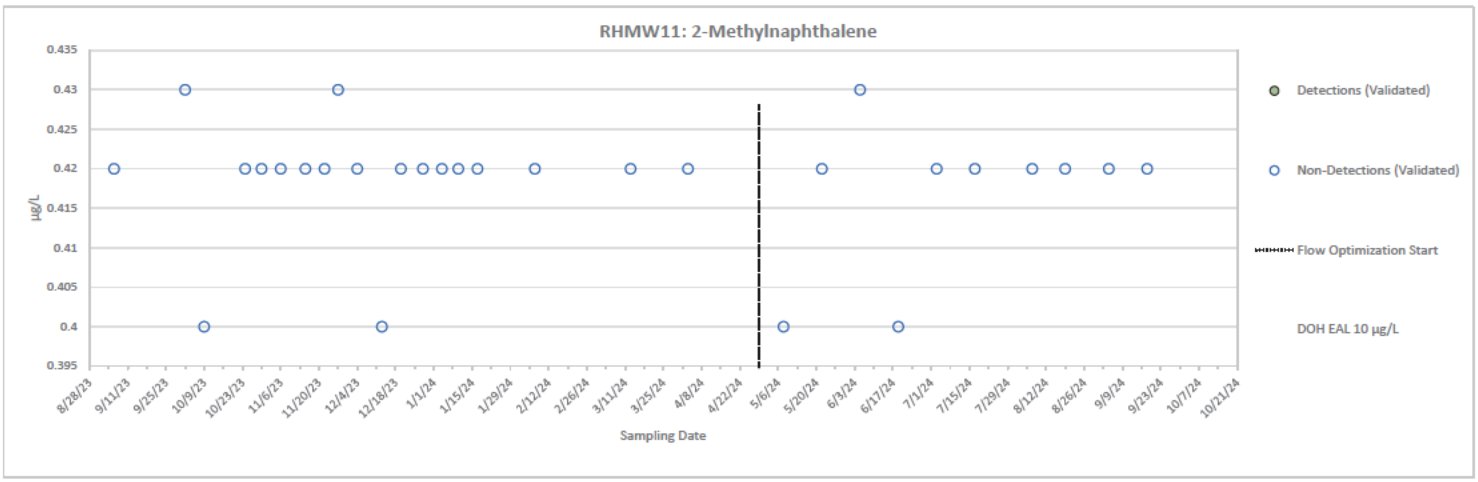

RHMW11: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

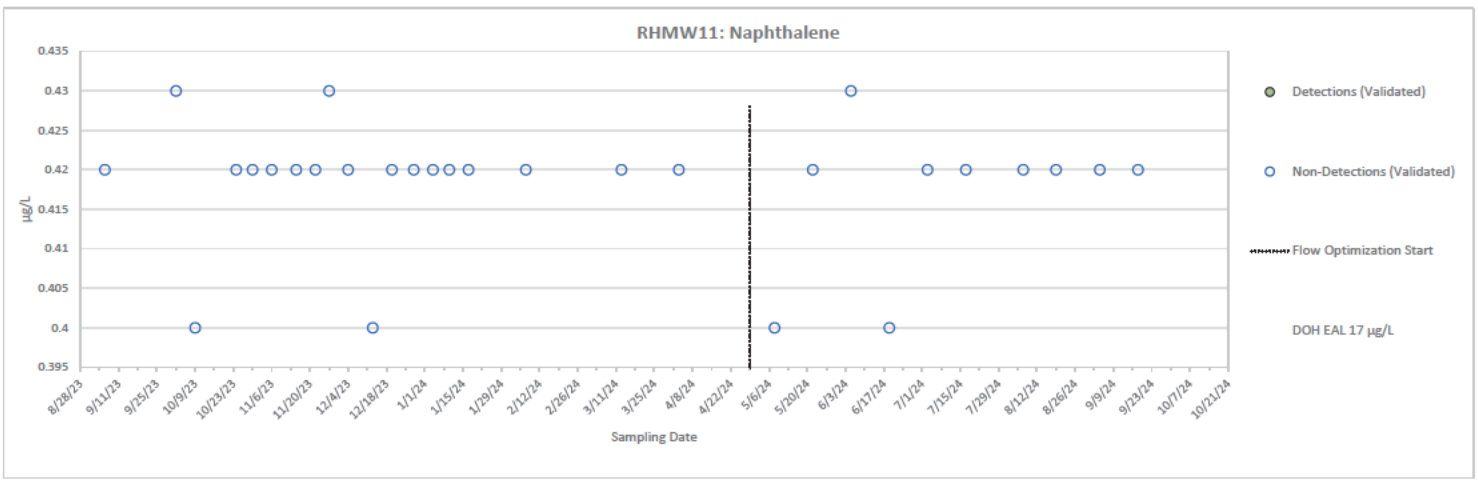

RHMW11: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

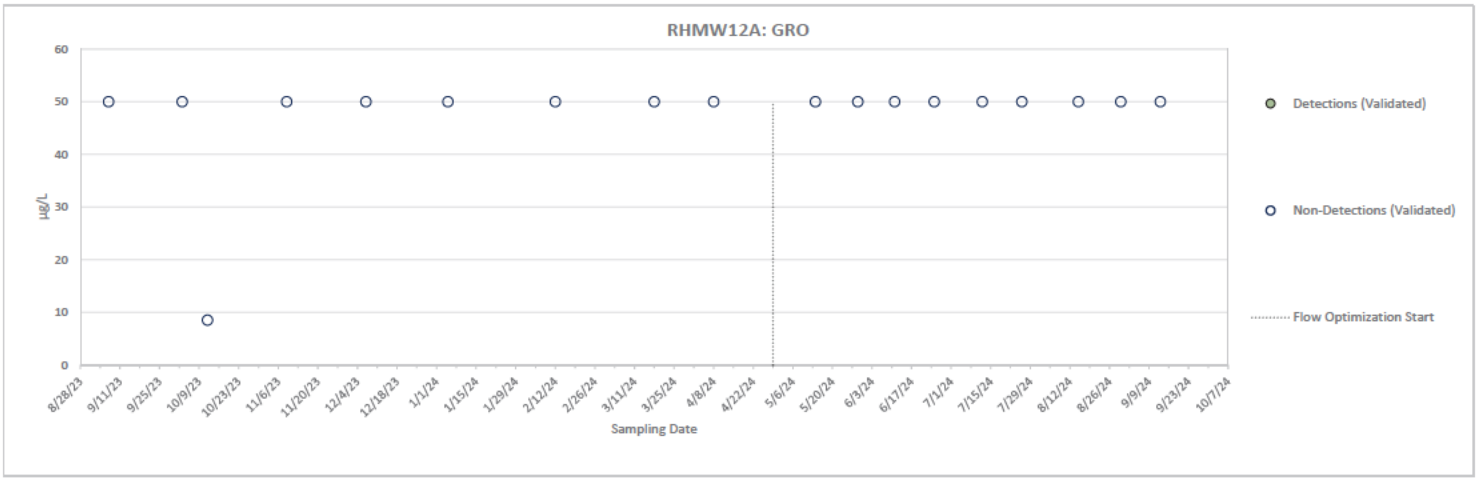

RHMW11: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

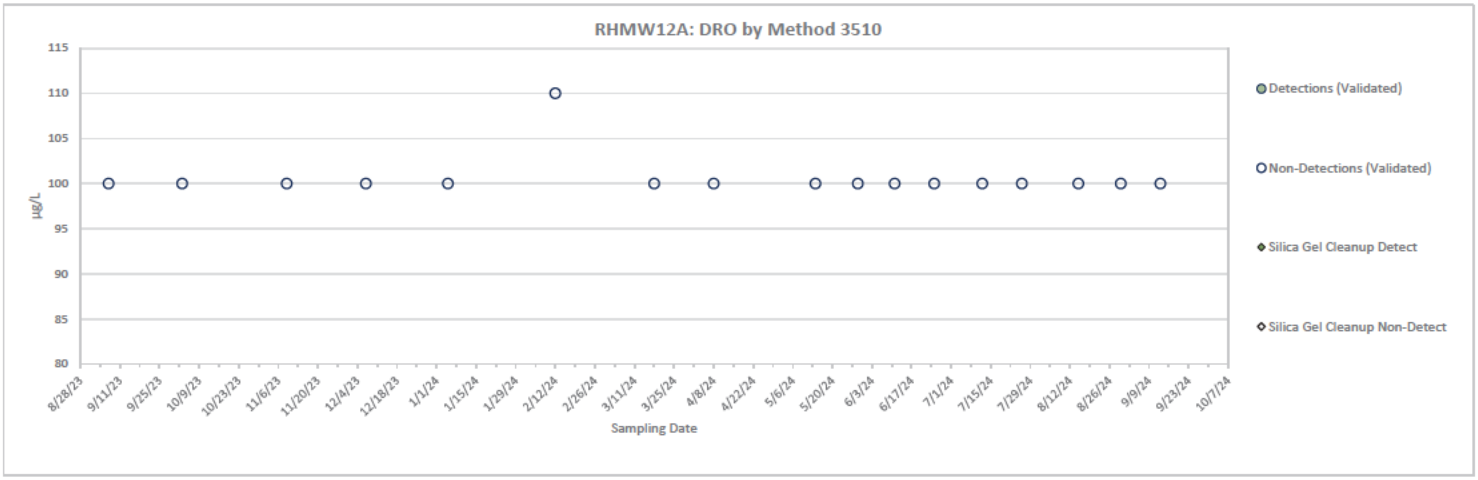


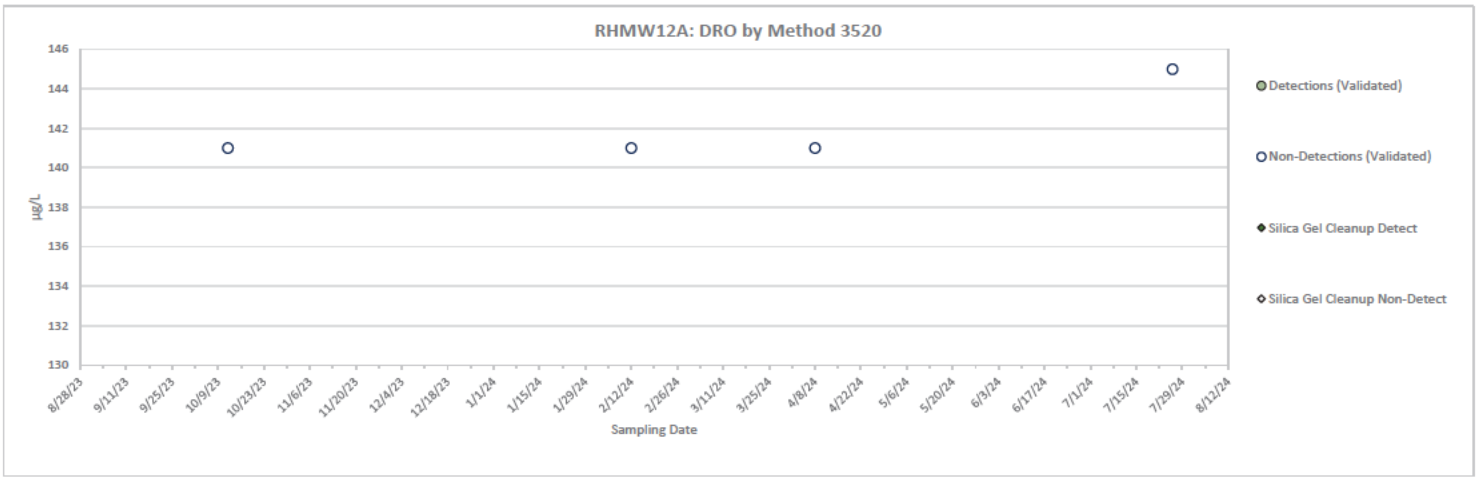


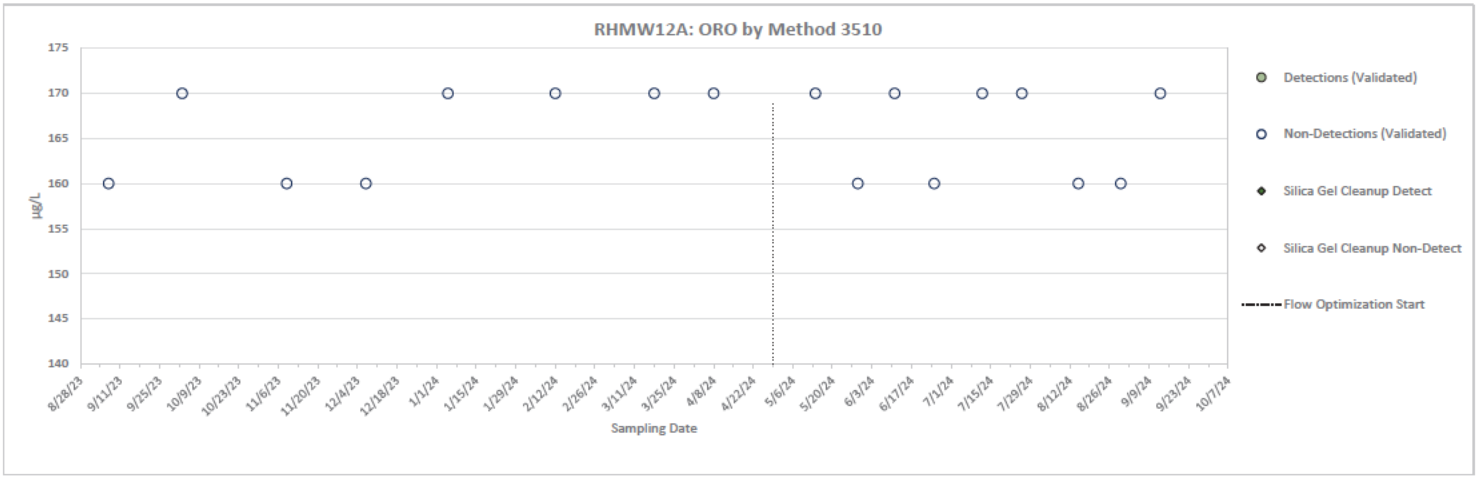


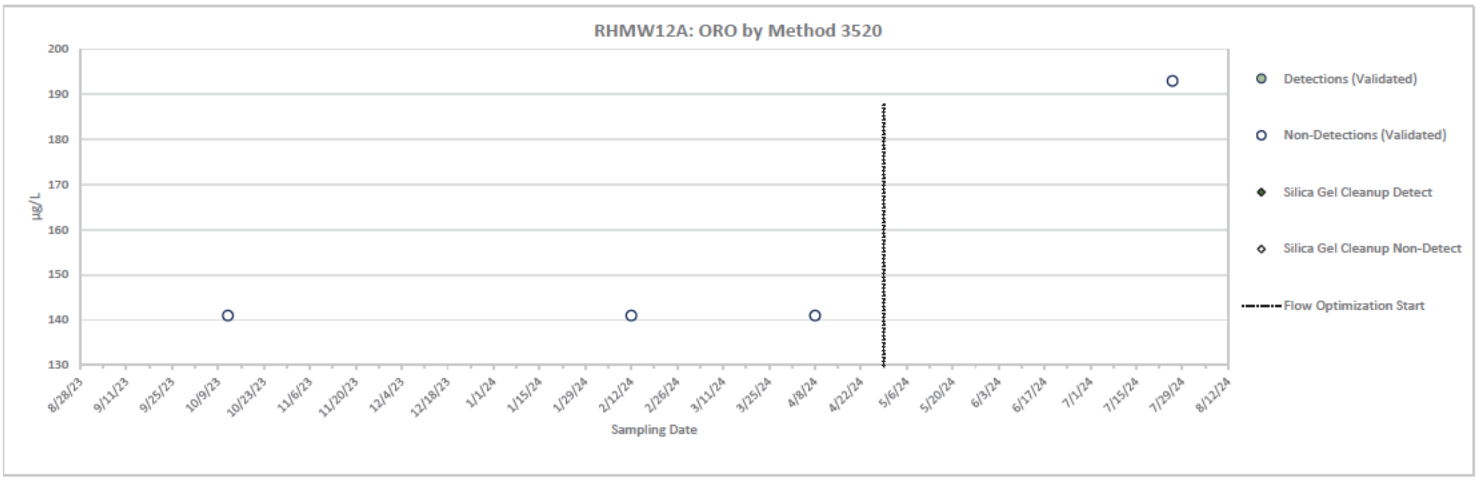
Note: See Data Legend

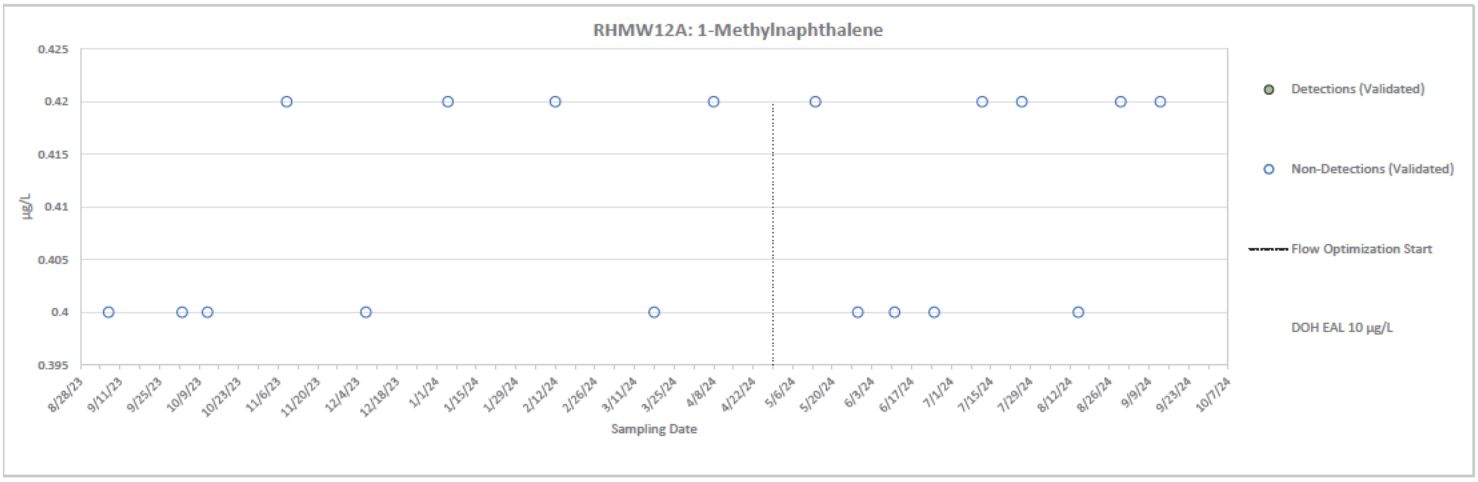

RHMW12A: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

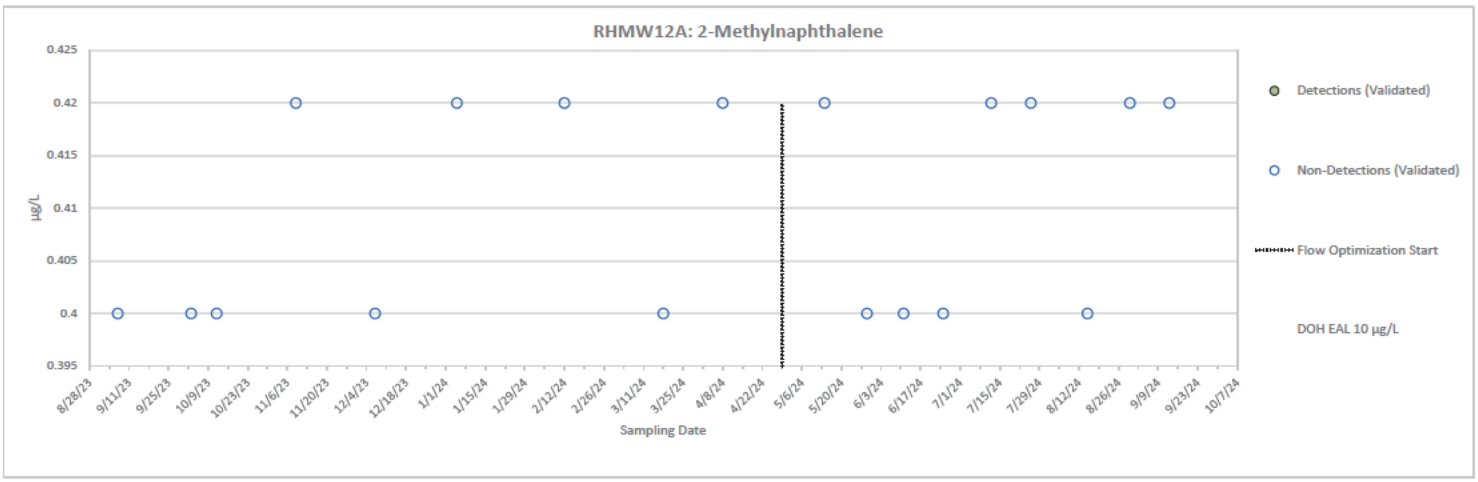

RHMW12A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

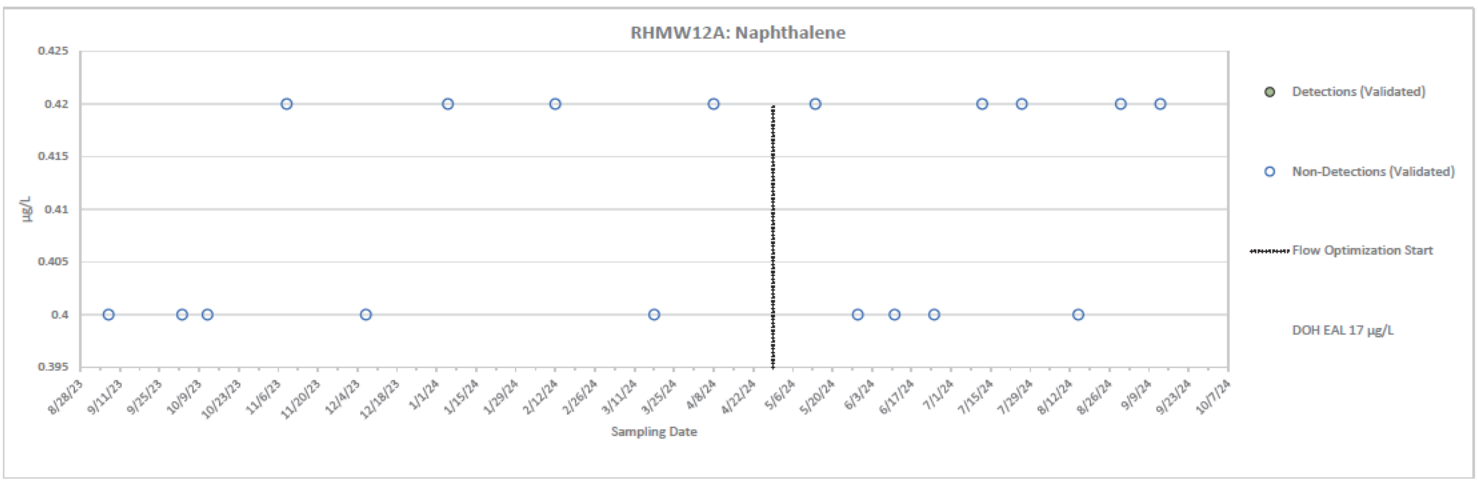

RHMW12A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

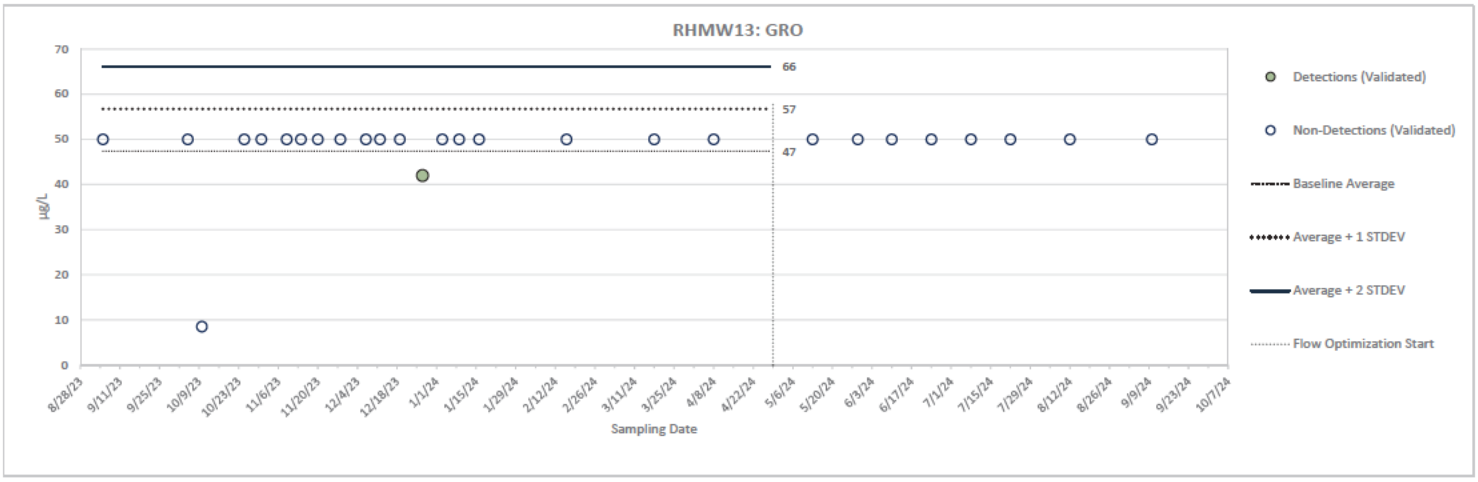

RHMW12A: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

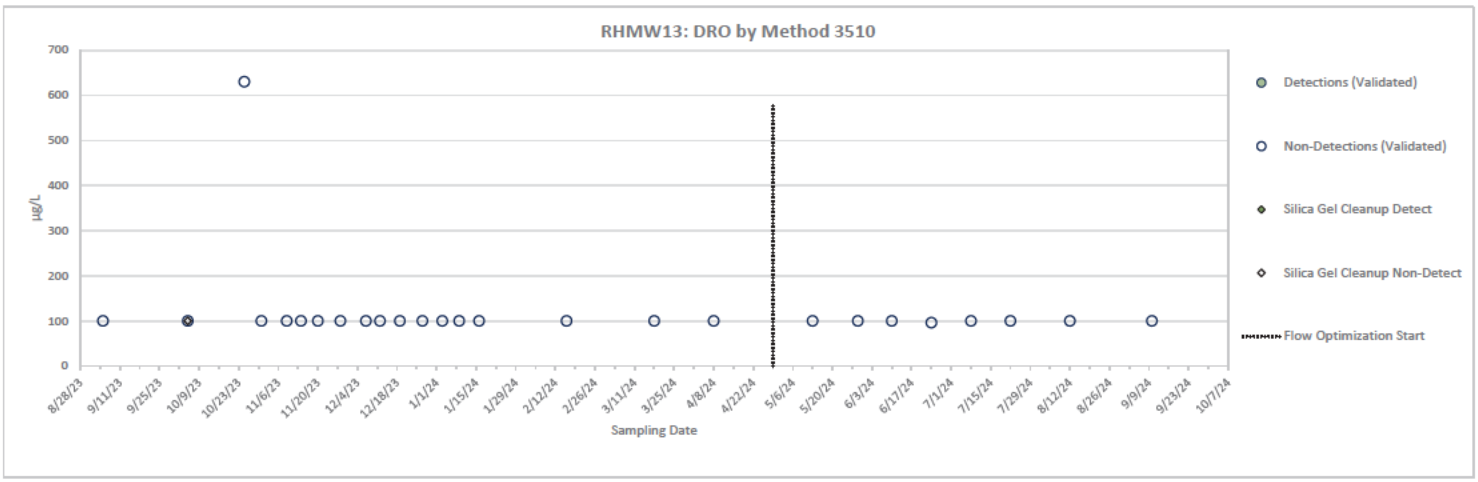


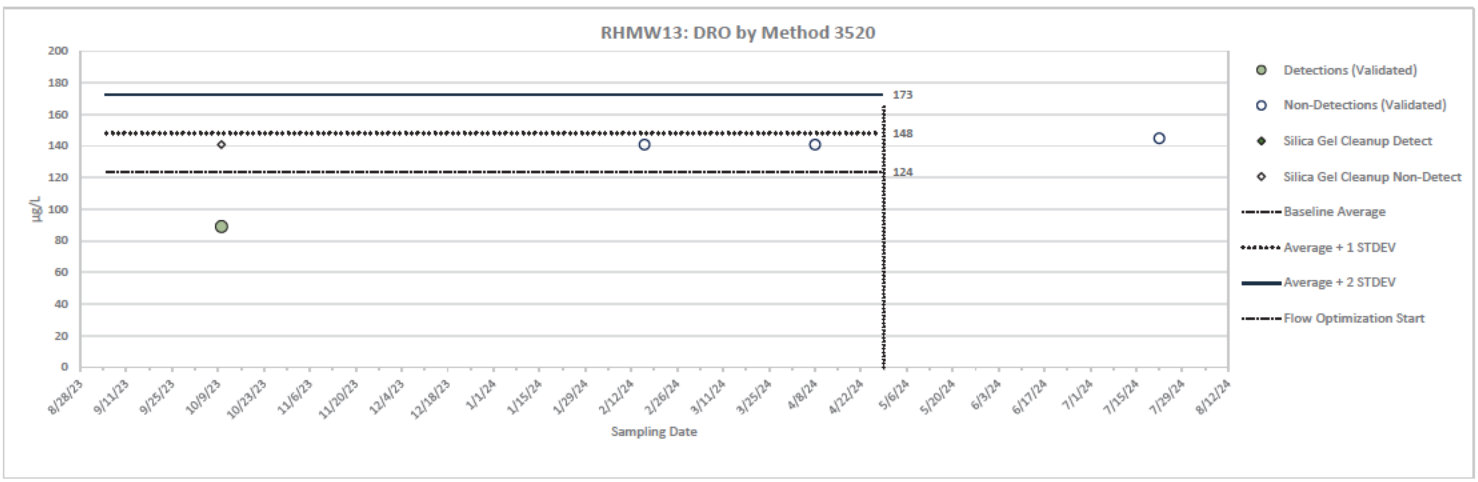


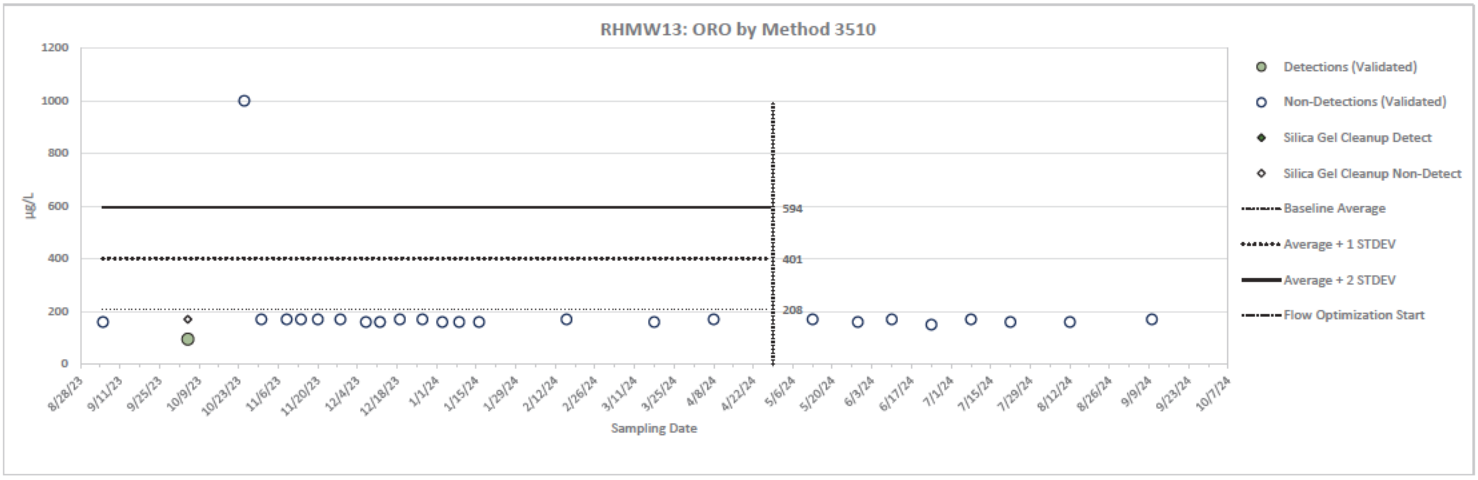


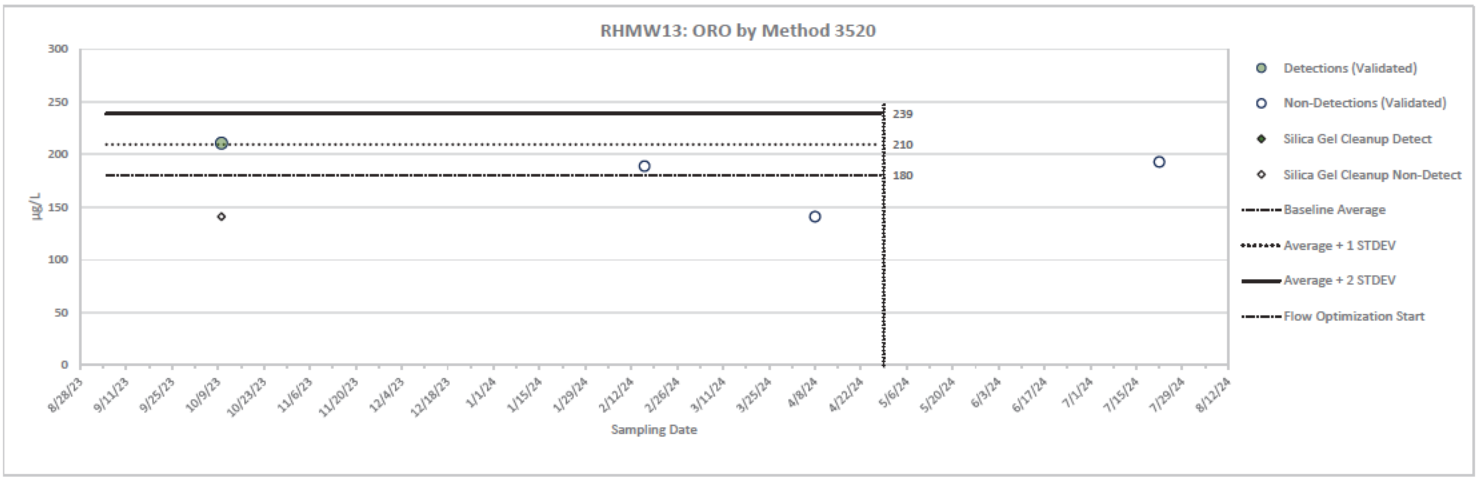
Note: See Data Legend

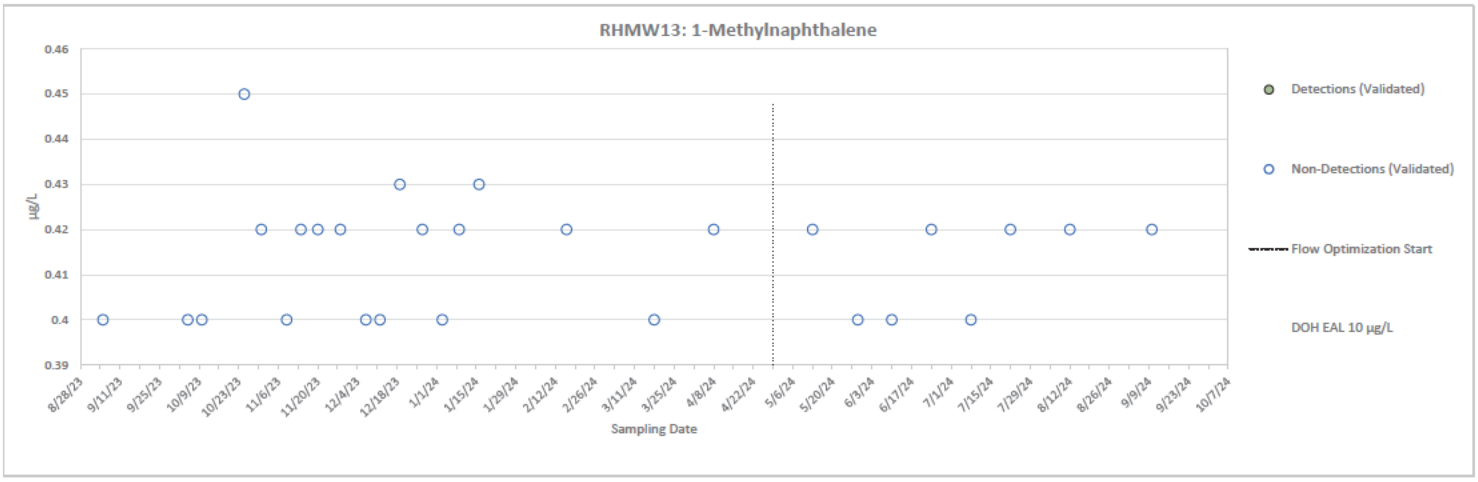

RHMW13: GRO
µg/L
Sampling Date
66
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

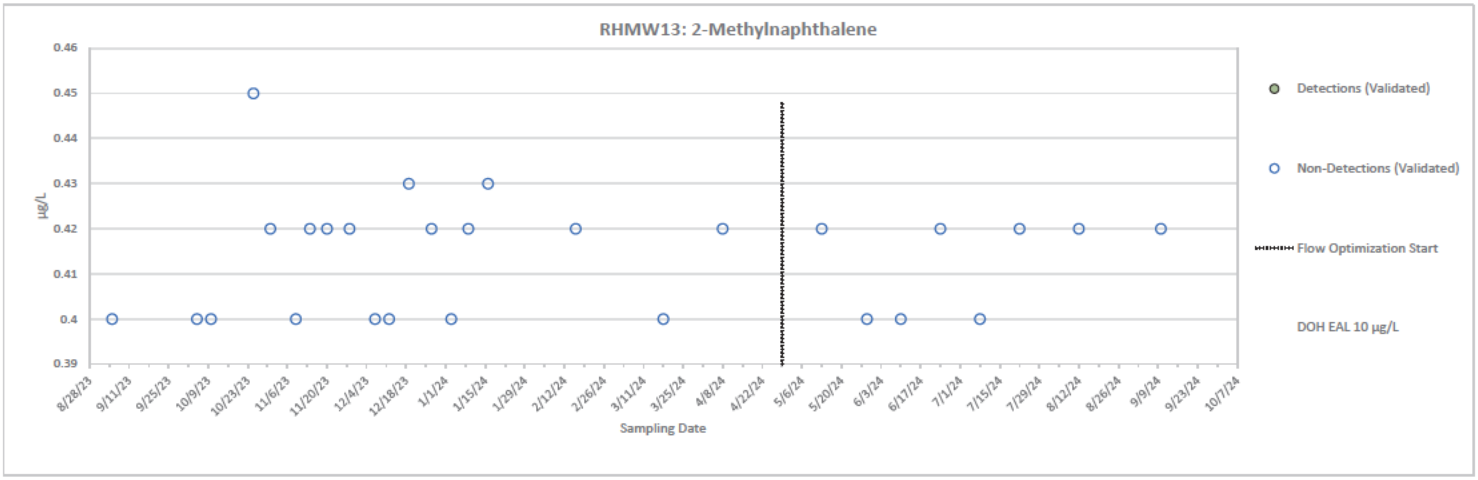

RHMW13: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

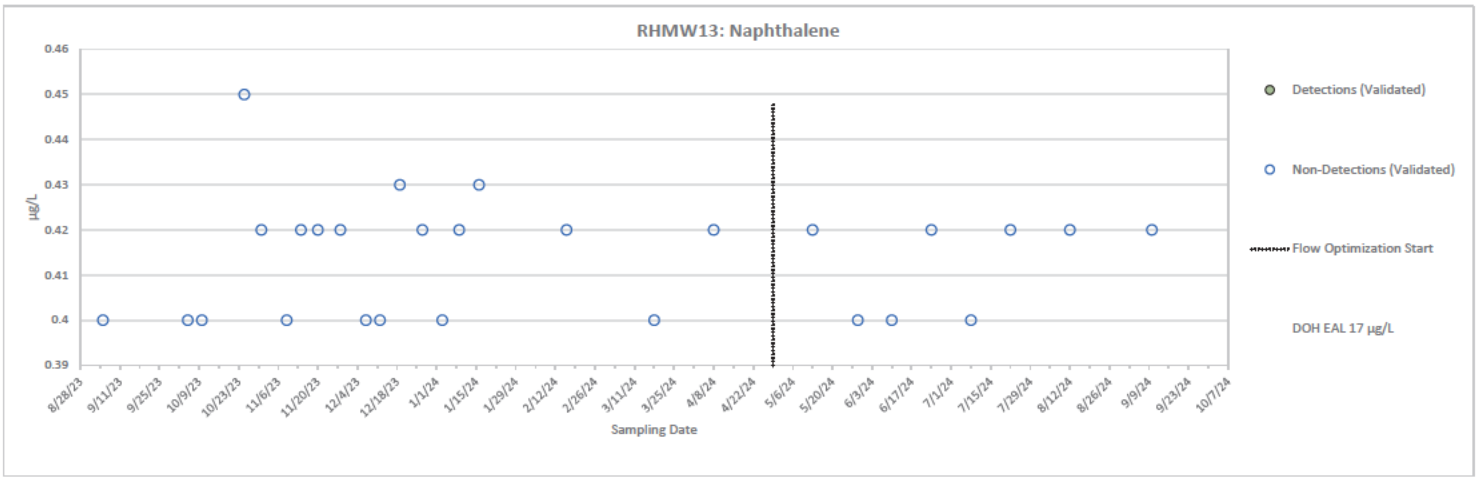

RHMW13: DRO by Method 3520
µg/L
Sampling Date
173
148
124
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW13: ORO by Method 3510
1200
1000
800
600
400
200
0
ug/L
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
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

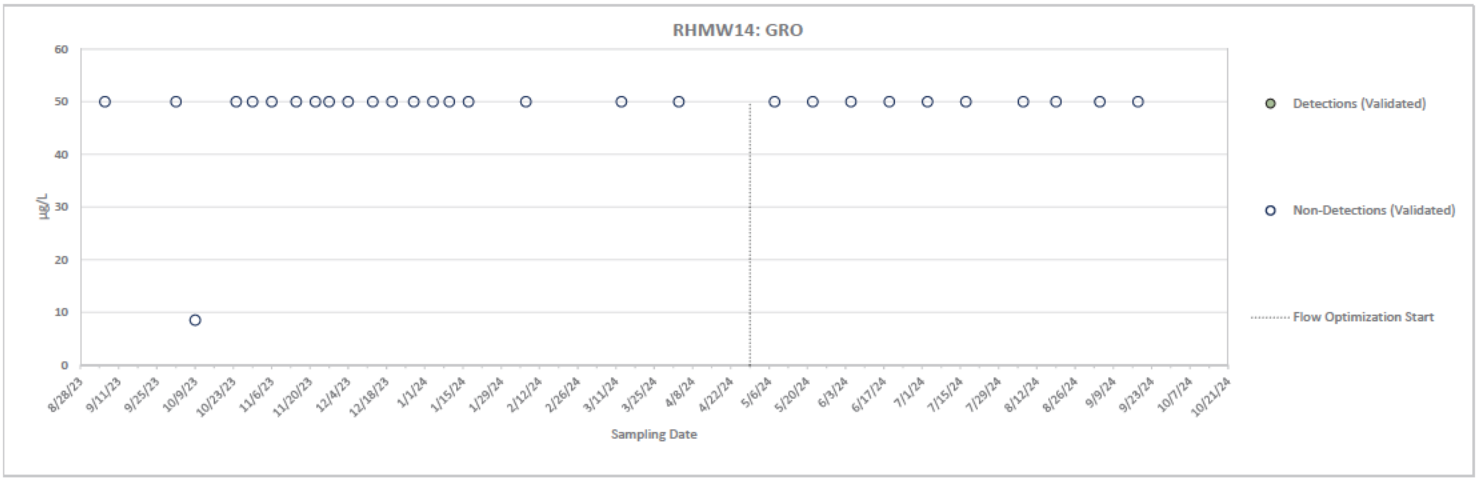

RHMW13: ORO by Method 3520
300
250
200
150
100
50
0
ug/L
239
210
180
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

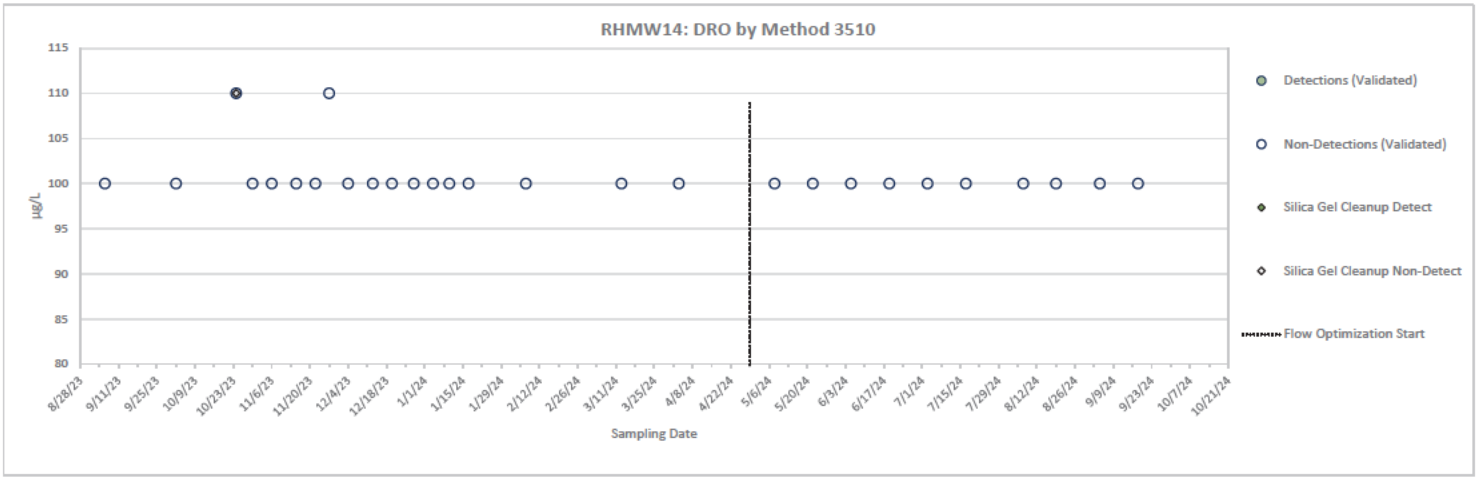


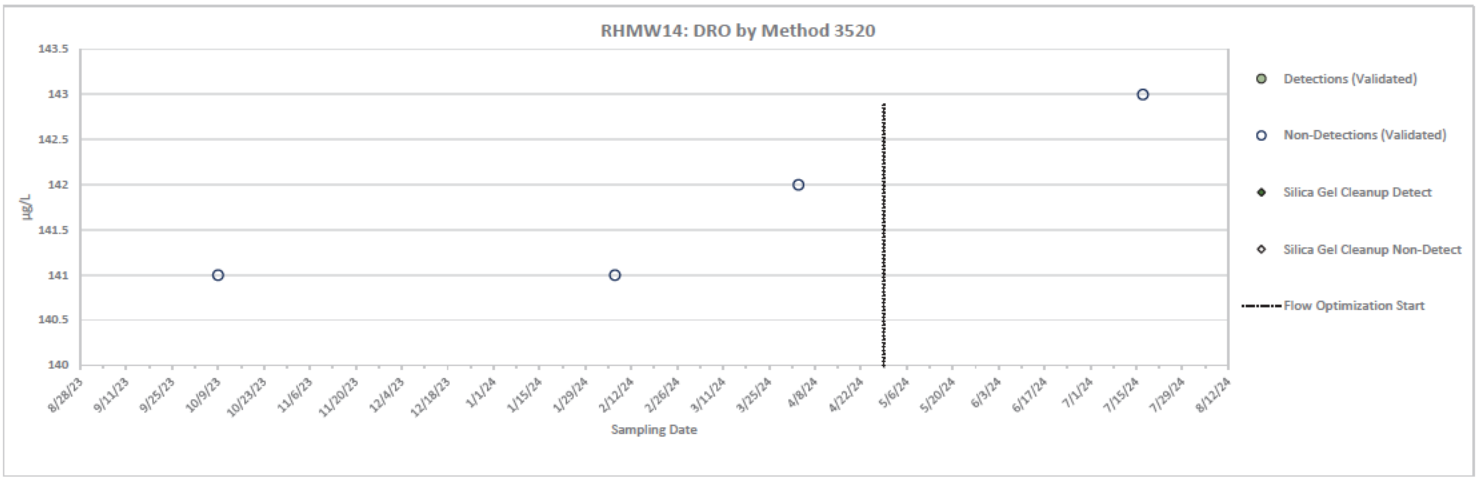


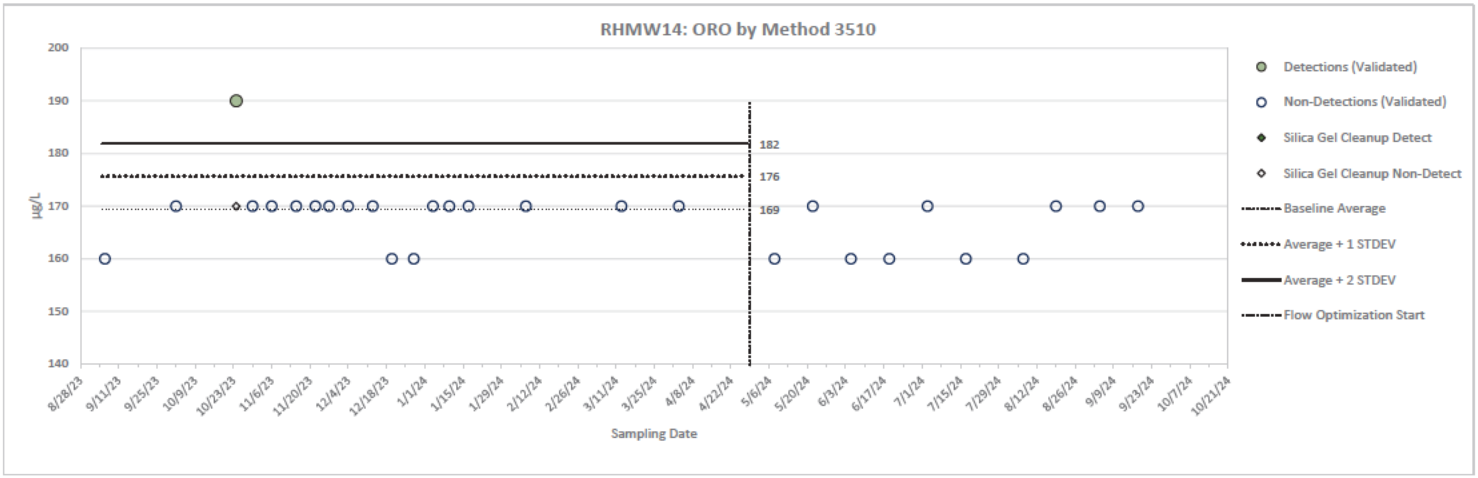


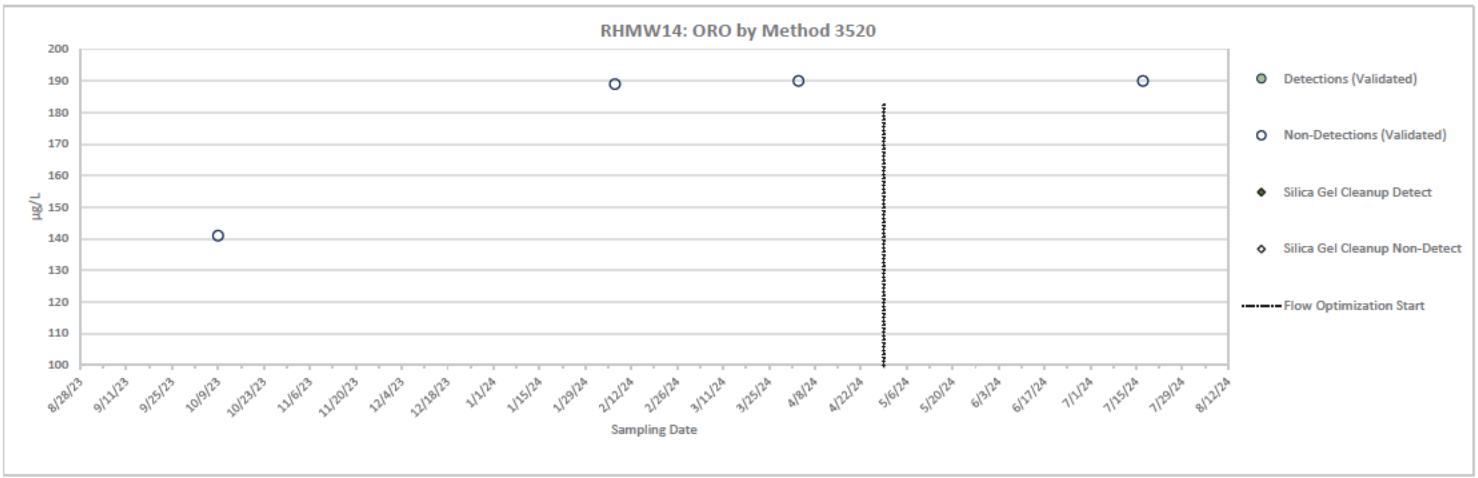
Note: See Data Legend

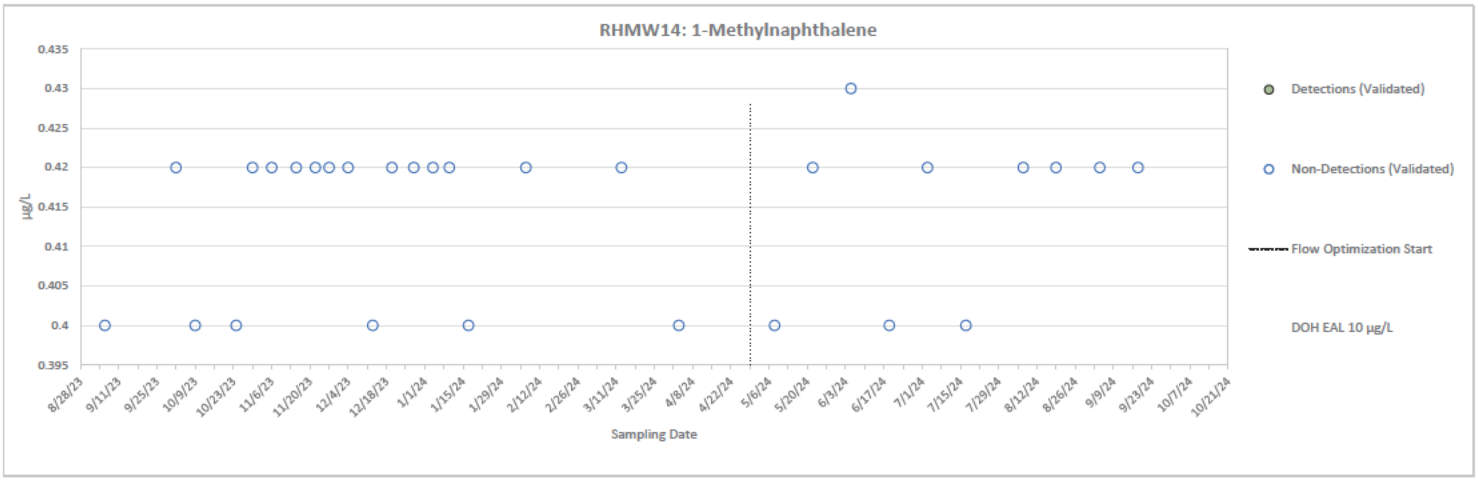

RHMW14: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

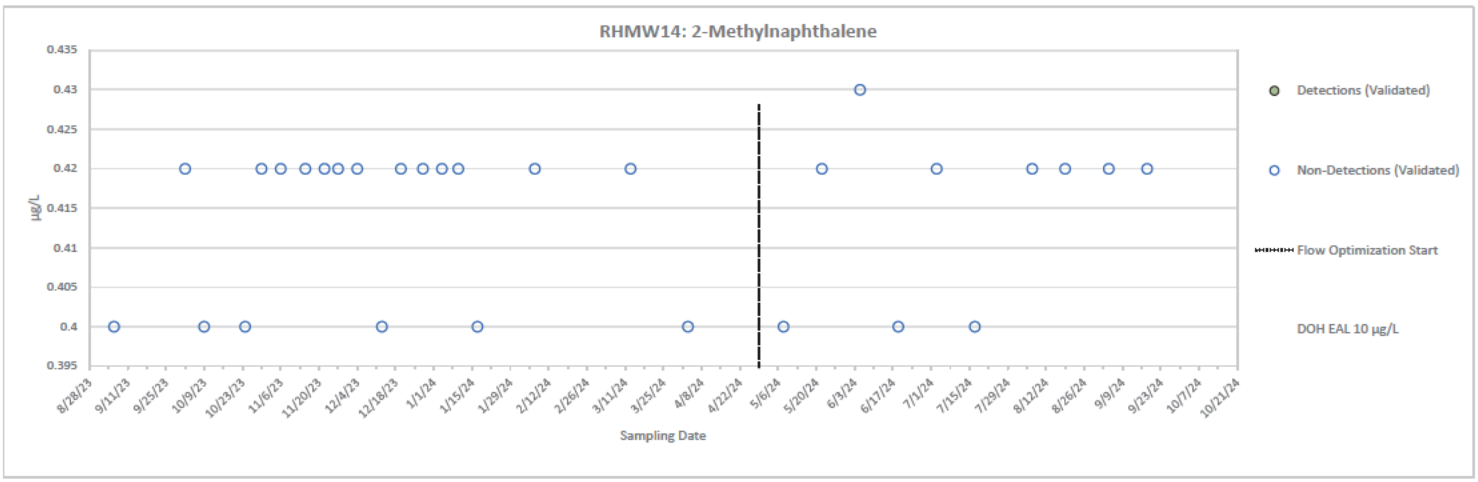

RHMW14: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

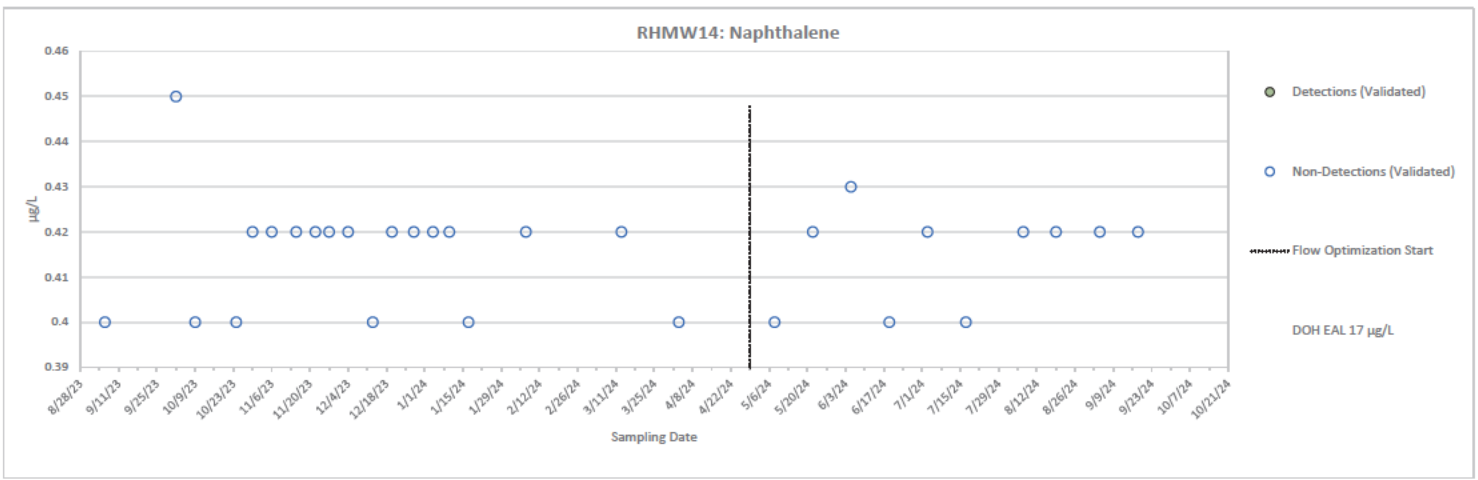

RHMW14: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW14: ORO by Method 3510
µg/L
Sampling Date
182
176
169
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

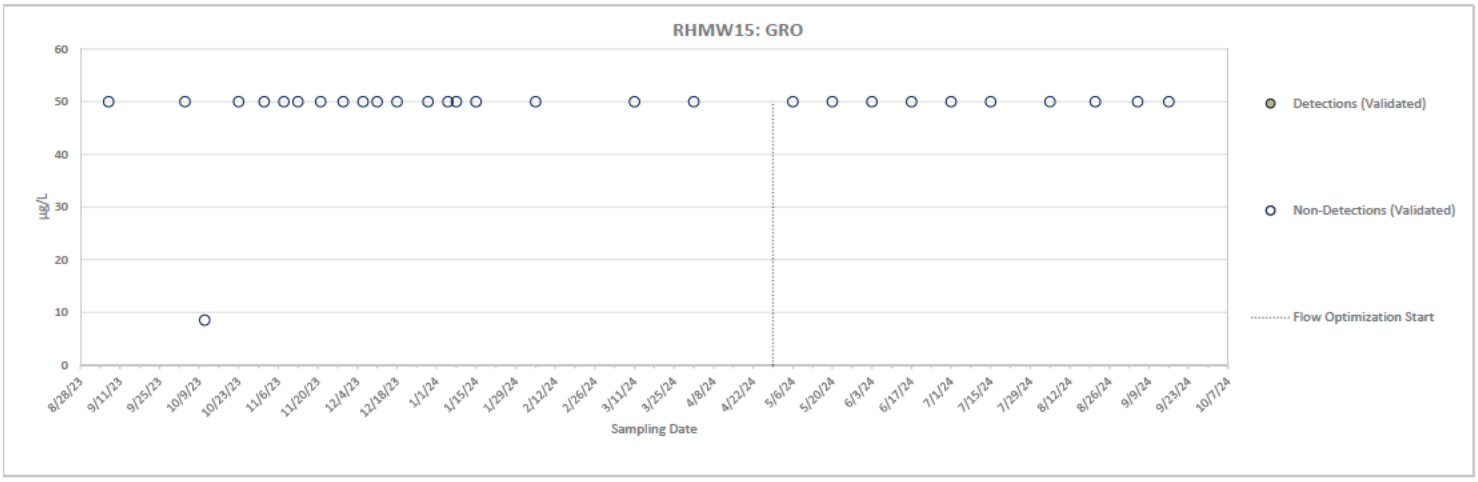

RHMW14: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

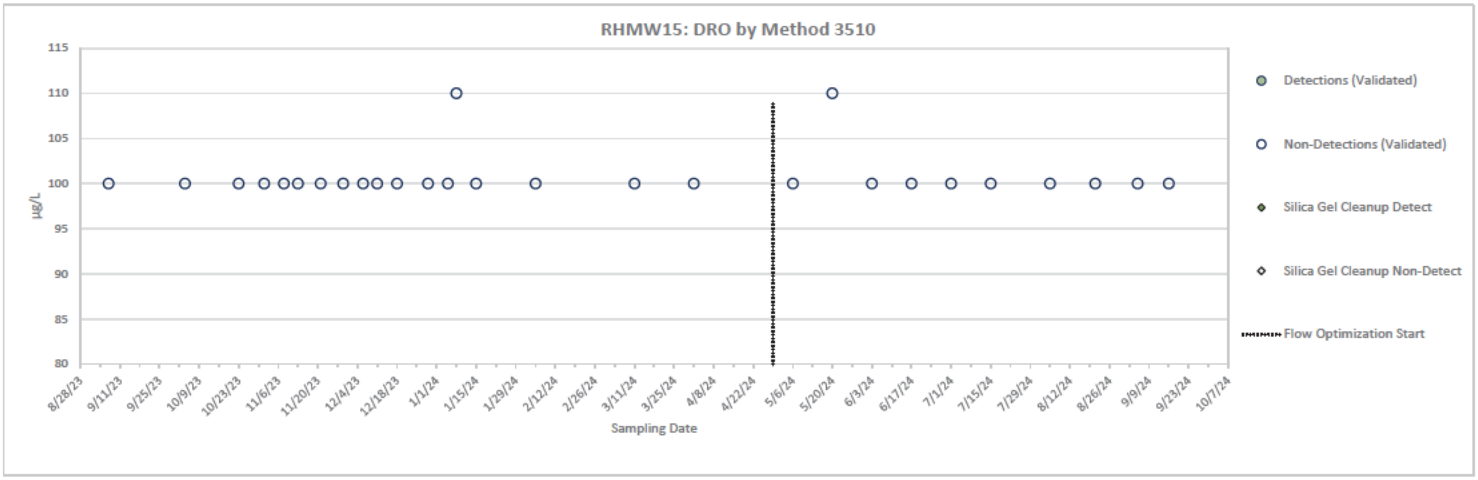


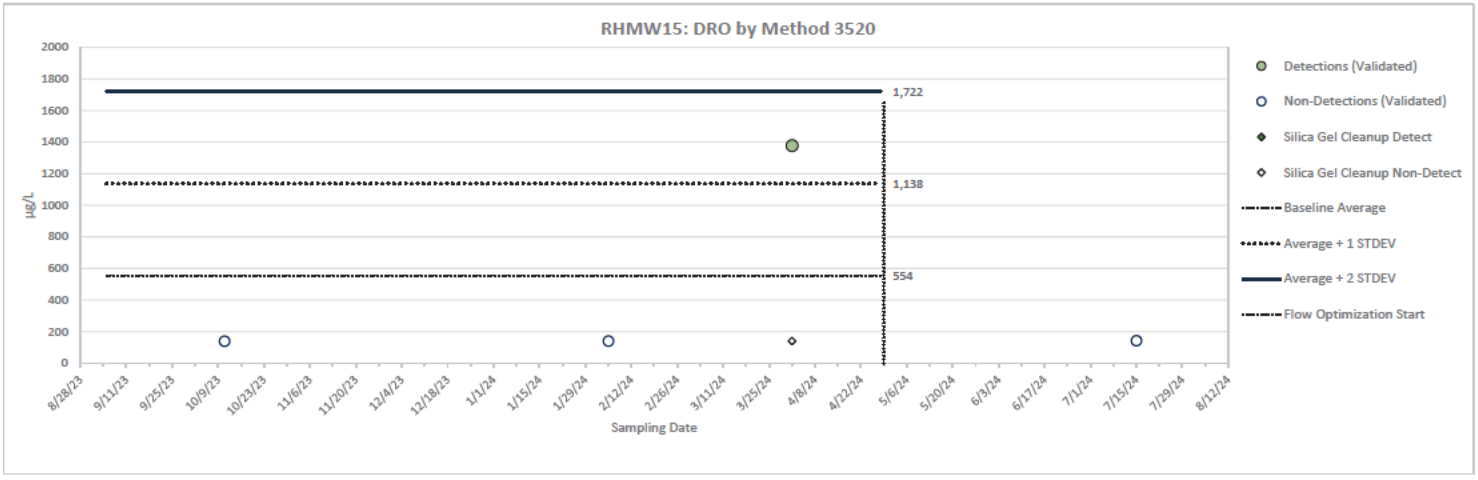


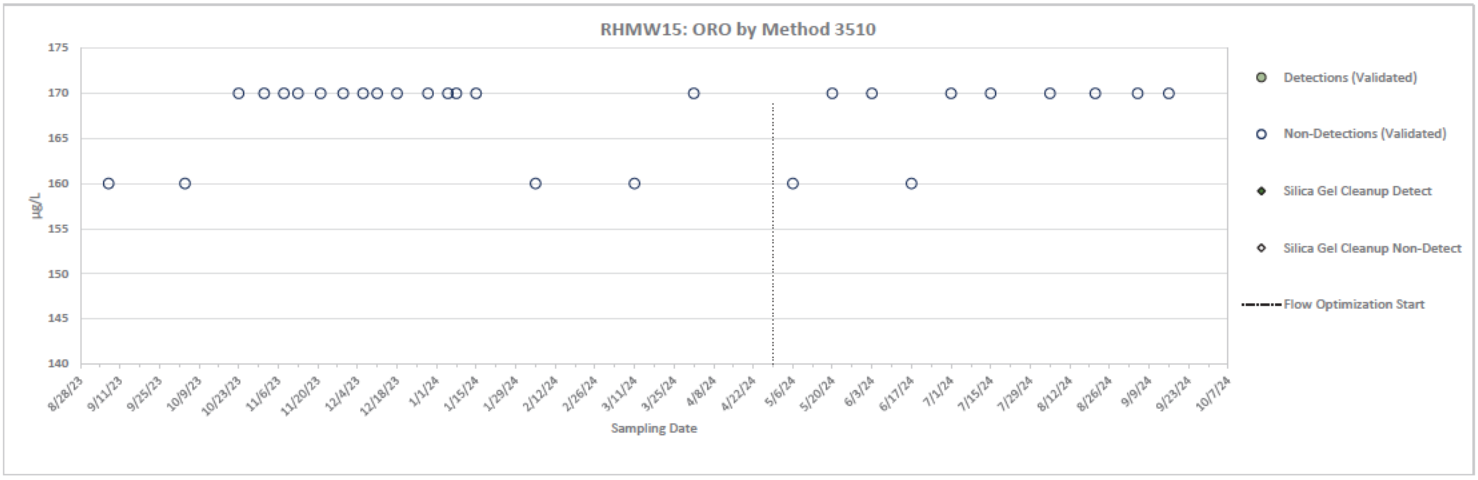


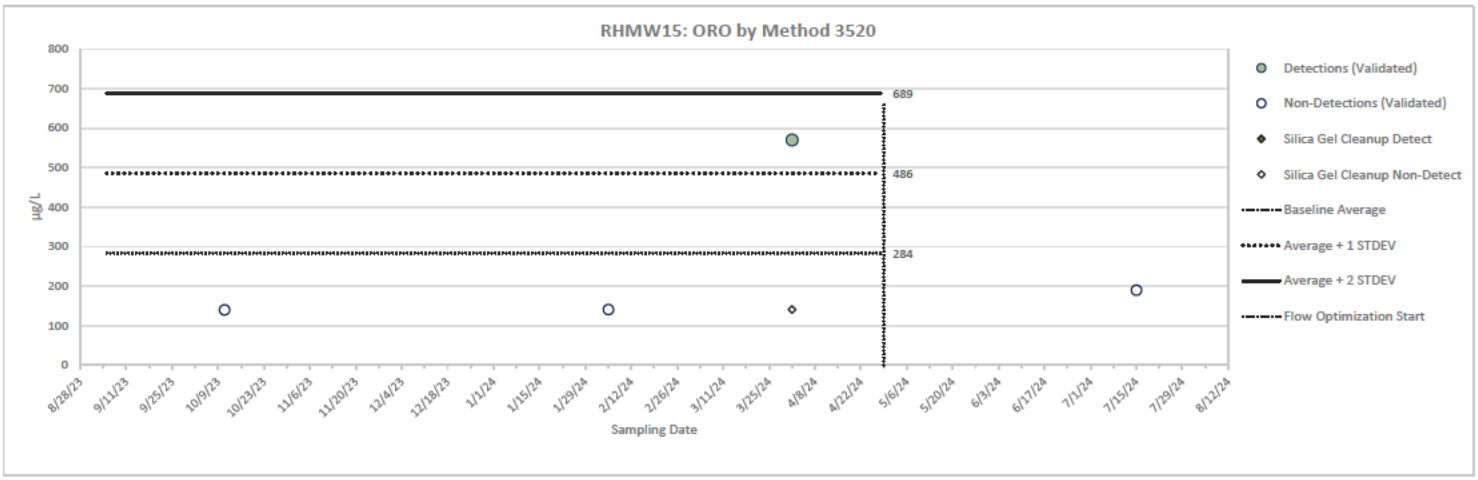
Note: See Data Legend

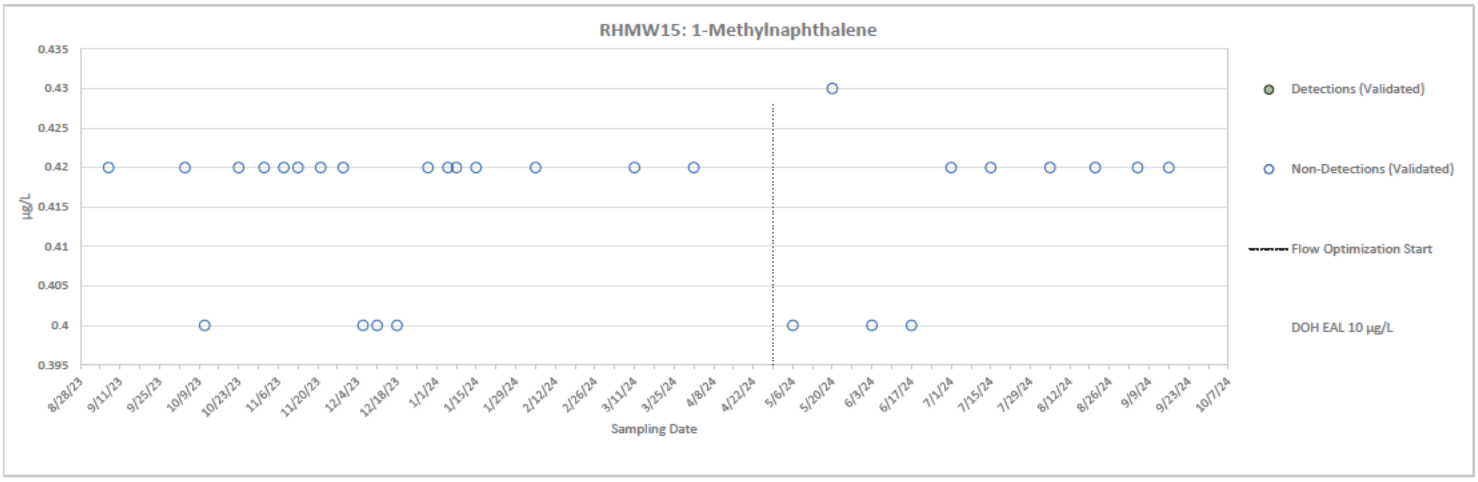

RHMW15: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

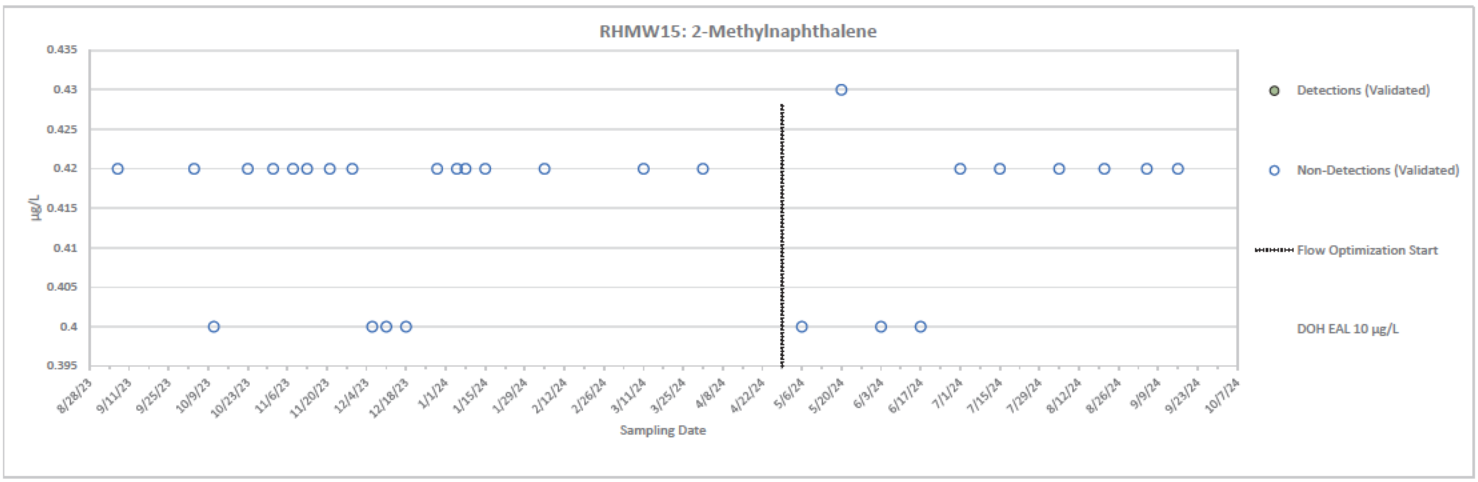

RHMW15: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

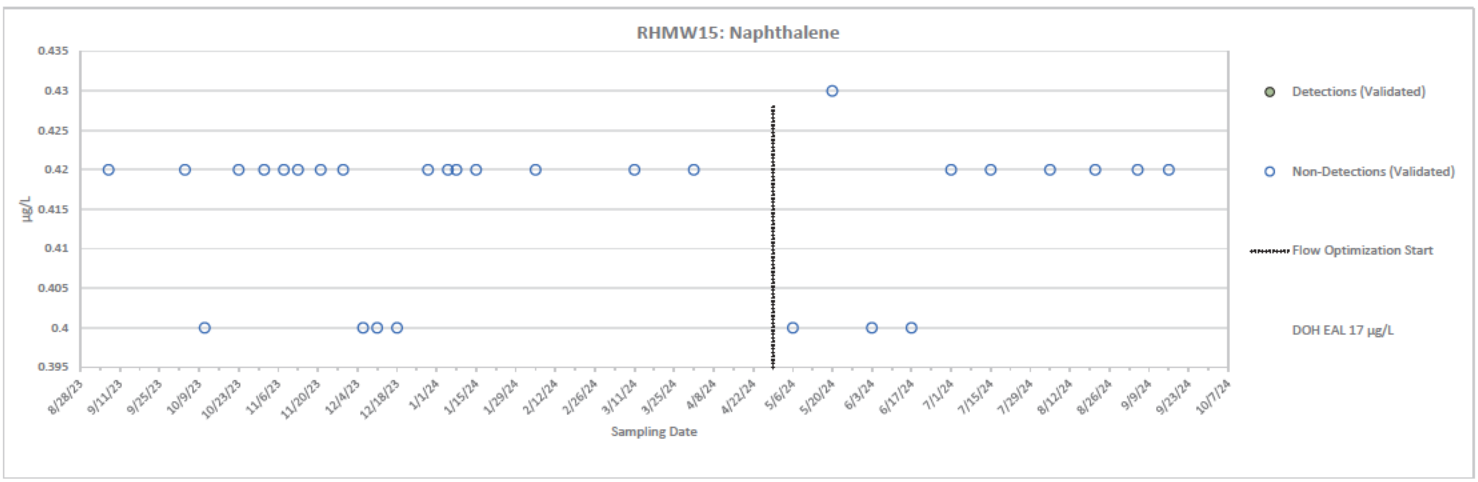

RHMW15: DRO by Method 3520
µg/L
Sampling Date
1,722
1,138
554
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

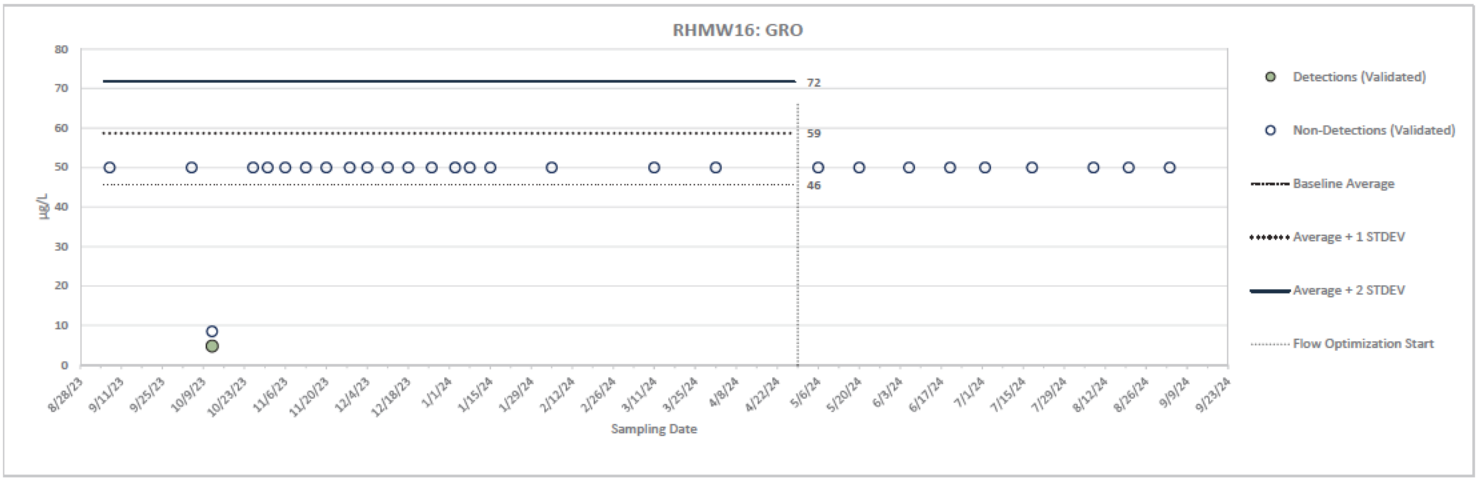

RHMW15: ORO by Method 3520
µg/L
800
700
600
500
400
300
200
100
0
689
486
284
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

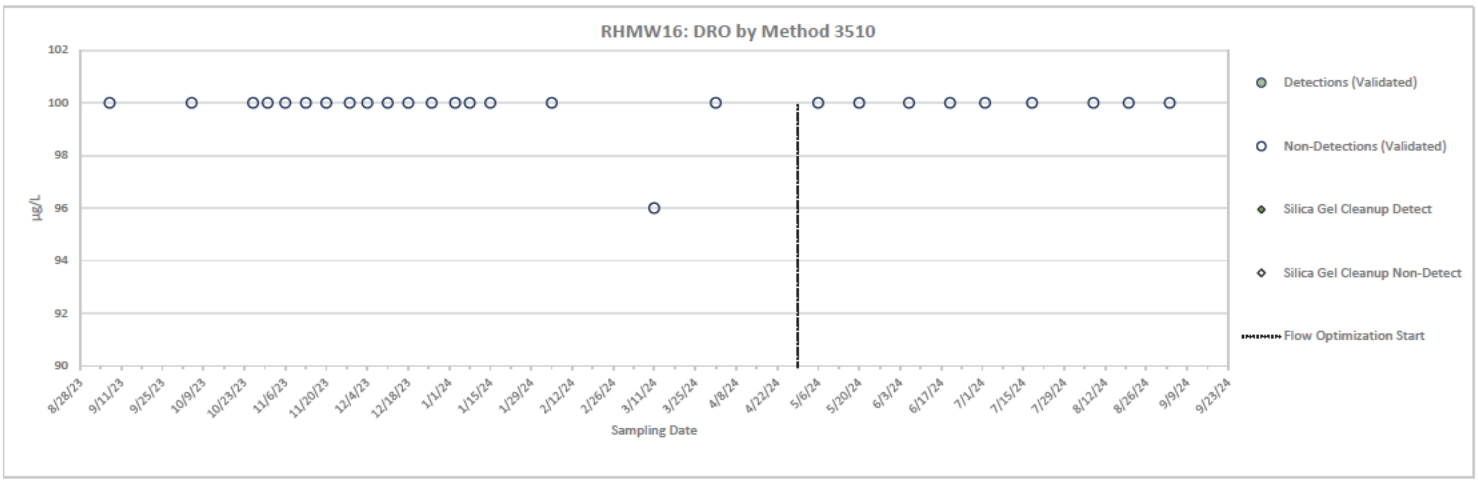


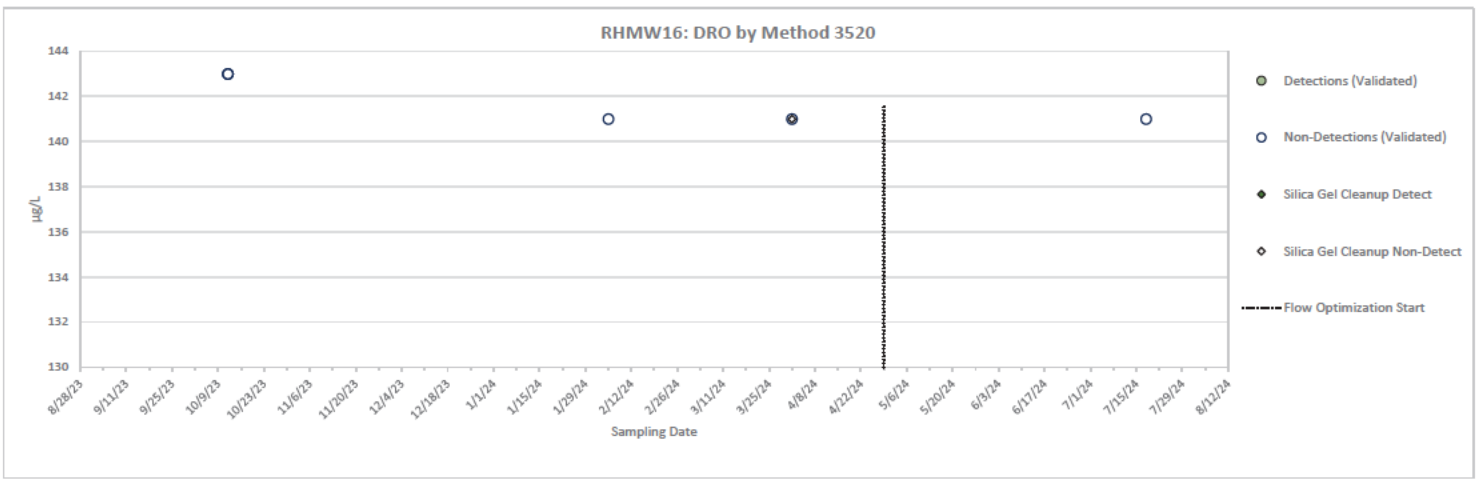


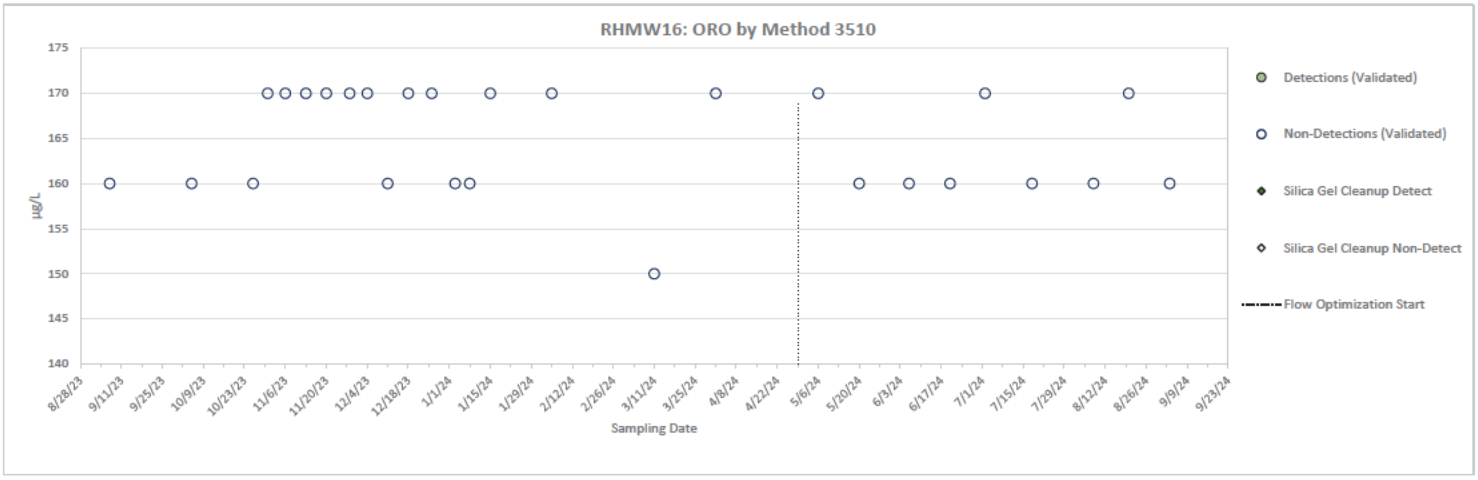


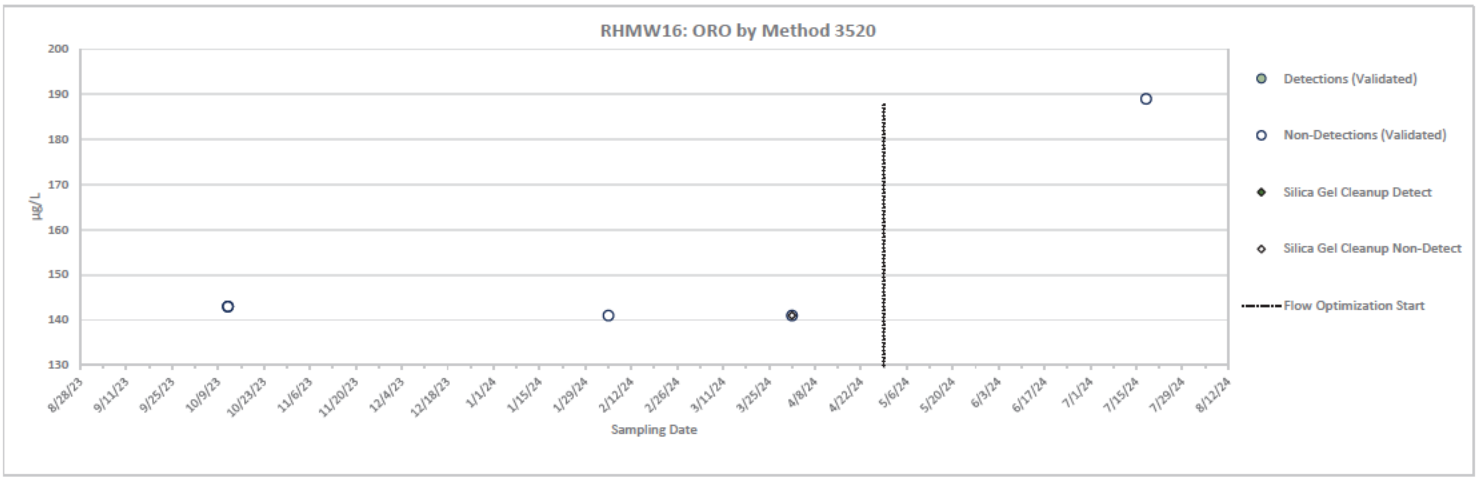
Note: See Data Legend

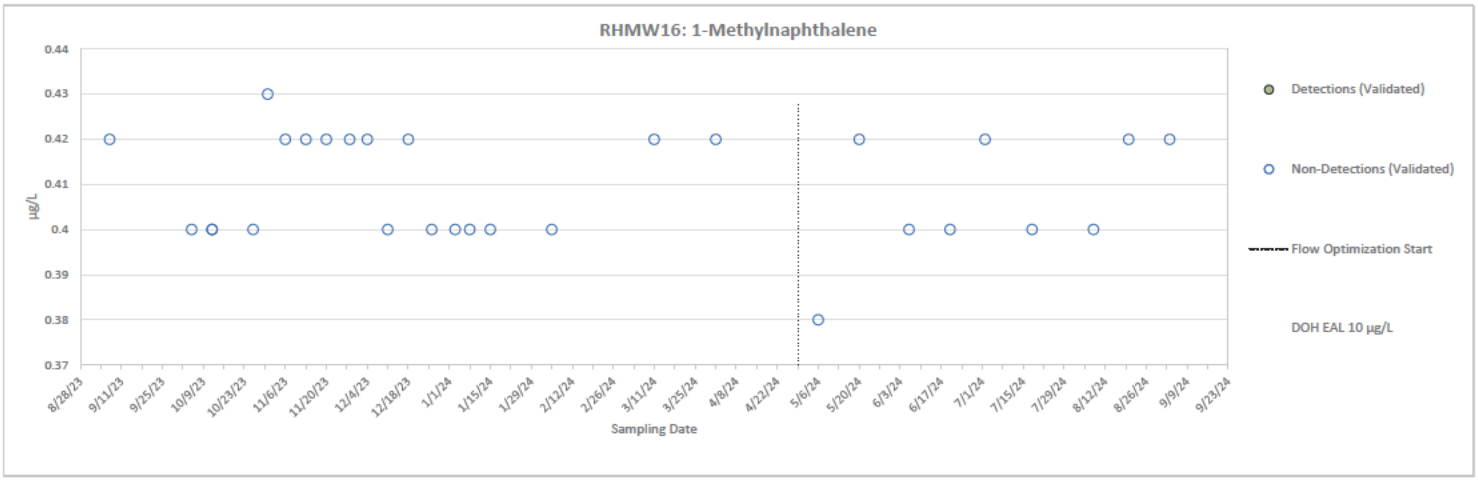

RHMW16: GRO
µg/L
Sampling Date
72
59
46
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

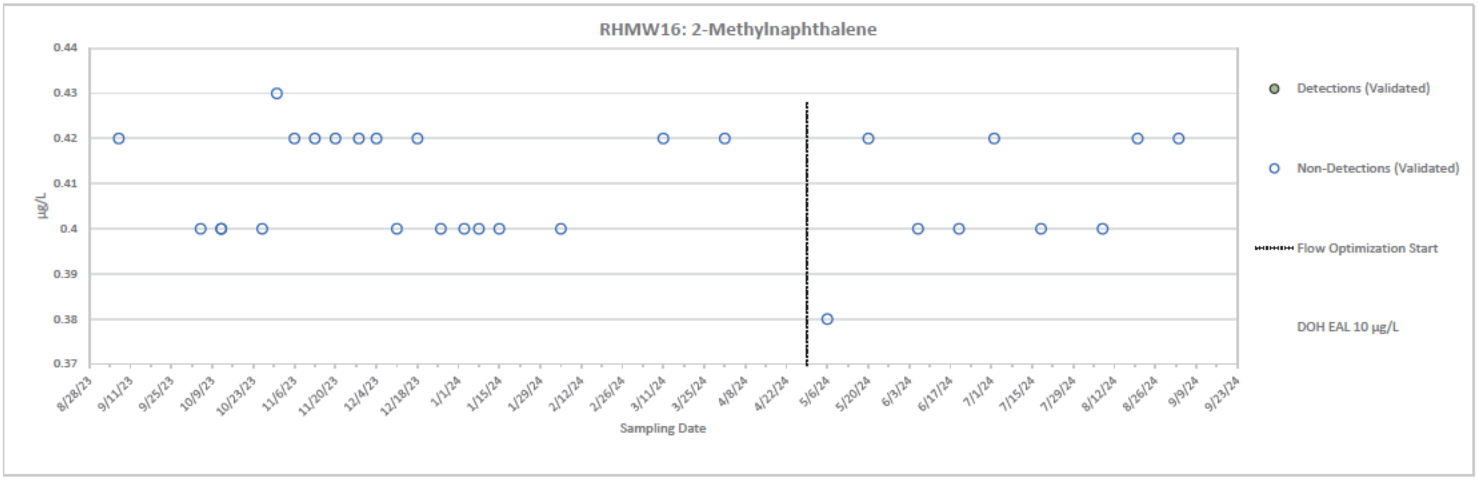

RHMW16: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

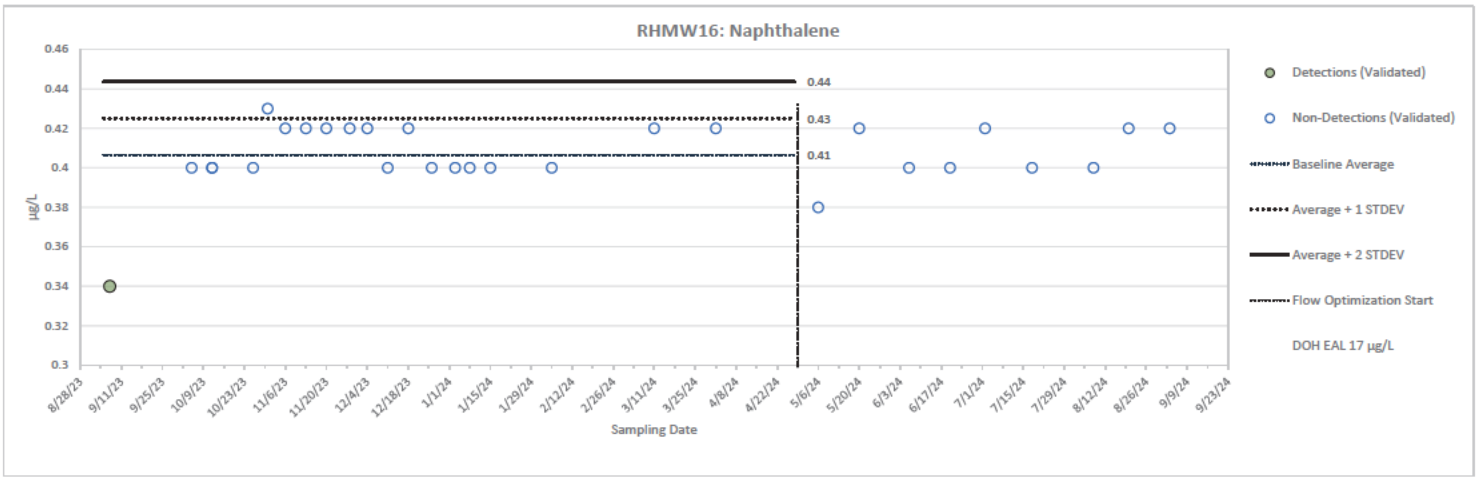

RHMW16: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

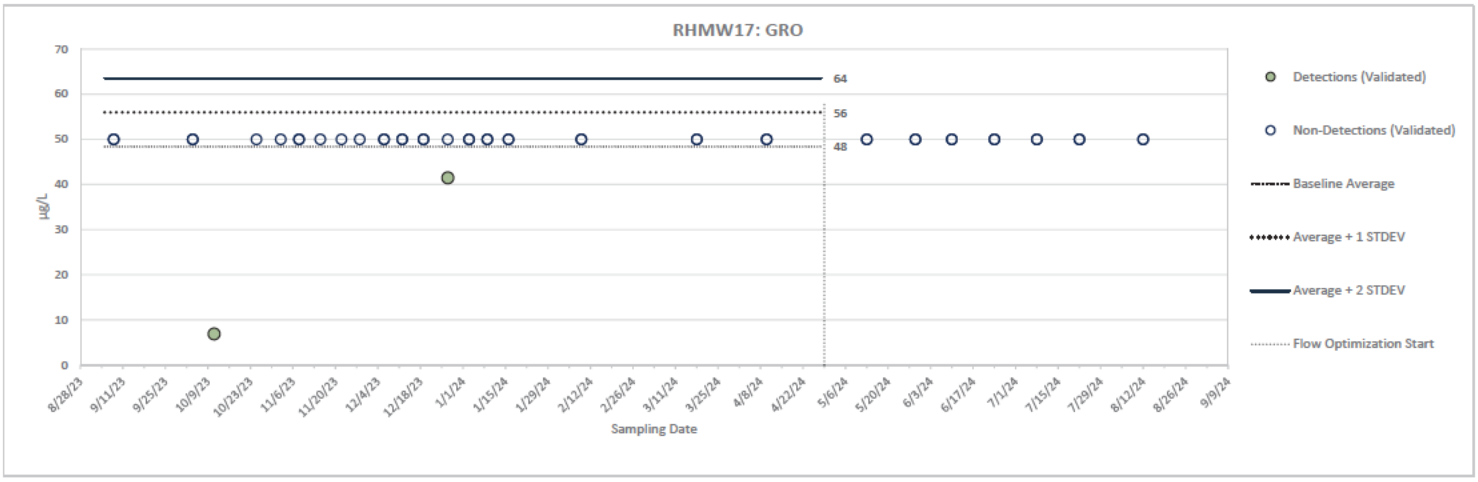

RHMW16: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

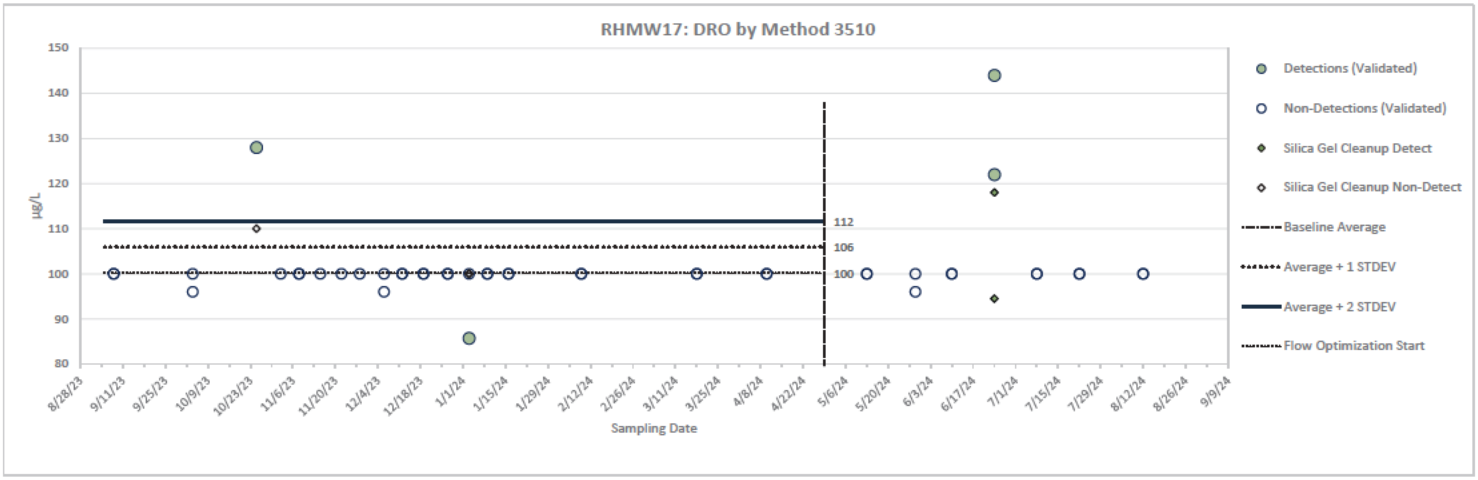


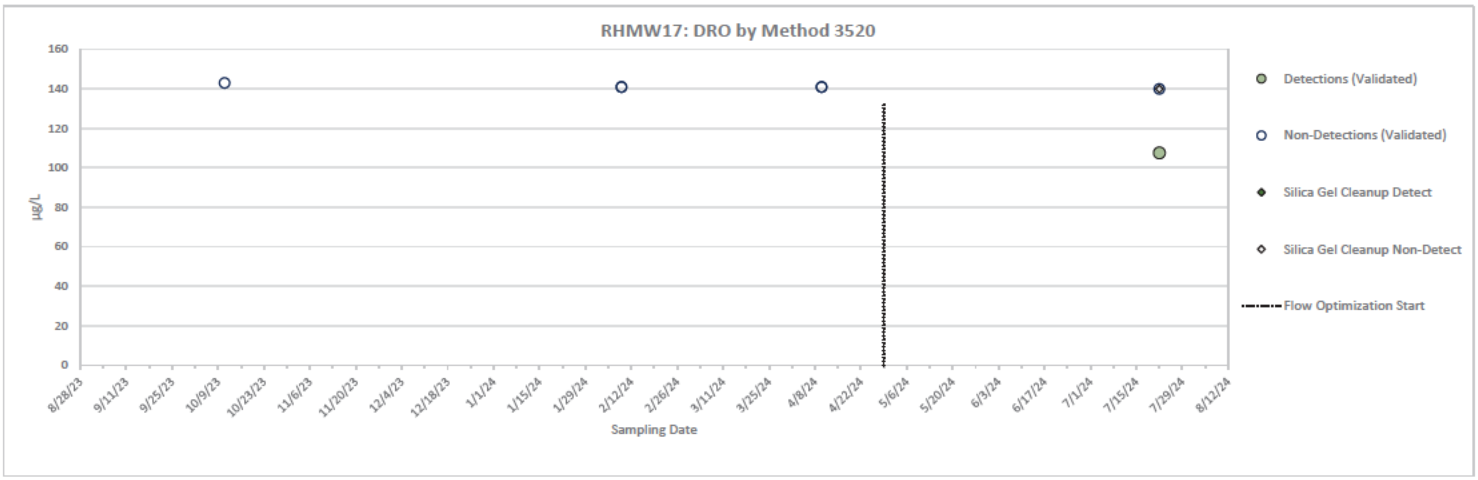


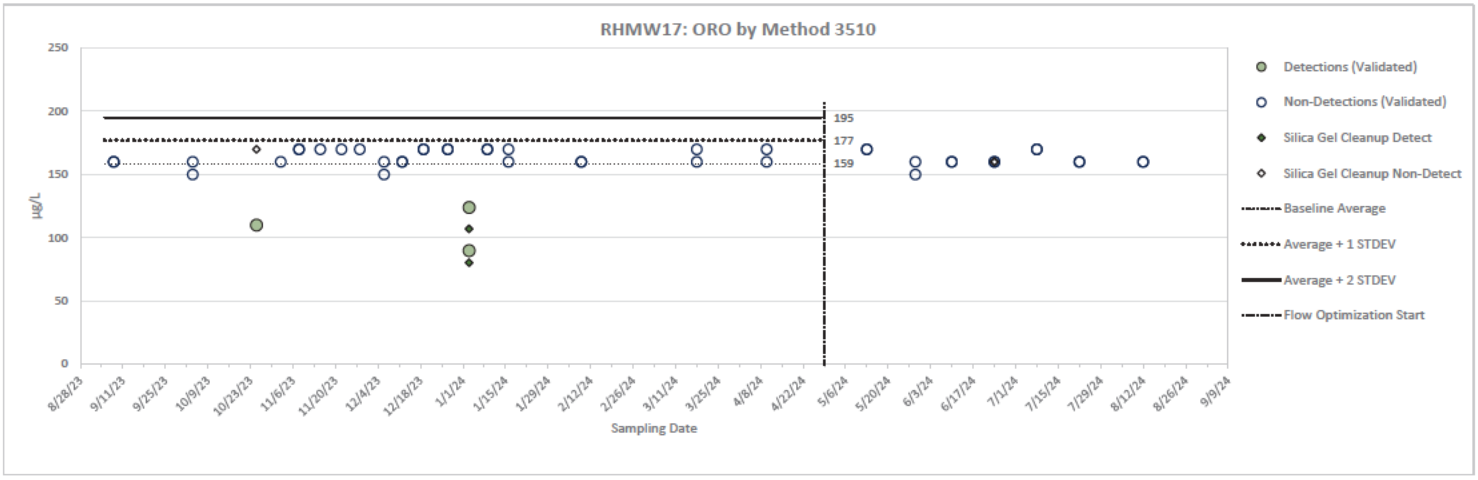


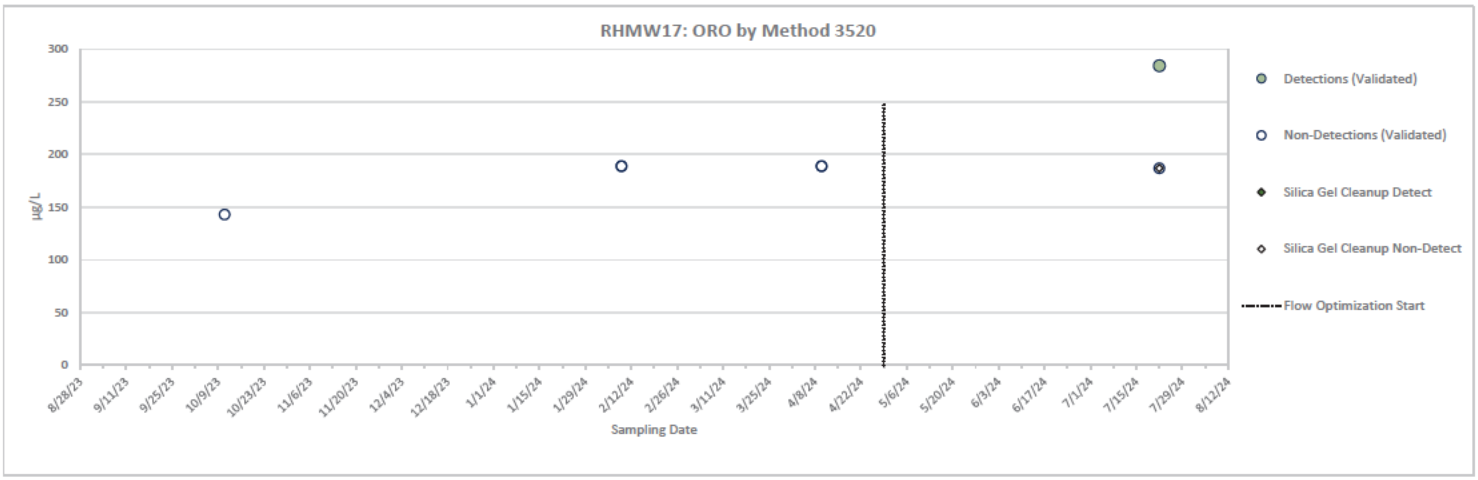
Note: See Data Legend

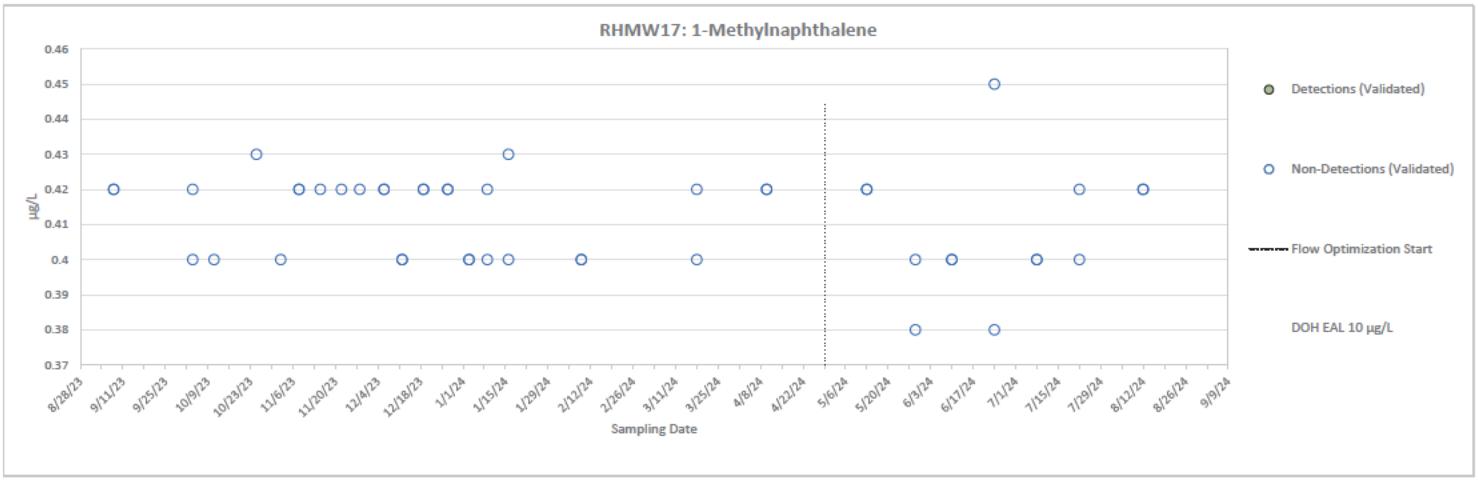

RHMW17: GRO
µg/L
Sampling Date
64
56
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

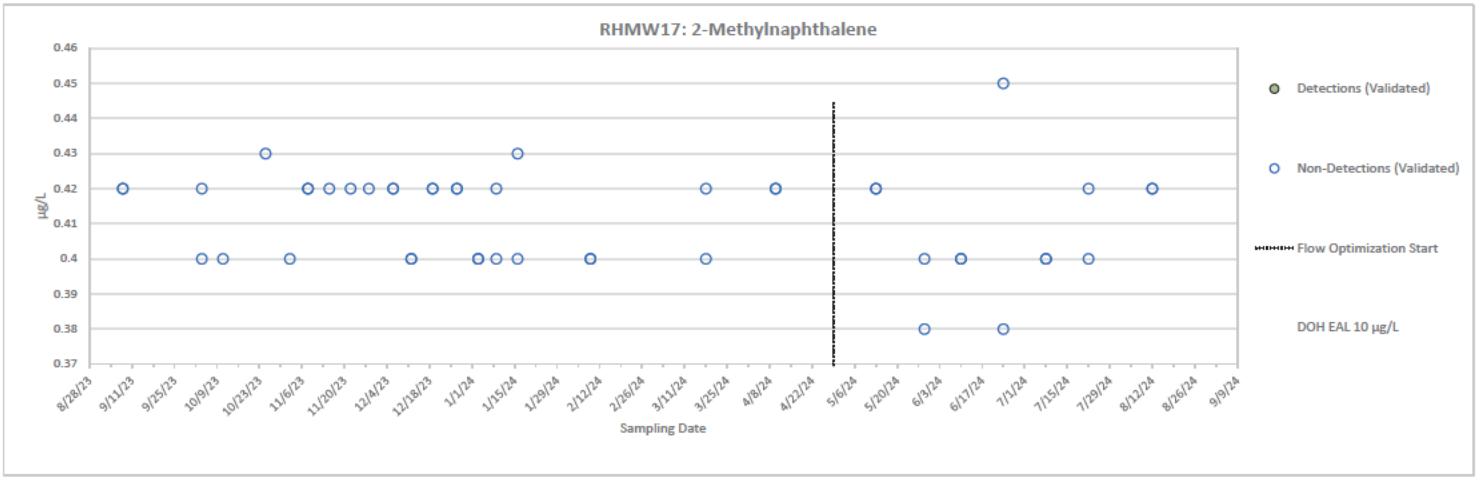

RHMW17: DRO by Method 3510
µg/L
Sampling Date
112
106
100
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

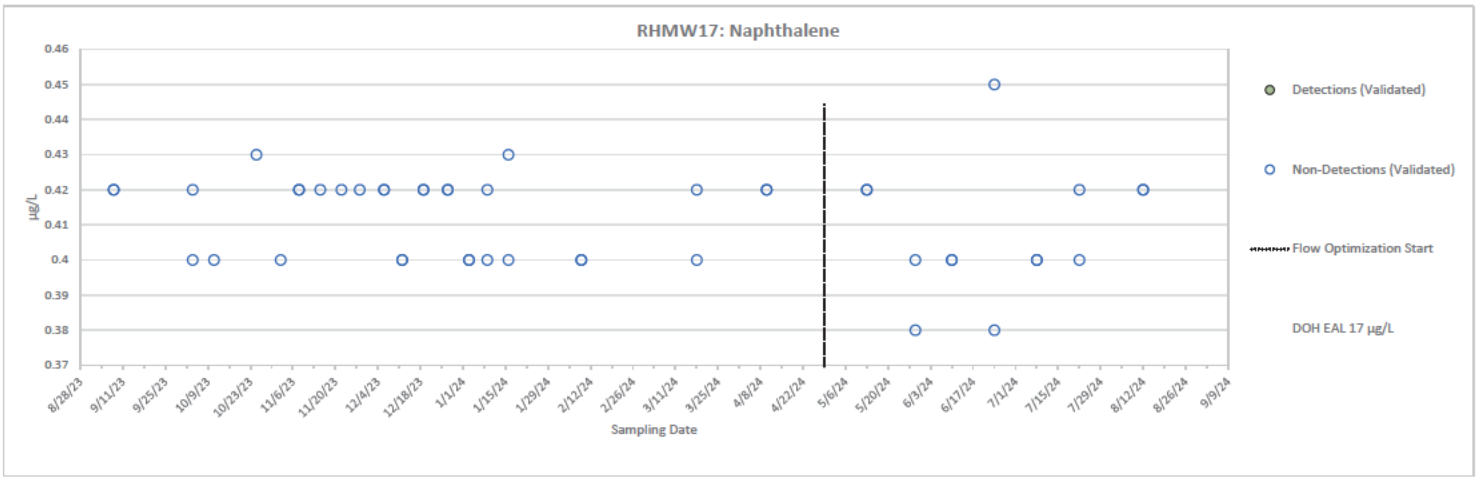

RHMW17: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW17: ORO by Method 3510
250
200
150
100
50
0
ug/L
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
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

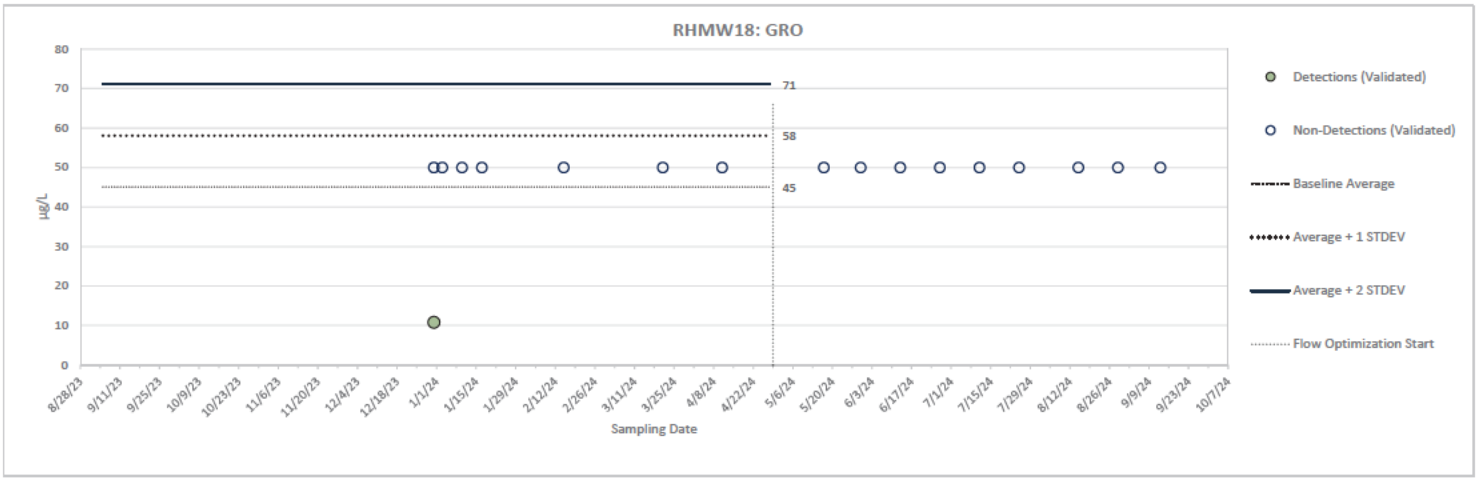

RHMW17: ORO by Method 3520
300
250
200
150
100
50
0
ug/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

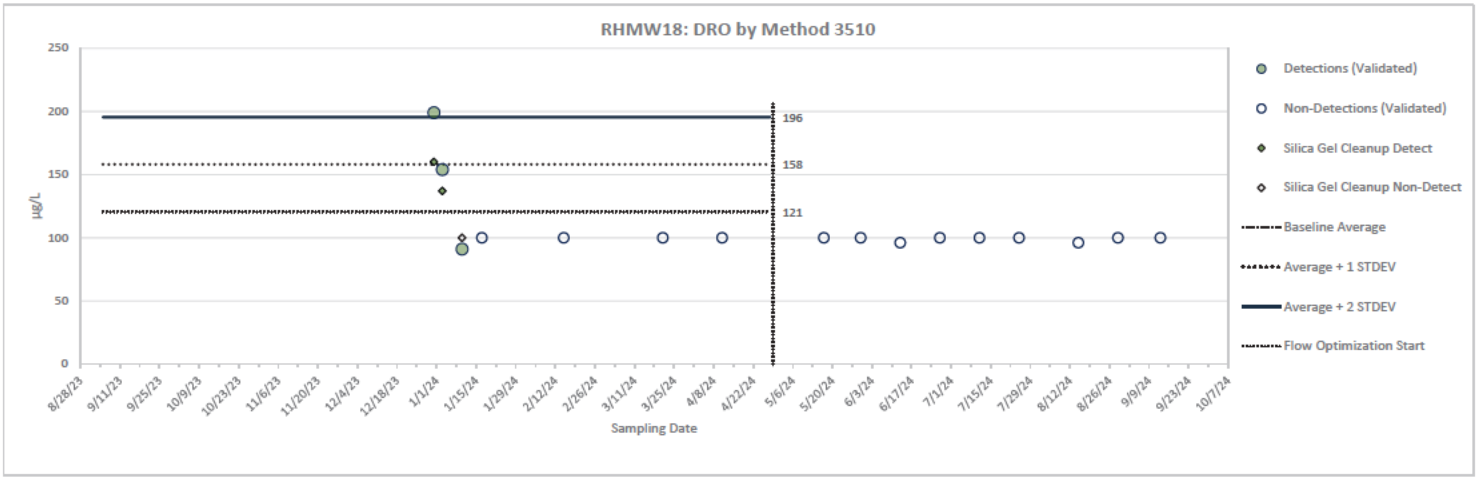


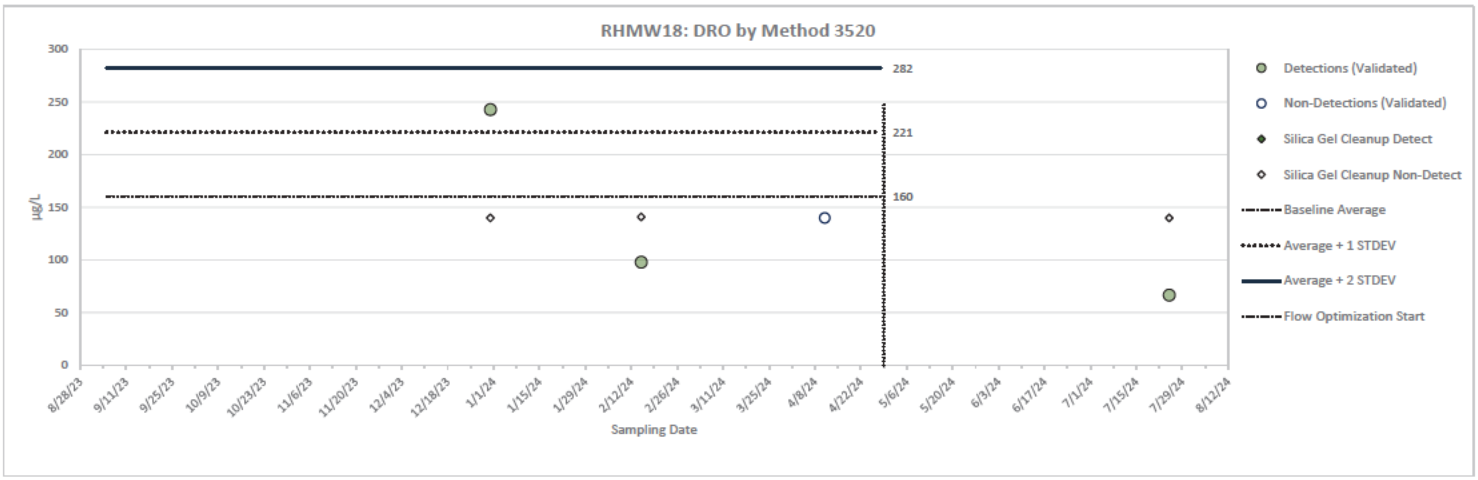


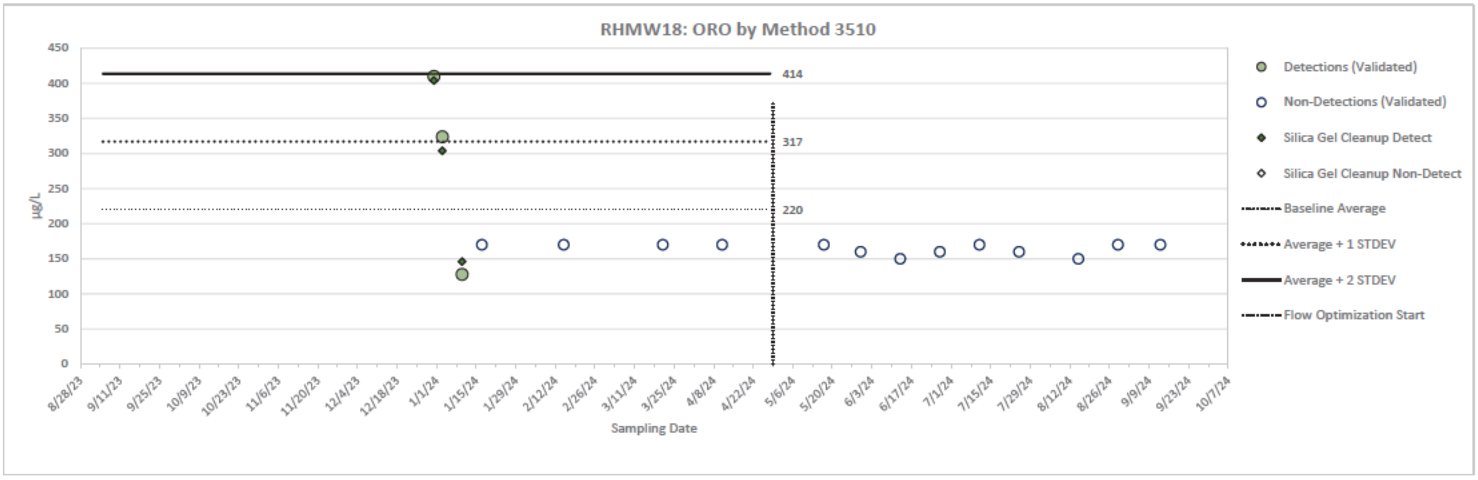


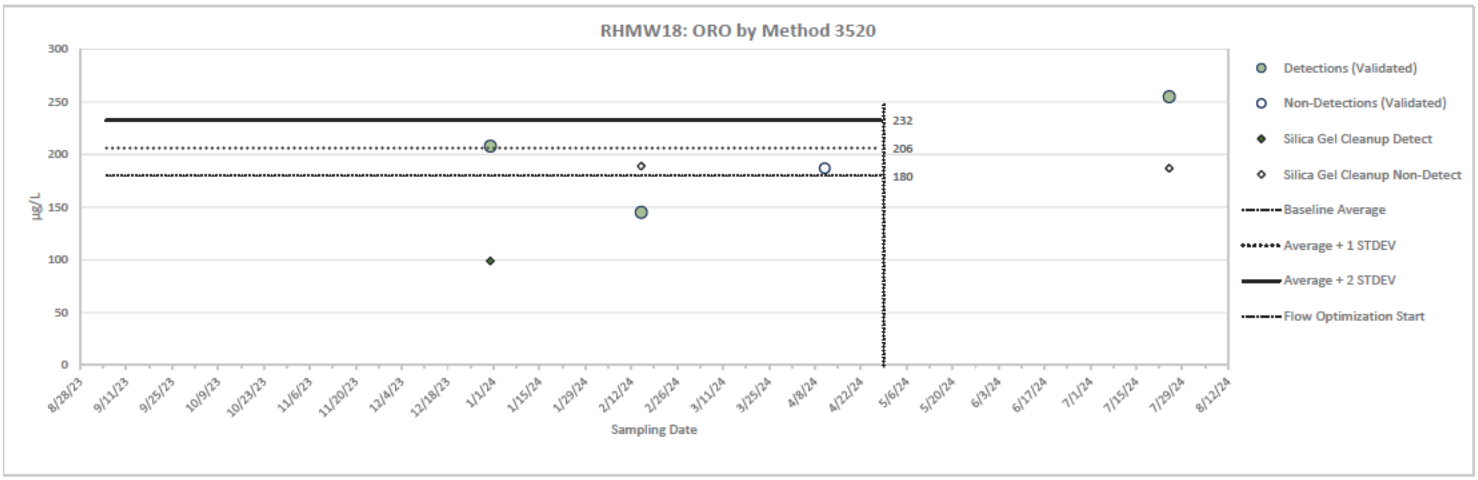
Note: See Data Legend

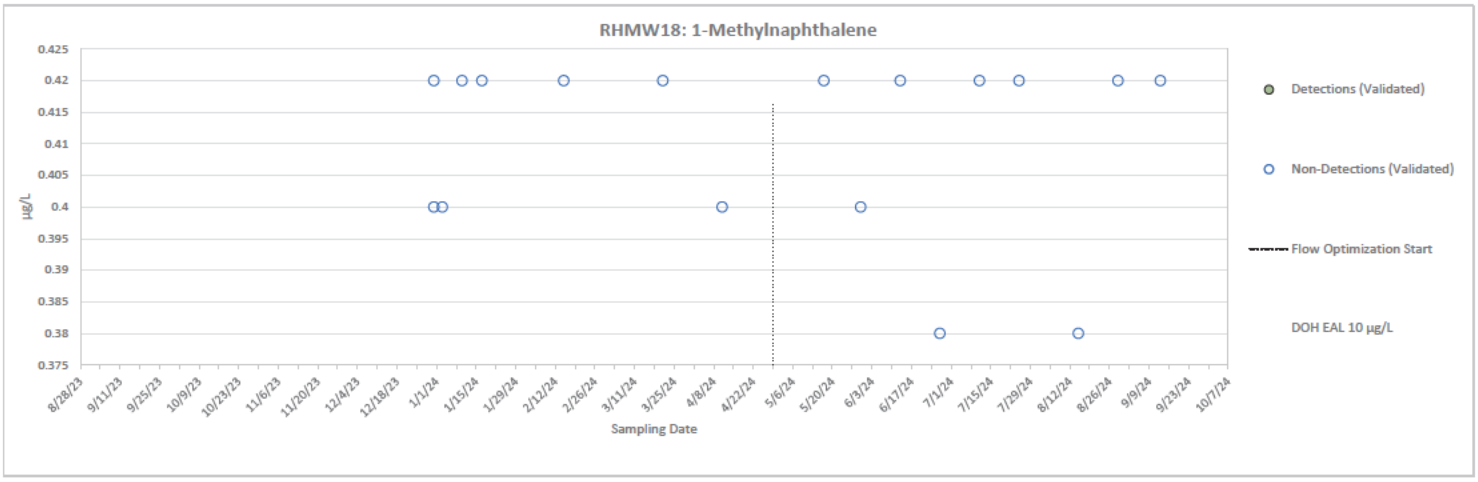

RHMW18: GRO
µg/L
Sampling Date
71
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

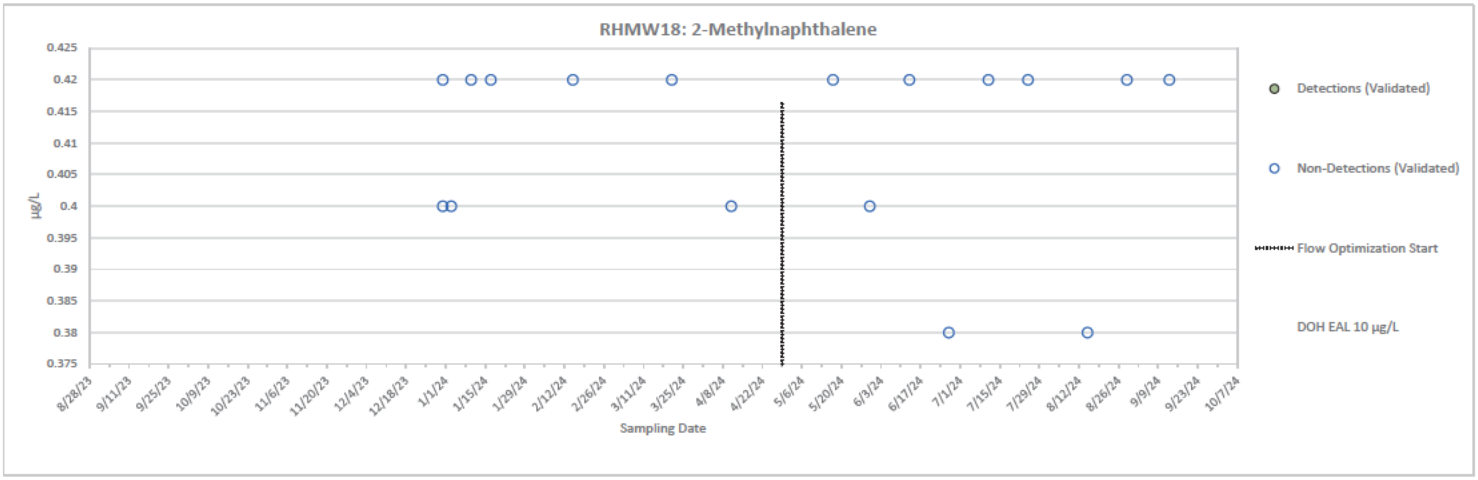

RHMW18: DRO by Method 3510
µg/L
Sampling Date
196
158
121
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

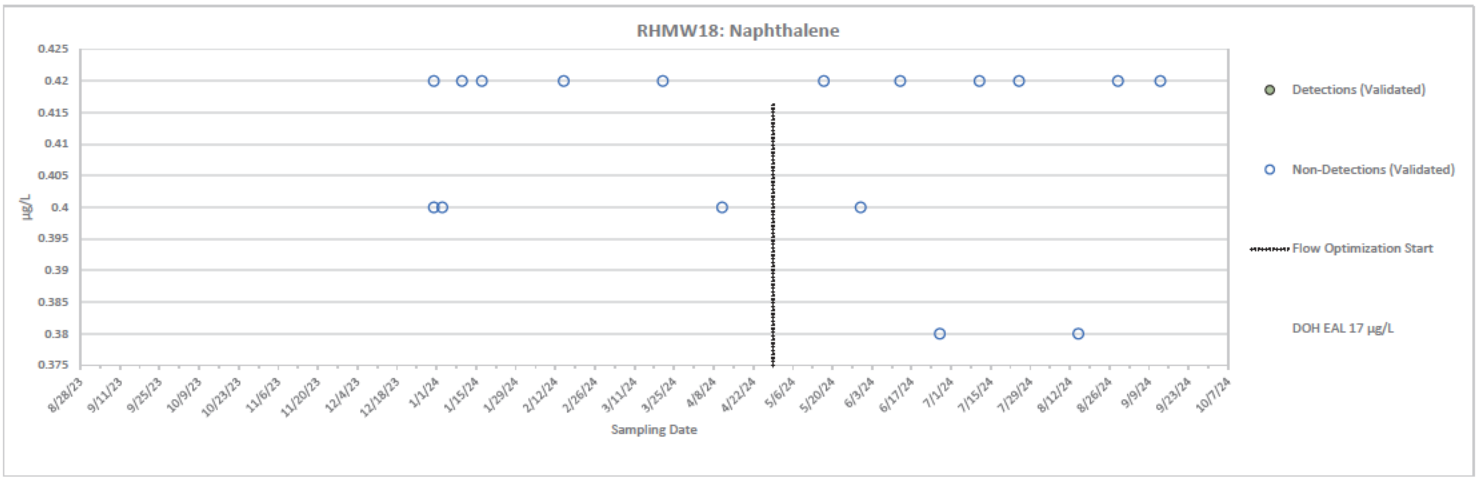

RHMW18: DRO by Method 3520
µg/L
Sampling Date
282
221
160
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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

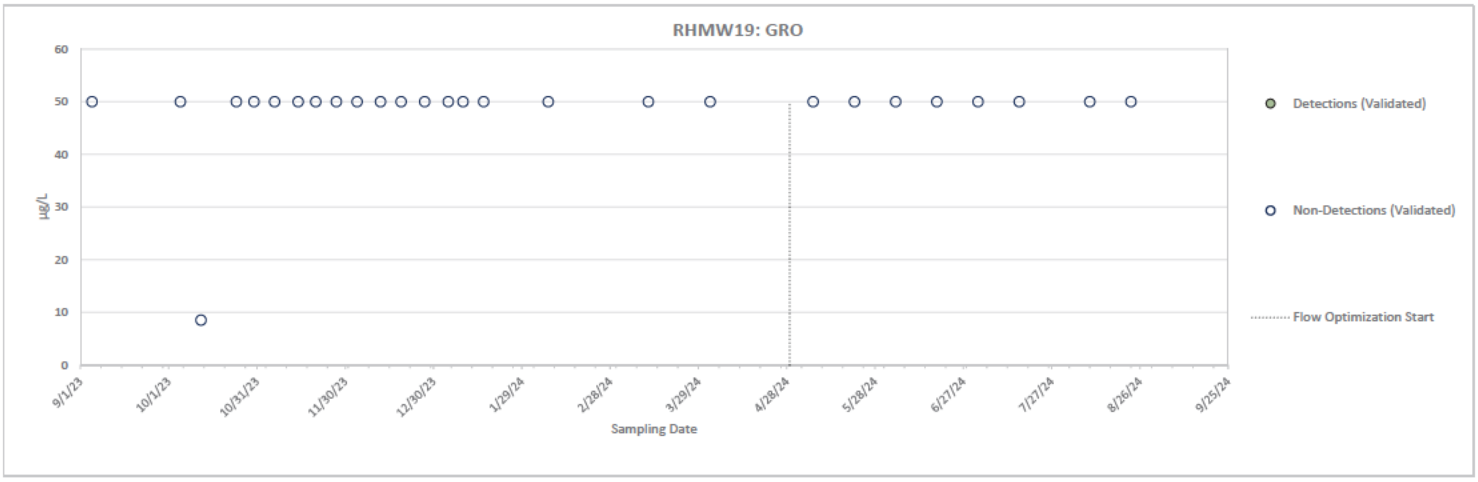

RHMW18: ORO by Method 3520
µg/L
Sampling Date
232
206
180
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

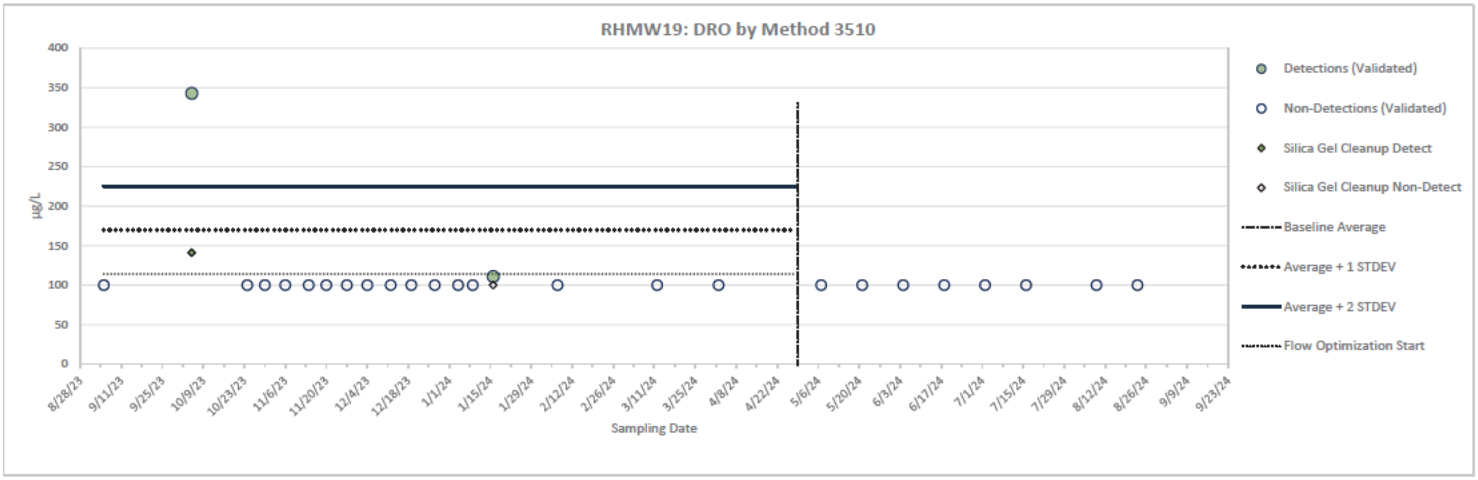


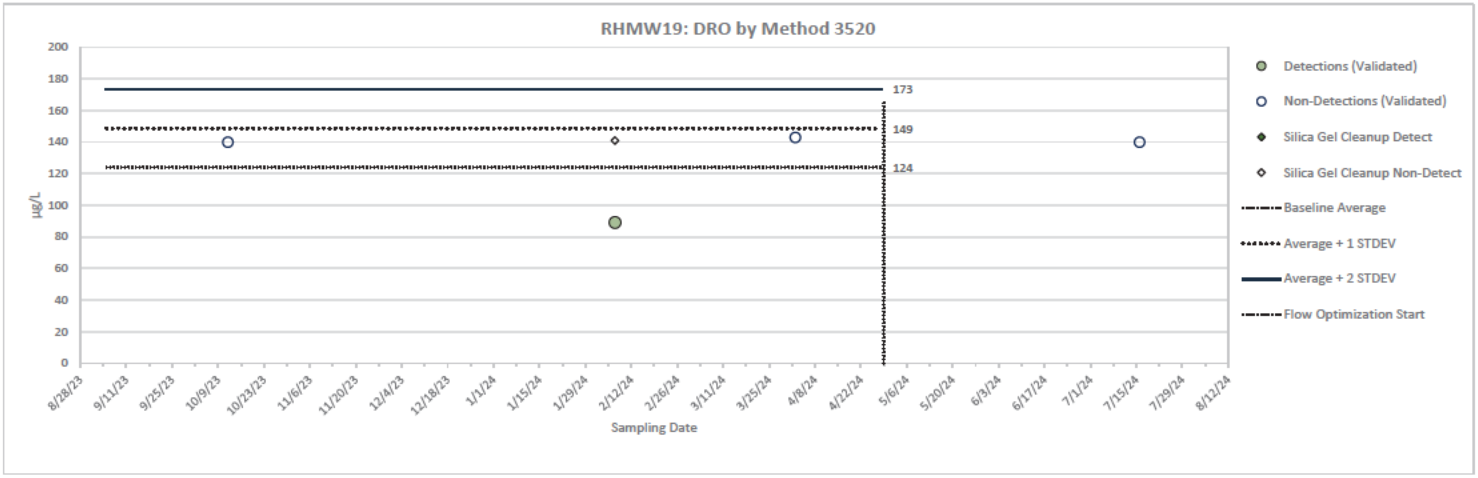


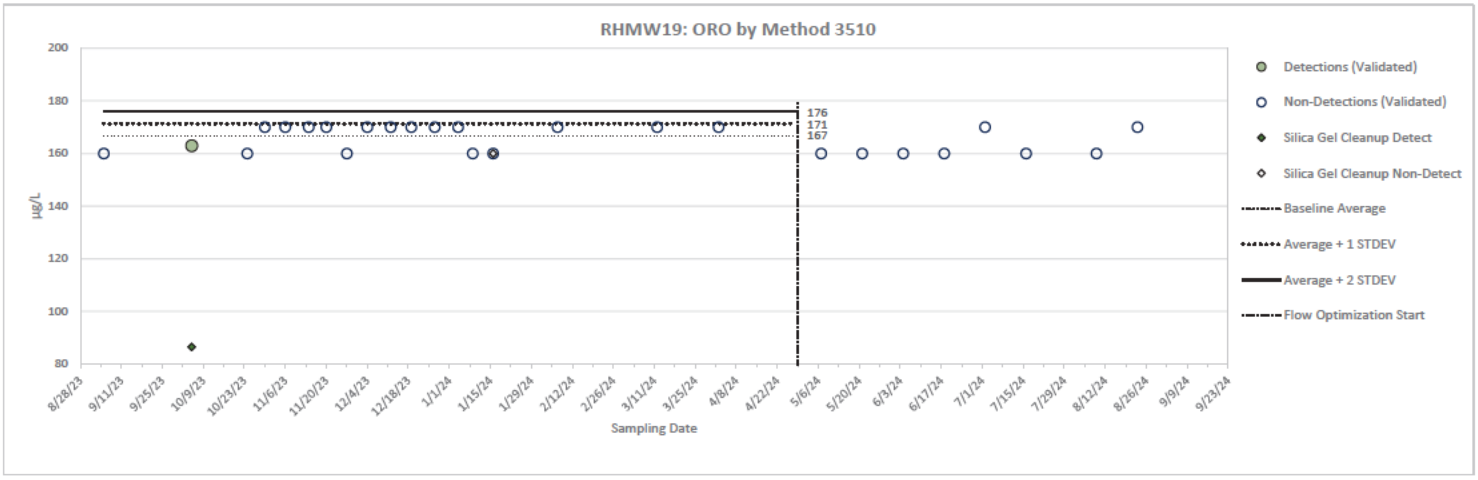


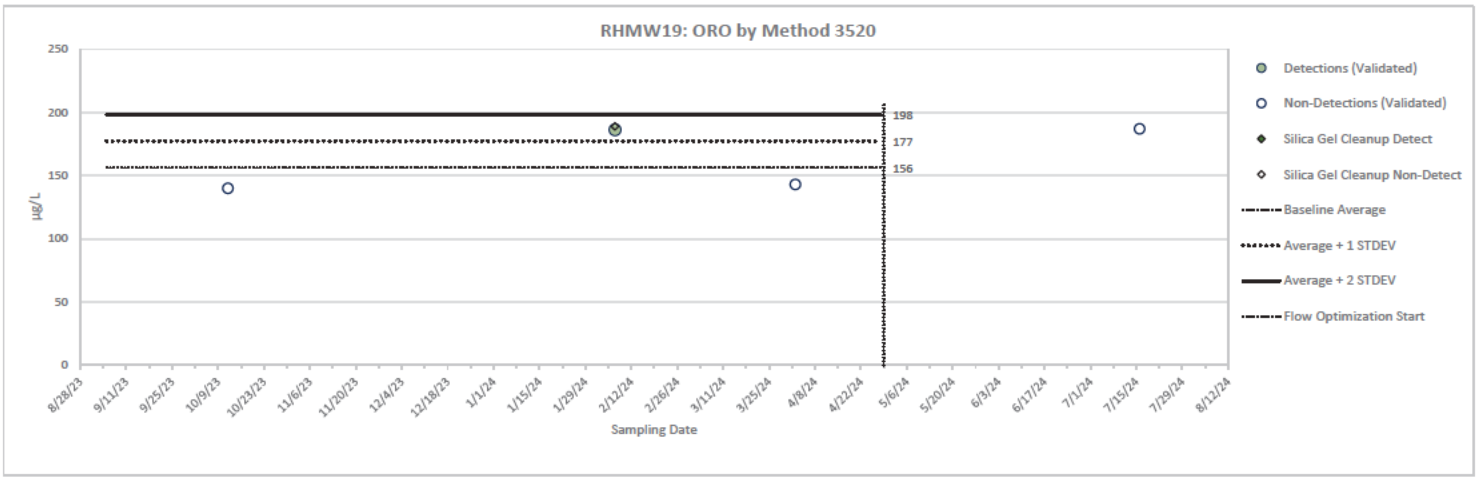
Note: See Data Legend

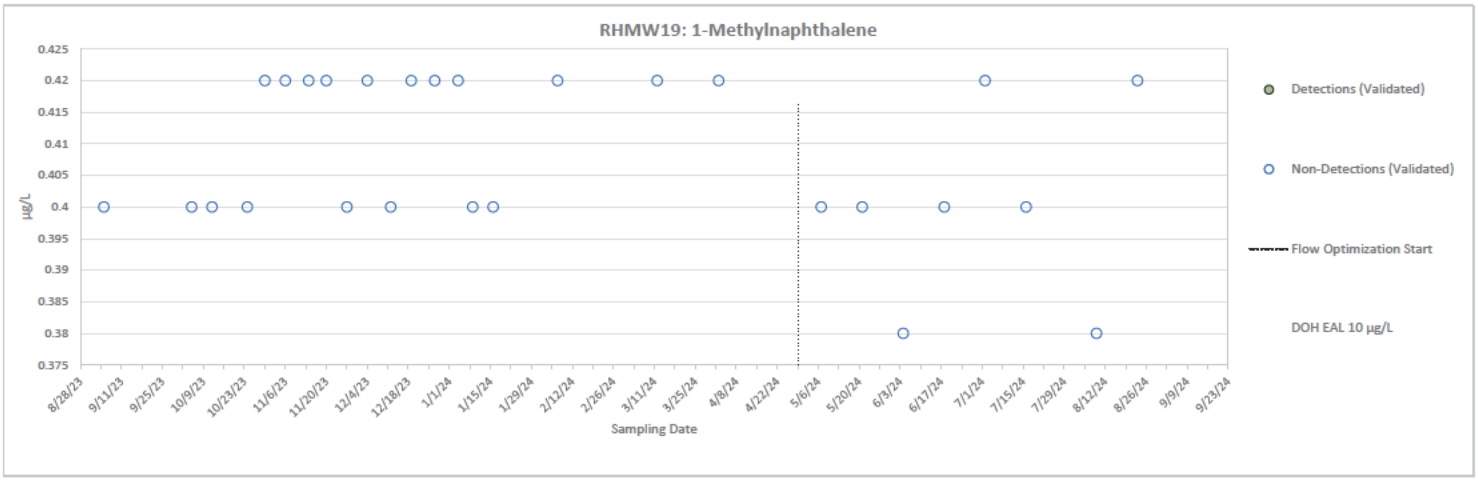

RHMW19: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

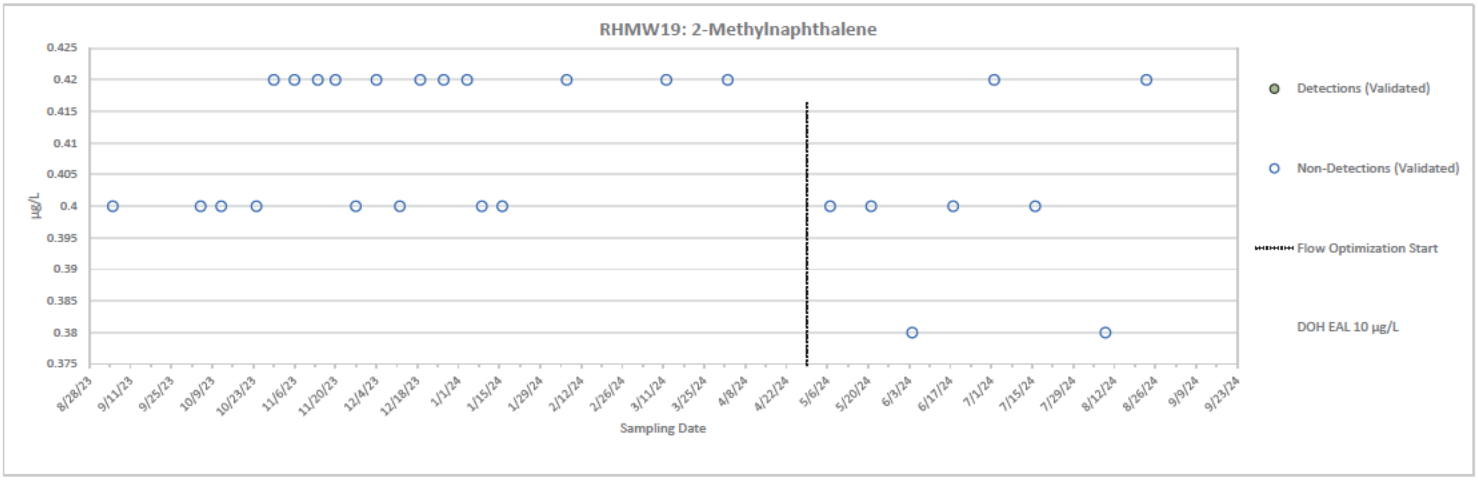

RHMW19: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

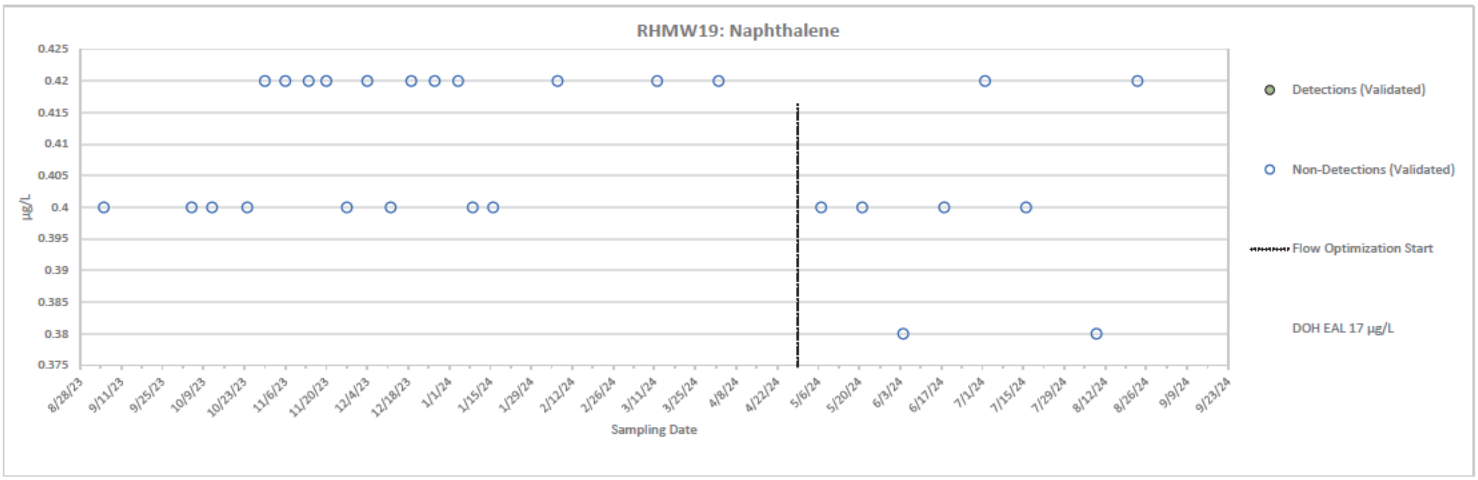

RHMW19: DRO by Method 3520
µg/L
Sampling Date
173
149
124
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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

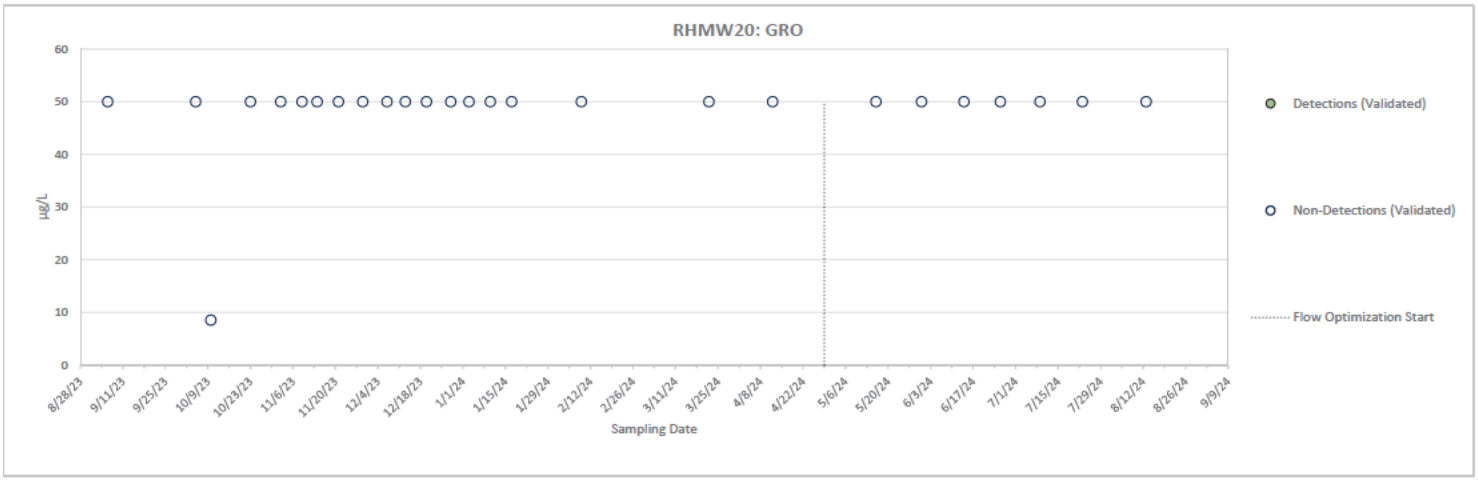

RHMW19: ORO by Method 3520
µg/L
Sampling Date
198
177
156
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

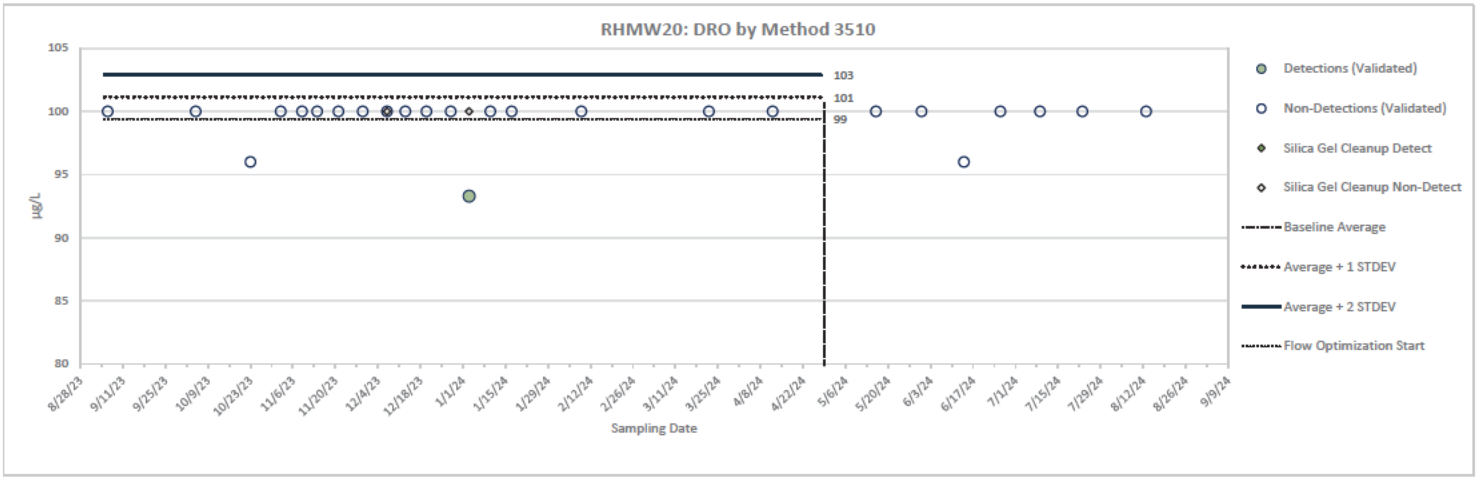


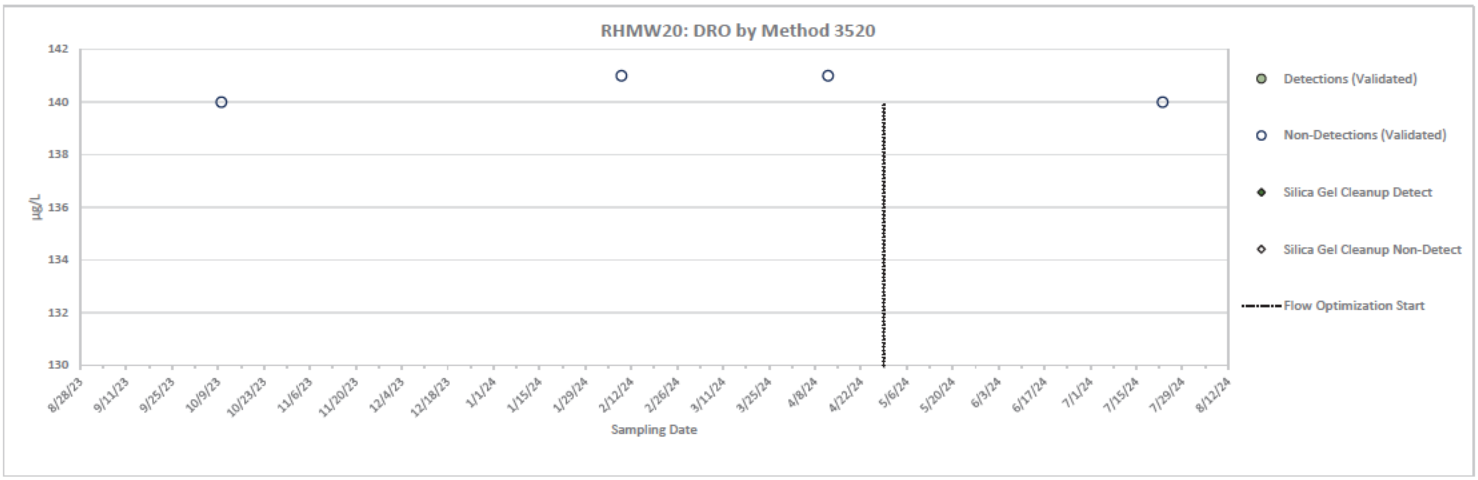


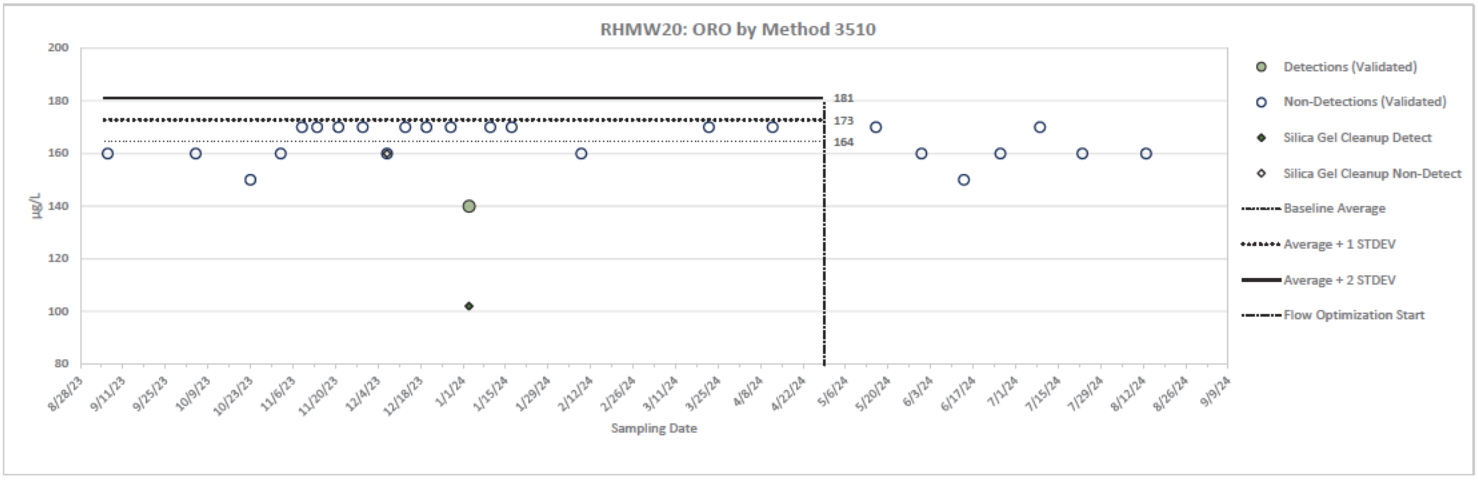


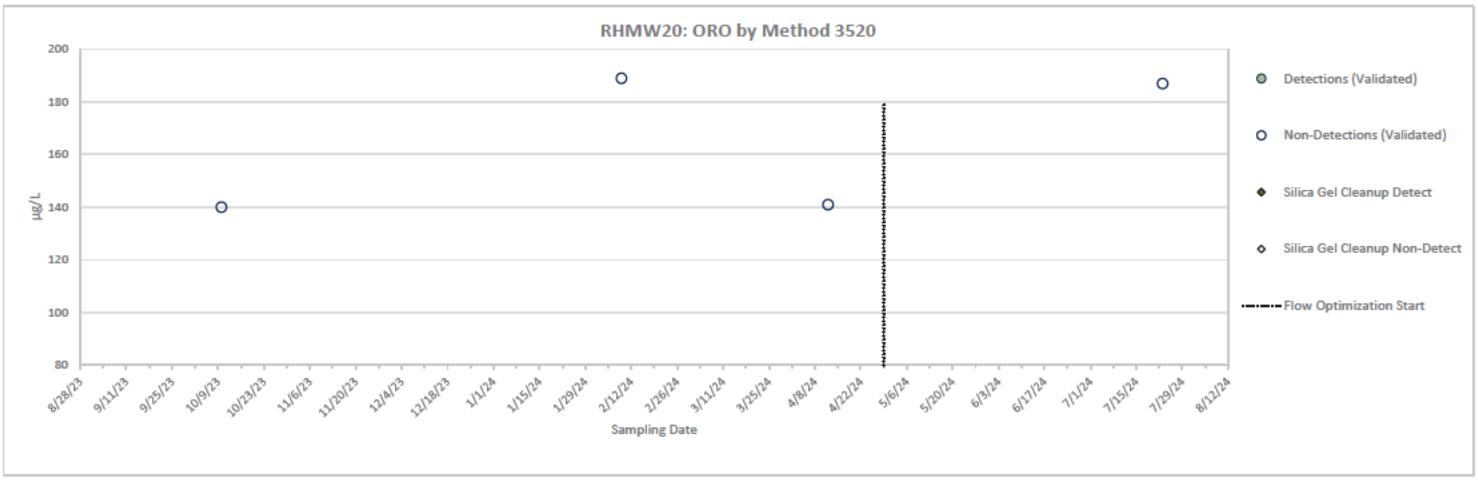
Note: See Data Legend

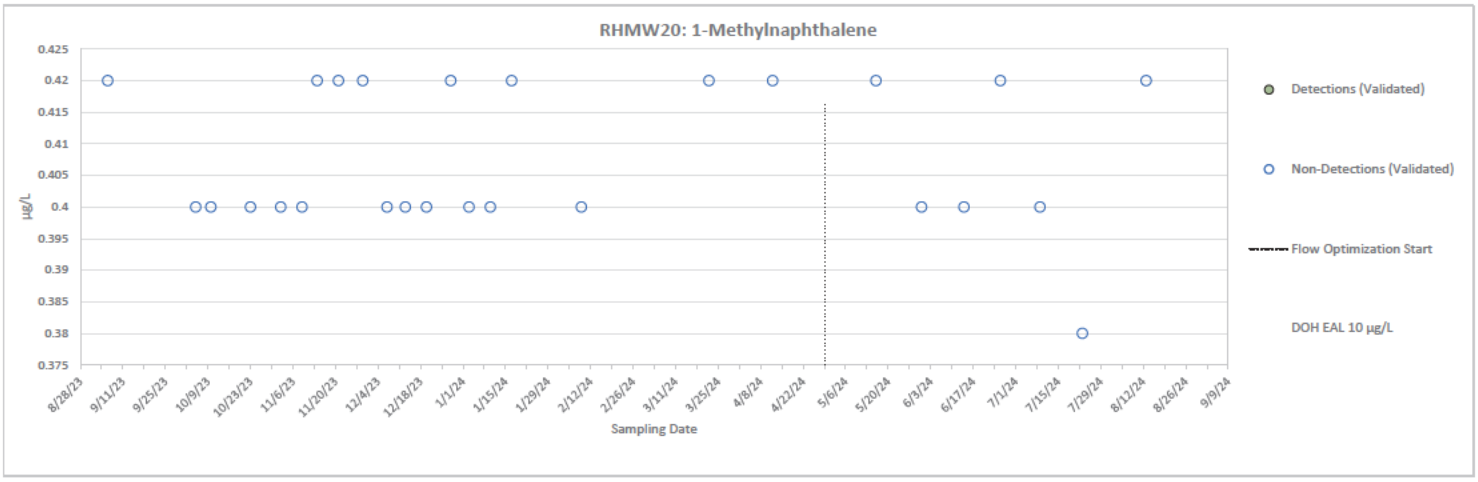

RHMW20: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

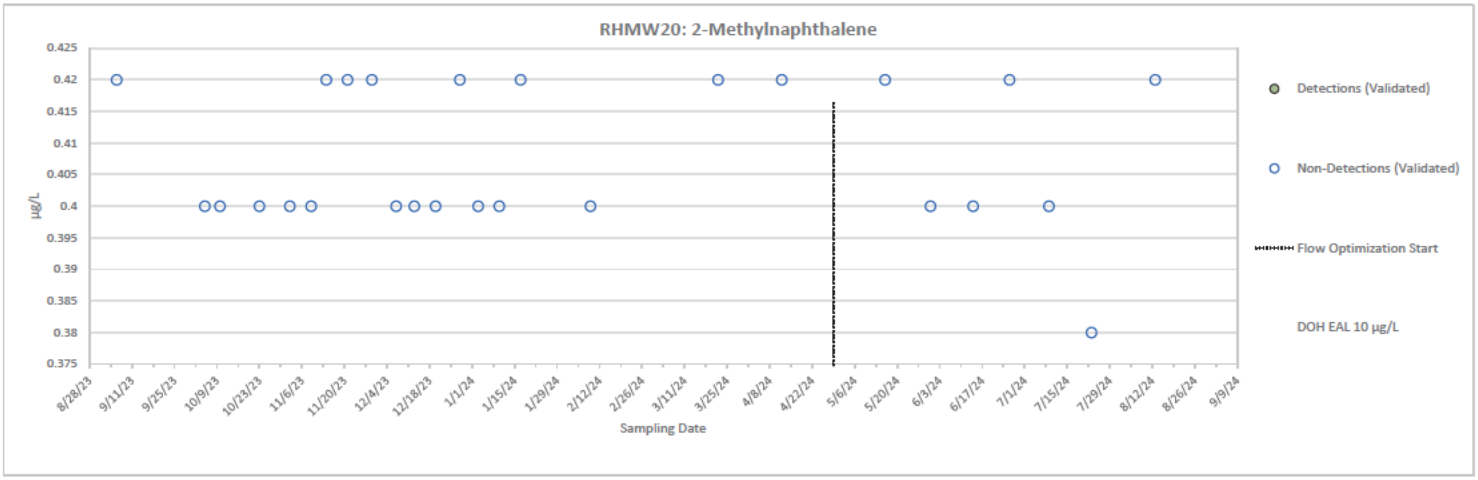

RHMW20: DRO by Method 3510
µg/L
Sampling Date
103
101
99
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

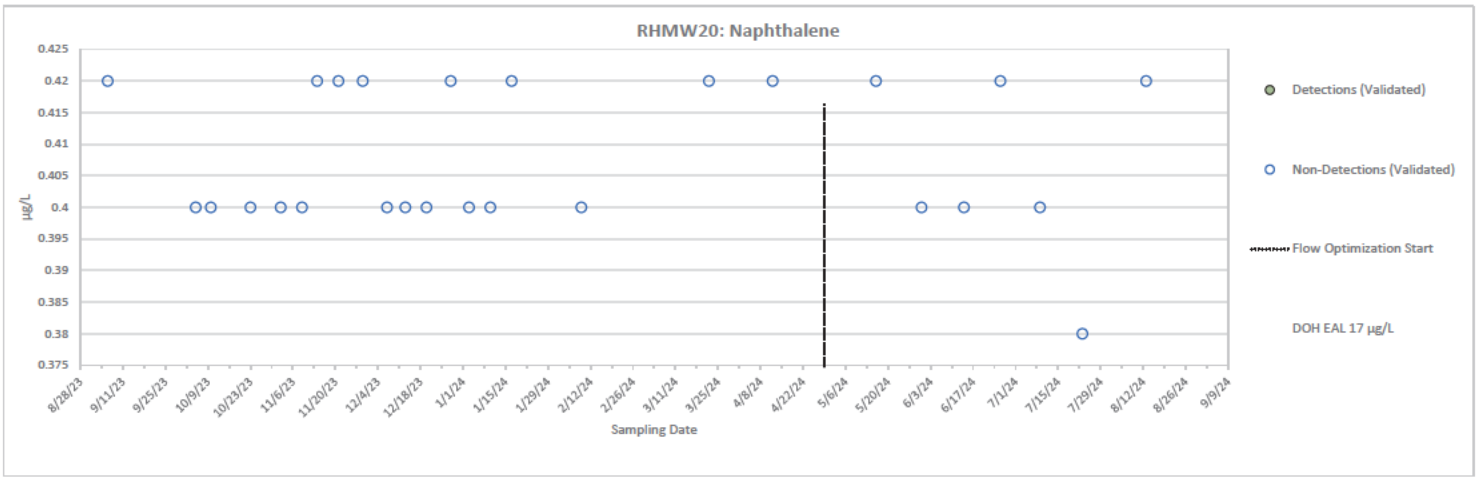

RHMW20: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
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

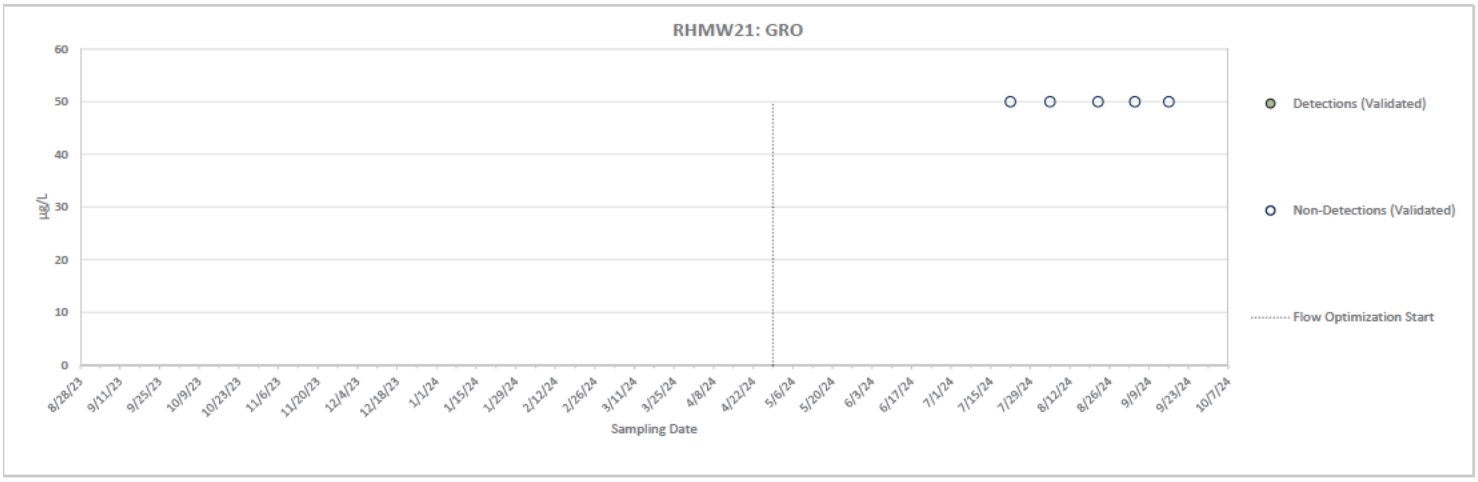

RHMW20: ORO by Method 3520
200
180
160
140
120
100
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

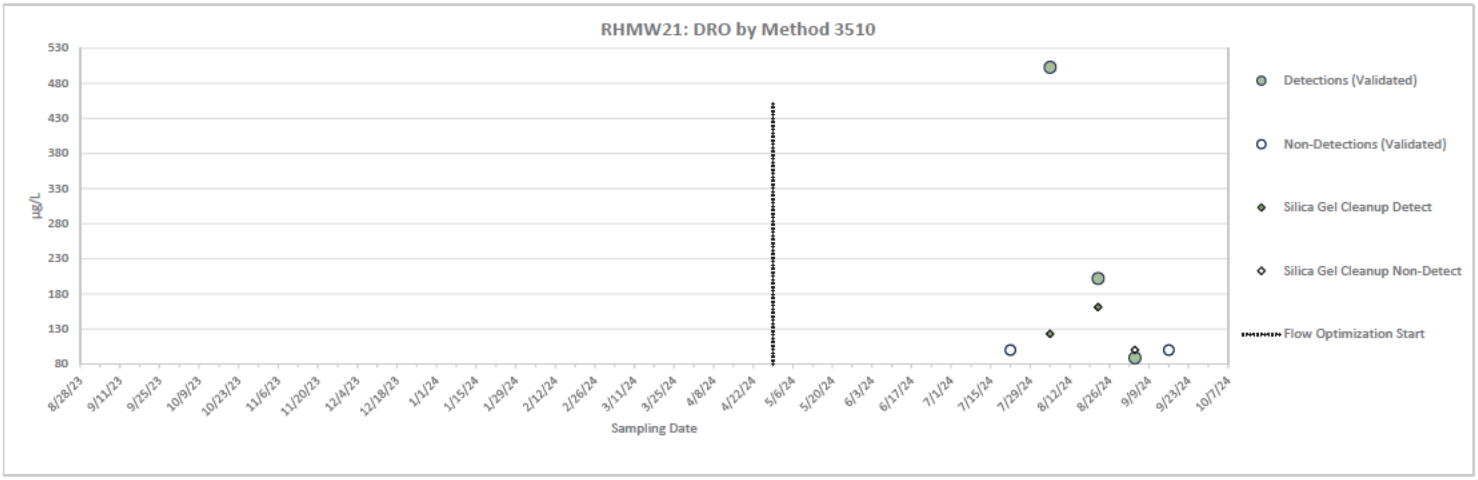


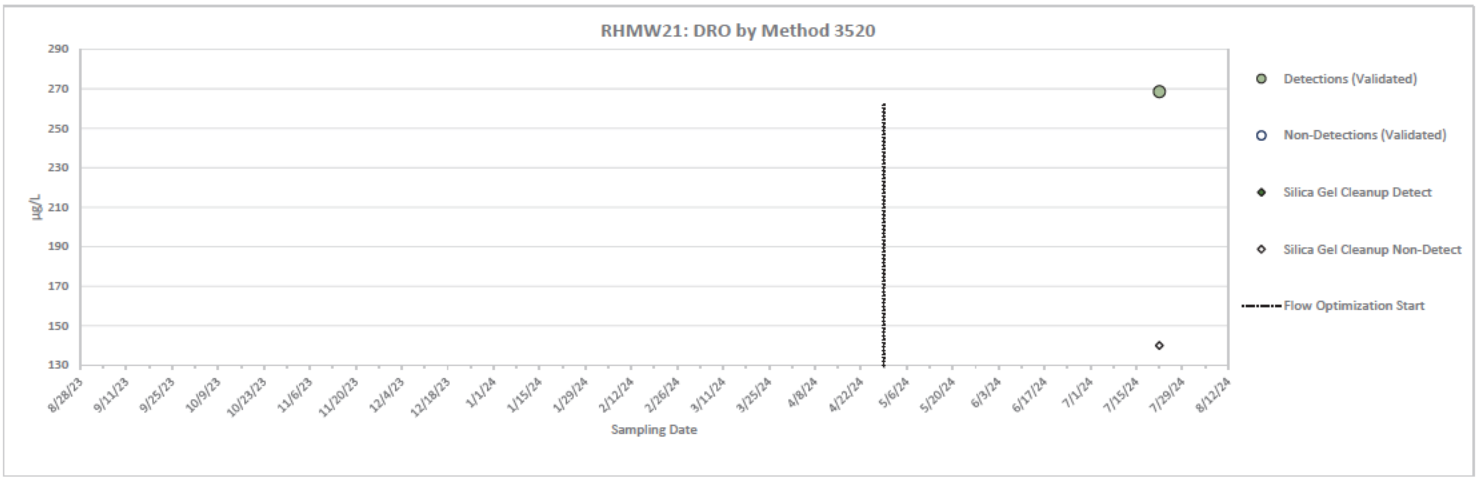


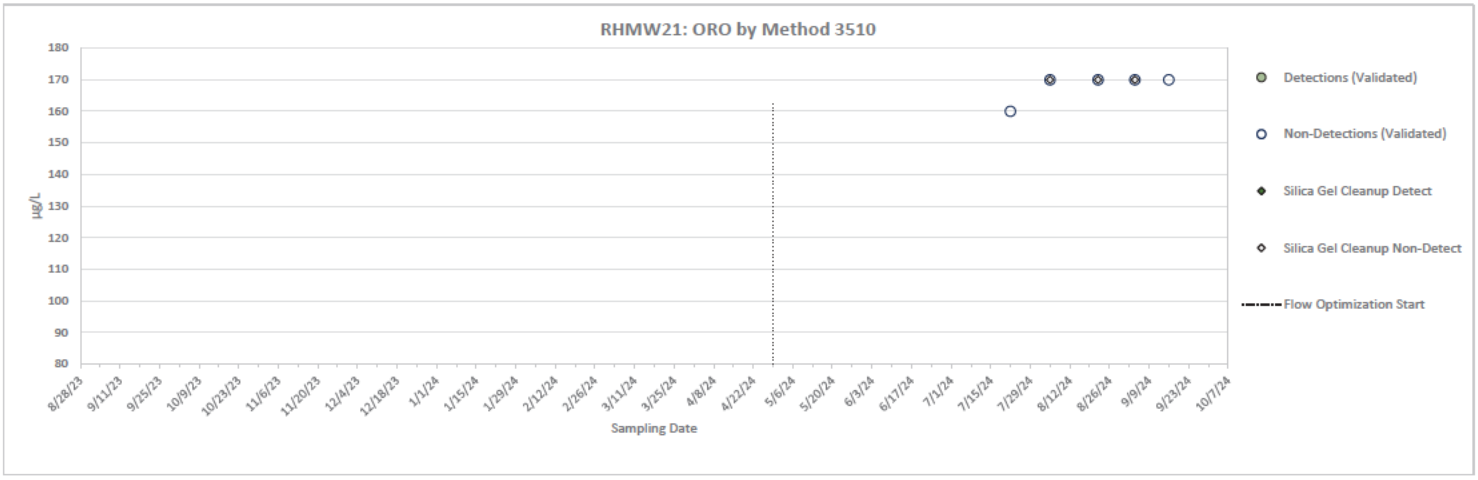


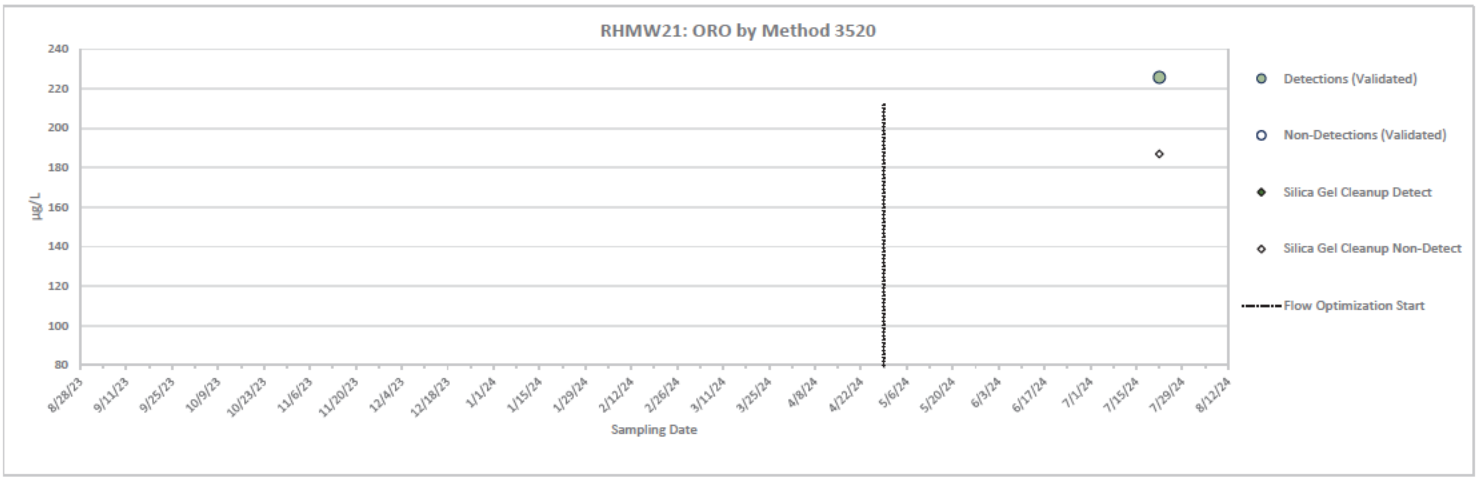
Note: See Data Legend

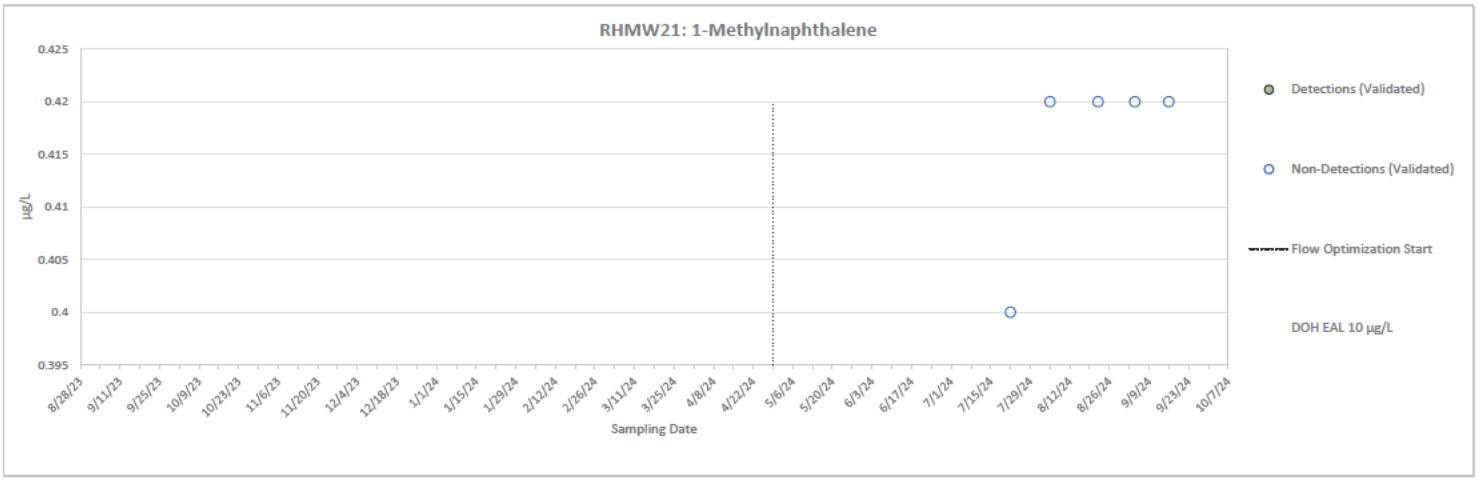

RHMW21: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

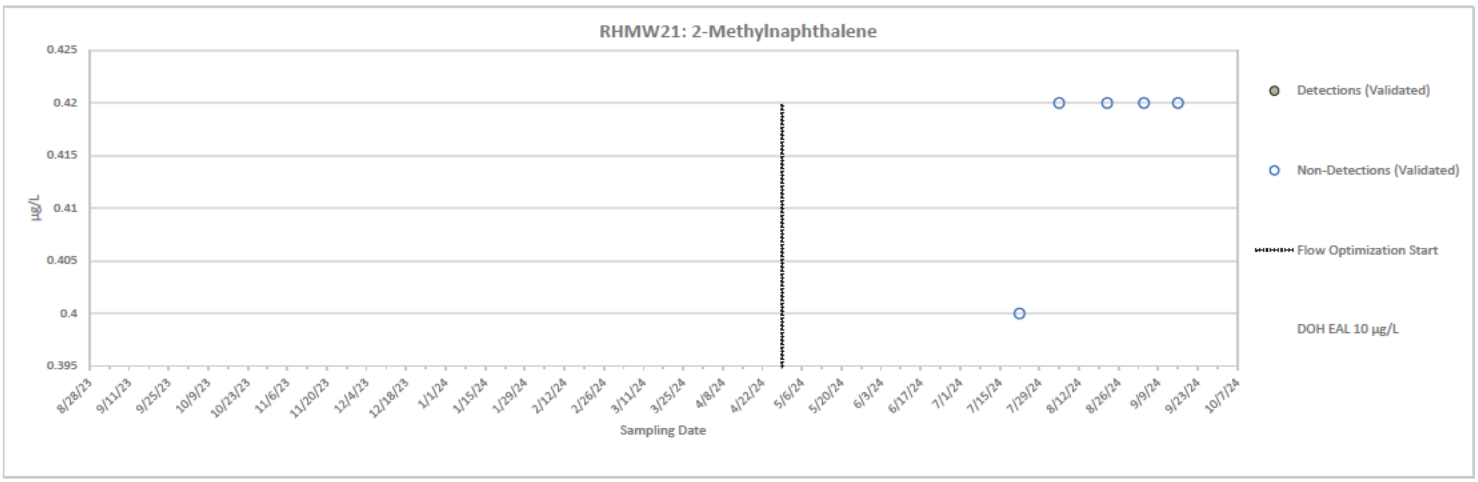

RHMW21: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

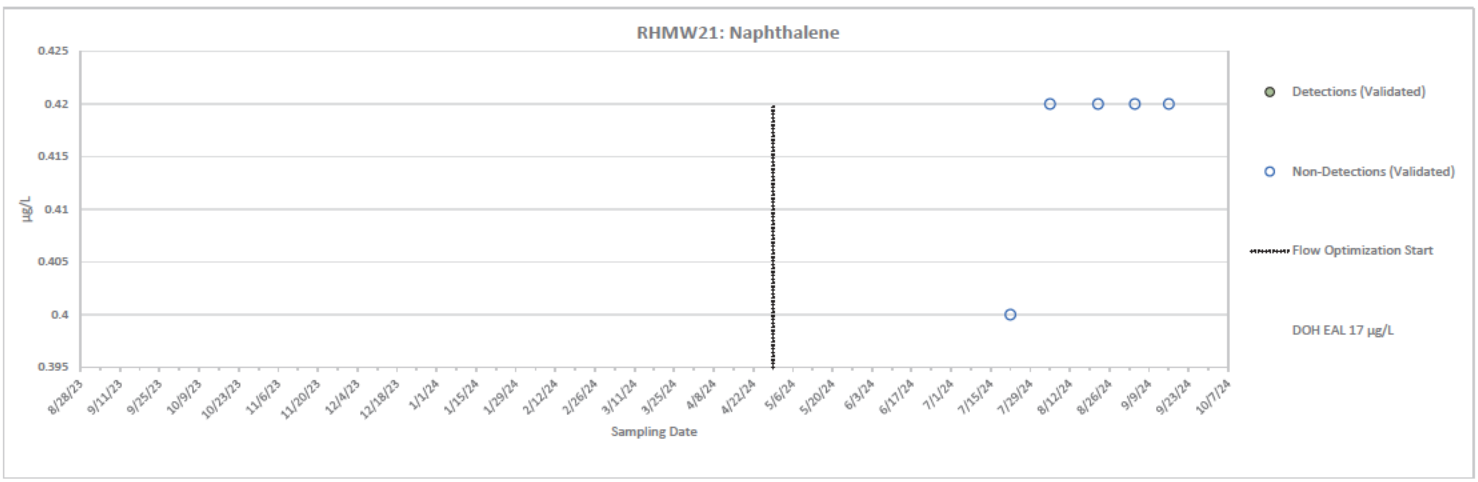

RHMW21: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHMW21: ORO by Method 3510
180
170
160
150
140
130
120
110
100
90
80
ug/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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

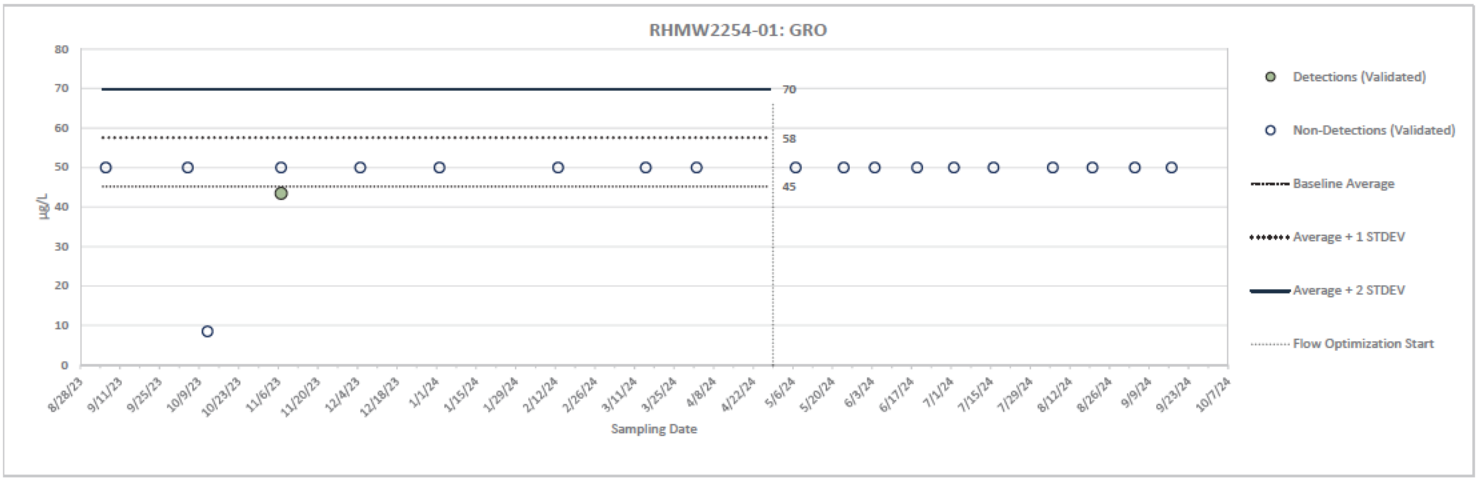

RHMW21: ORO by Method 3520
240
220
200
180
160
140
120
100
80
ug/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

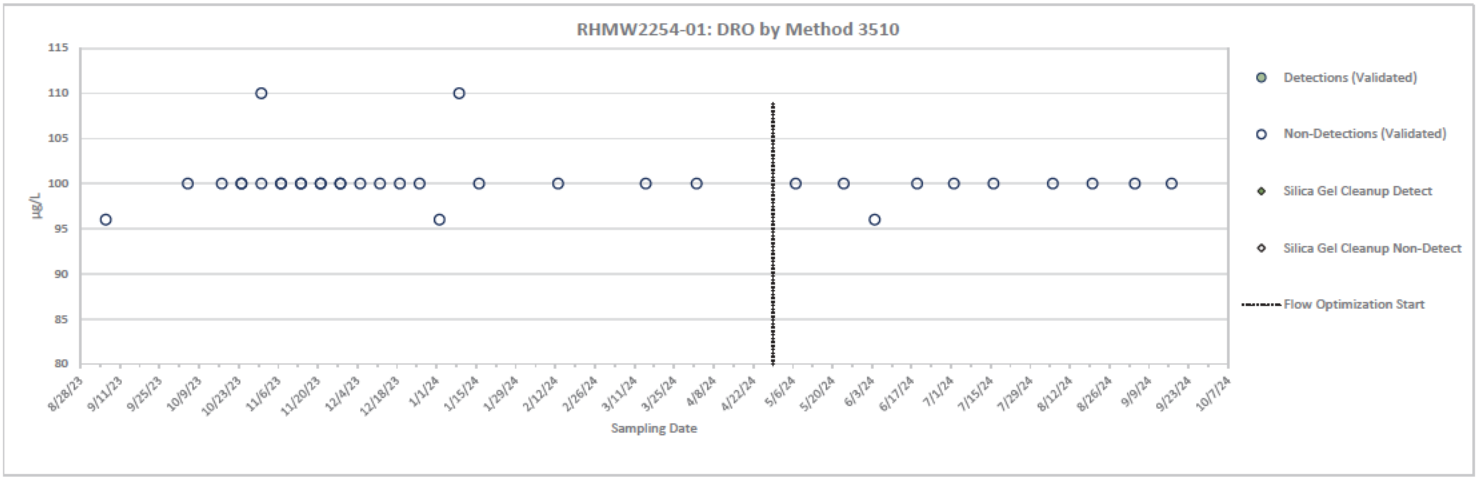


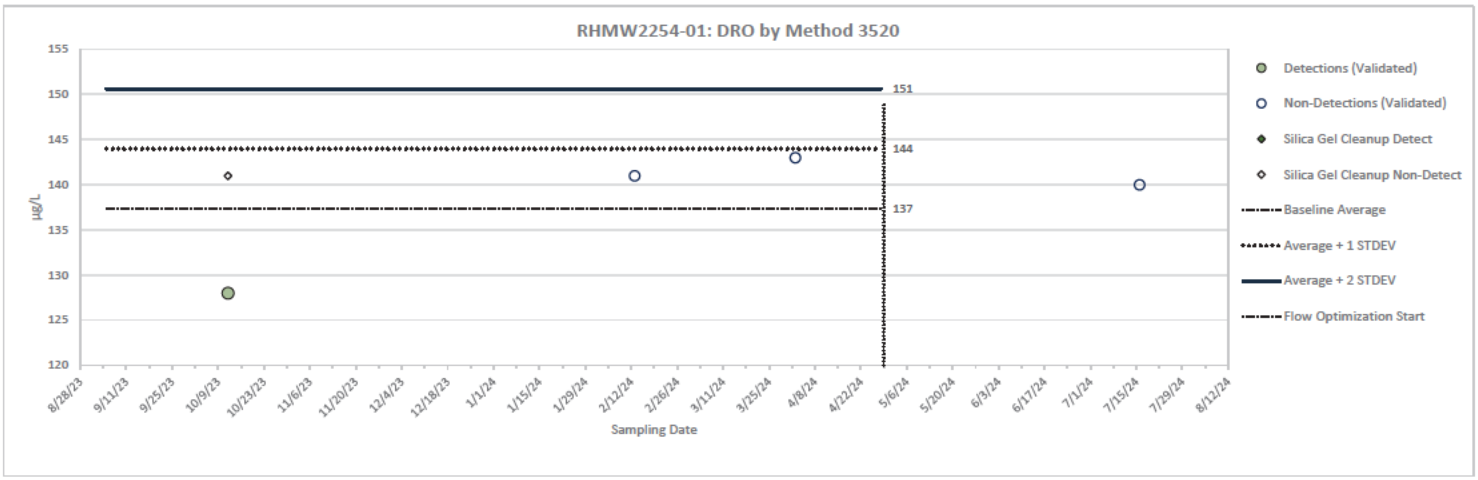


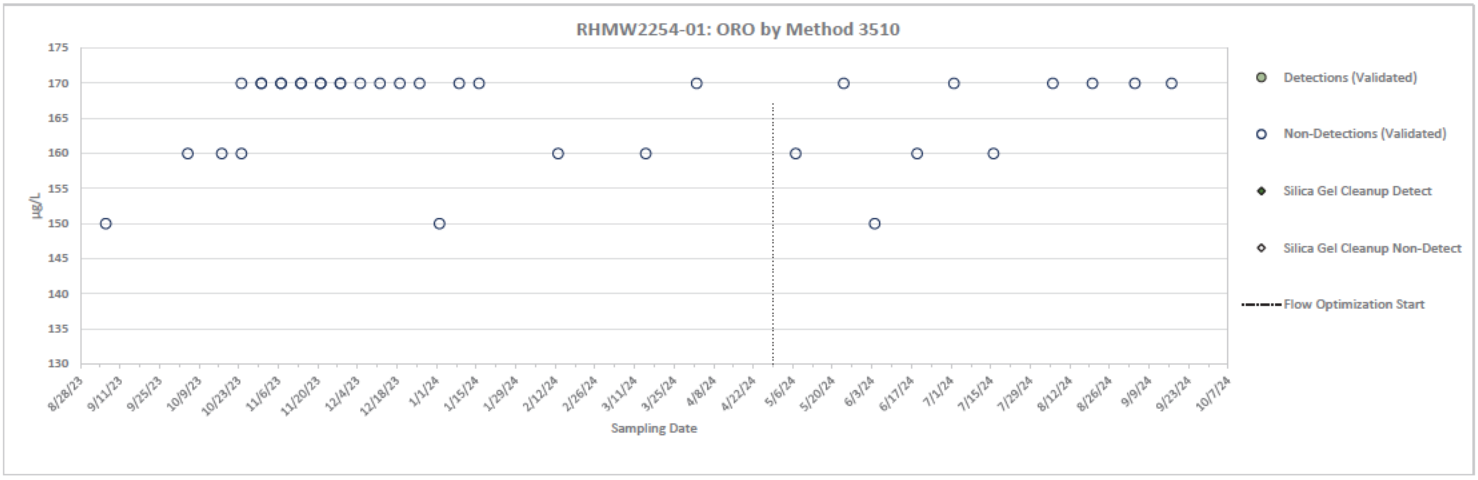


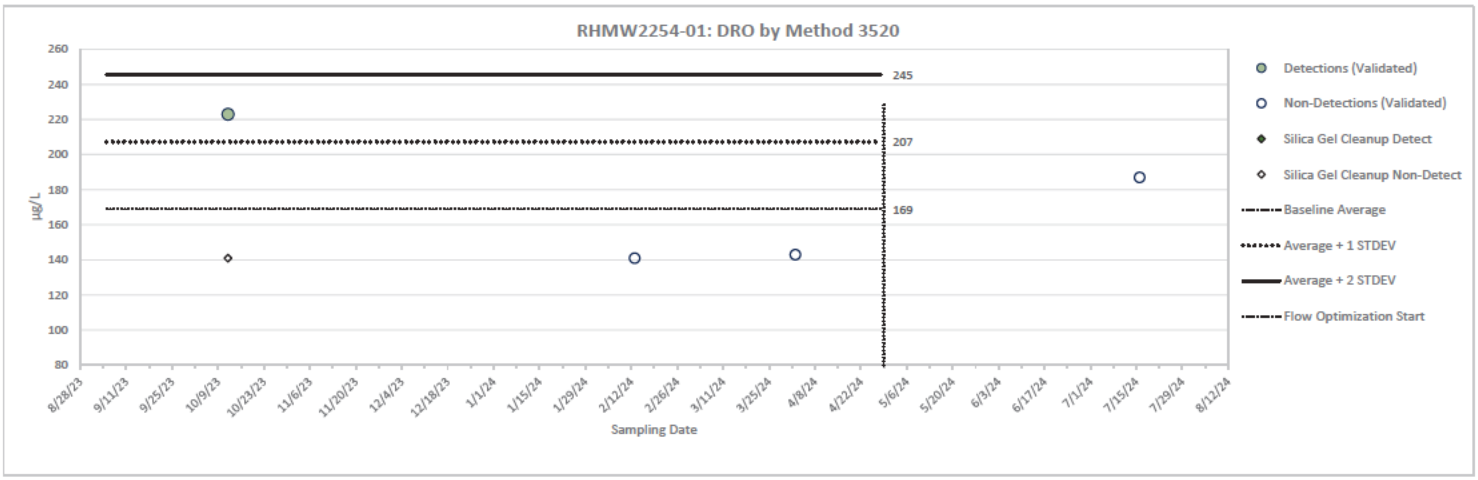
Note: See Data Legend

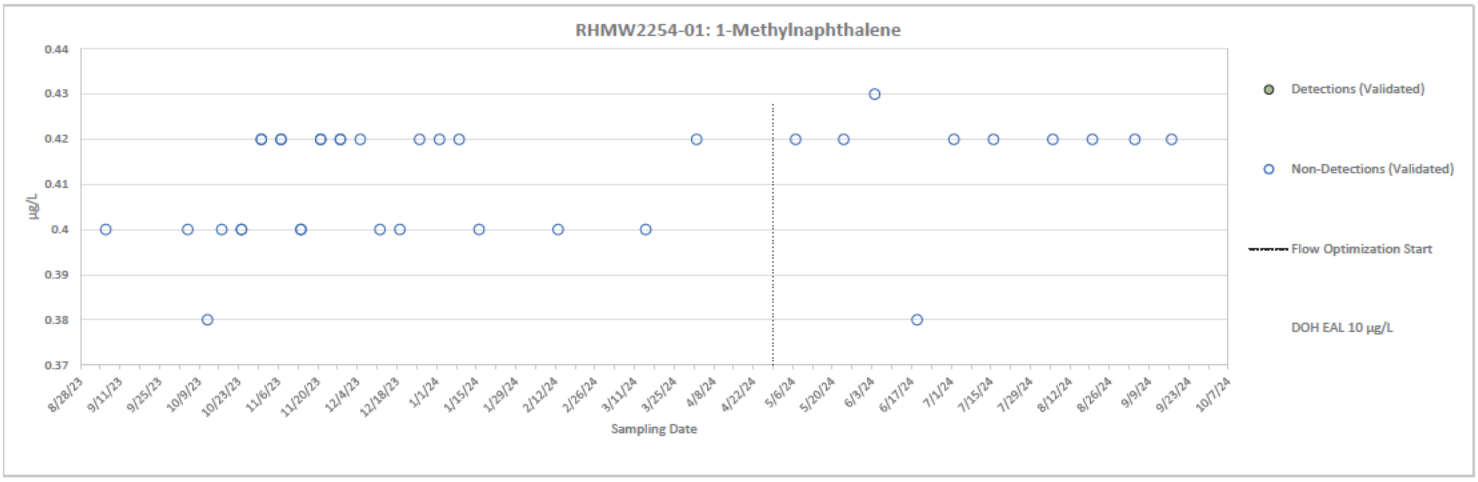

RHMW2254-01: GRO
µg/L
Sampling Date
70
58
45
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

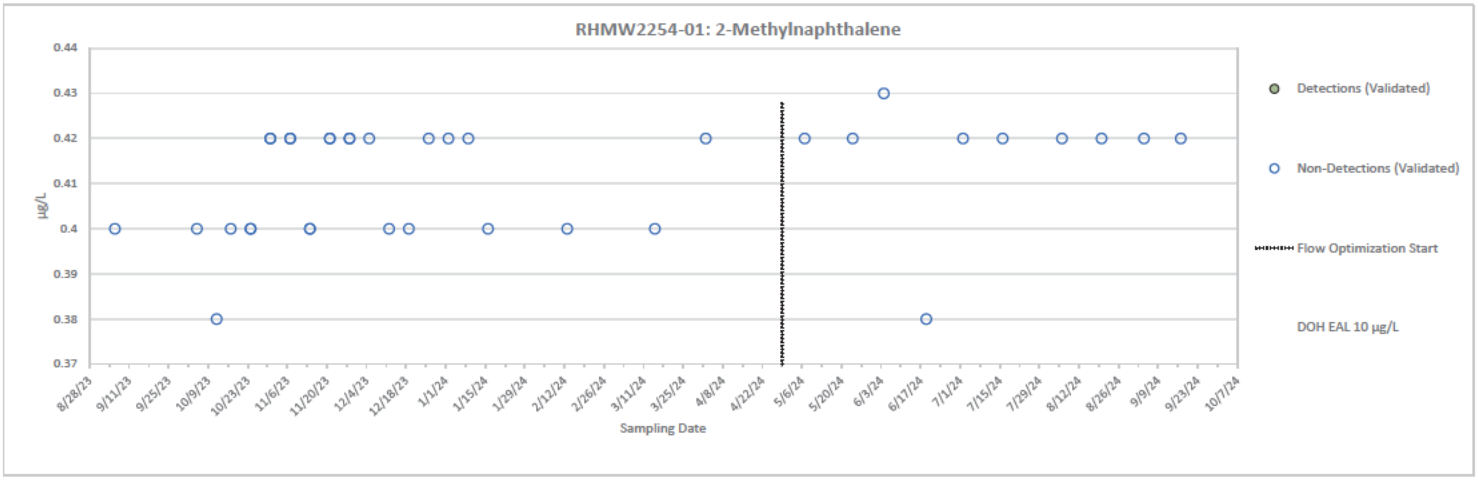

RHMW2254-01: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

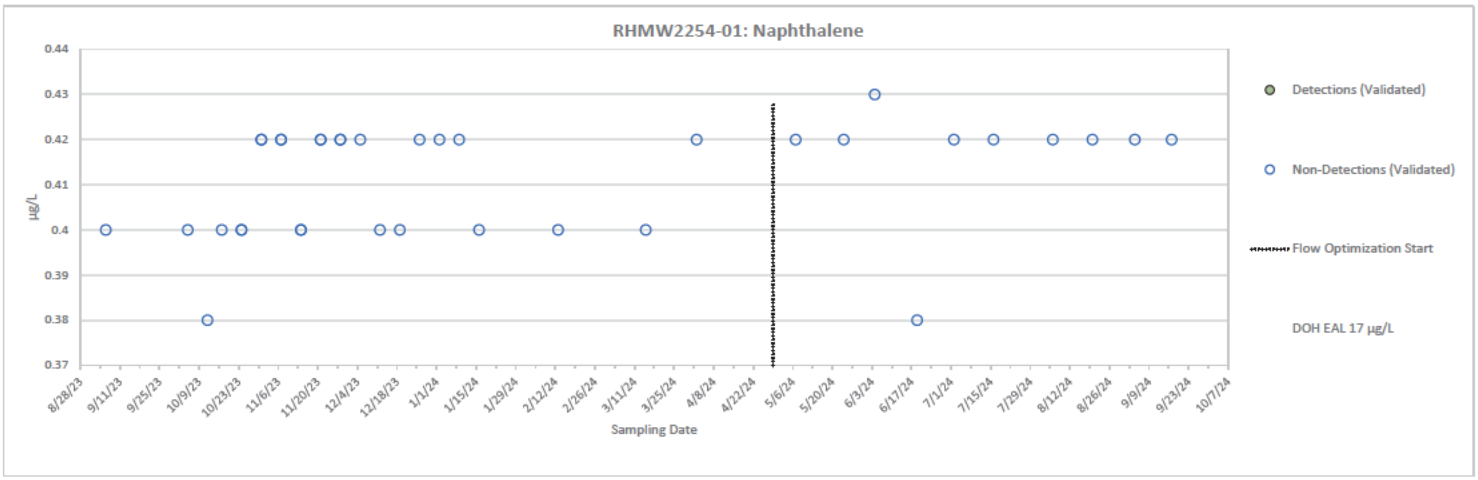

RHMW2254-01: DRO by Method 3520
µg/L
Sampling Date
151
144
137
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHMW2254-01: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

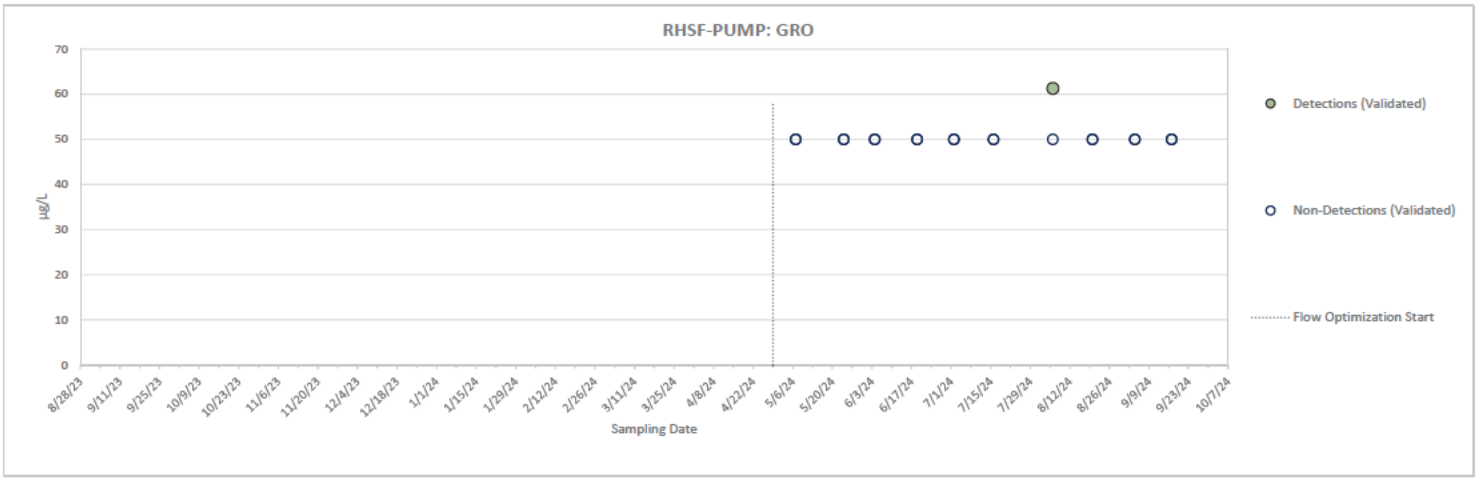

RHMW2254-01: DRO by Method 3520
µg/L
Sampling Date
245
207
169
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

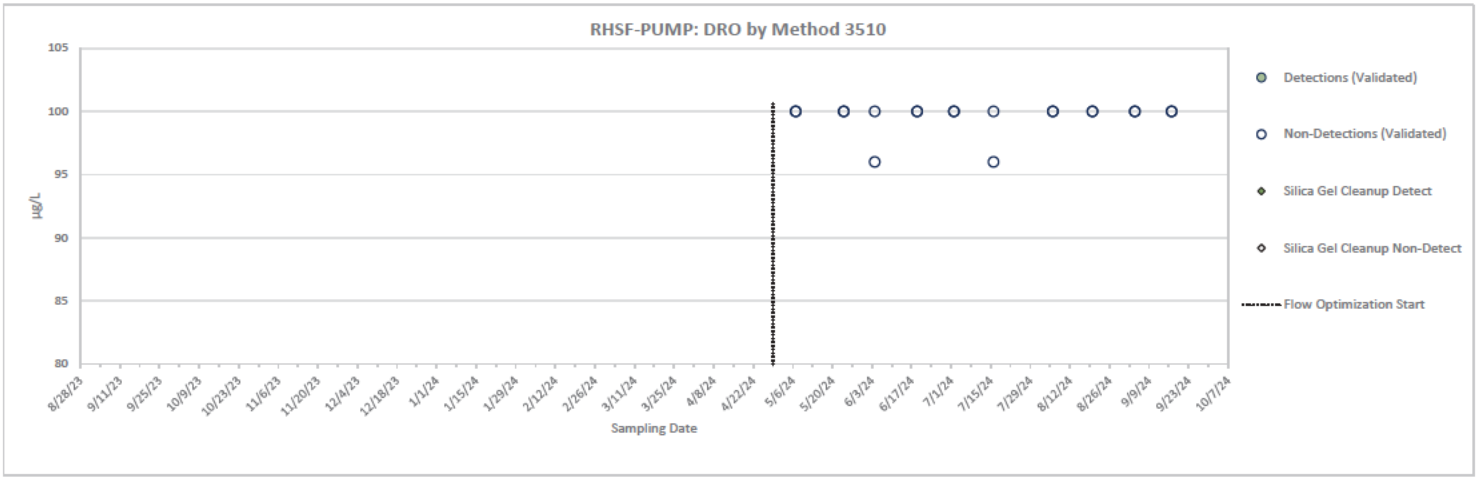


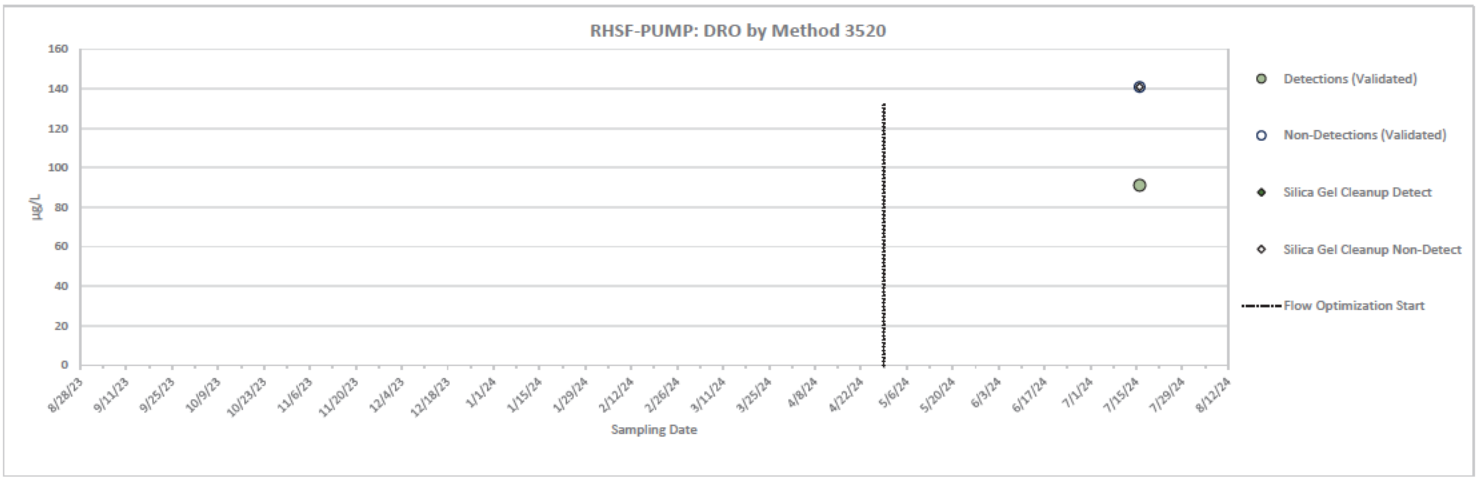


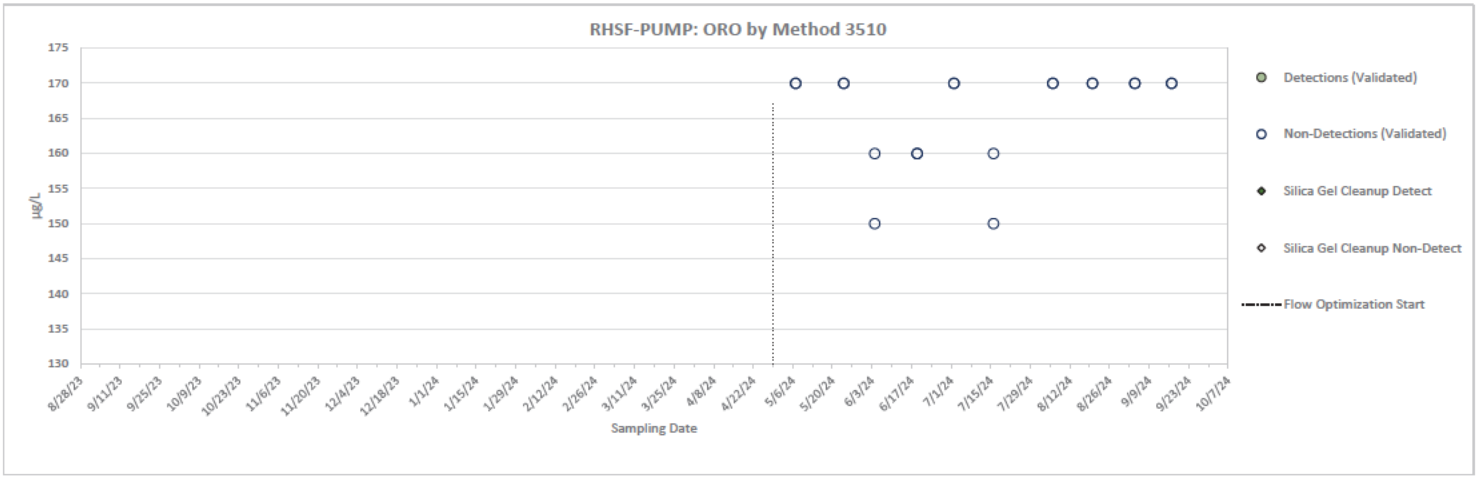


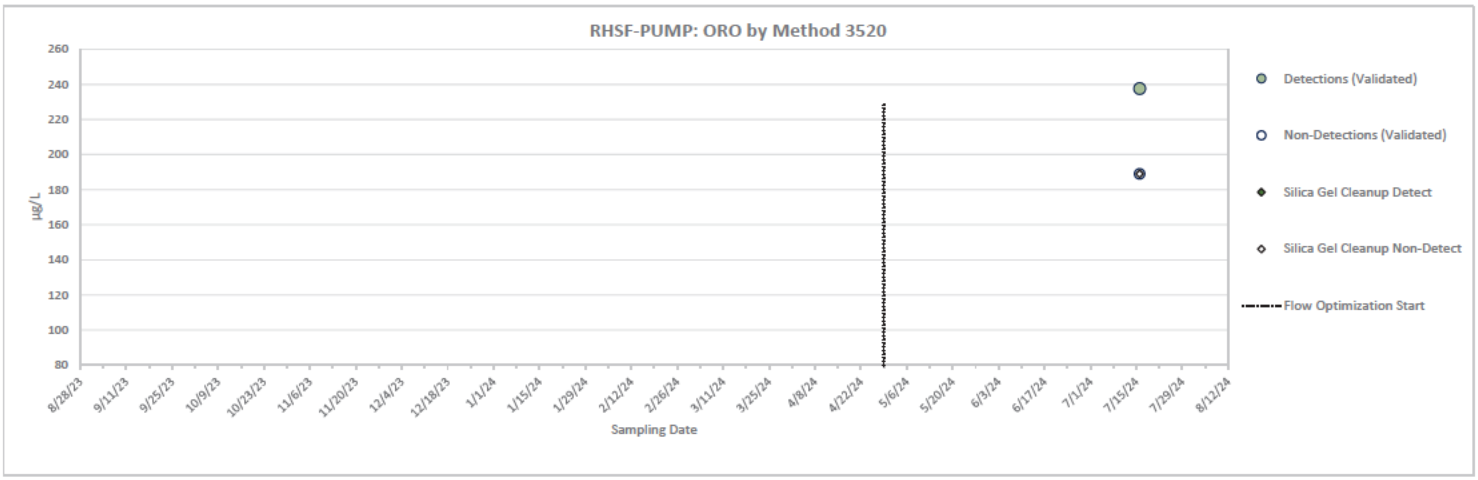
Note: See Data Legend

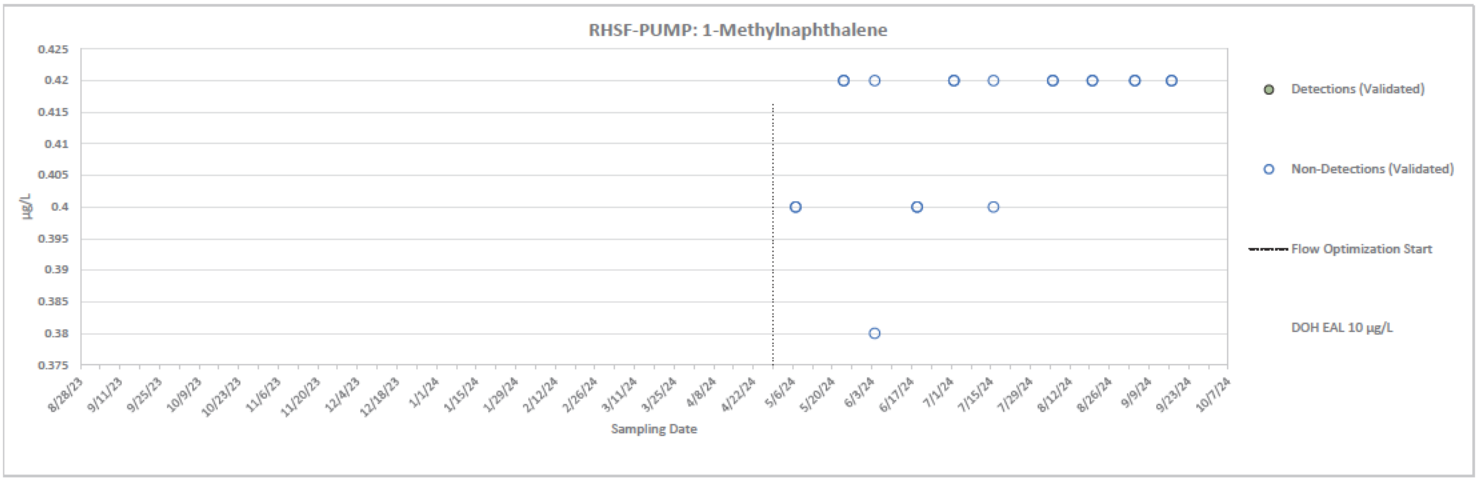

RHSF-PUMP: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

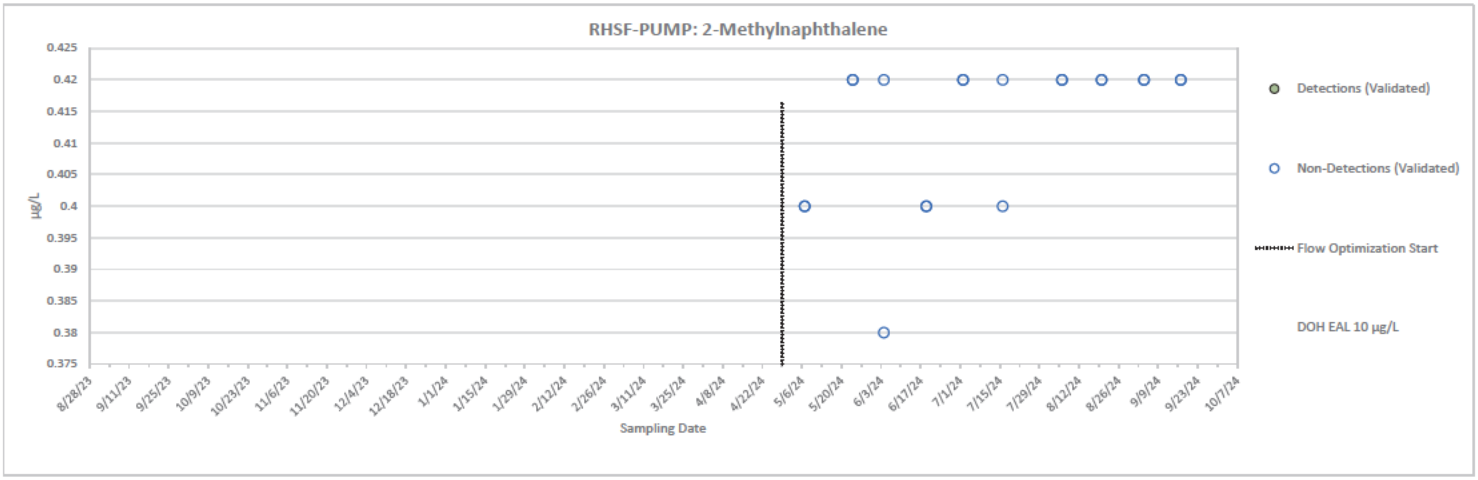

RHSF-PUMP: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

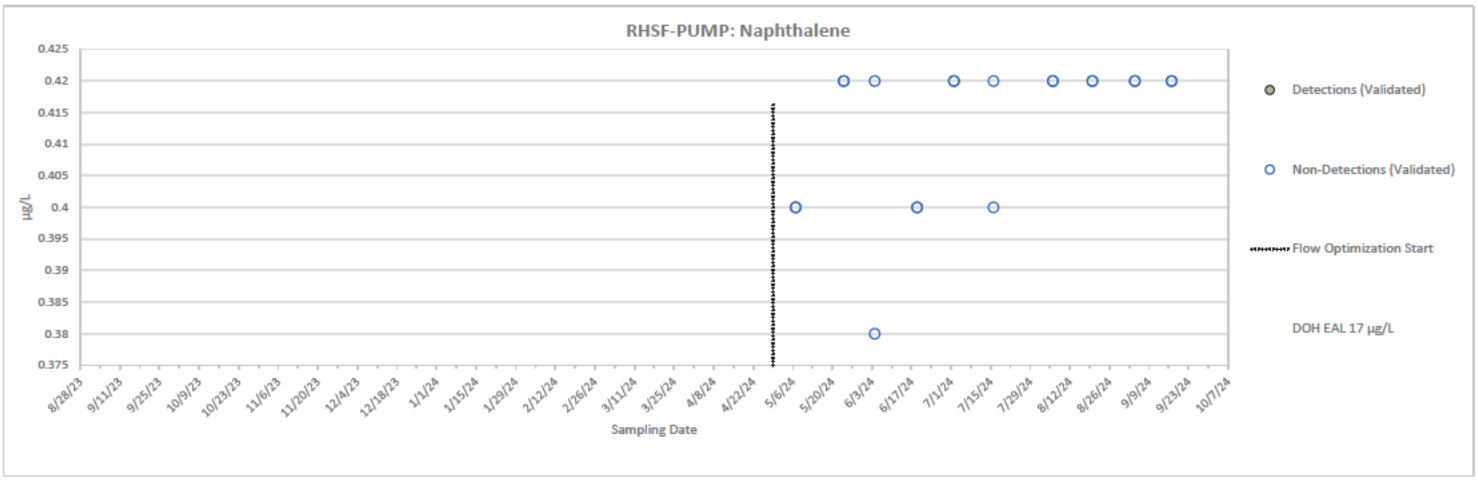

RHSF-PUMP: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

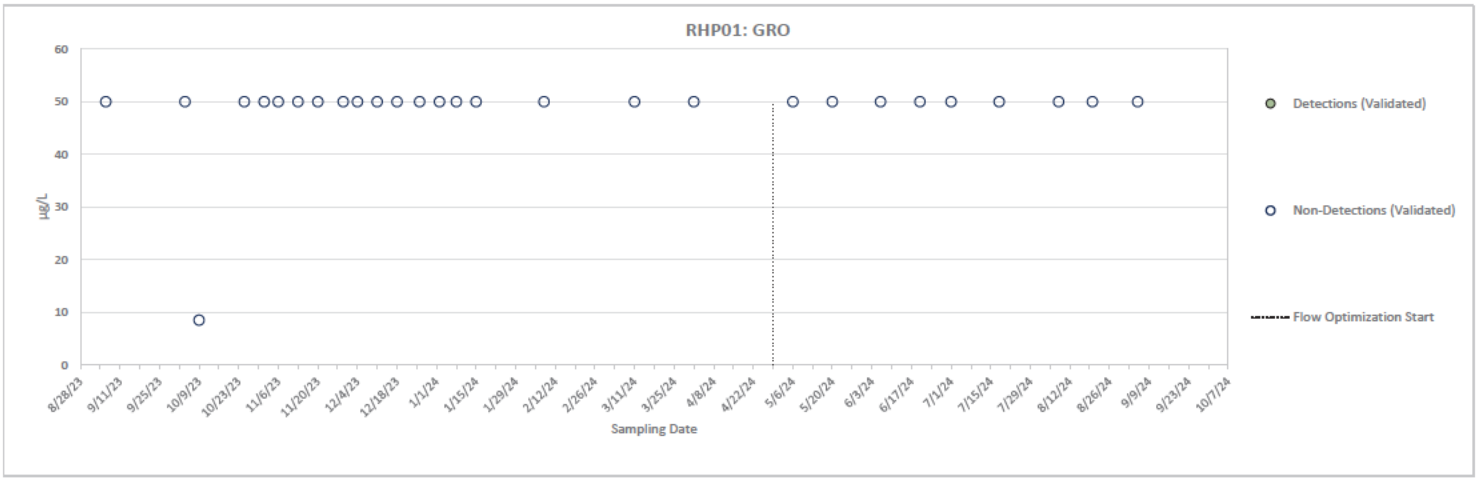

RHSF-PUMP: ORO by Method 3520
µg/L
260
240
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

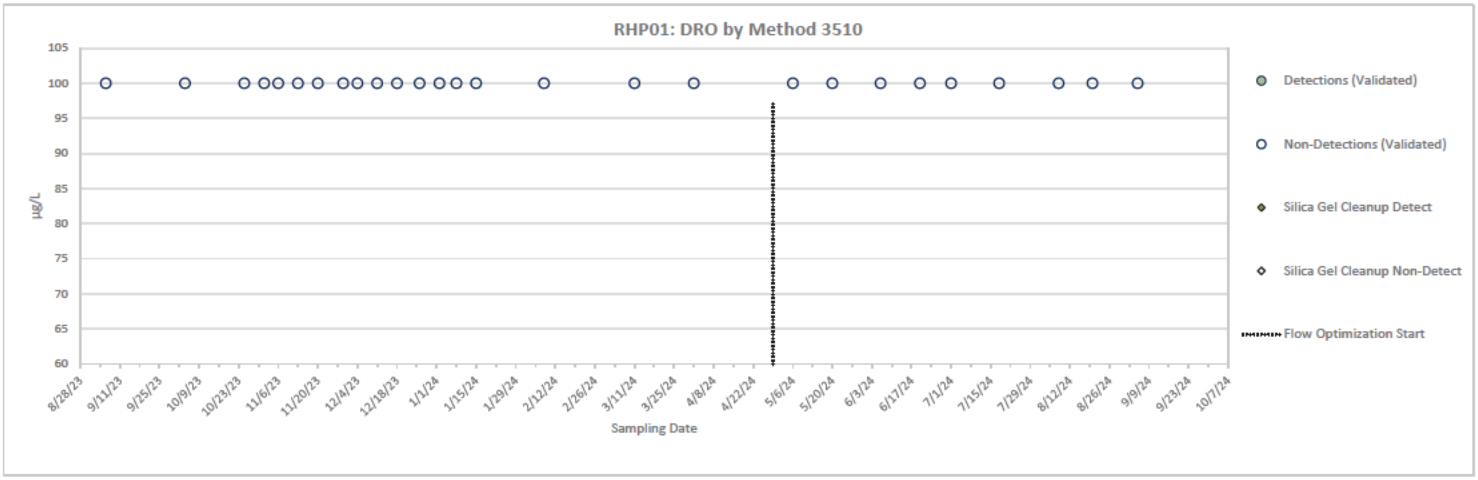


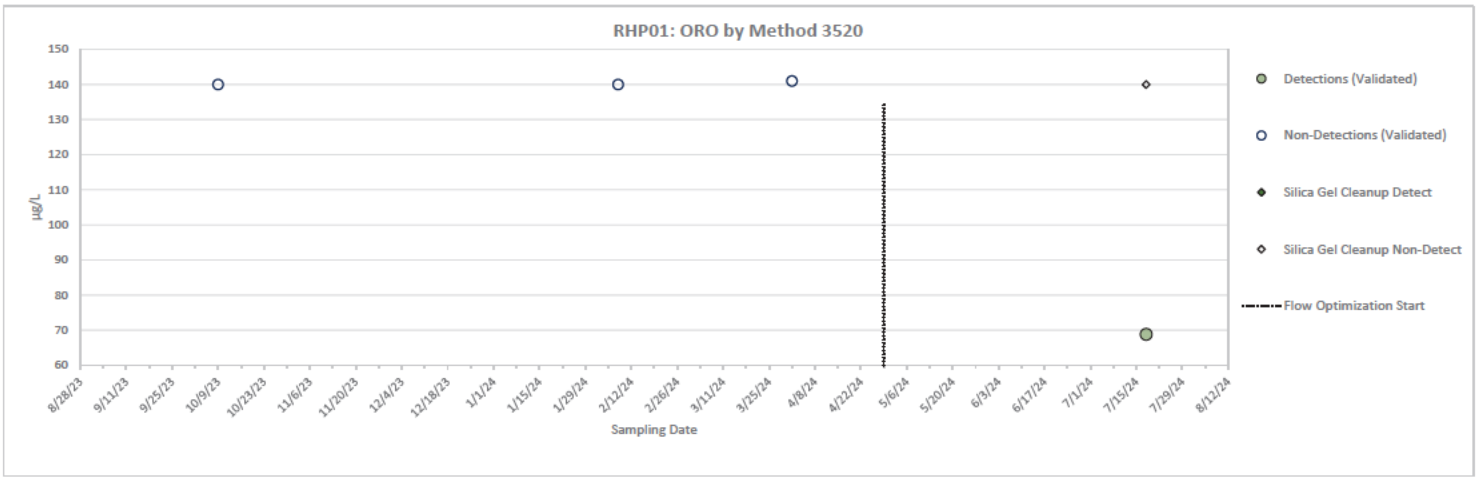


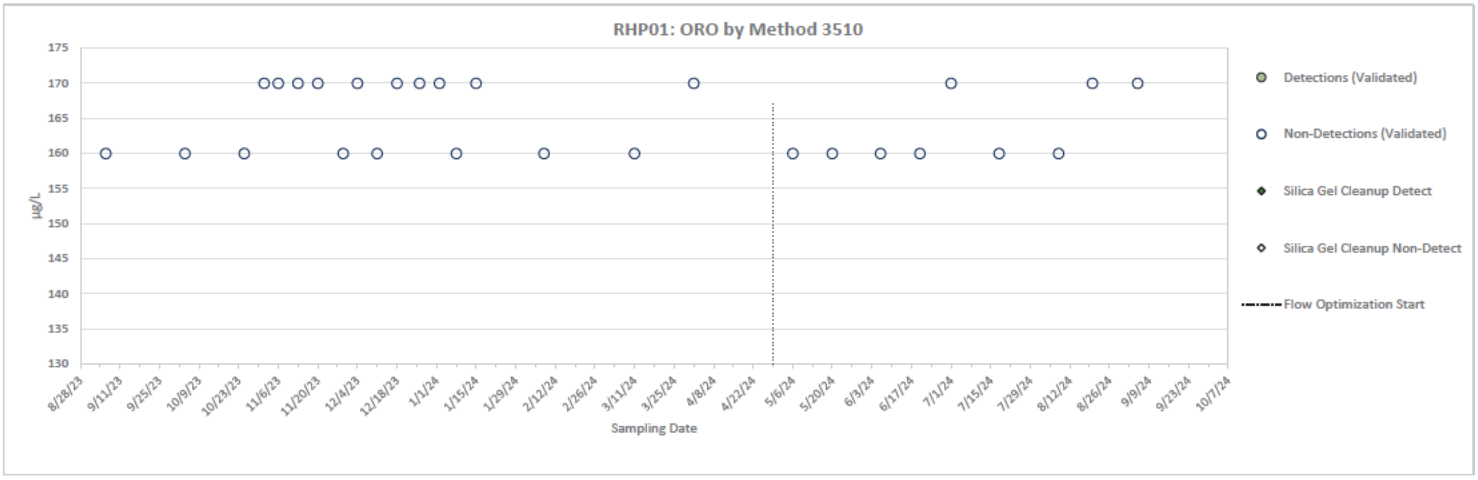


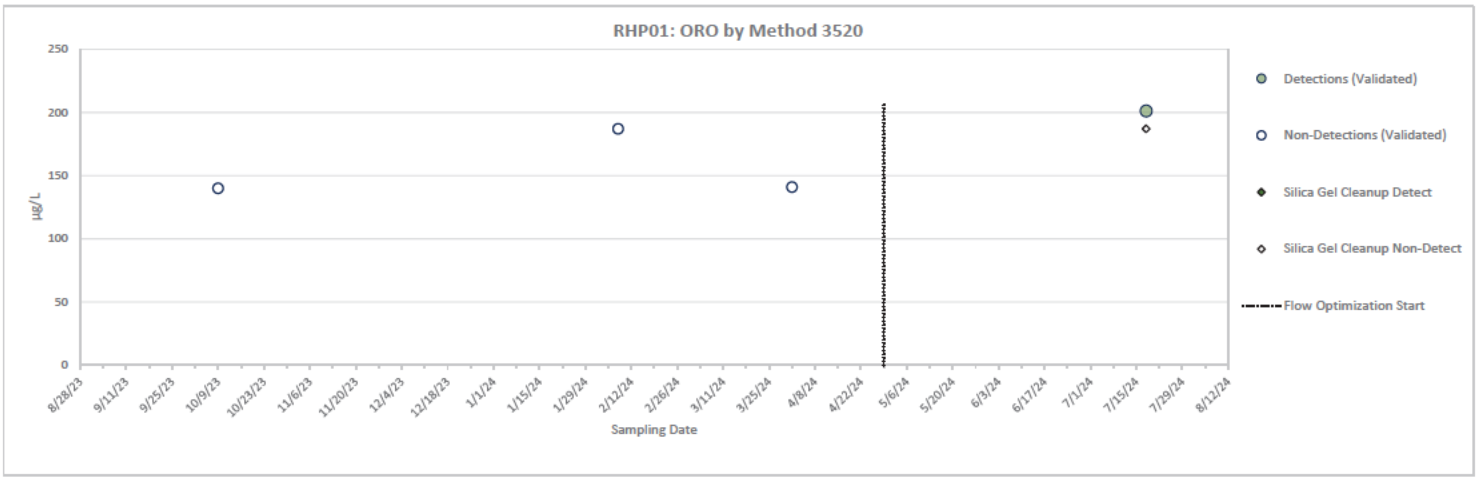
Note: See Data Legend

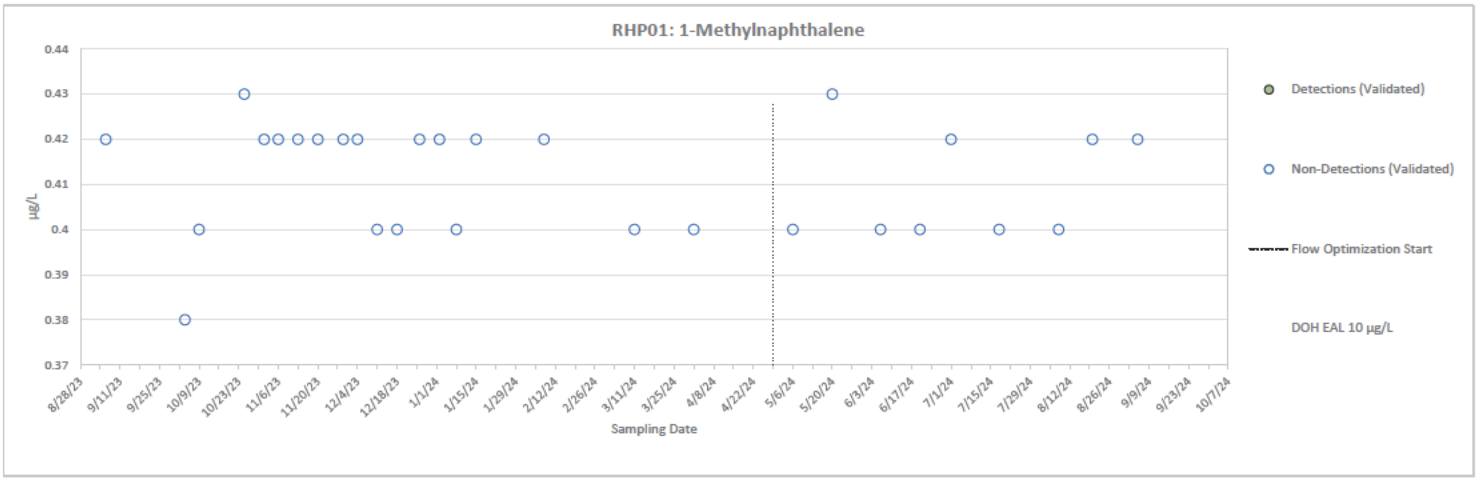

RHP01: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

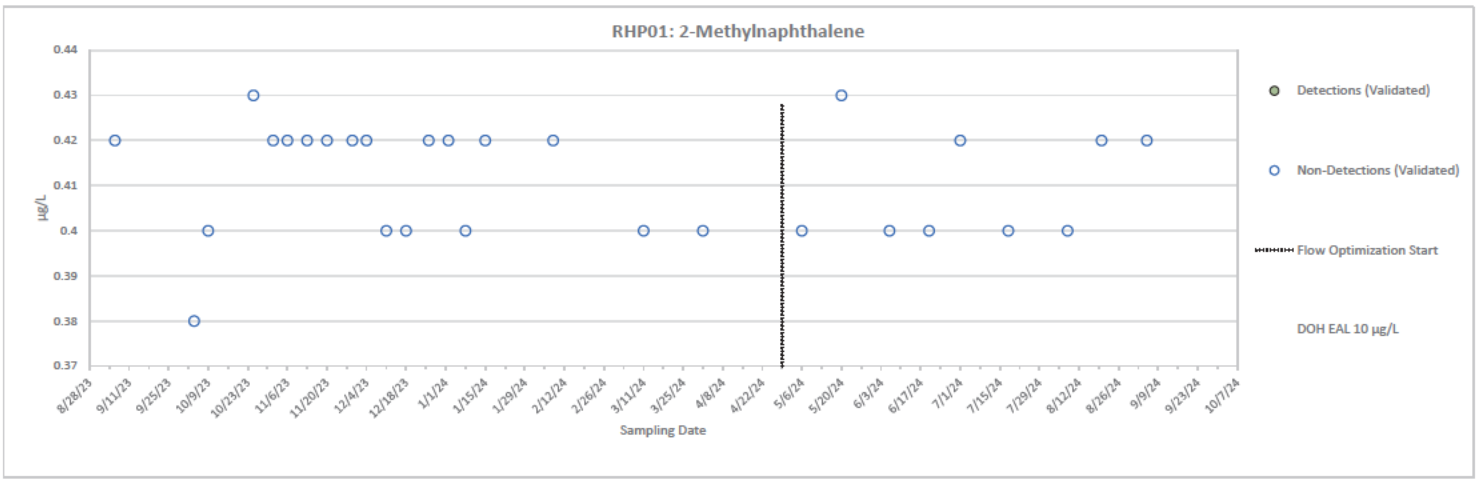

RHP01: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

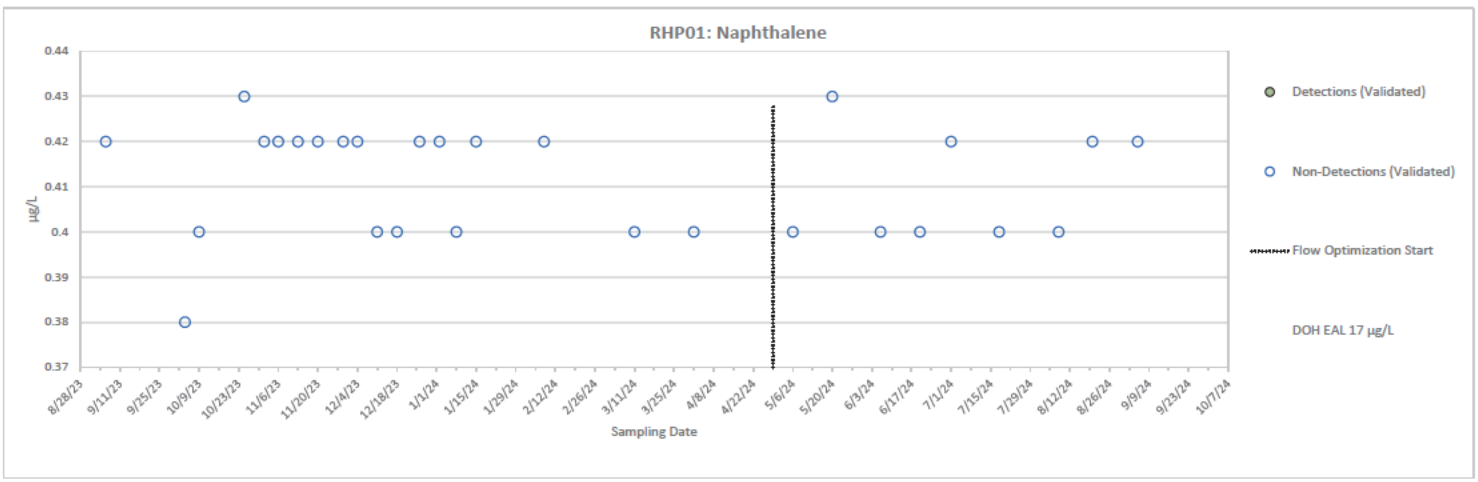

RHP01: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

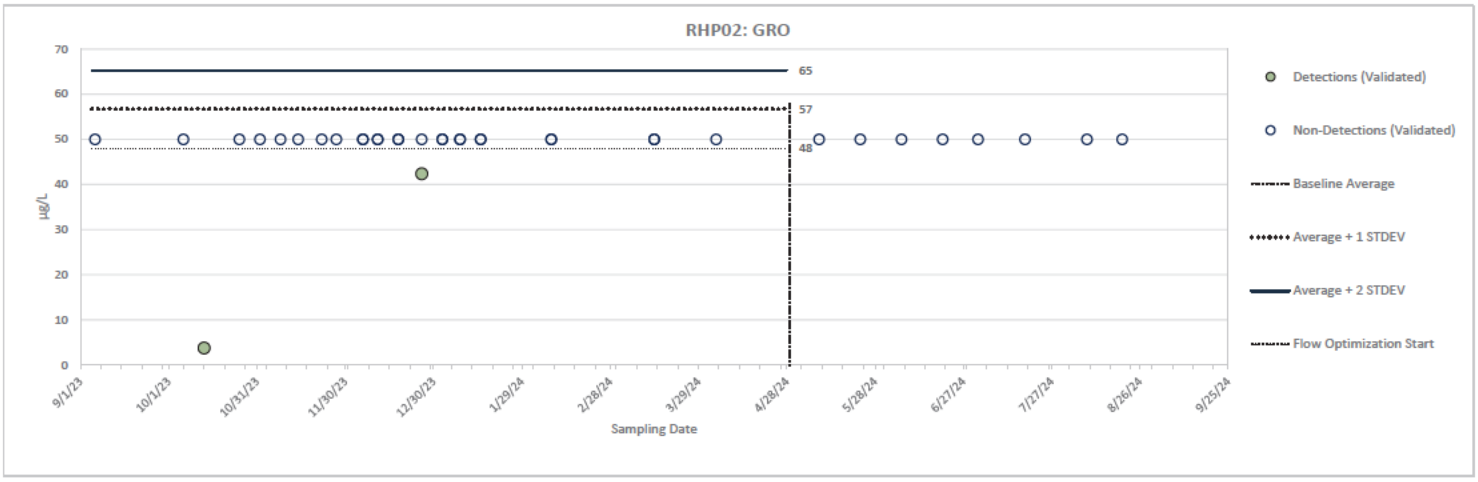

RHP01: ORO by Method 3520
µg/L
250
200
150
100
50
0
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

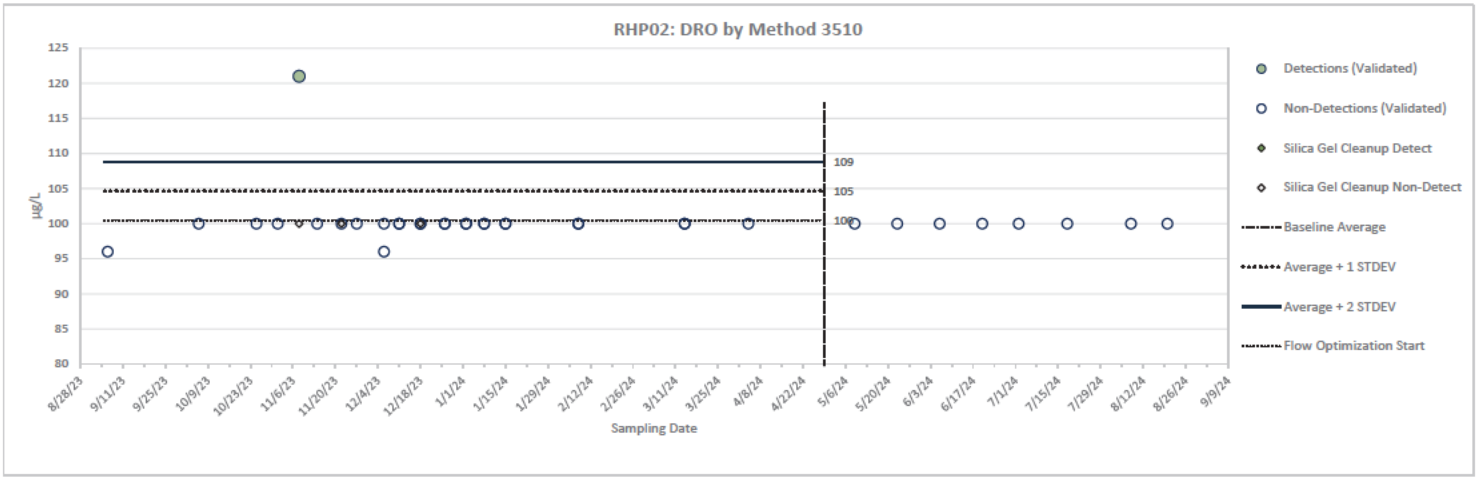


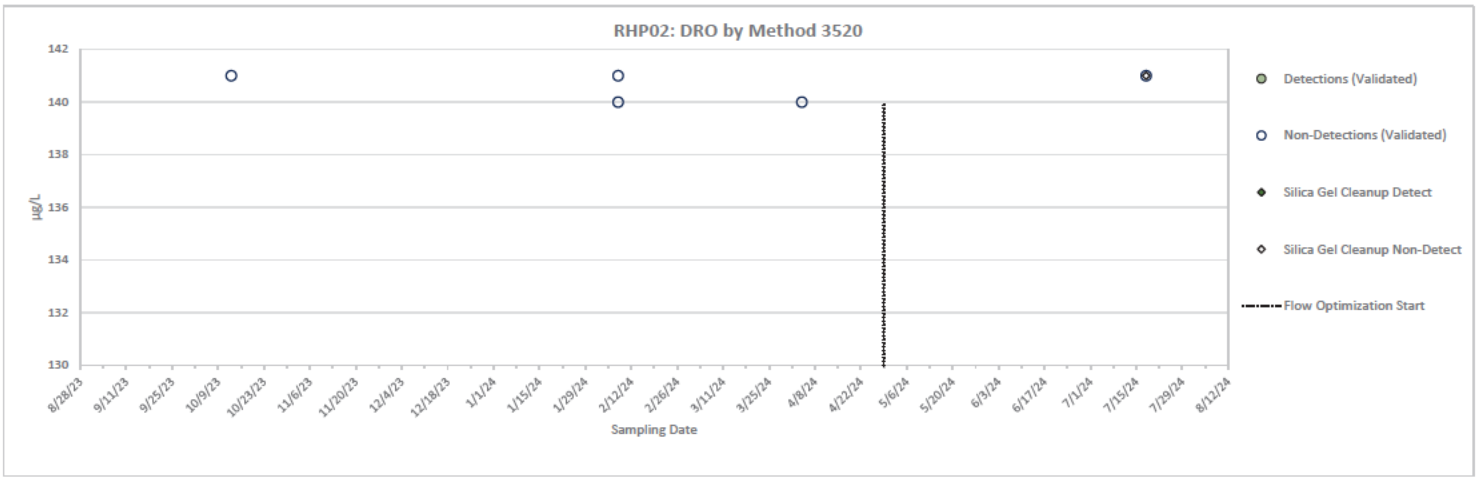


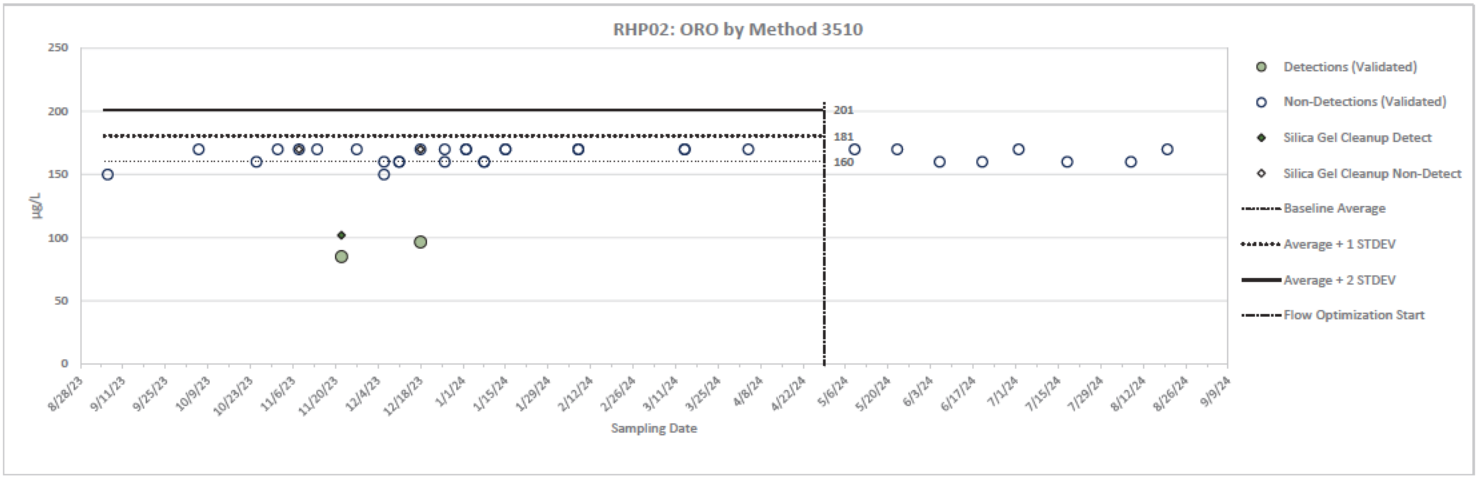


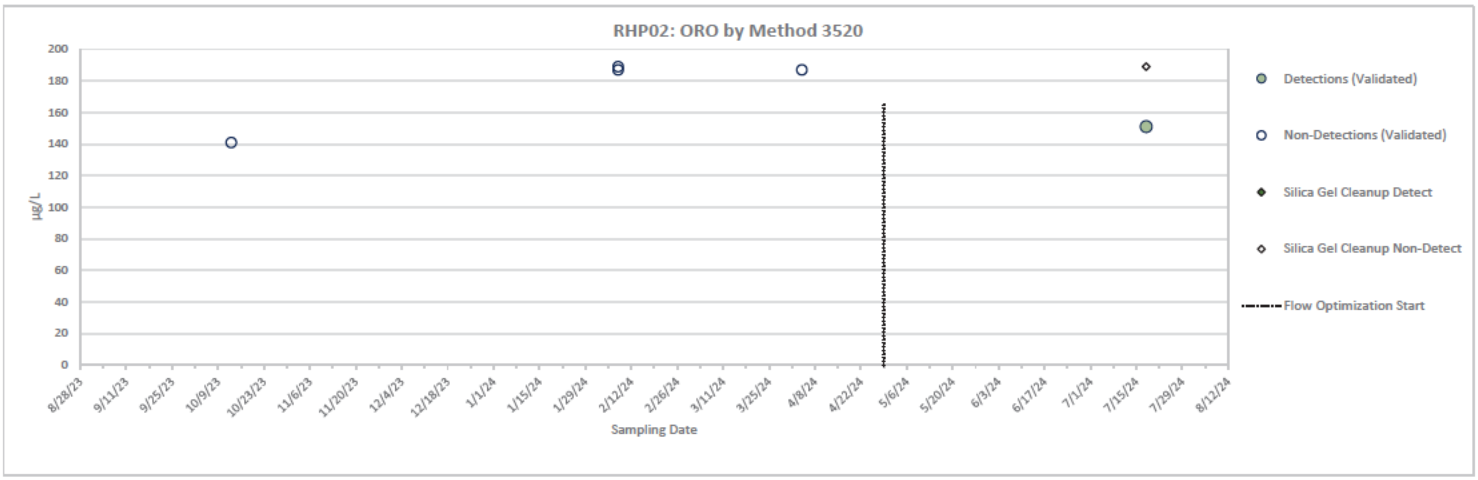
Note: See Data Legend

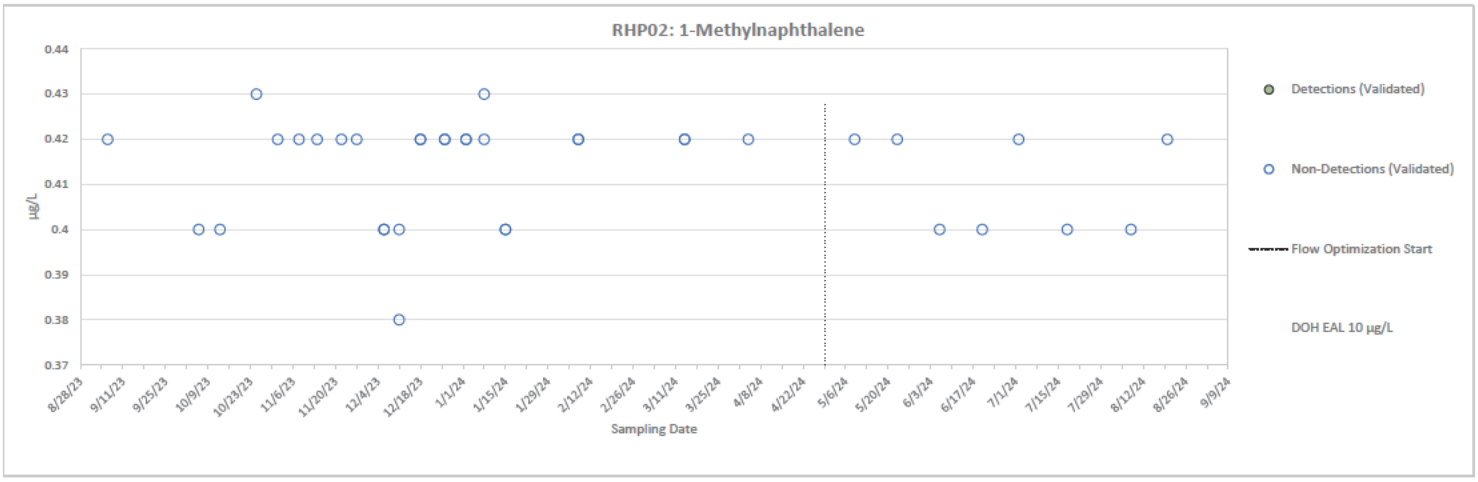

RHP02: GRO
µg/L
Sampling Date
65
57
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

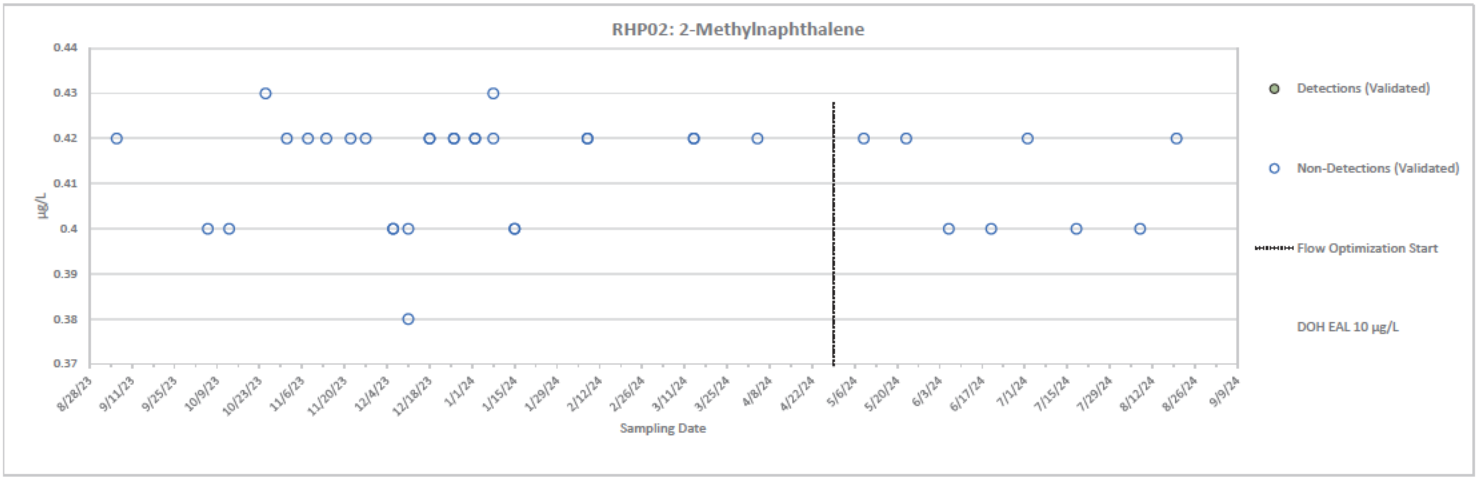

RHP02: DRO by Method 3510
µg/L
Sampling Date
109
105
100
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

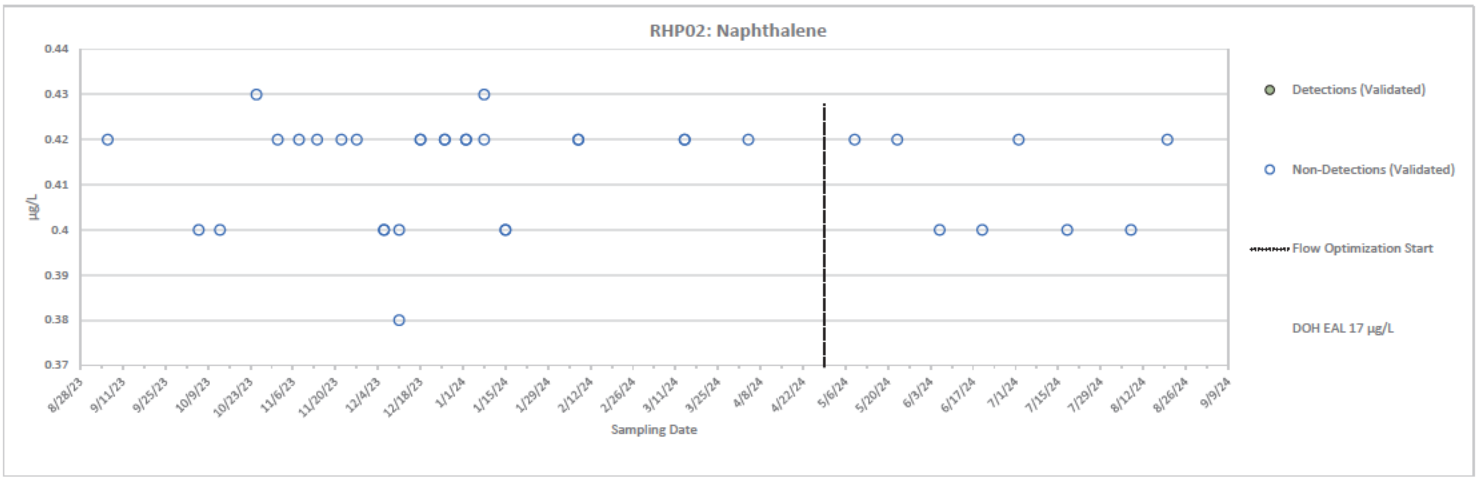

RHP02: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP02: ORO by Method 3510
µg/L
Sampling Date
201
181
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

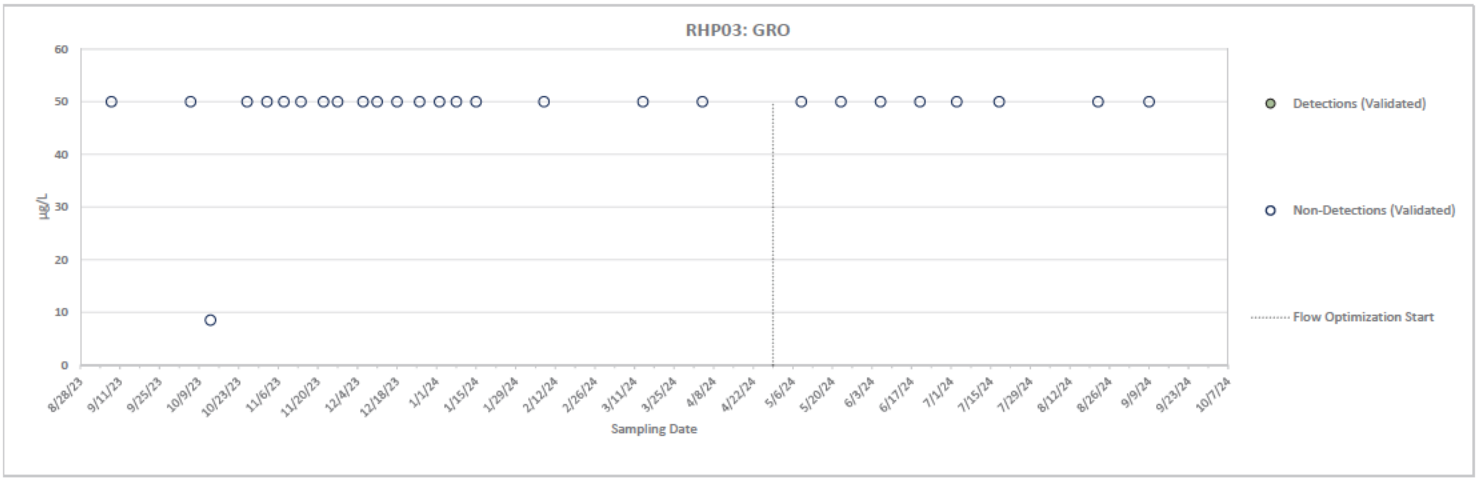

RHP02: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

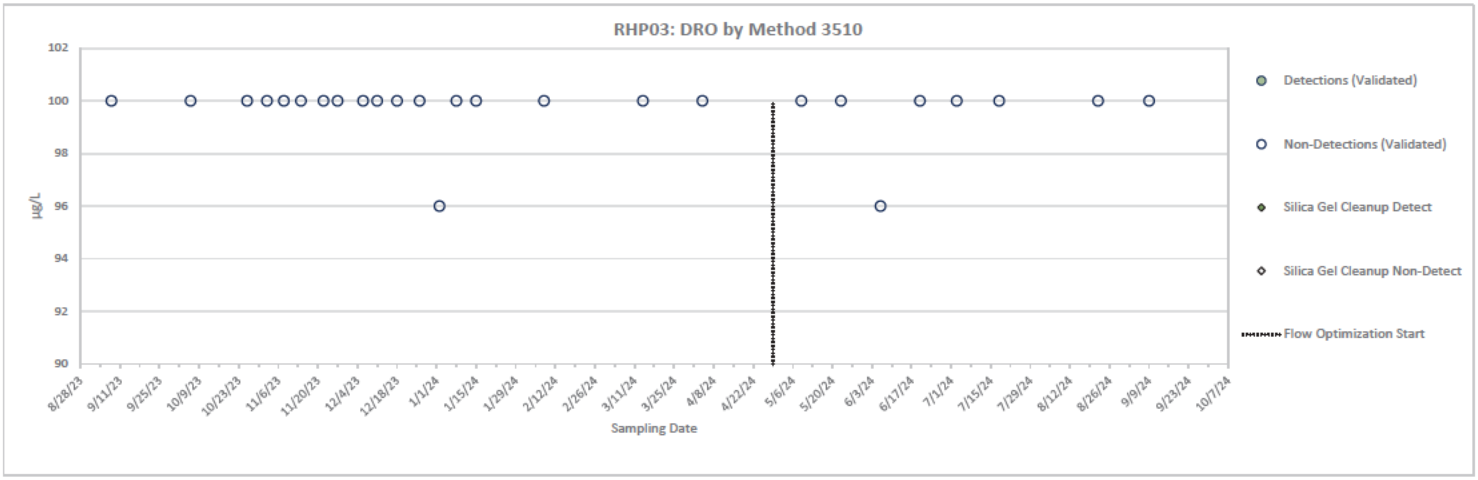


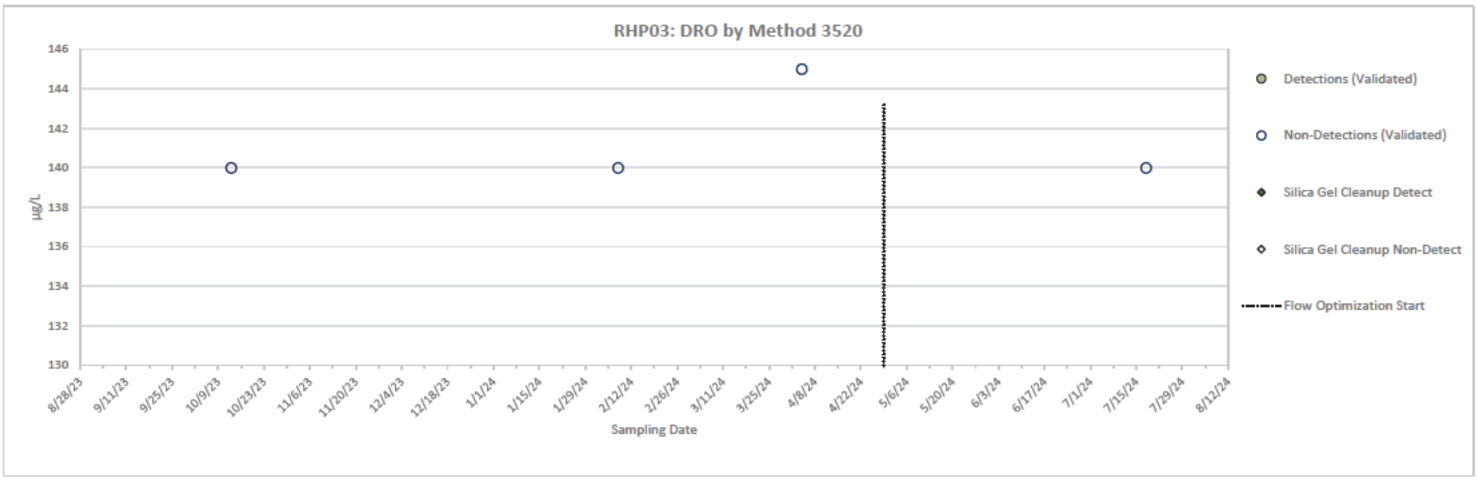


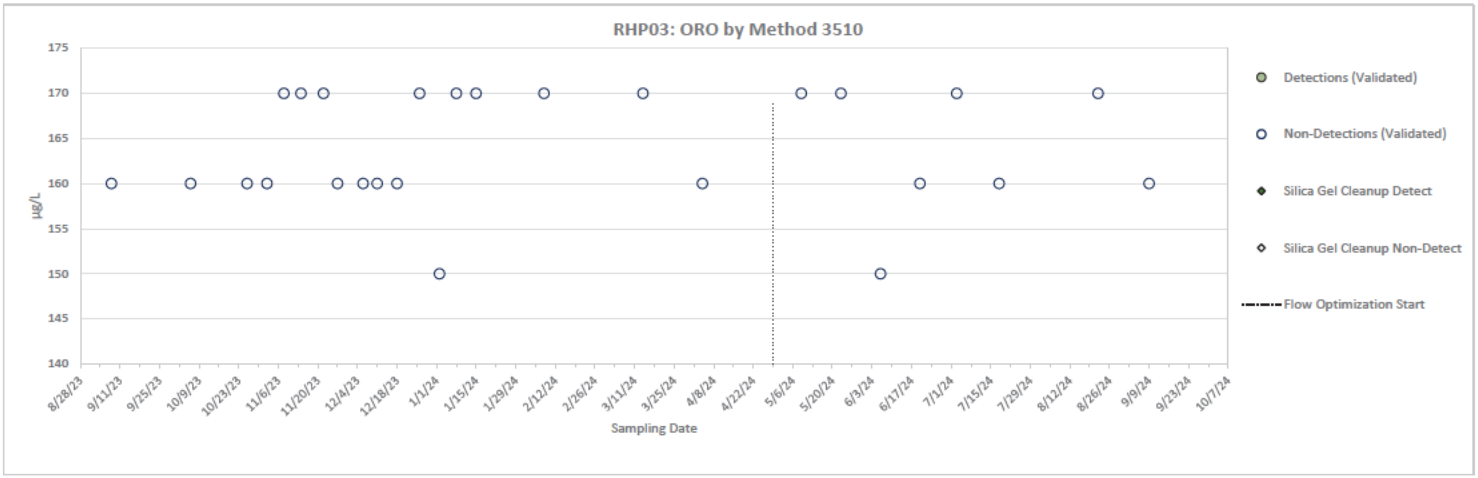


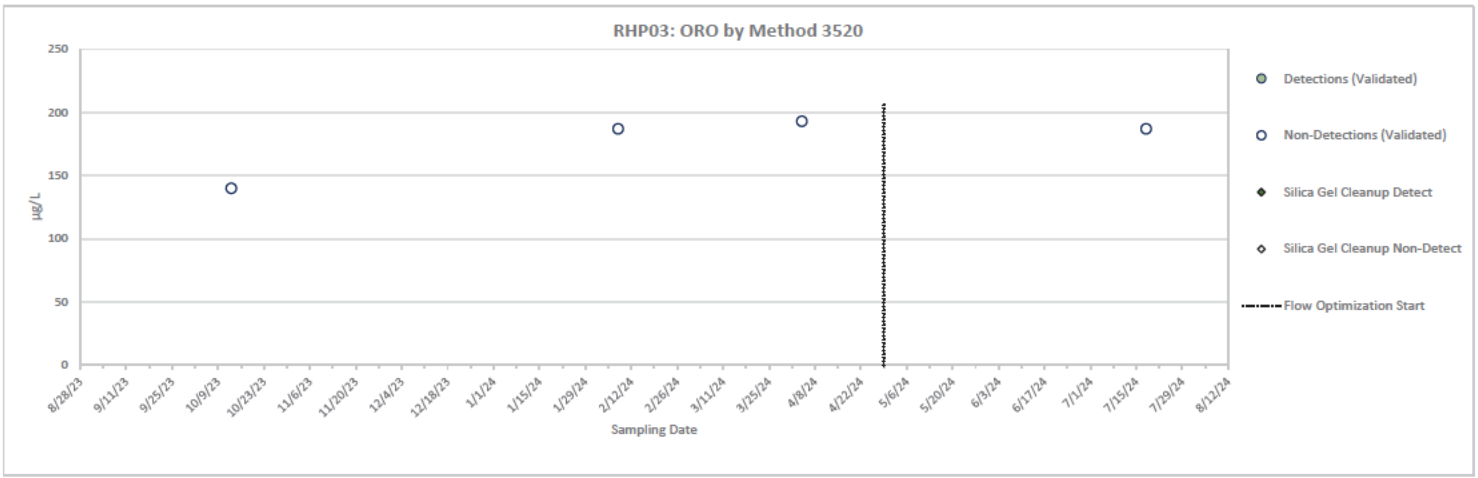
Note: See Data Legend

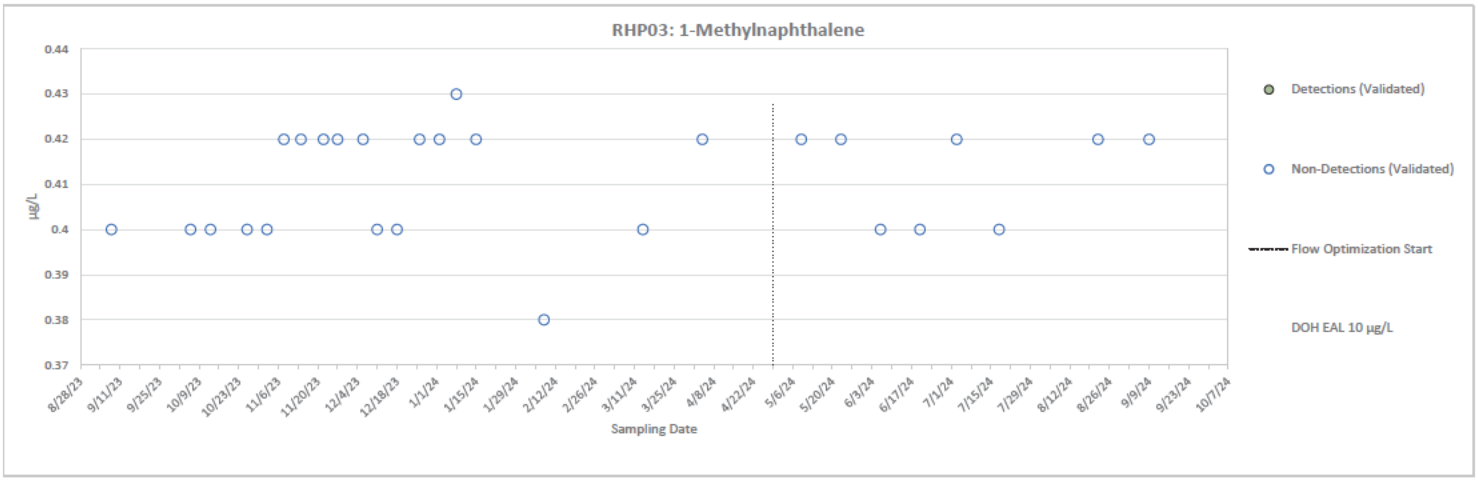

RHP03: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

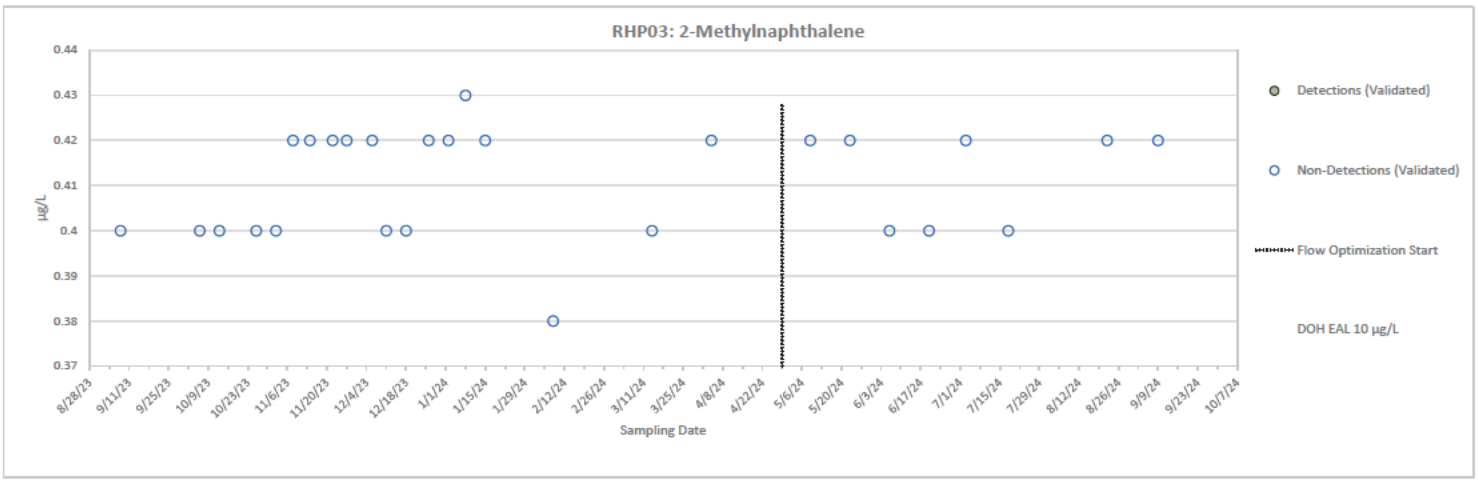

RHP03: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

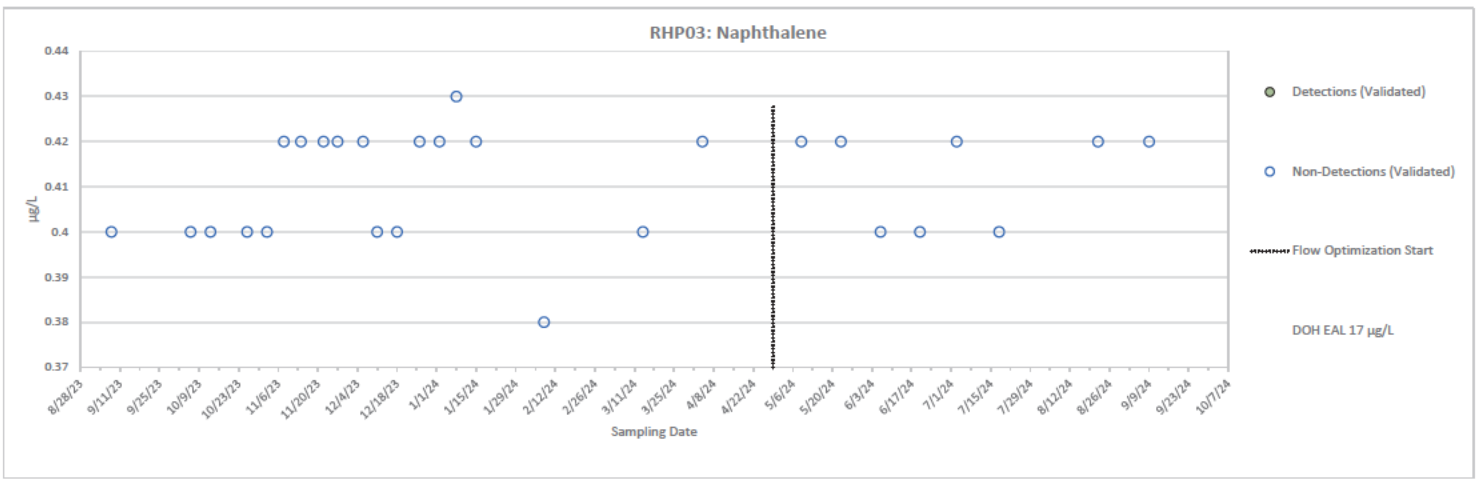

RHP03: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP03: ORO by Method 3510
175
170
165
160
155
150
145
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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

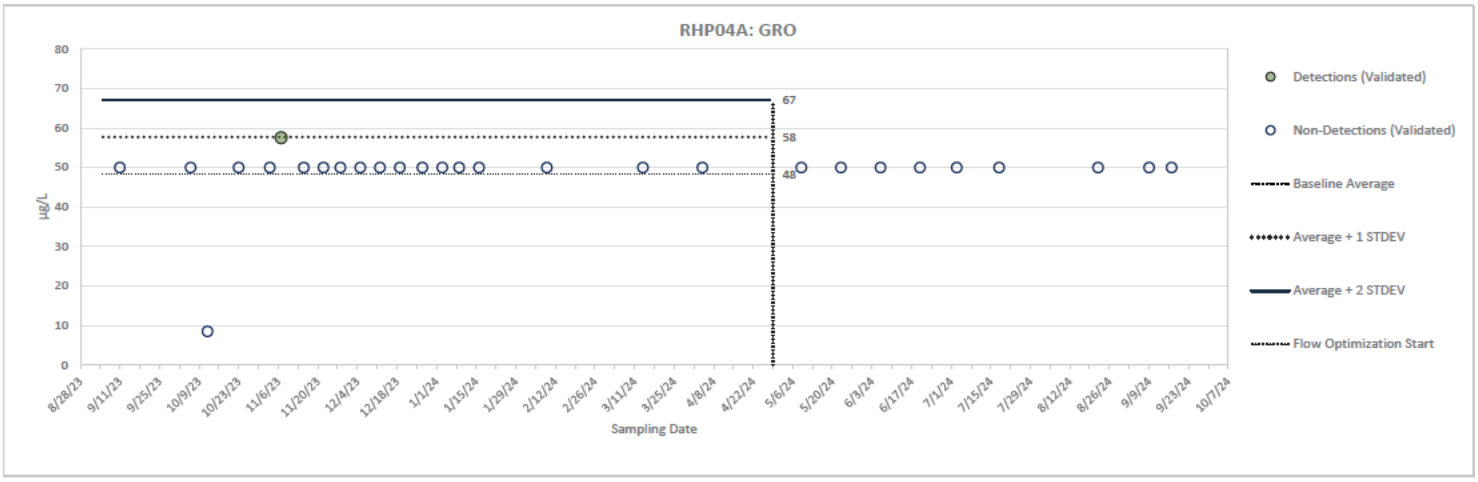

RHP03: ORO by Method 3520
250
200
150
100
50
0
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

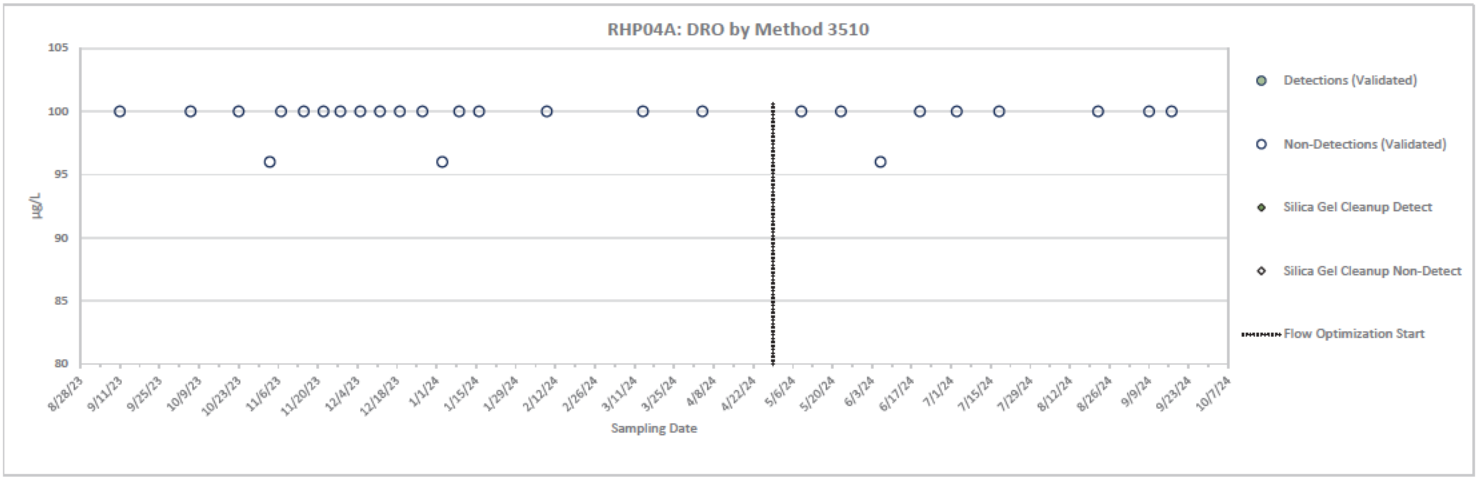


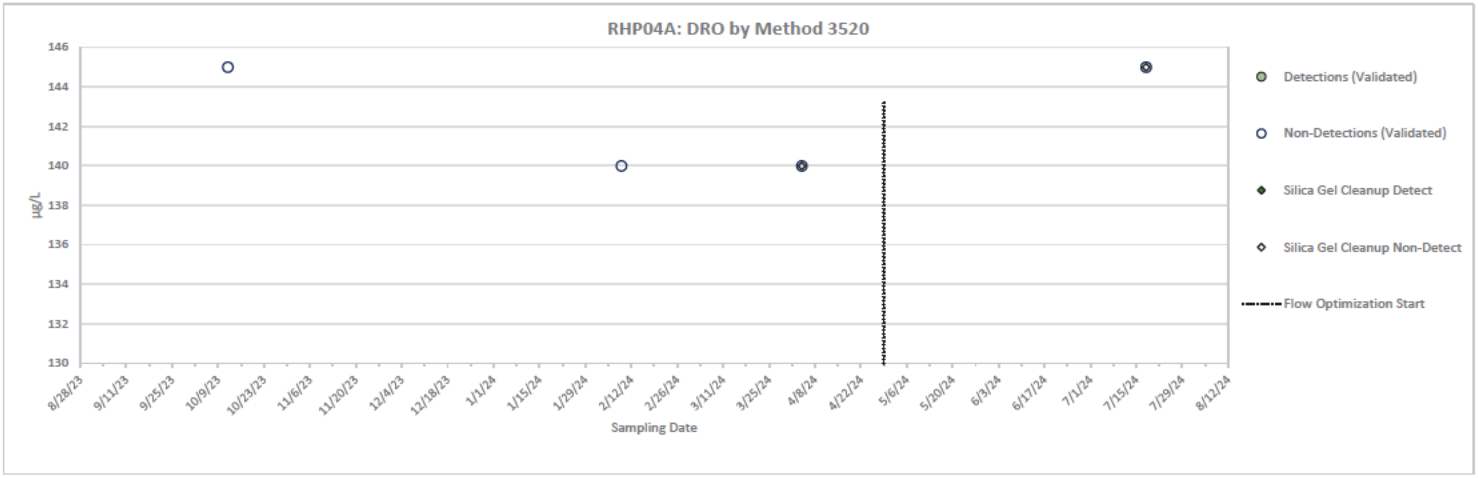


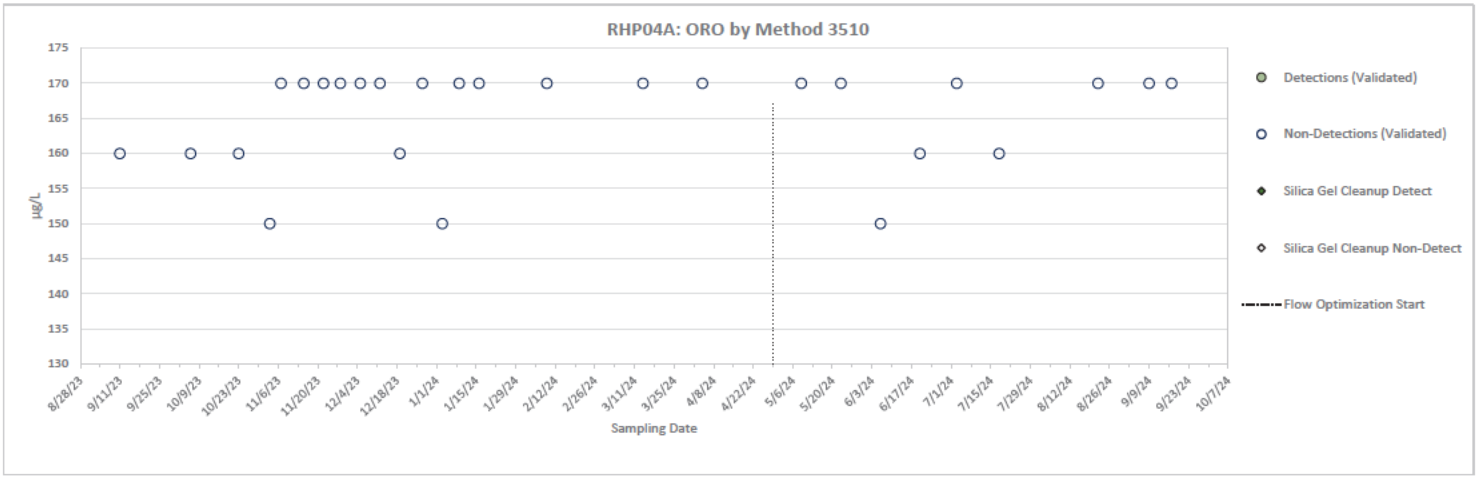


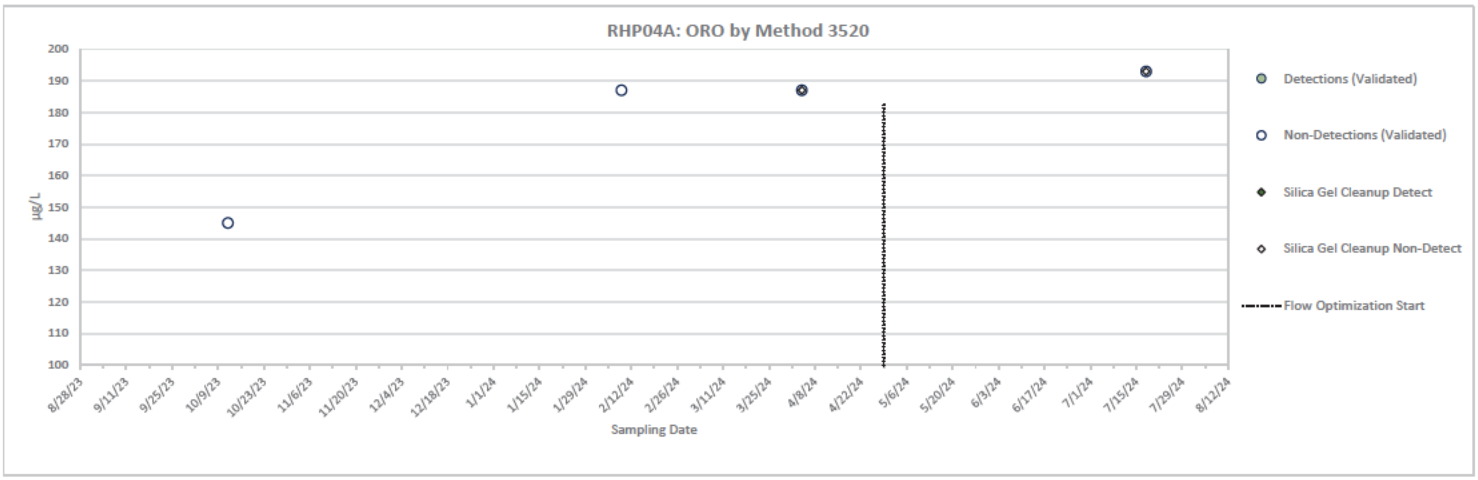
Note: See Data Legend

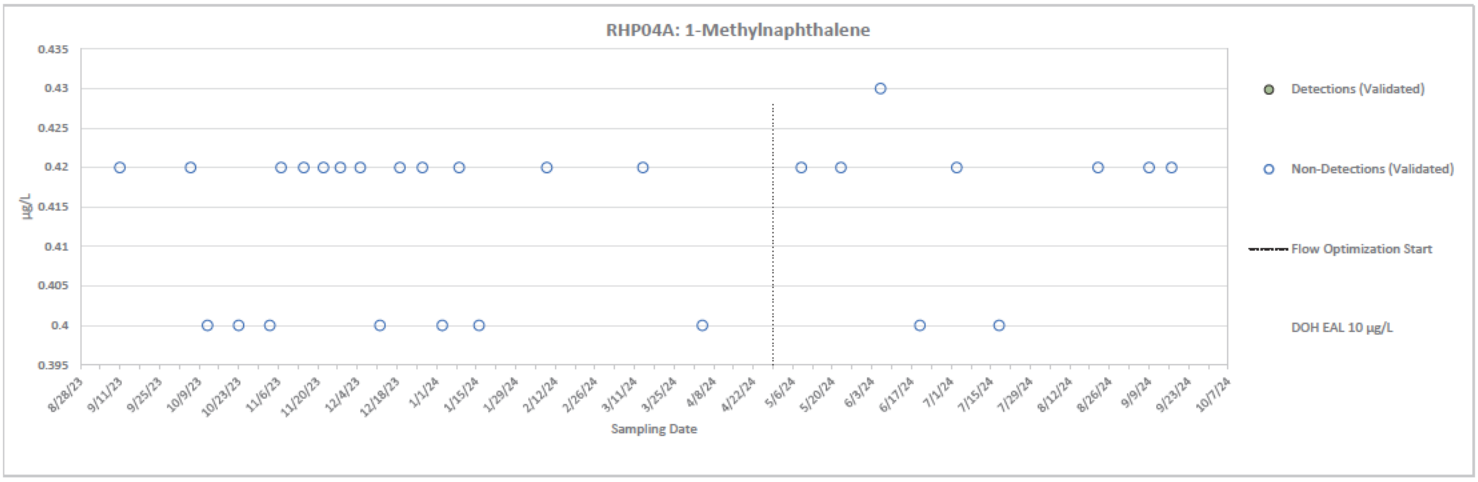

RHP04A: GRO
µg/L
Sampling Date
67
58
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

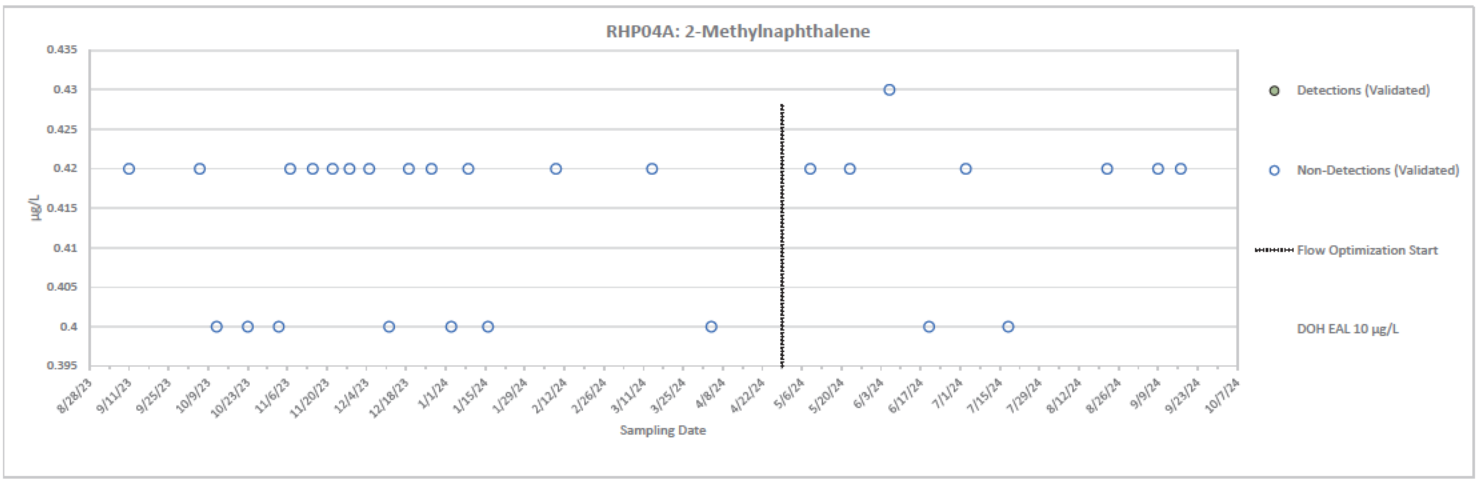

RHP04A: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

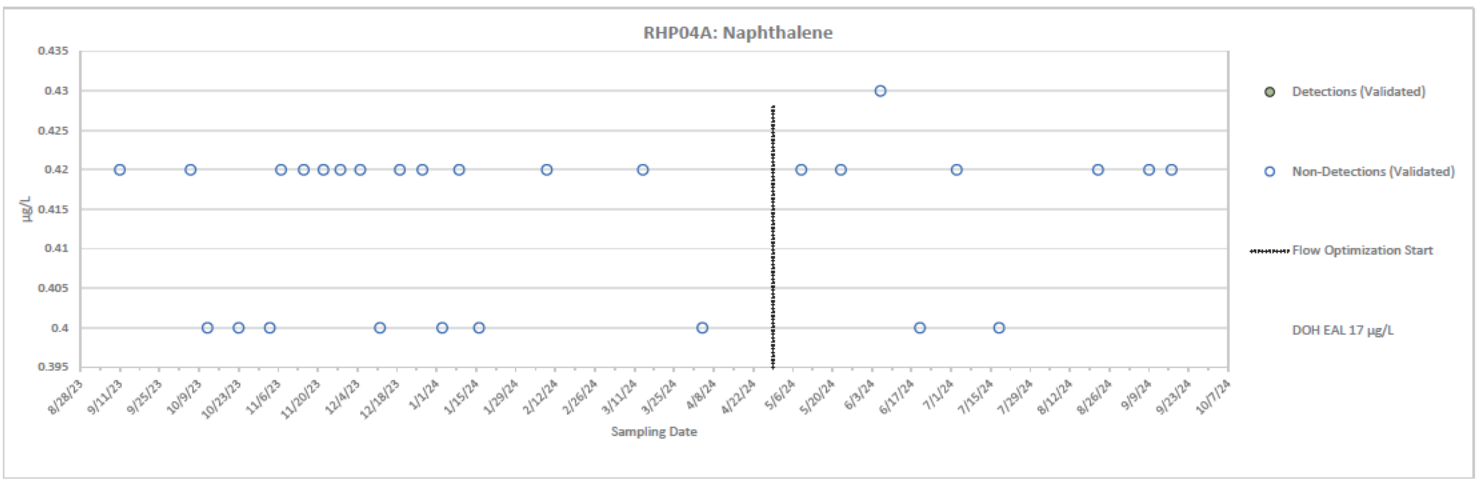

RHP04A: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

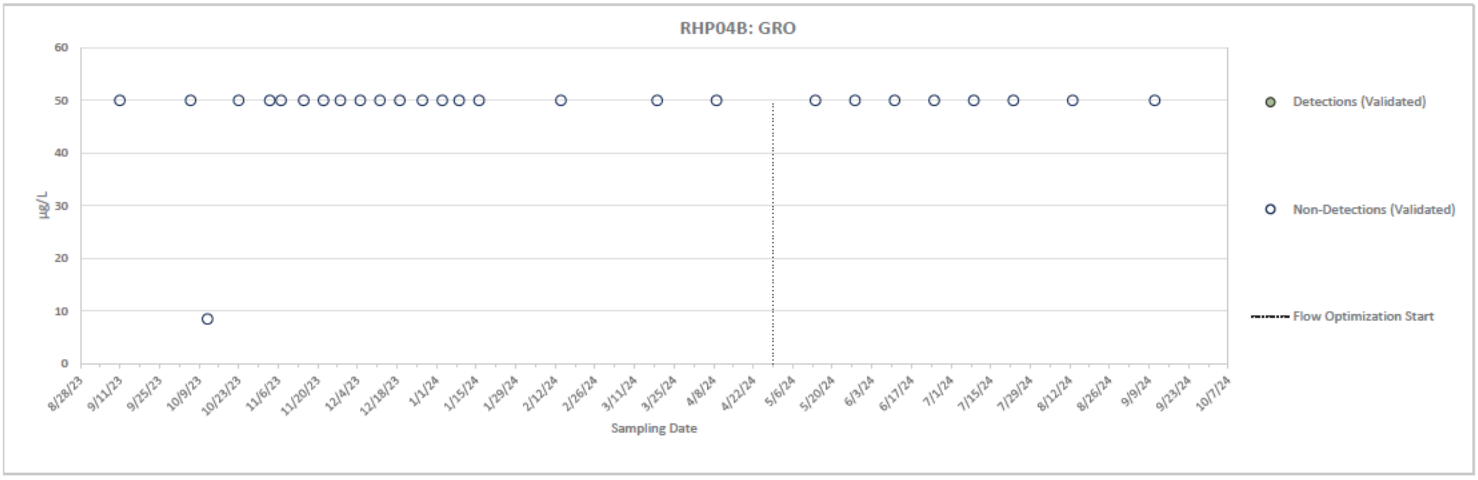

RHP04A: ORO by Method 3520
µg/L
200
190
180
170
160
150
140
130
120
110
100
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

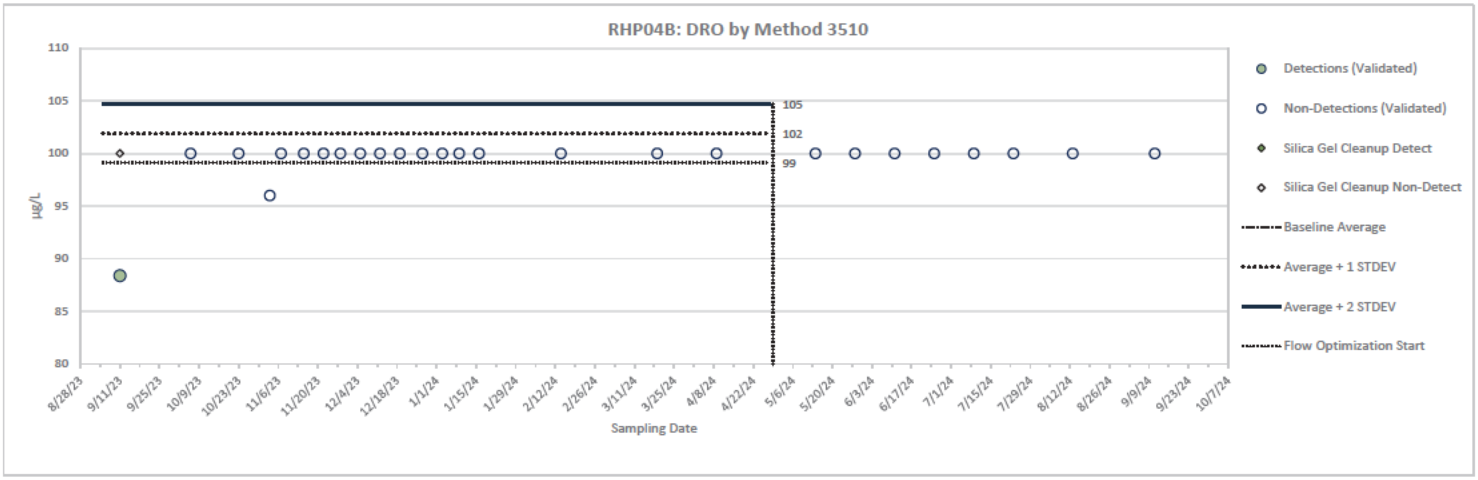


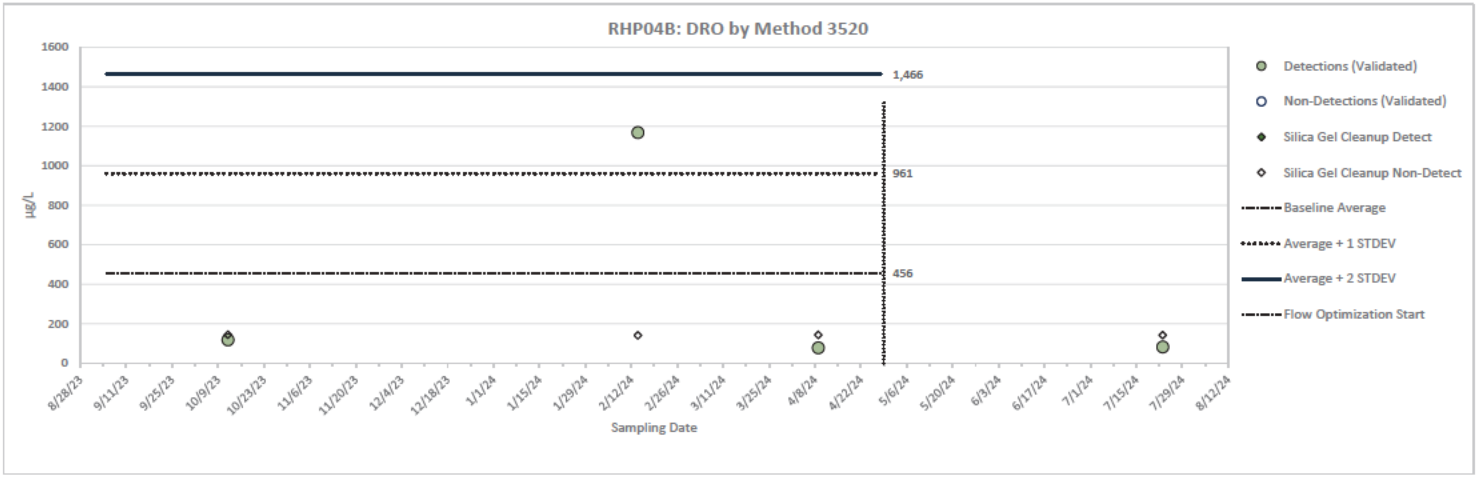


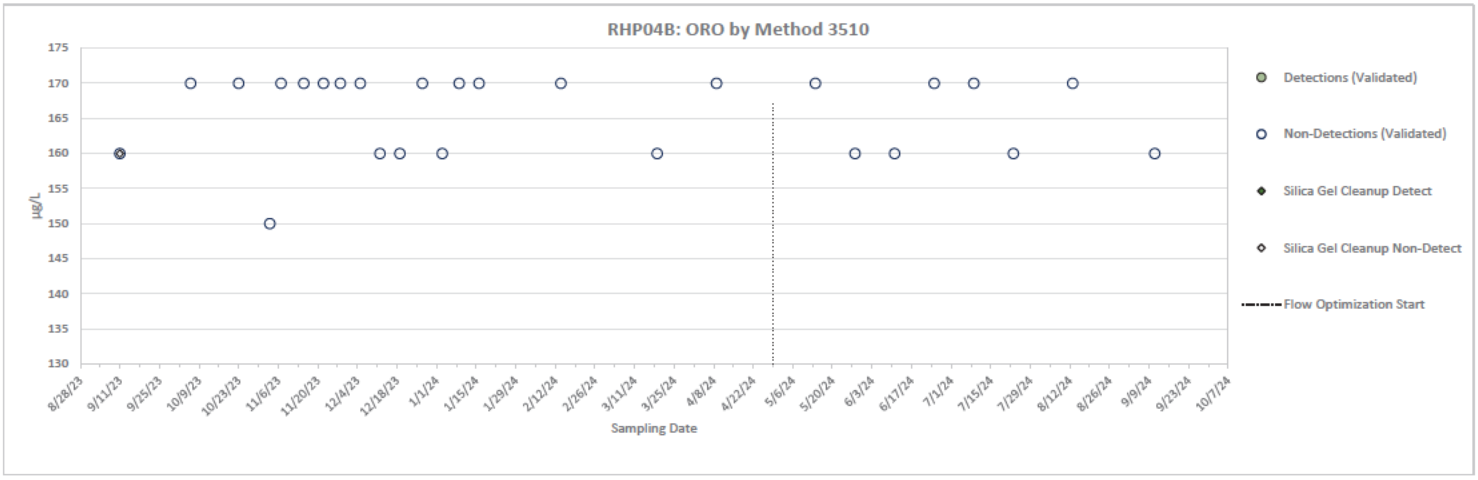


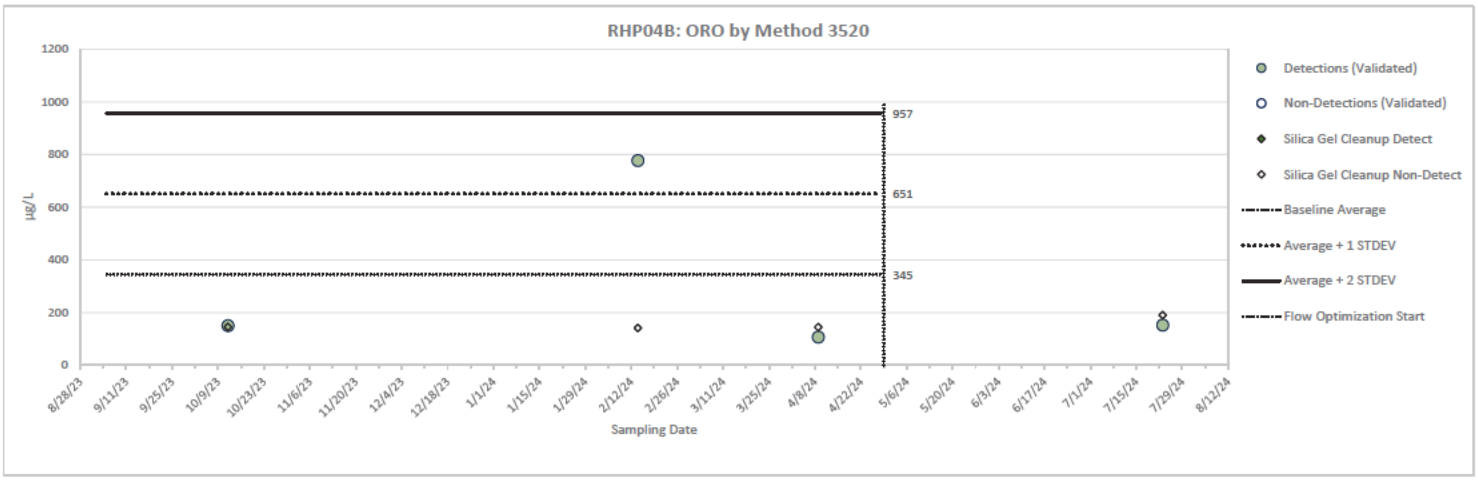
Note: See Data Legend

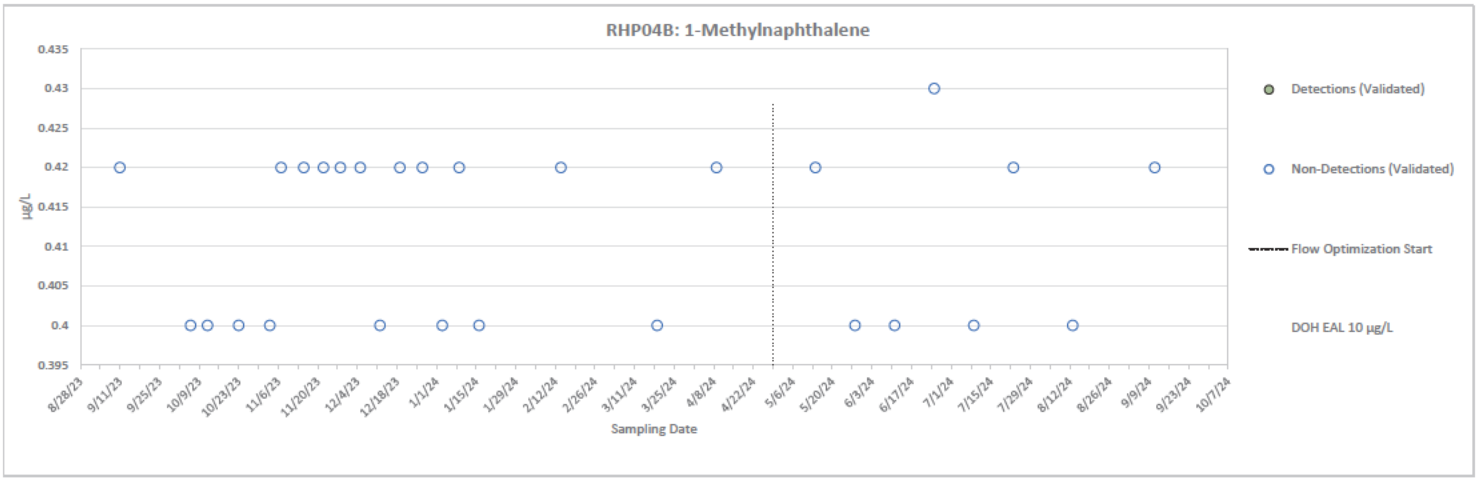

RHP04B: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

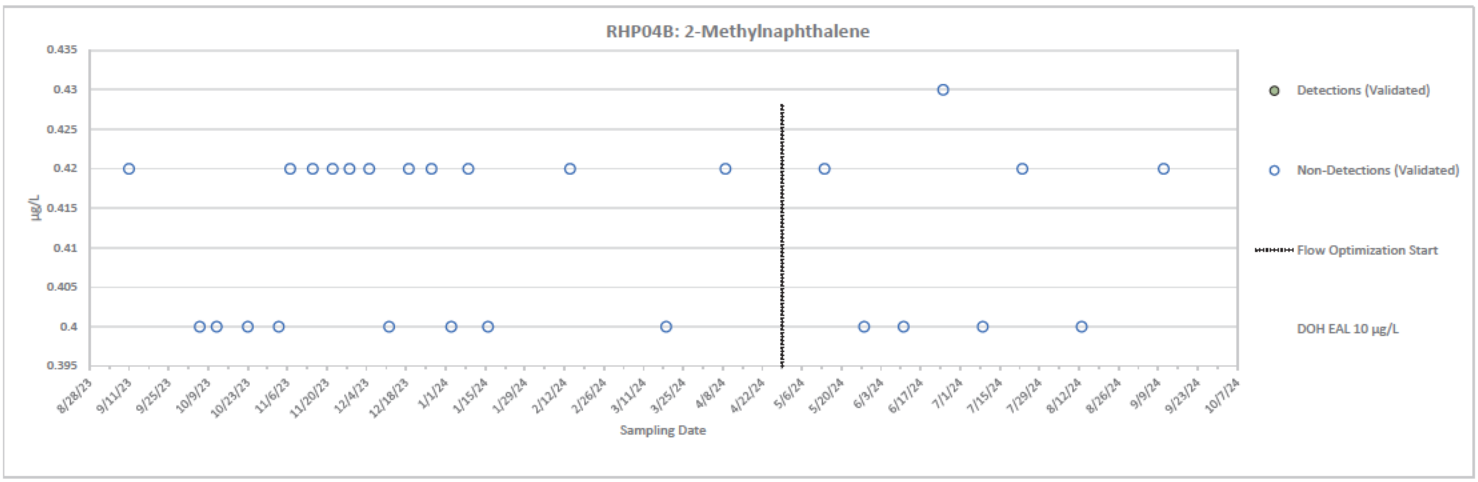

RHP04B: DRO by Method 3510
µg/L
Sampling Date
105
102
99
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

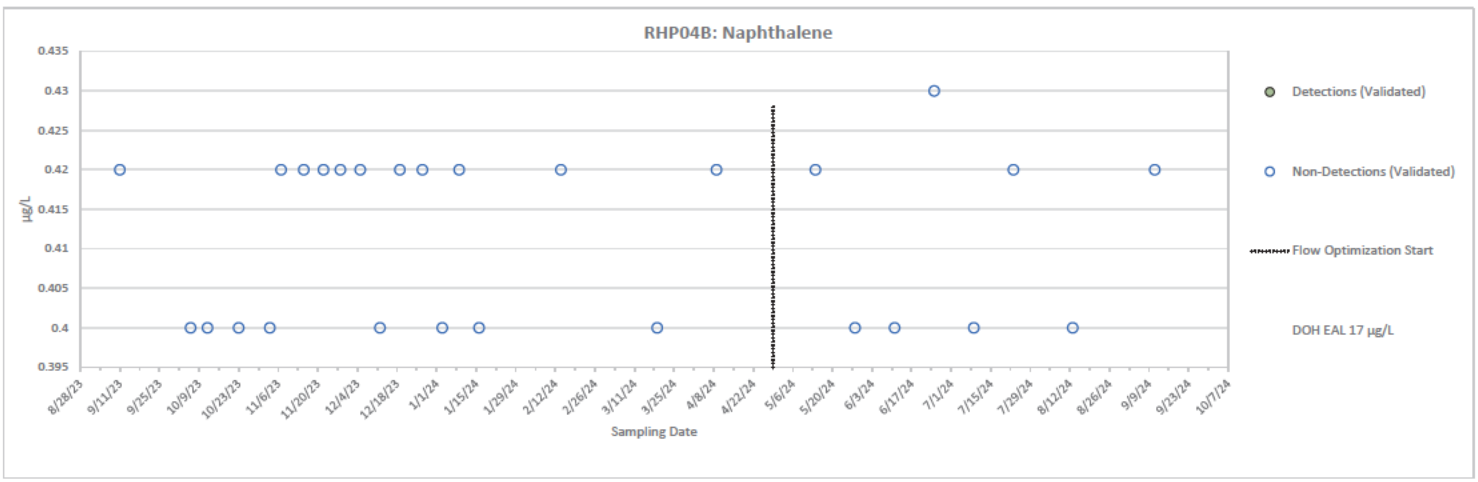

RHP04B: DRO by Method 3520
µg/L
Sampling Date
1,466
961
456
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

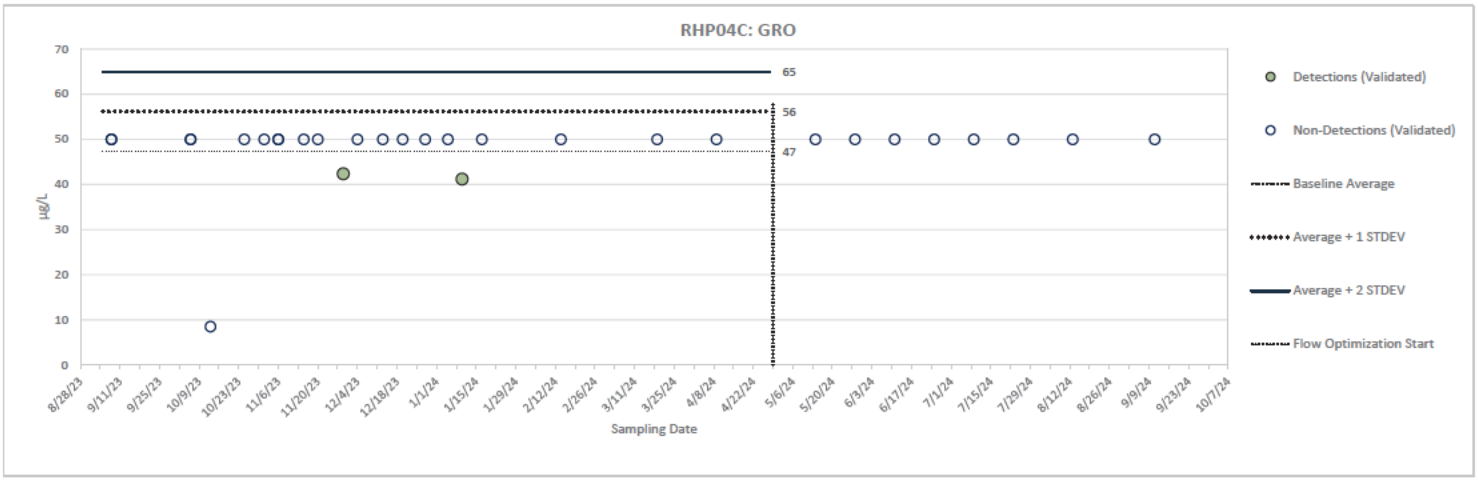

RHP04B: ORO by Method 3520
µg/L
1200
1000
800
600
400
200
0
957
651
345
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

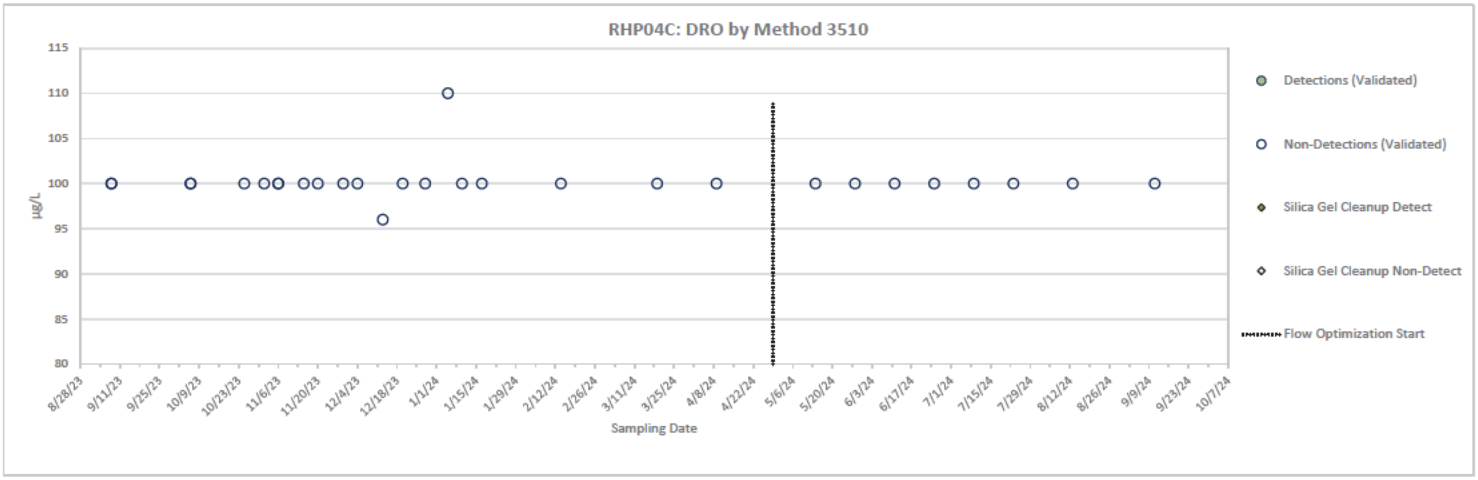


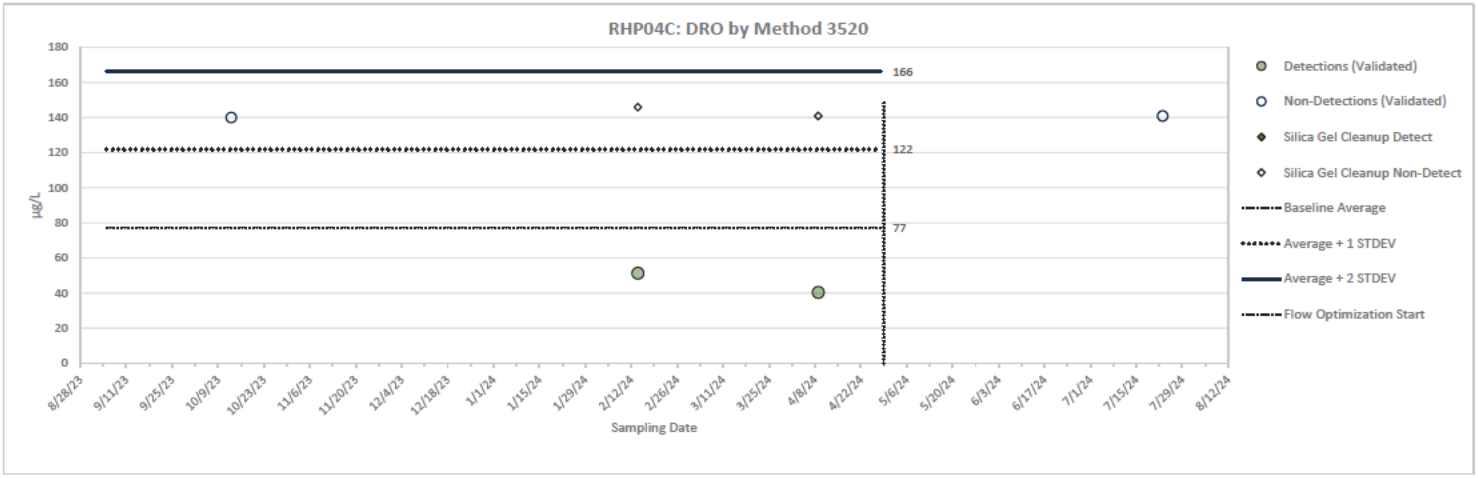


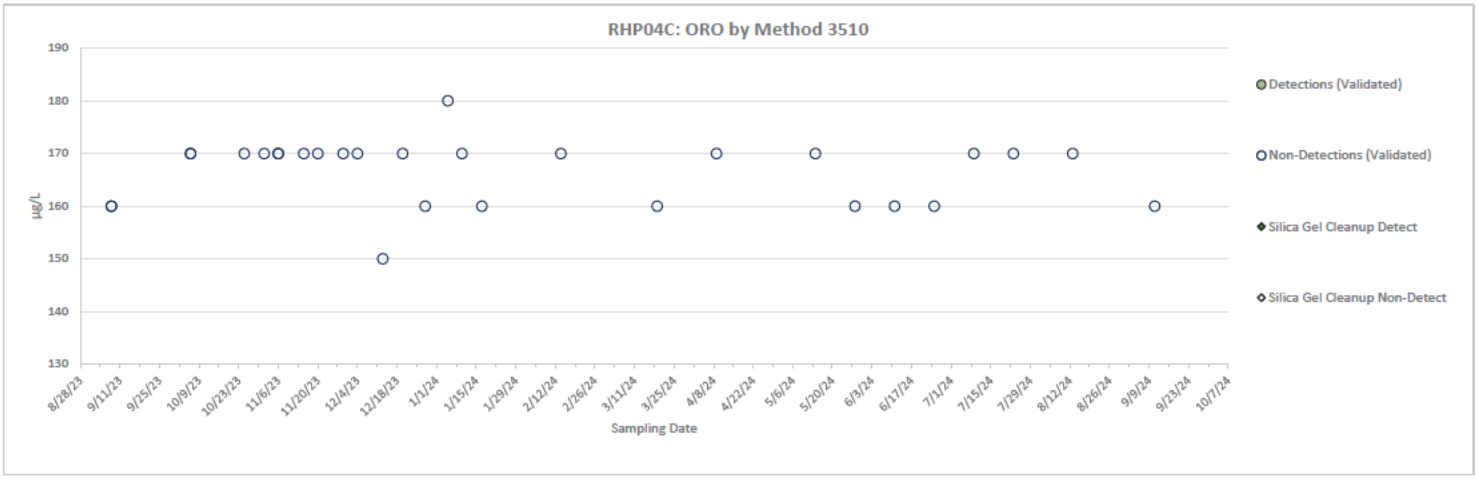


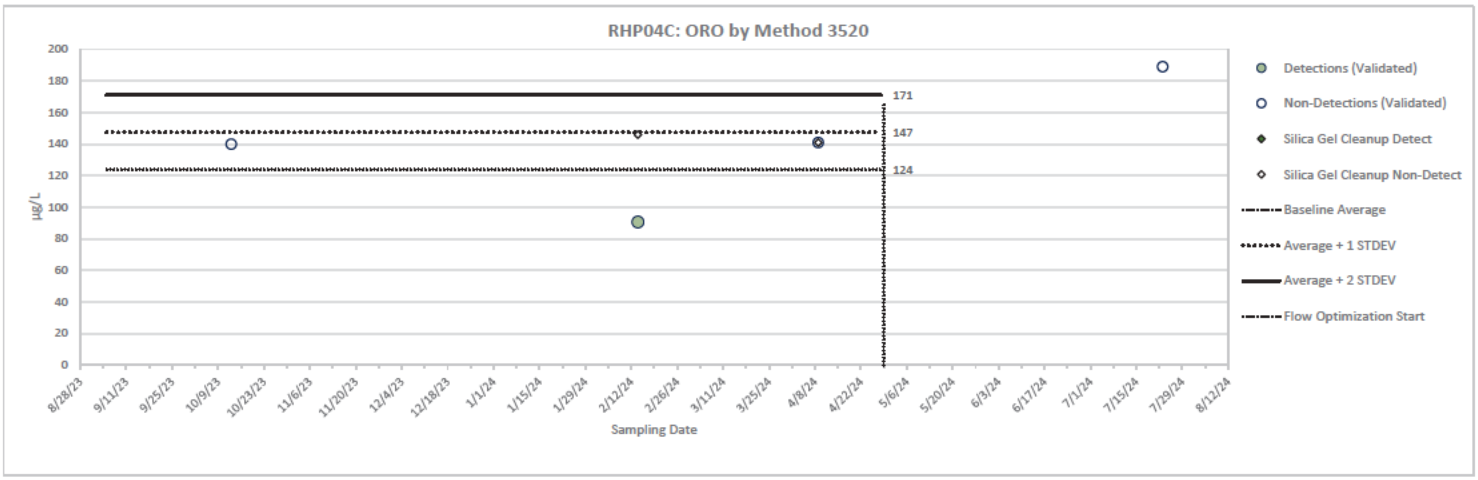
Note: See Data Legend

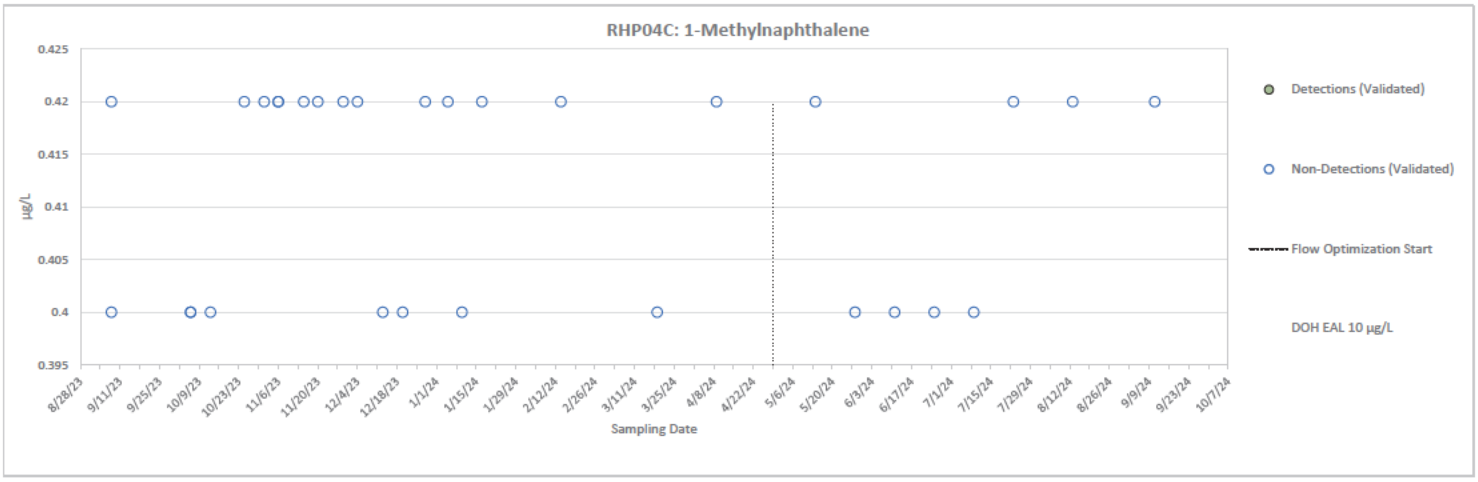

RHP04C: GRO
µg/L
Sampling Date
65
56
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

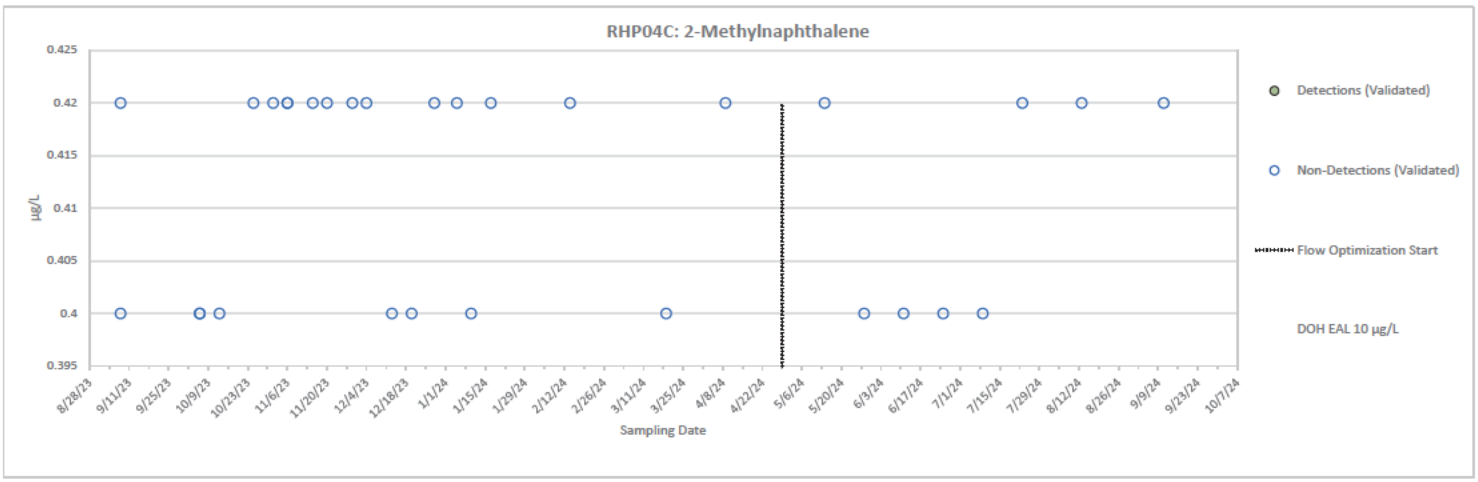

RHP04C: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

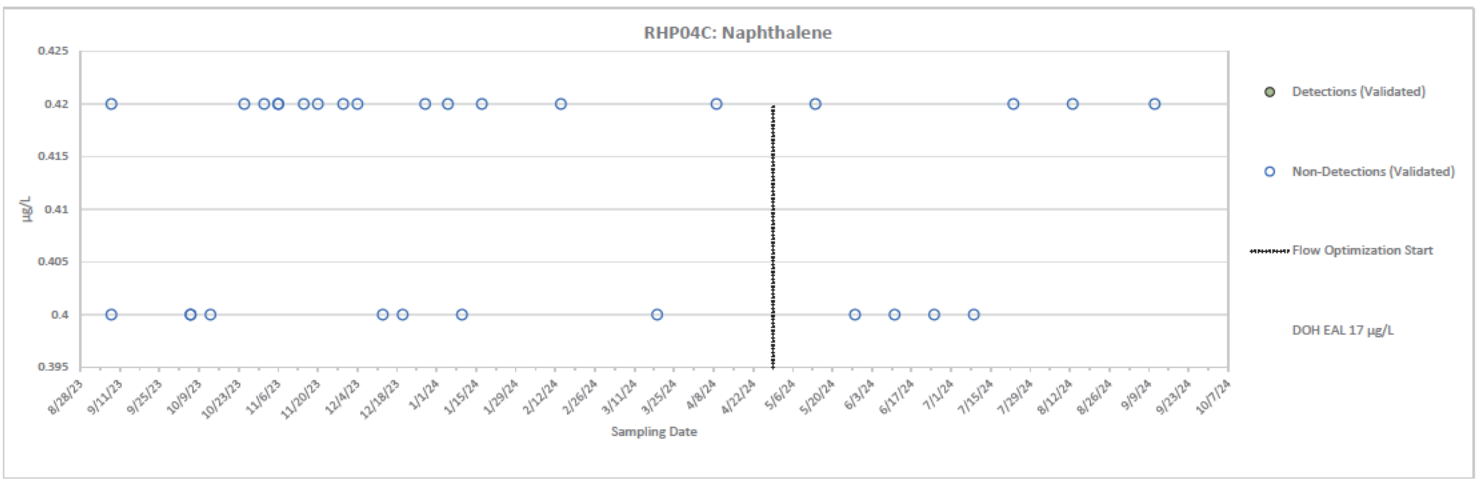

RHP04C: DRO by Method 3520
µg/L
Sampling Date
166
122
77
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start


RHP04C: ORO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

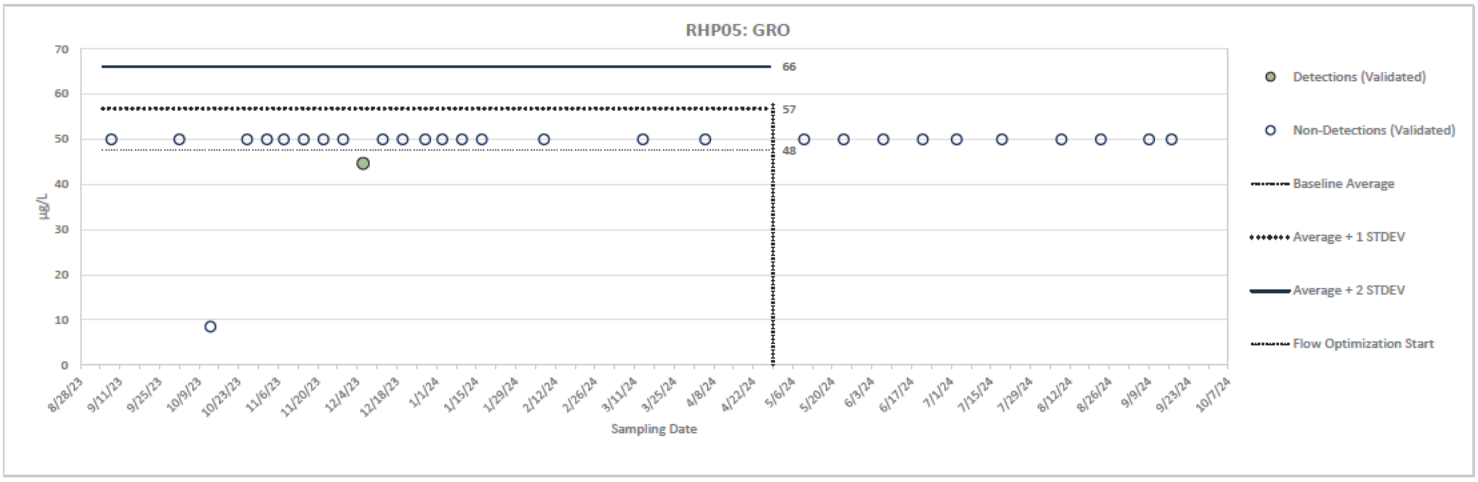

RHP04C: ORO by Method 3520
µg/L
Sampling Date
171
147
124
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

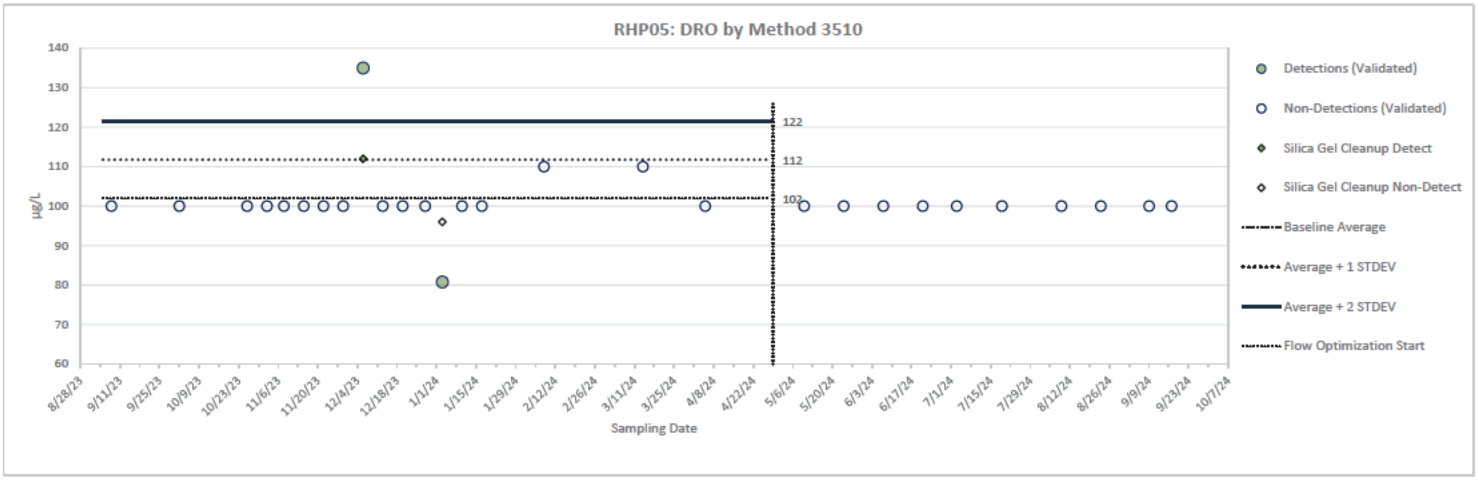


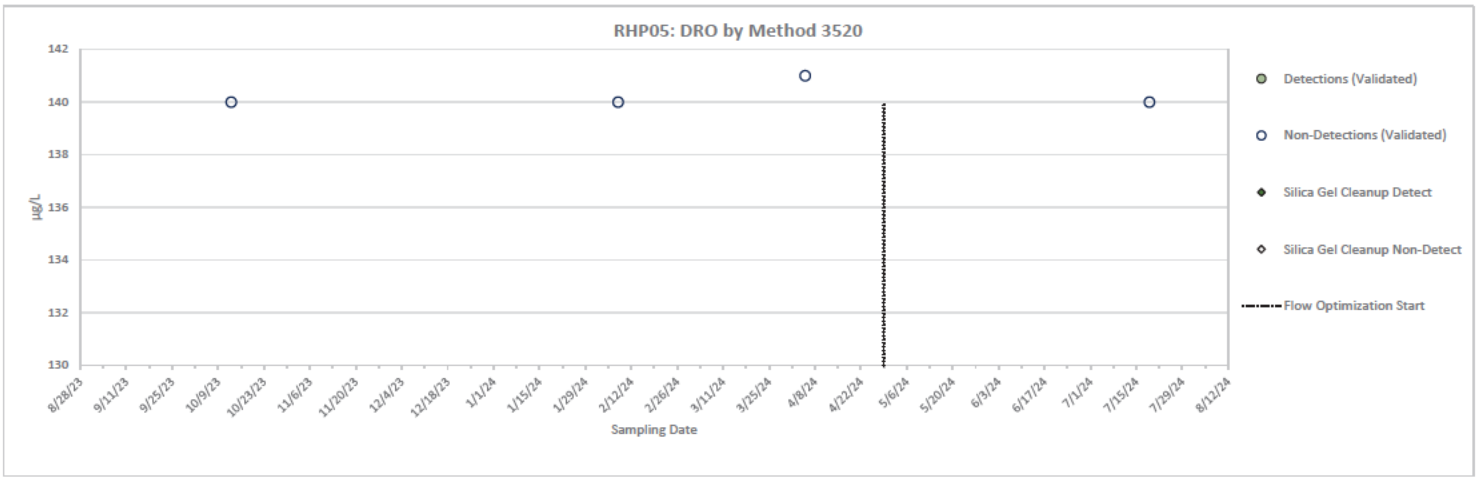


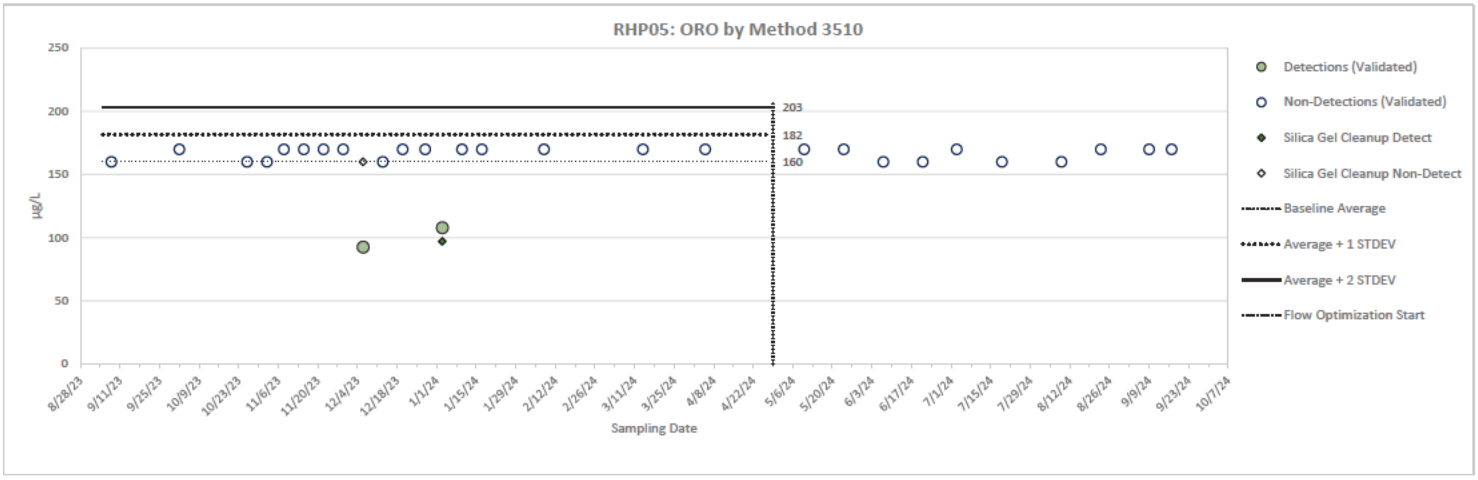


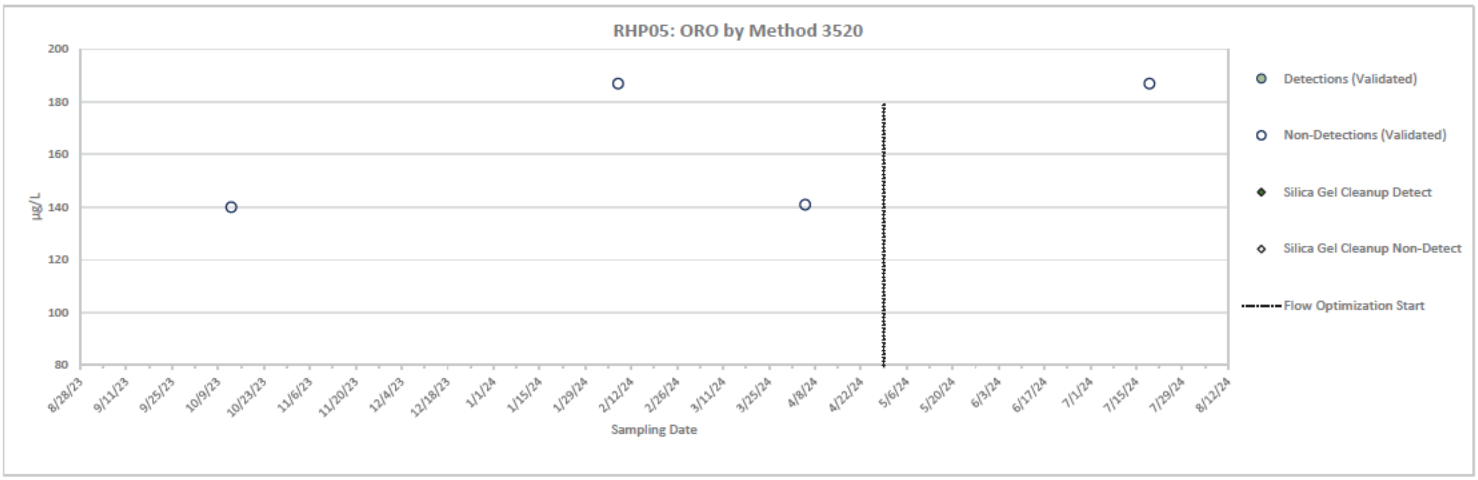
Note: See Data Legend

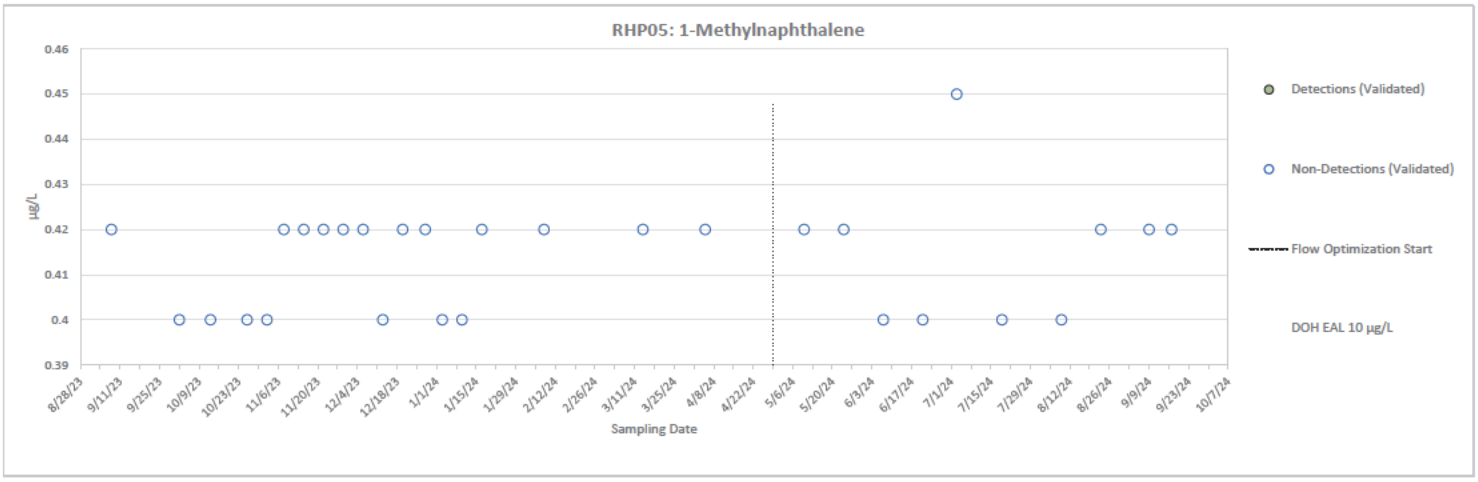

RHP05: GRO
µg/L
Sampling Date
66
57
48
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

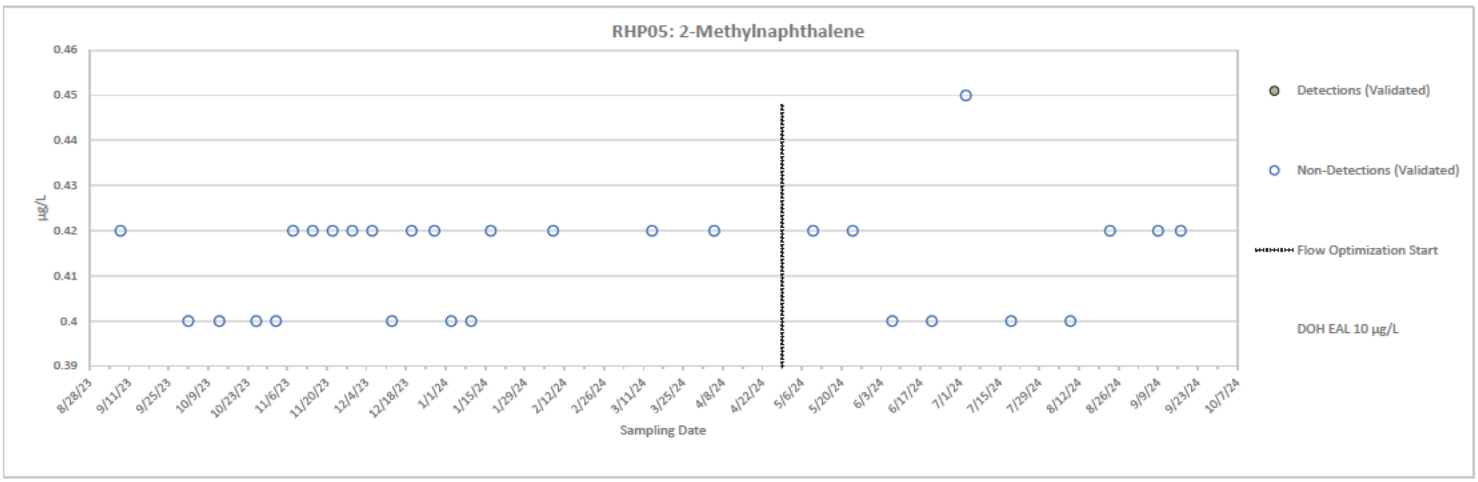

RHP05: DRO by Method 3510
µg/L
Sampling Date
122
112
102
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

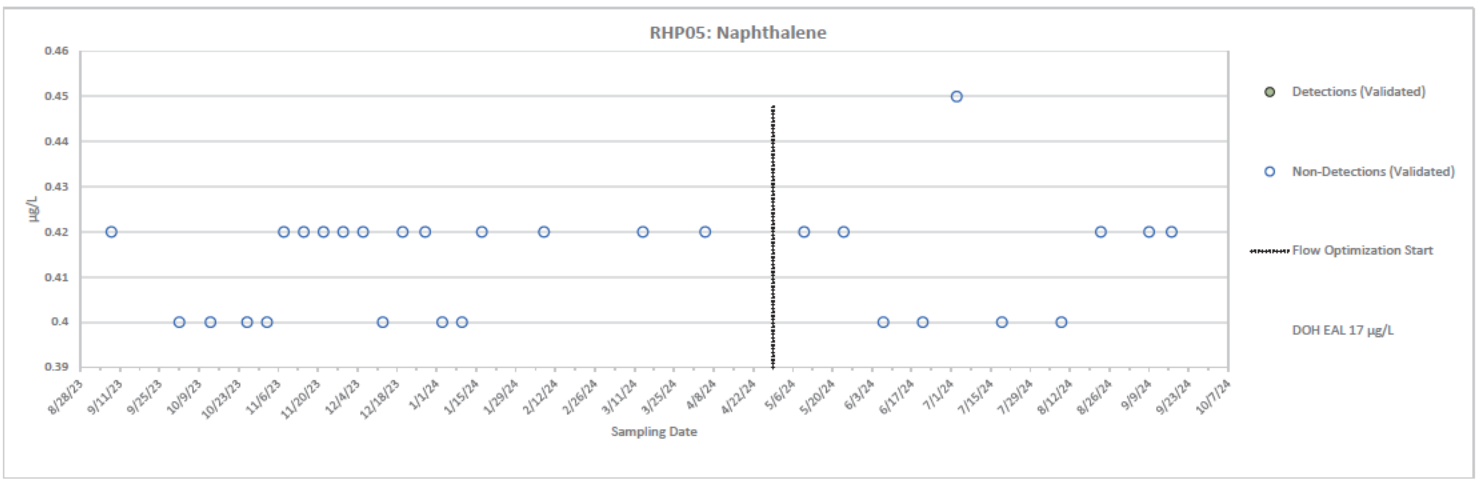

RHP05: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP05: ORO by Method 3510
250
200
150
100
50
0
µg/L
203
182
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
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

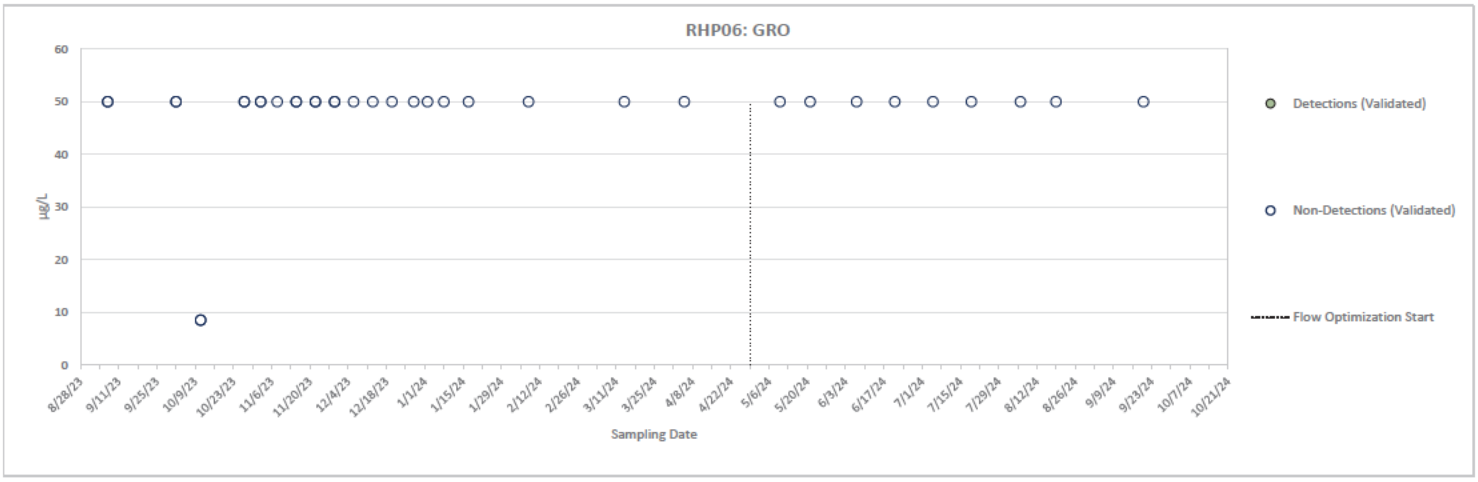

RHP05: ORO by Method 3520
200
180
160
140
120
100
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

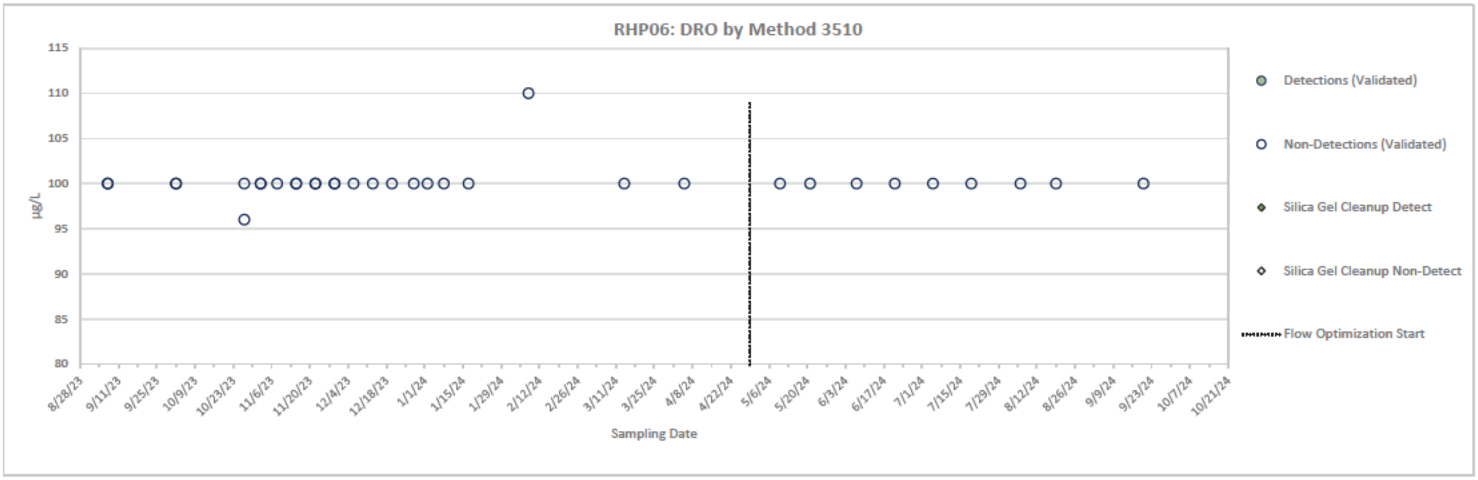


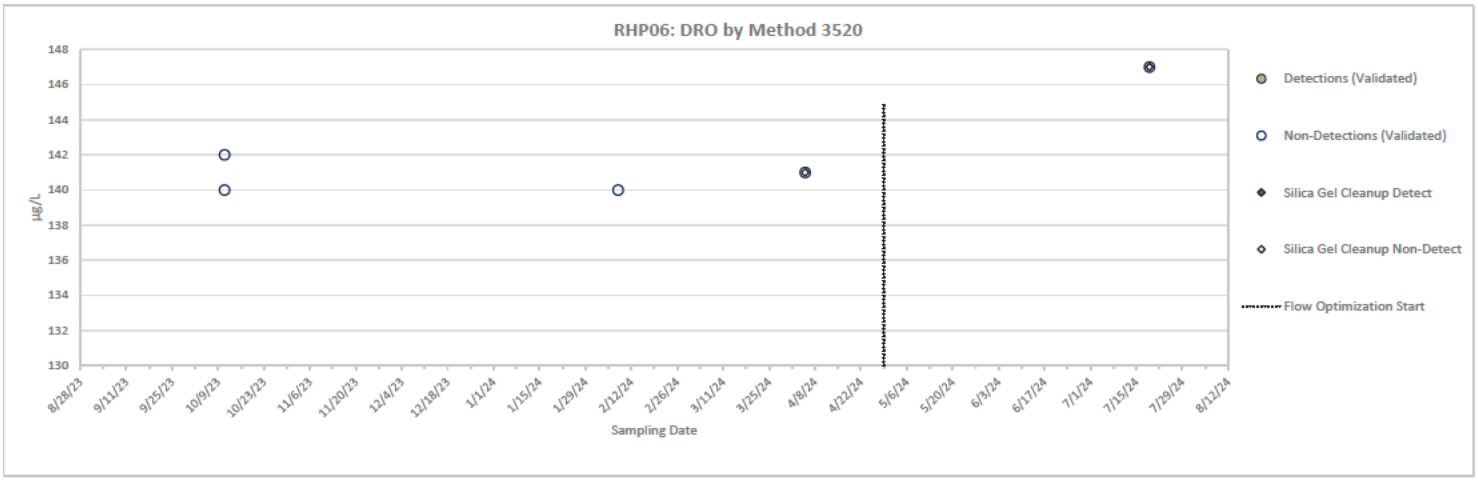


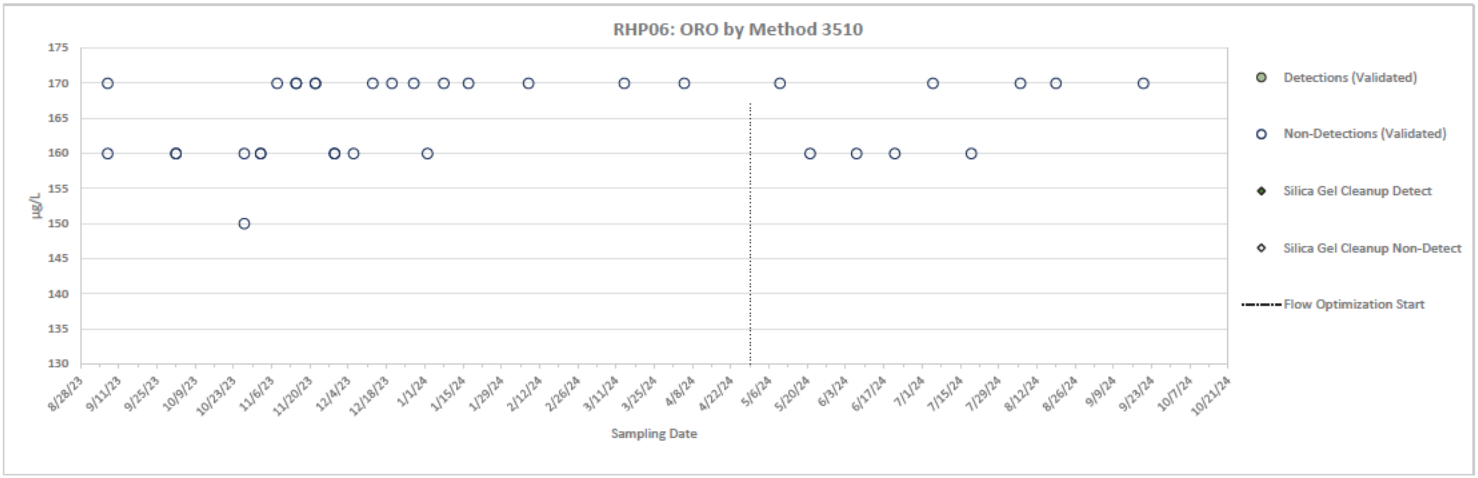


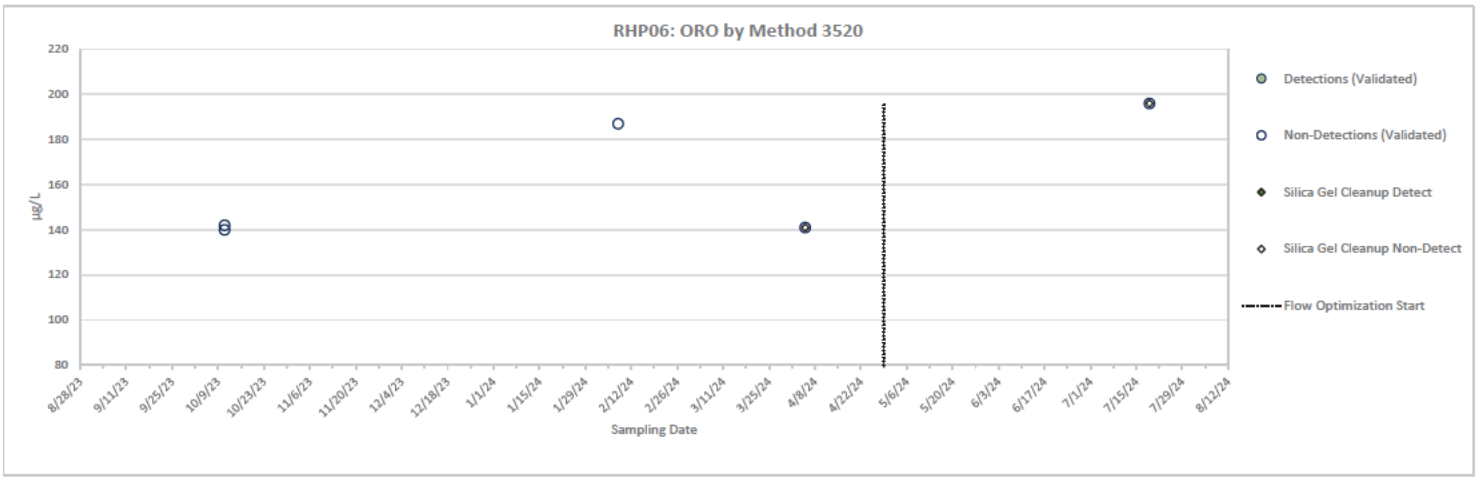
Note: See Data Legend

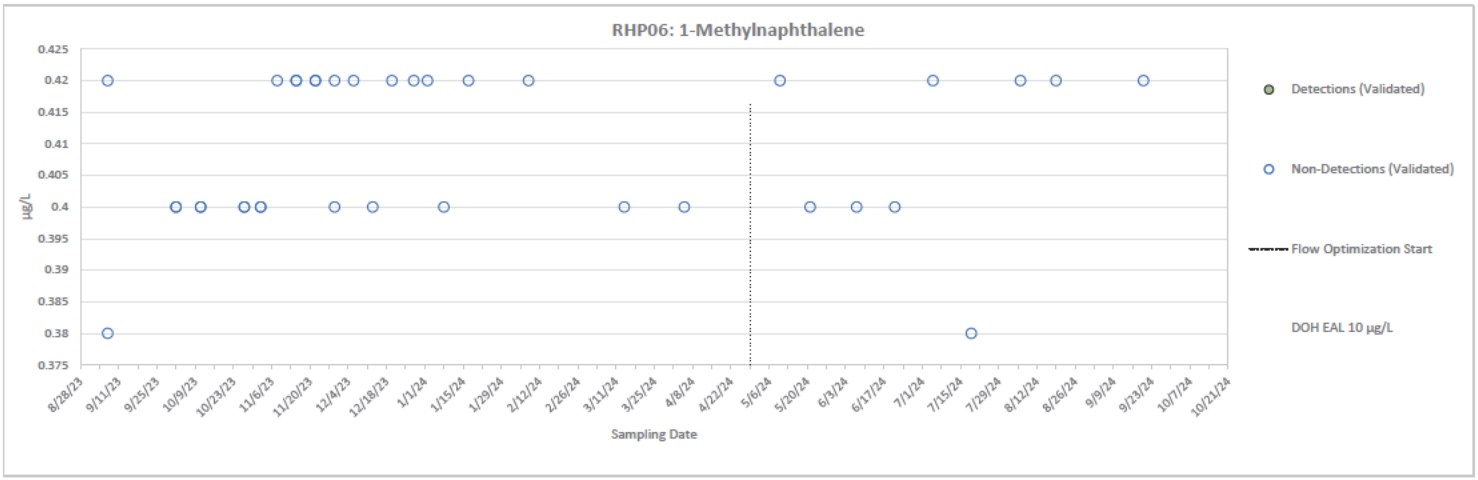

RHP06: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

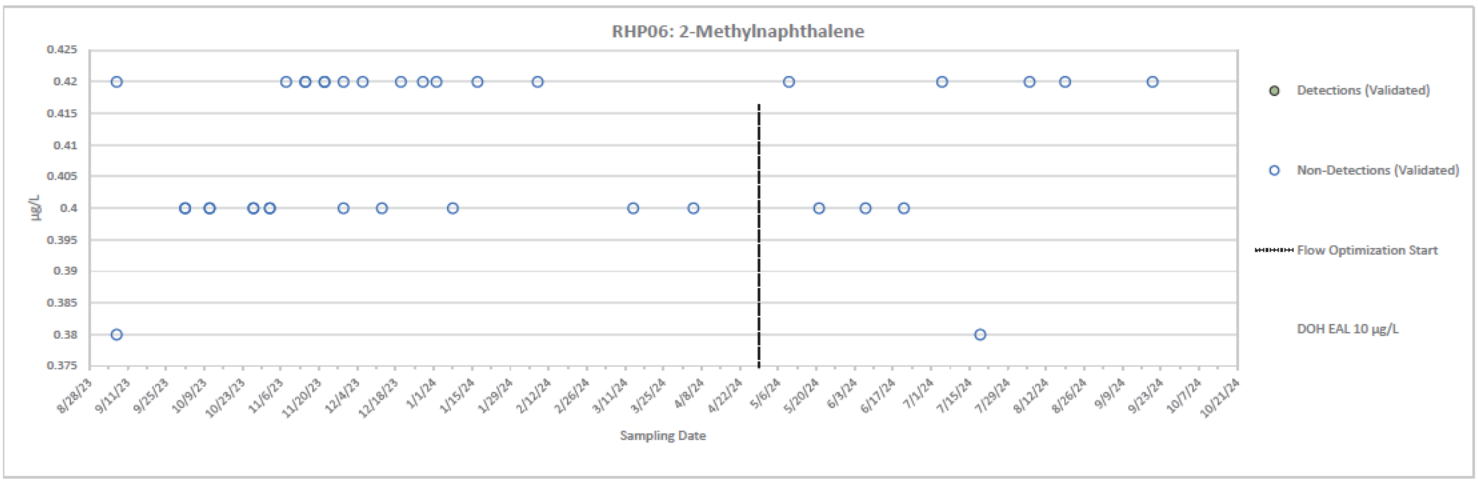

RHP06: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

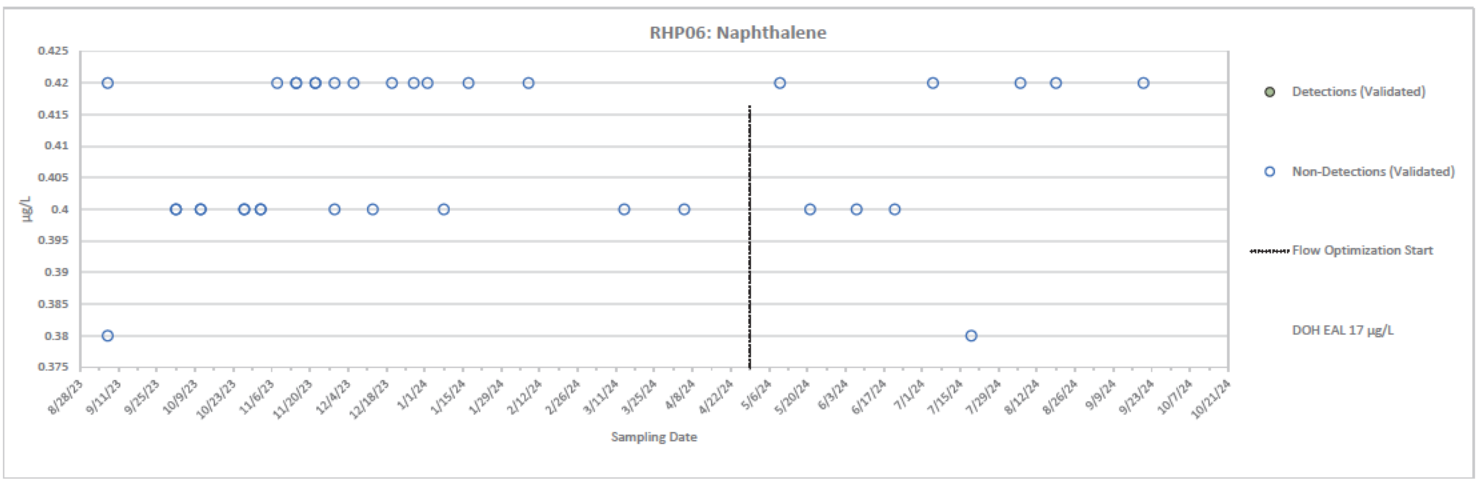

RHP06: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

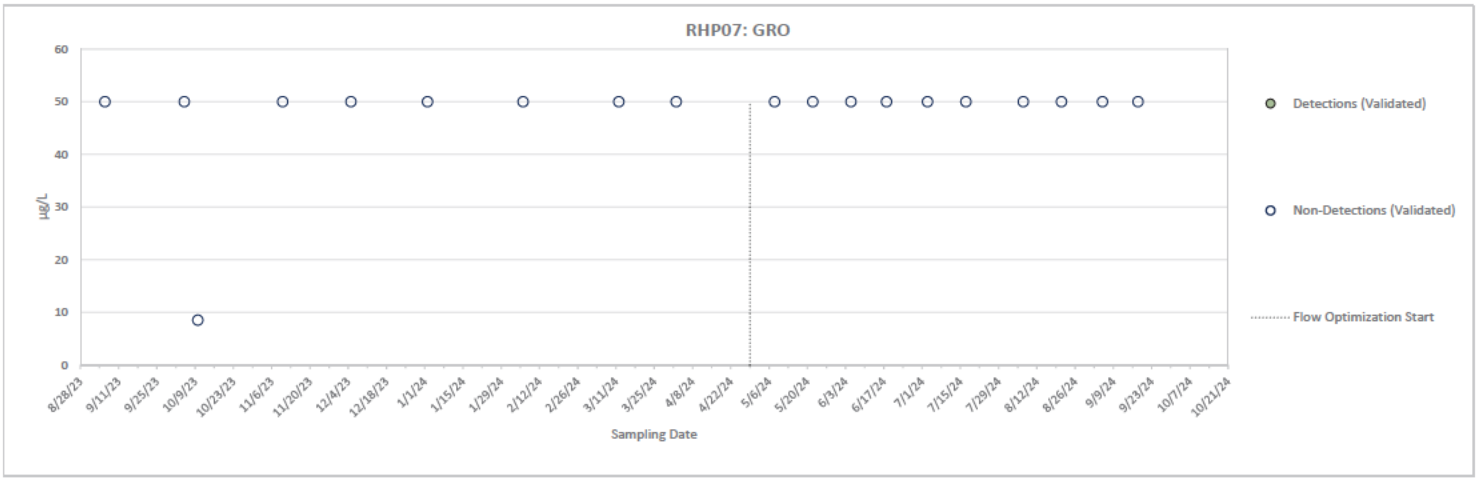

RHP06: ORO by Method 3520
µg/L
220
200
180
160
140
120
100
80
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

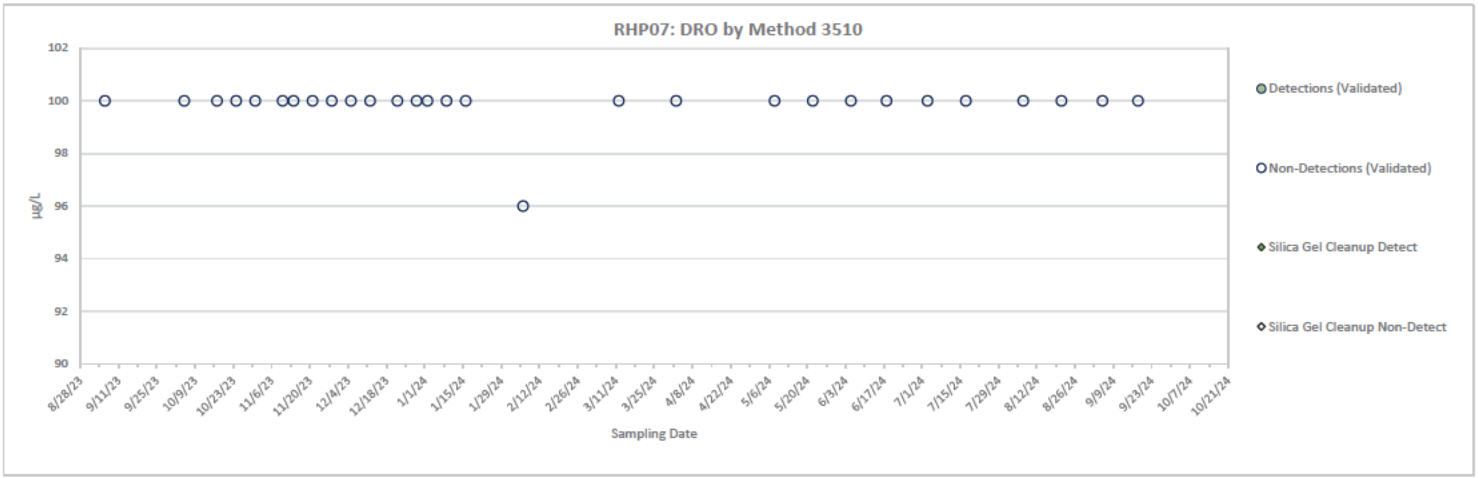


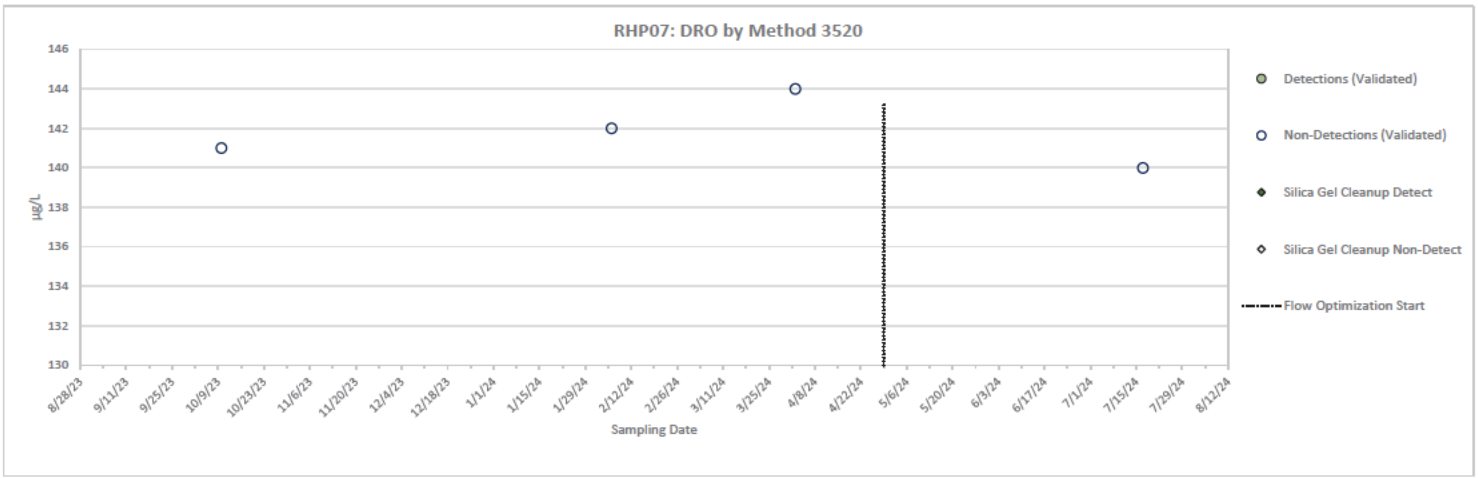


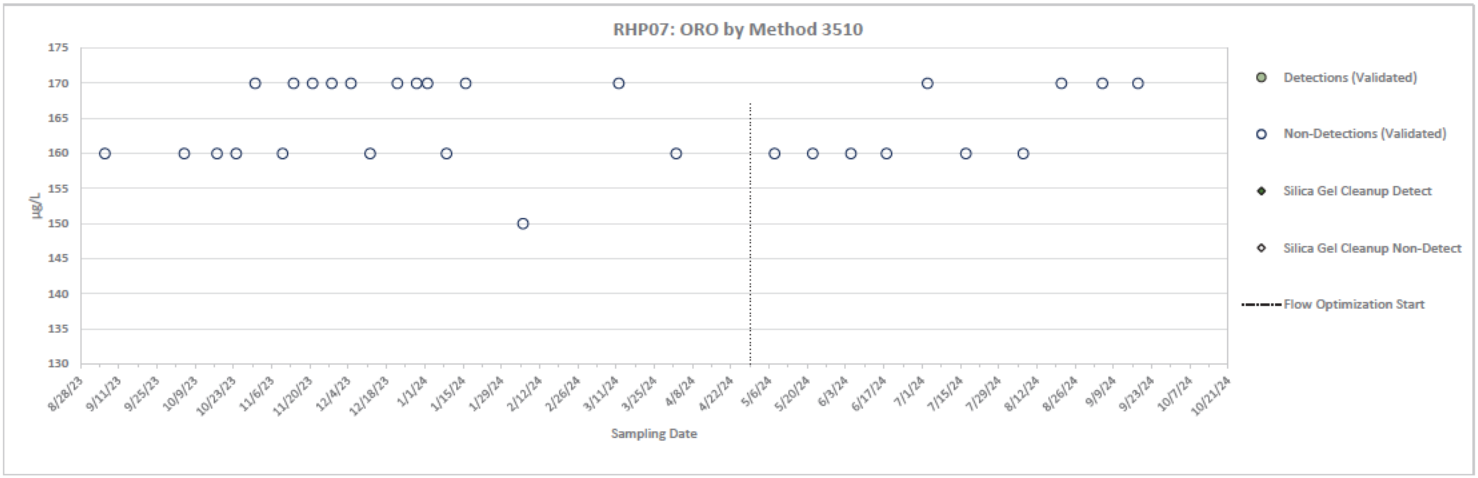


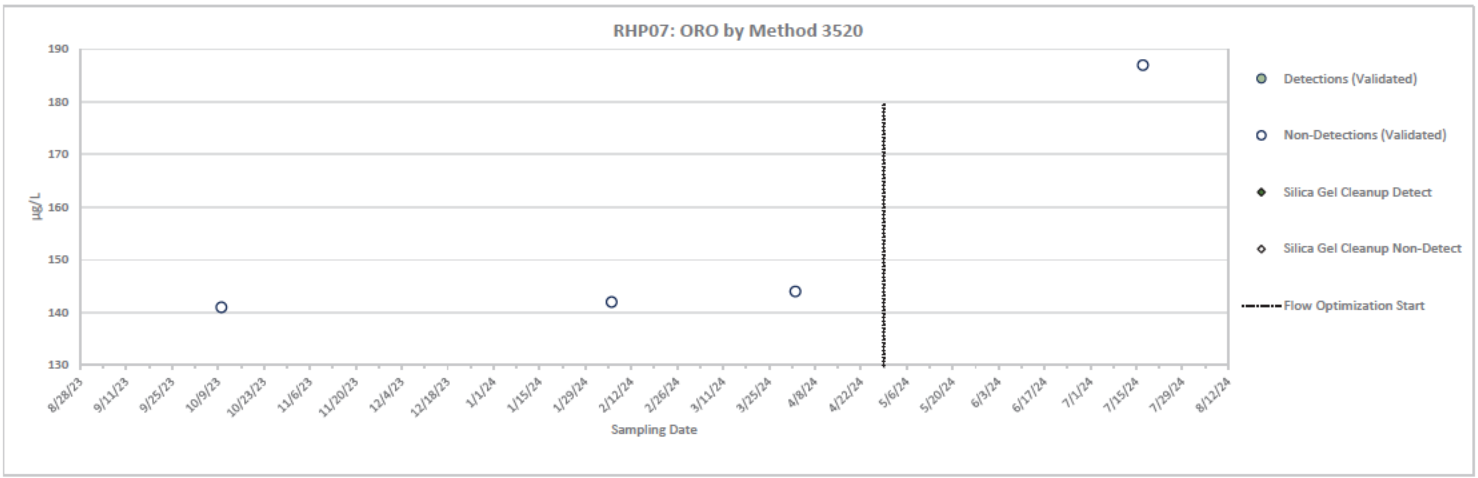
Note: See Data Legend

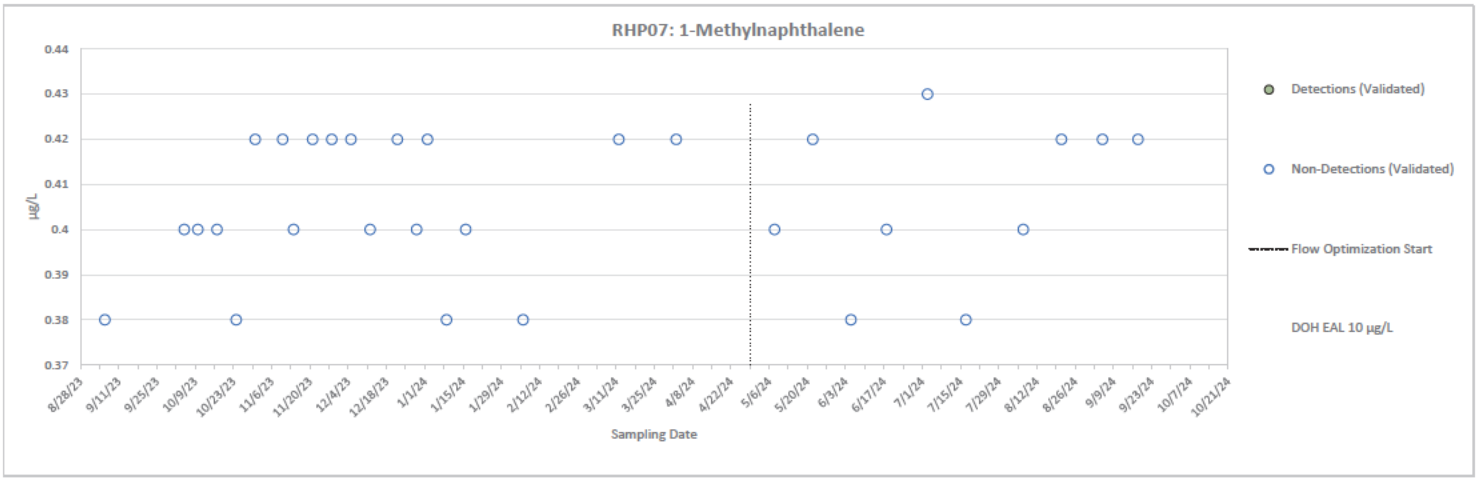

RHP07: GRO
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

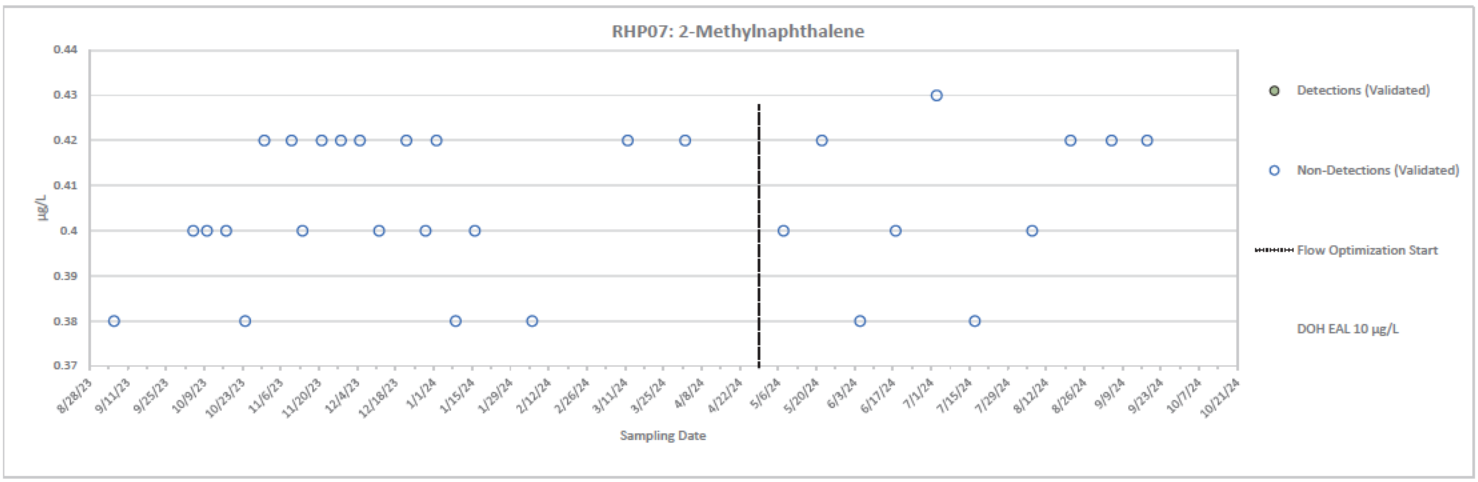

RHP07: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect

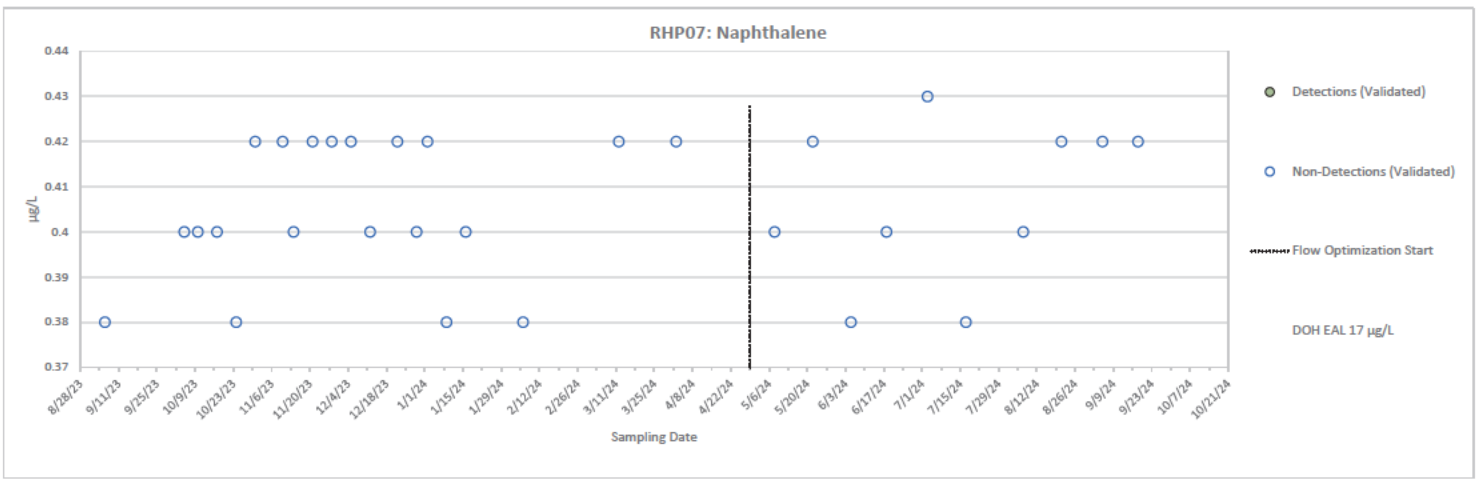

RHP07: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


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
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

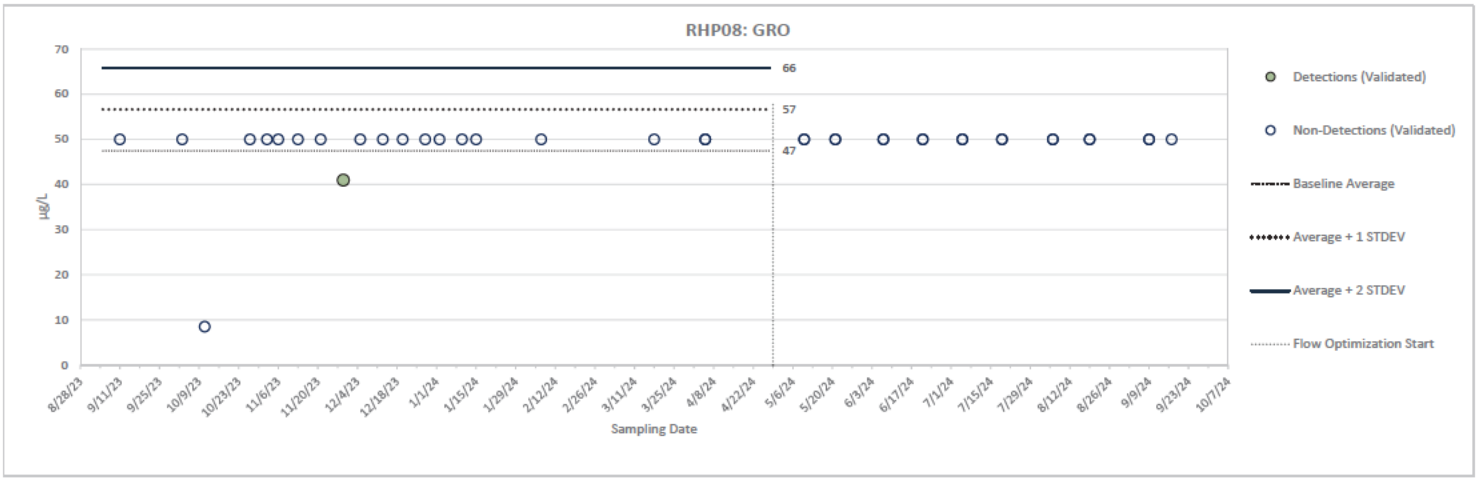

RHP07: ORO by Method 3520
µg/L
190
180
170
160
150
140
130
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

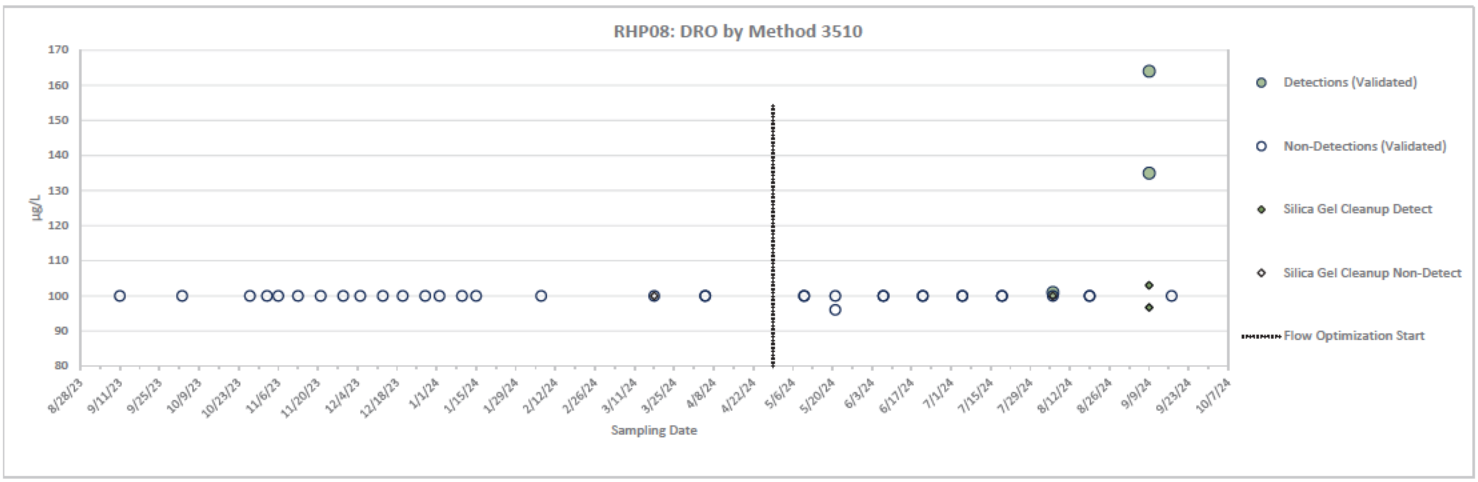


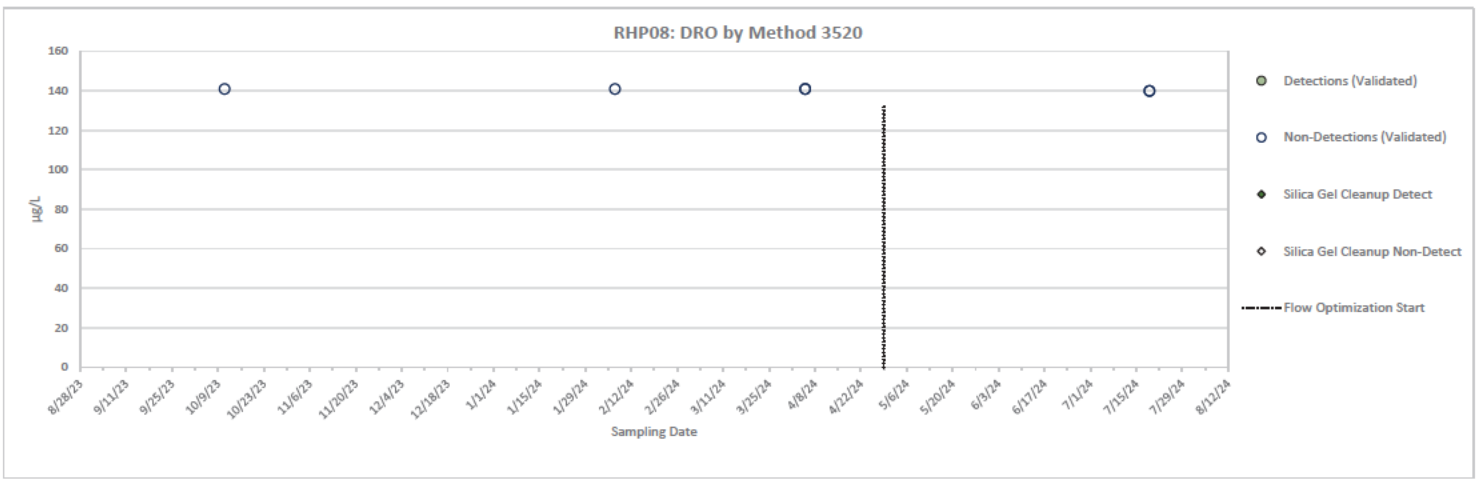


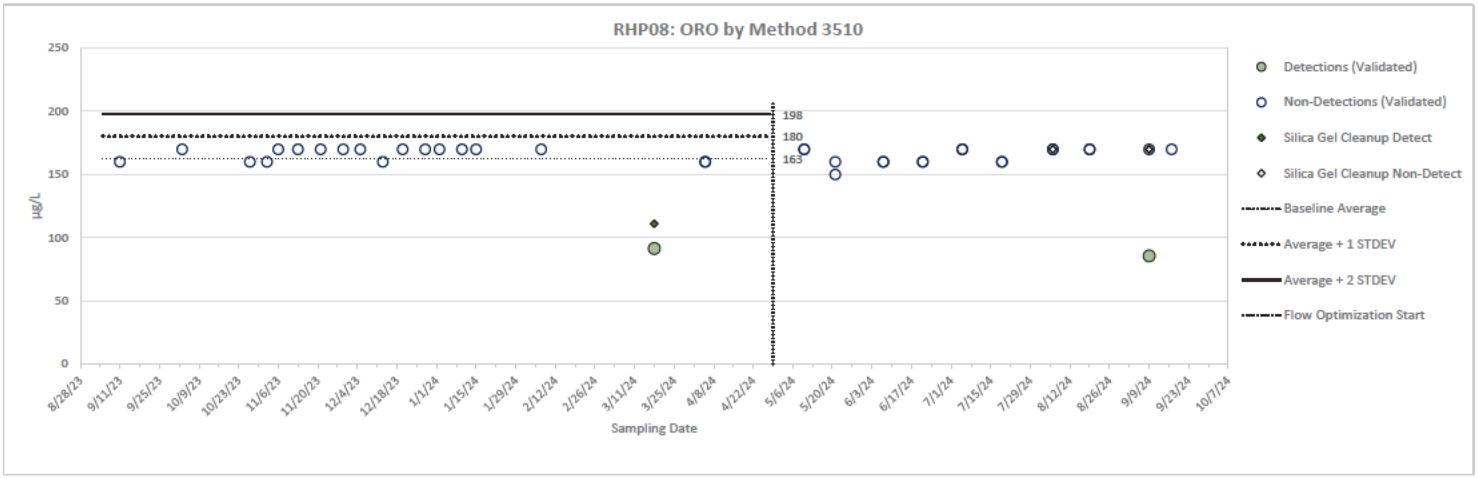


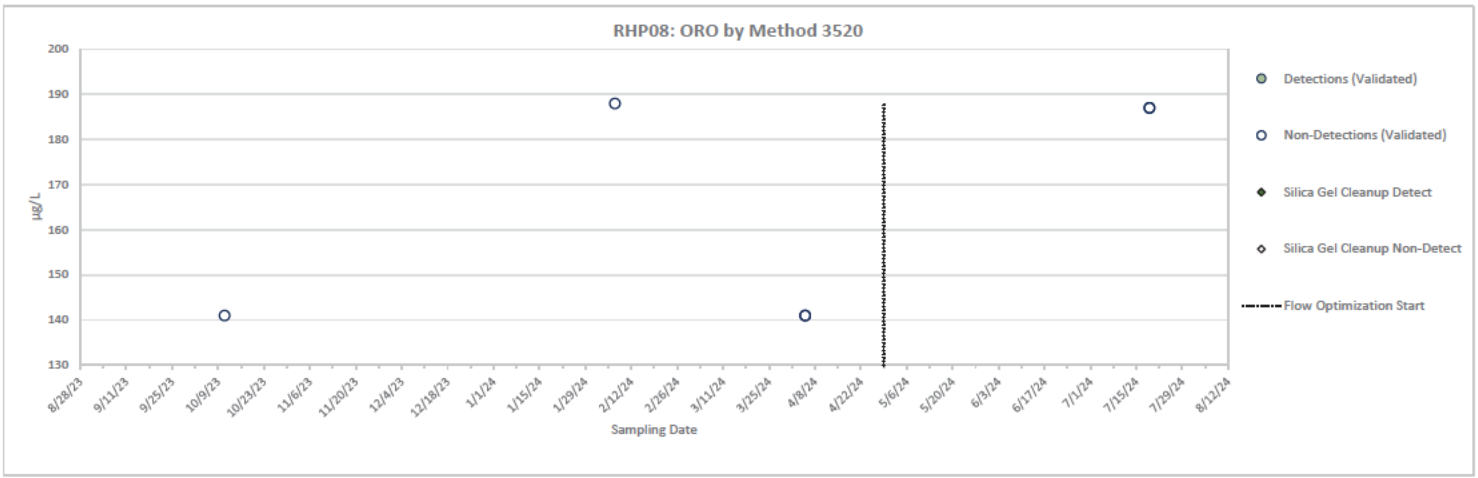
Note: See Data Legend

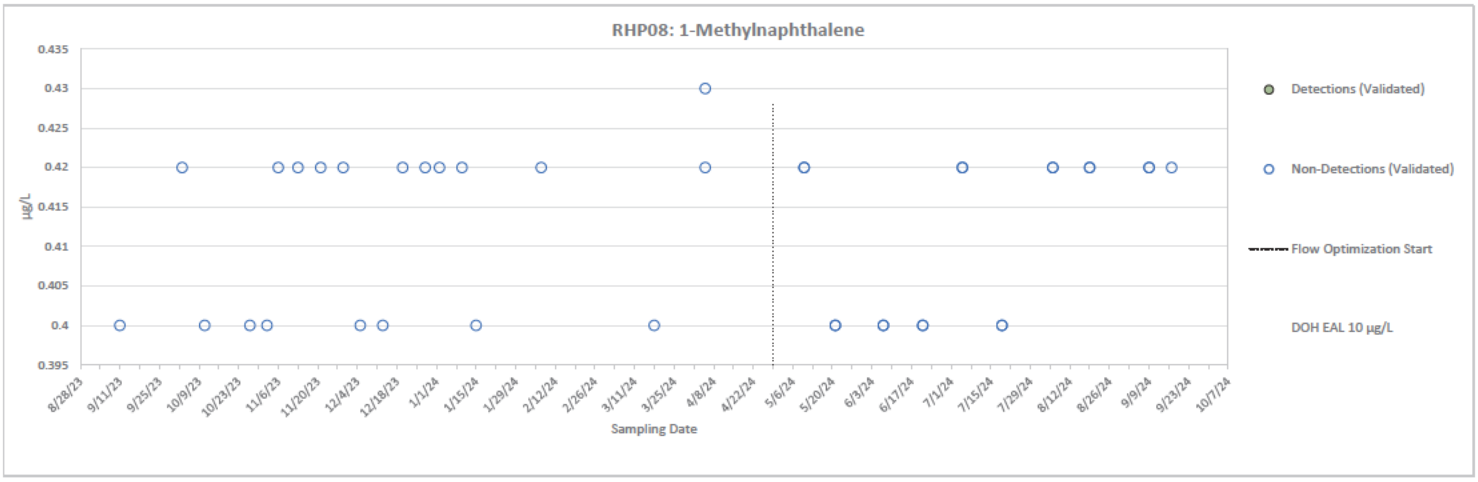

RHP08: GRO
µg/L
Sampling Date
66
57
47
Detections (Validated)
Non-Detections (Validated)
Baseline Average
Average + 1 STDEV
Average + 2 STDEV
Flow Optimization Start

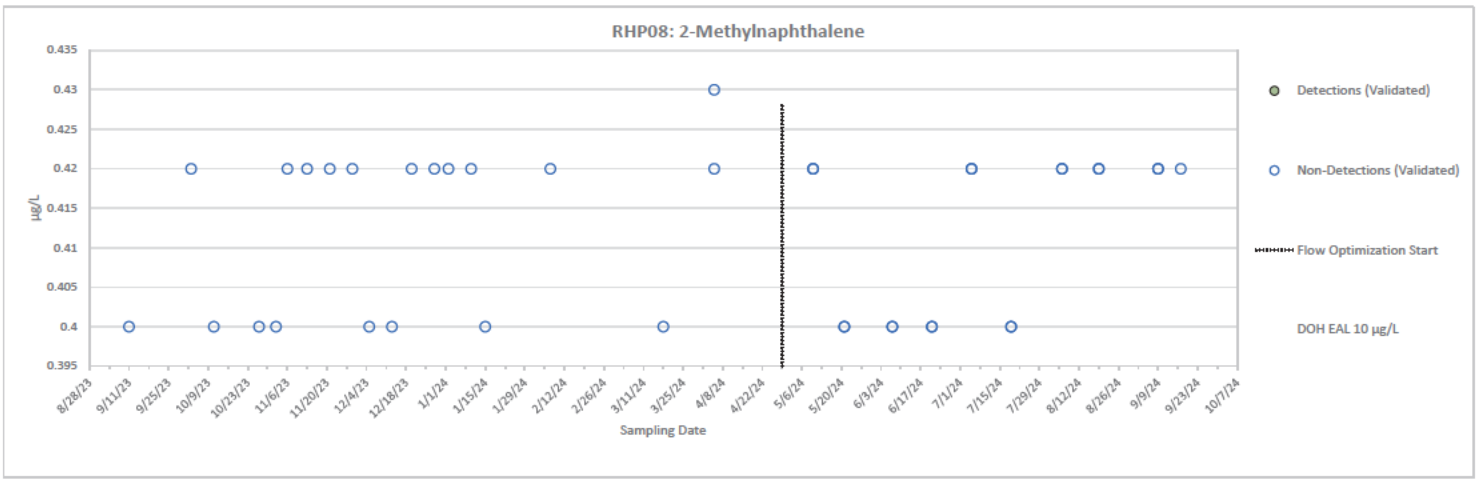

RHP08: DRO by Method 3510
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

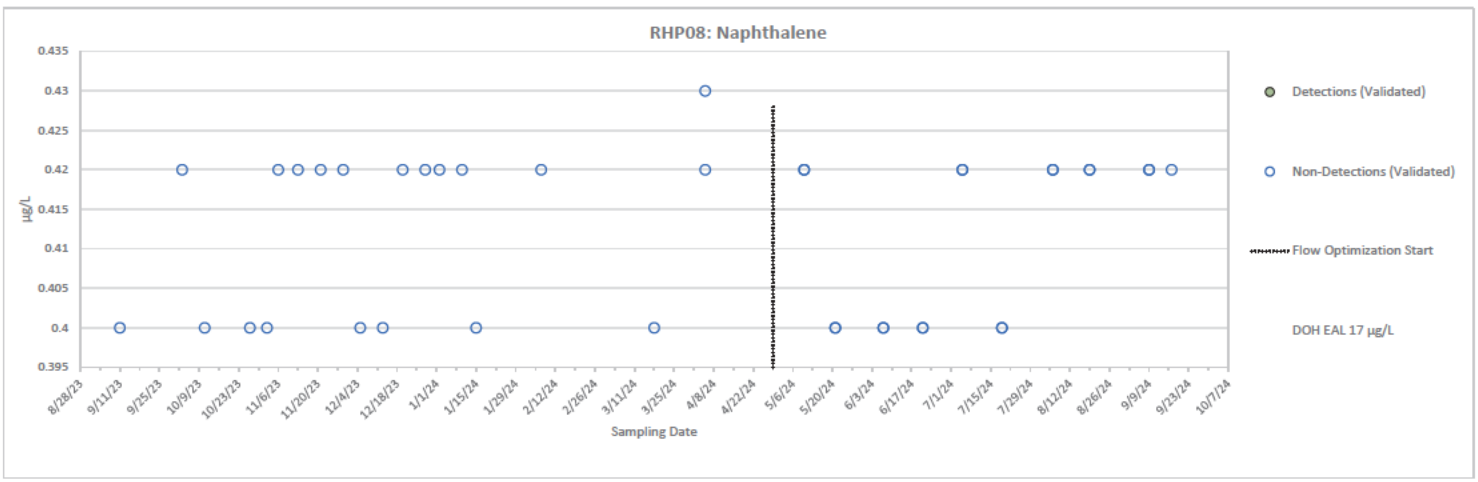

RHP08: DRO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start


RHP08: ORO by Method 3510
µg/L
Sampling Date
198
180
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

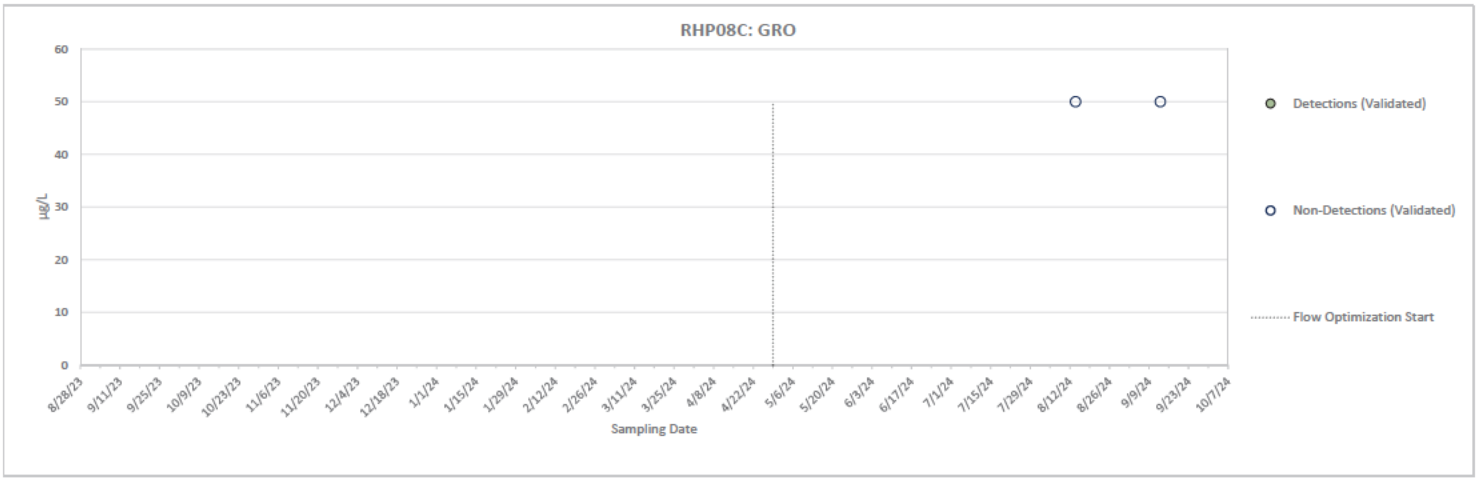

RHP08: ORO by Method 3520
µg/L
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

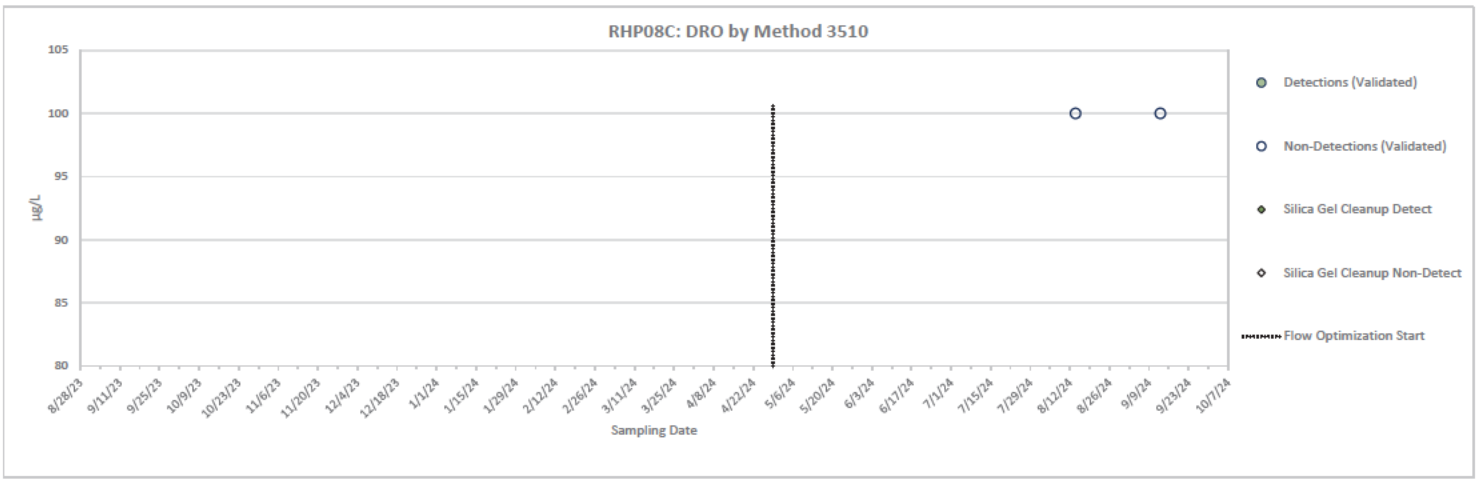


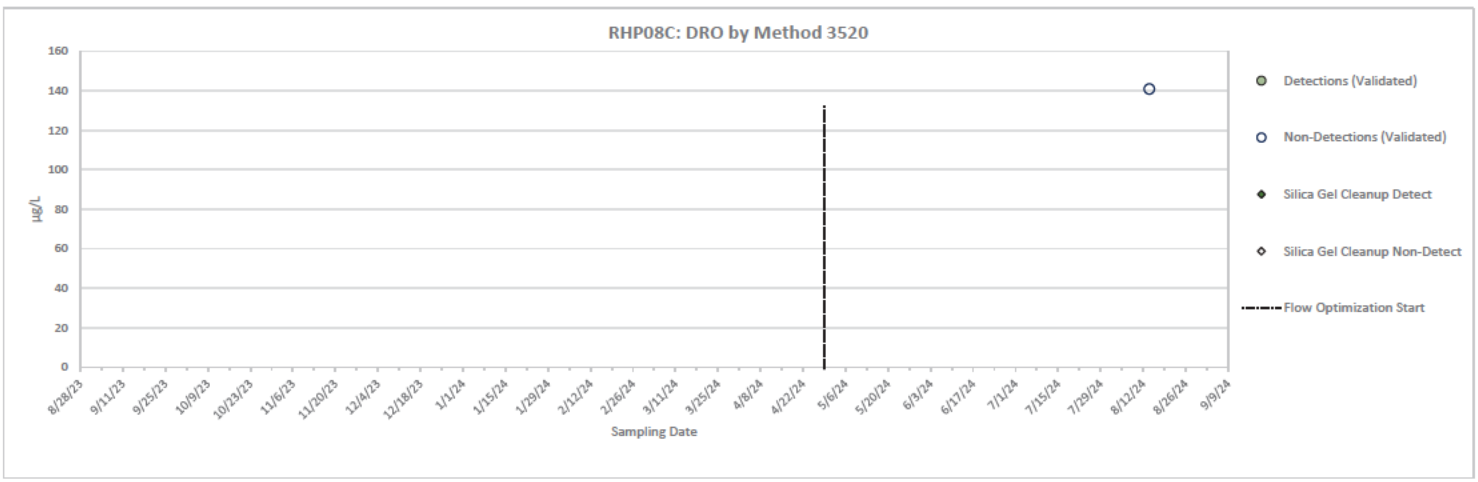


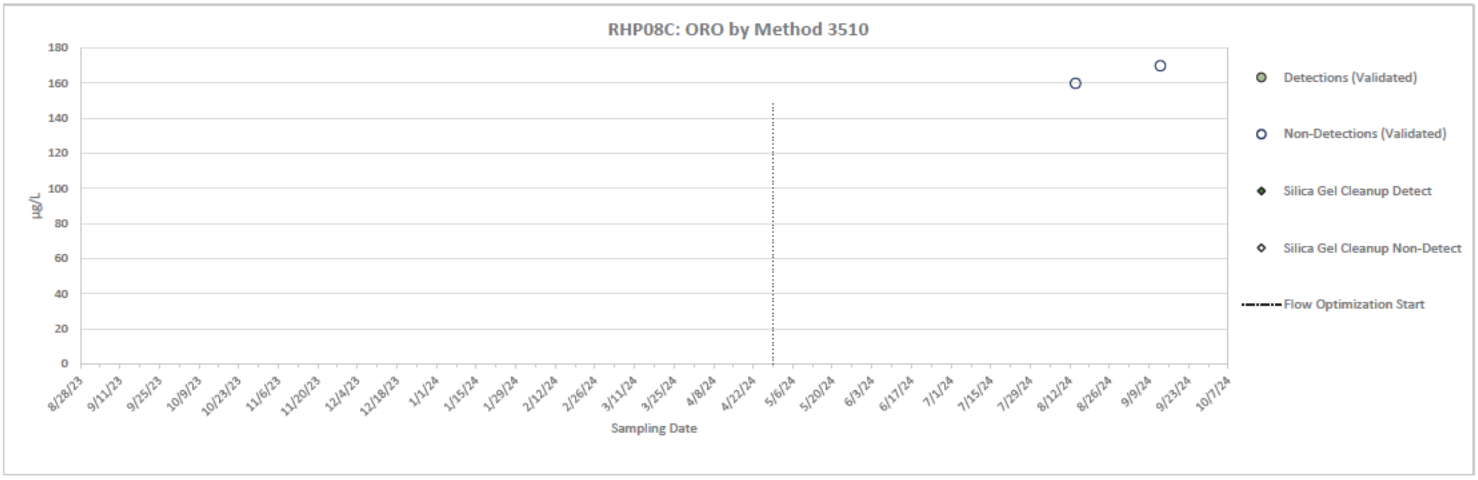


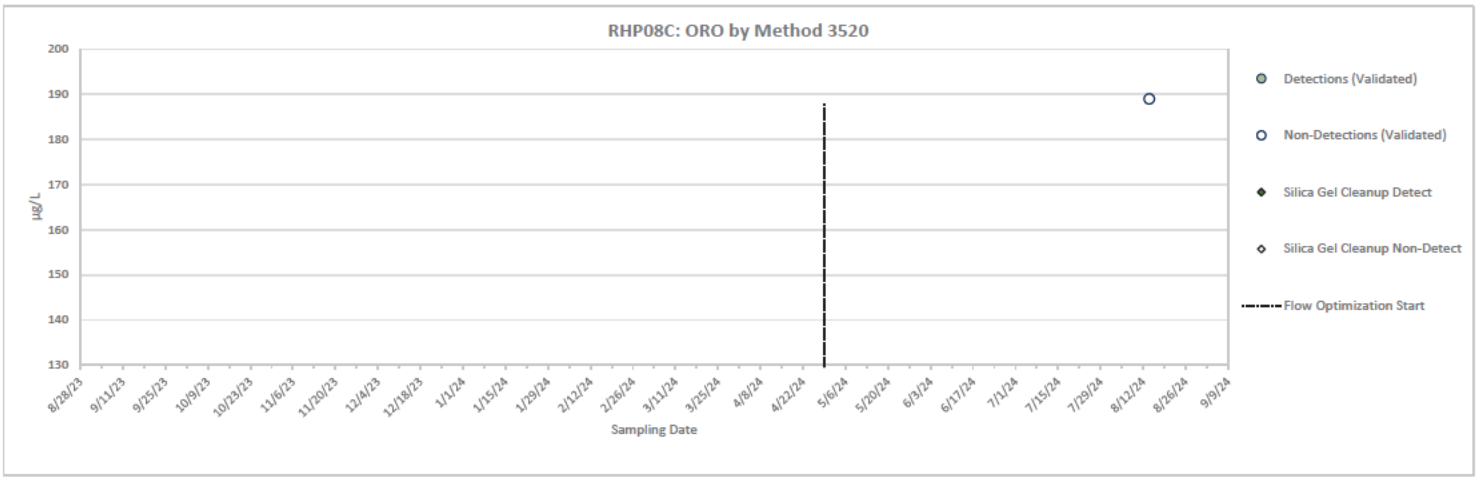
Note: See Data Legend

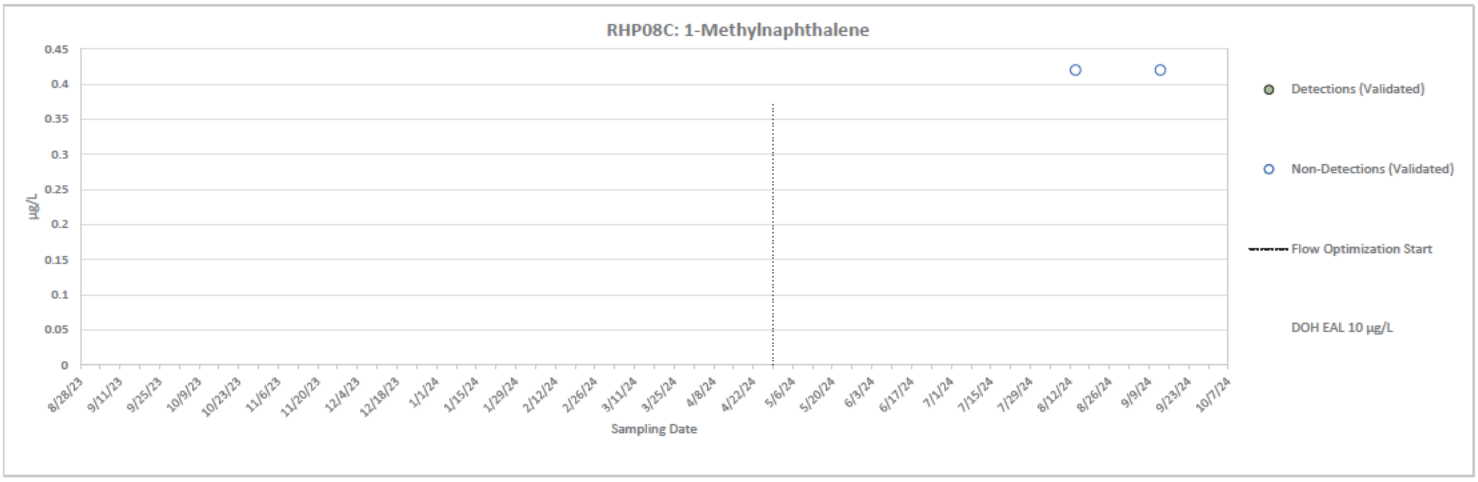

RHP08C: GRO
60
50
40
30
20
10
0
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Flow Optimization Start

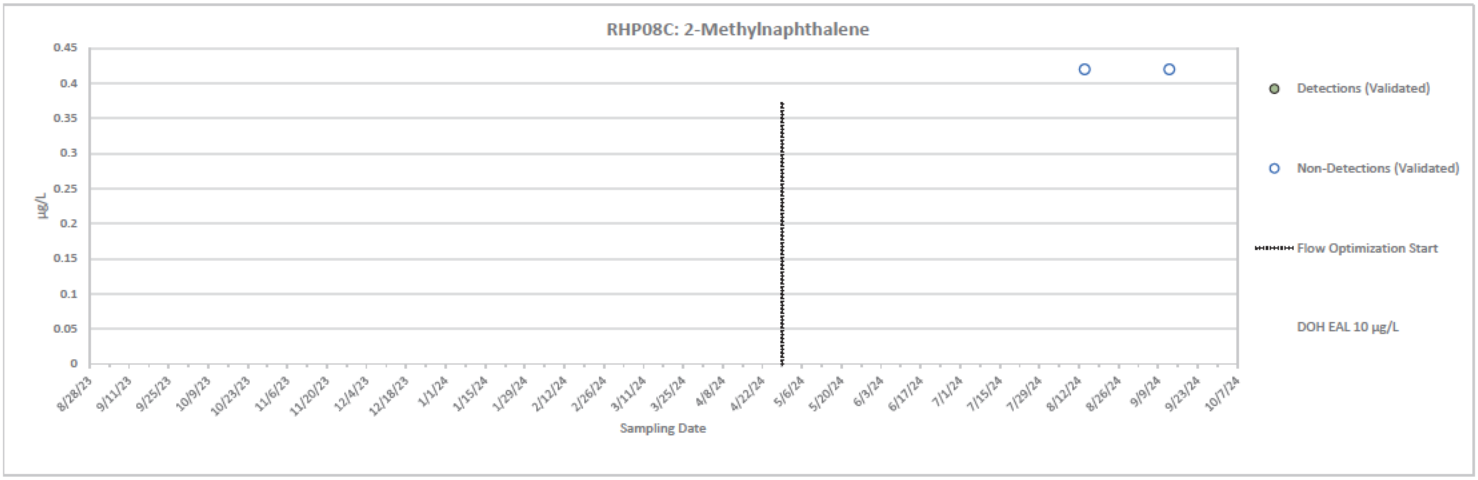

RHP08C: DRO by Method 3510
105
100
95
90
85
80
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
9/23/24
10/7/24
Sampling Date
Detections (Validated)
Non-Detections (Validated)
Silica Gel Cleanup Detect
Silica Gel Cleanup Non-Detect
Flow Optimization Start

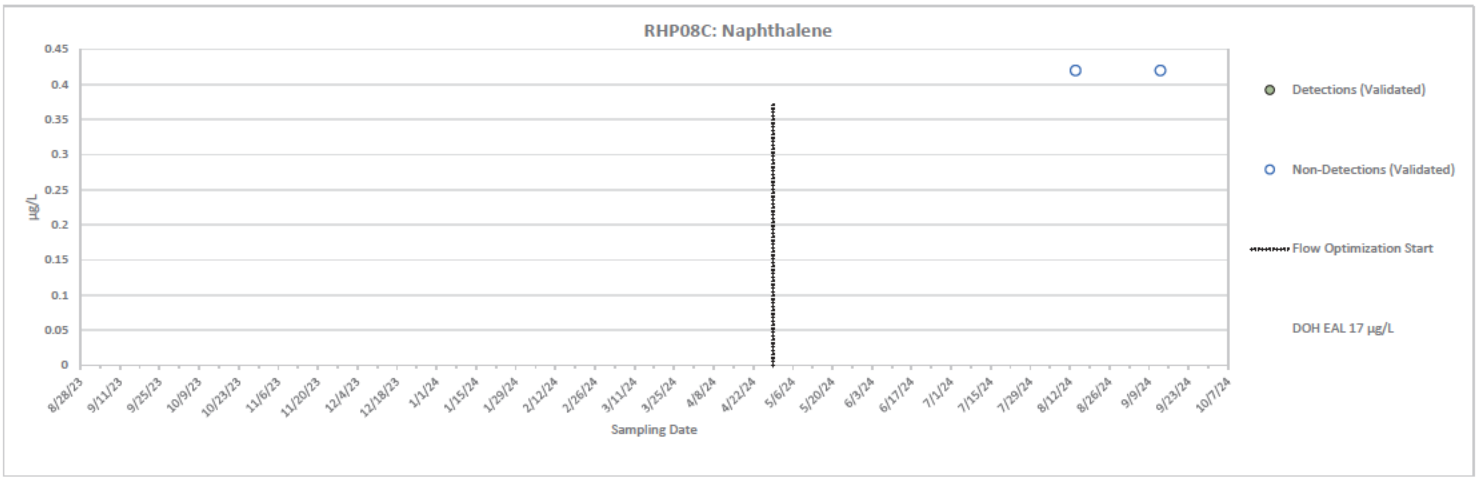

RHP08C: DRO by Method 3520
160
140
120
100
80
60
40
20
0
µg/L
8/28/23
9/11/23
9/25/23
10/9/23
10/23/23
11/6/23
11/20/23
12/4/23
12/18/23
1/1/24
1/15/24
1/29/24
2/12/24
2/26/24
3/11/24
3/25/24
4/8/24
4/22/24
5/6/24
5/20/24
6/3/24
6/17/24
7/1/24
7/15/24
7/29/24
8/12/24
8/26/24
9/9/24
Sampling Date
Detections (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

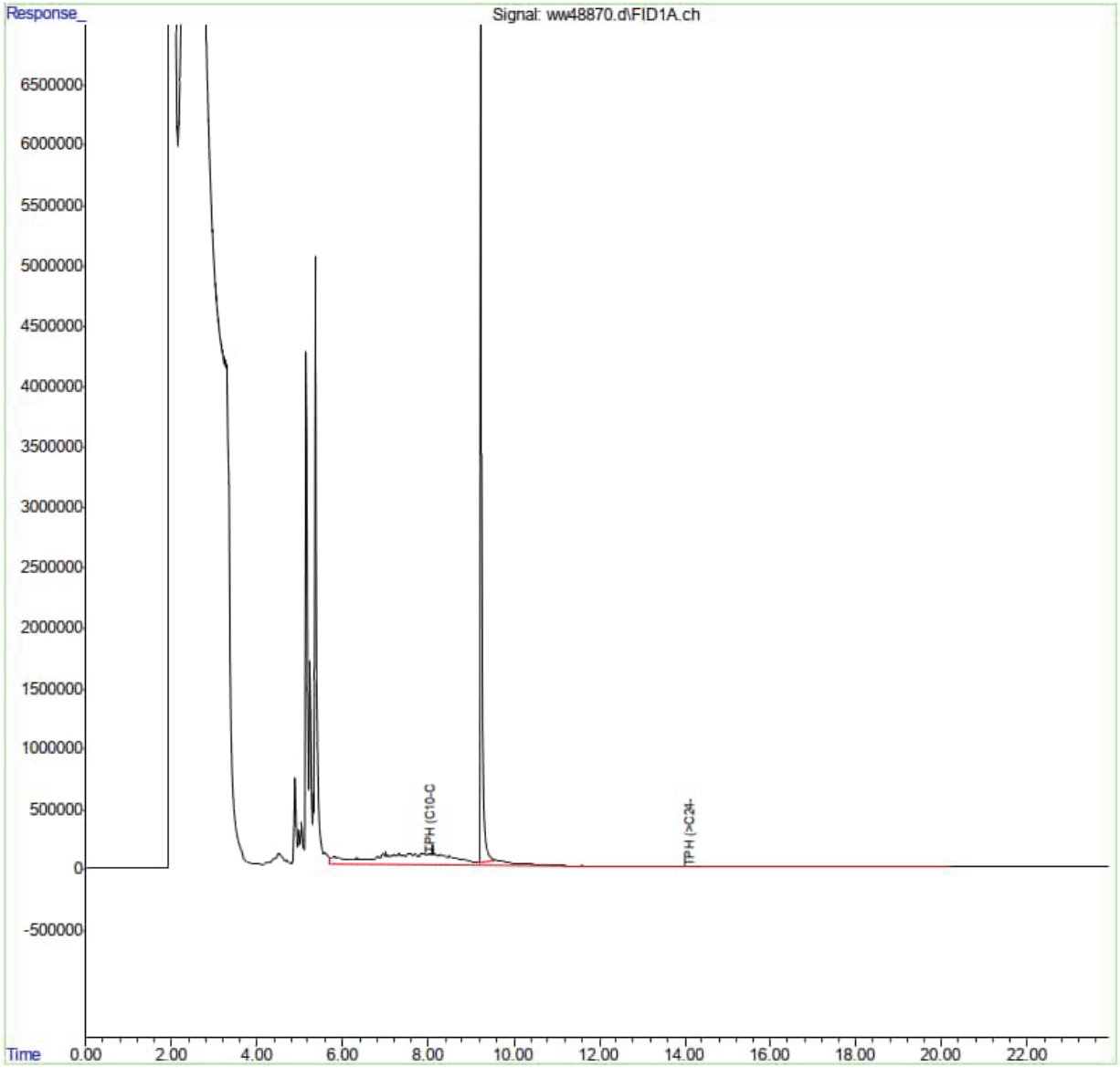
Appendix B.4 – Chromatograms for Groundwater Detections and Exceedances

Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2406B Sample Date: 6/17/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 112 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jun 25 09:48:07 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

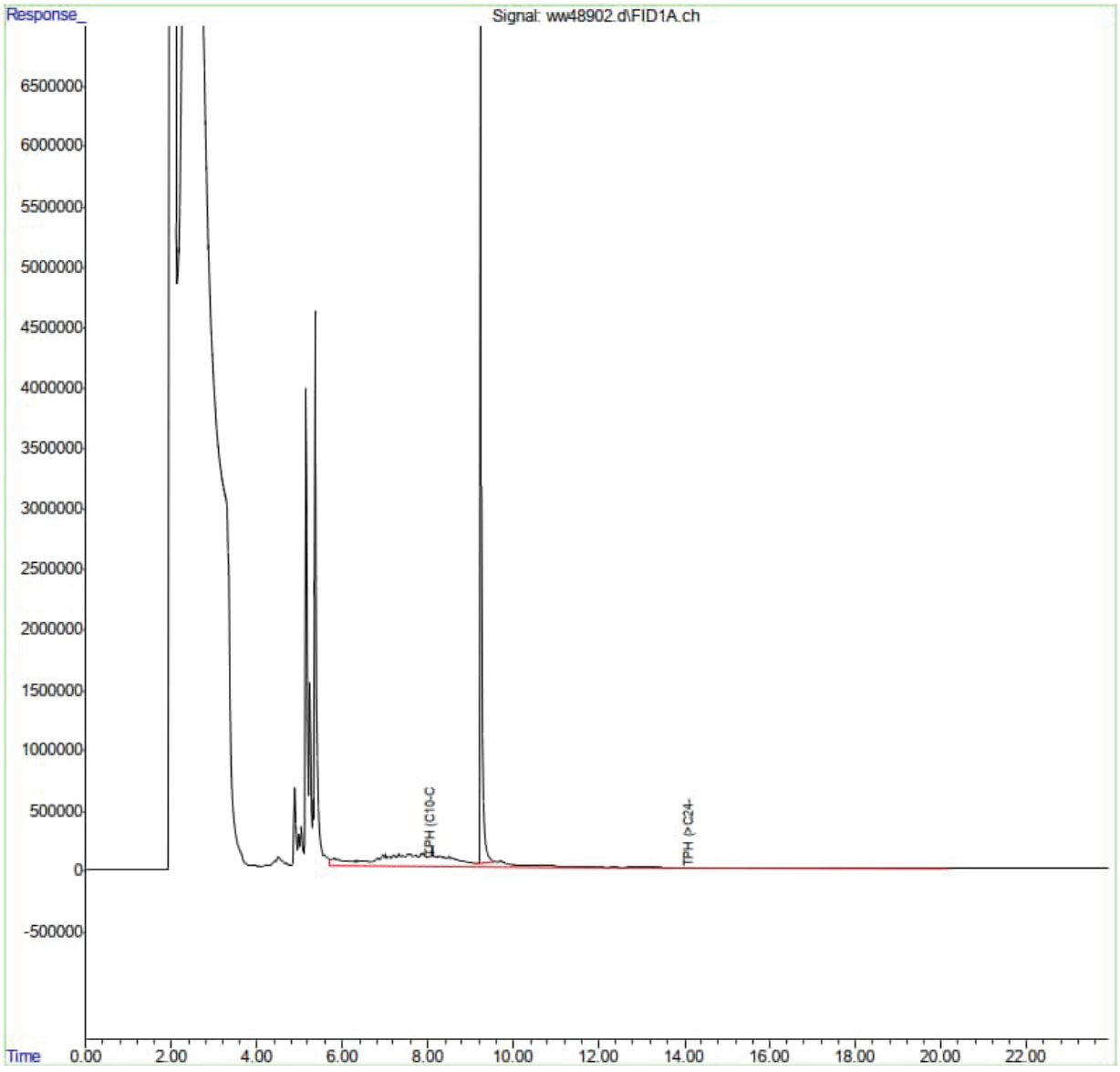
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 120 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jun 25 12:48:21 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

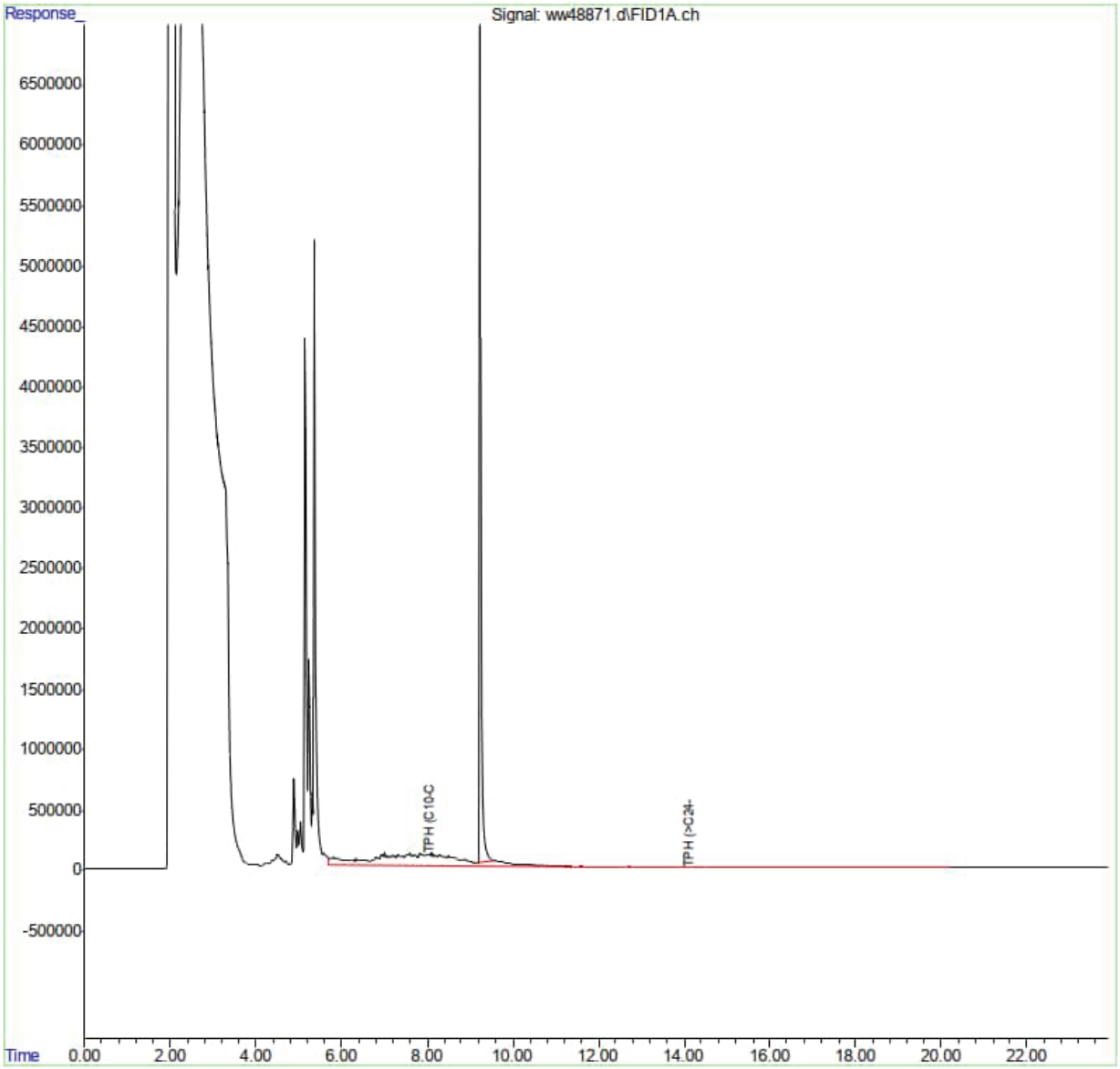


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2406B Sample Date: 6/17/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 116 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jun 25 09:48:09 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

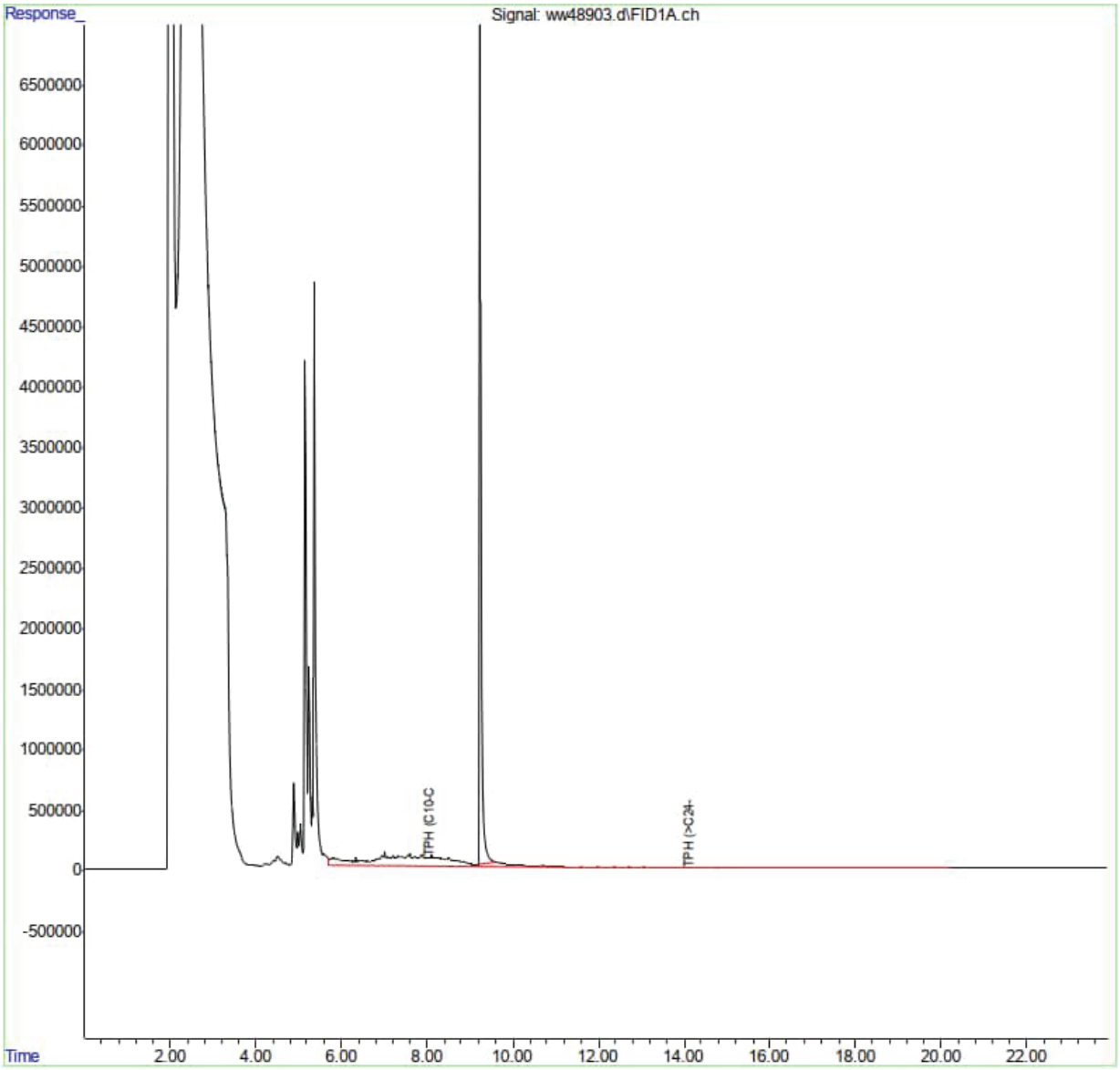
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 104 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jun 25 15:19:25 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

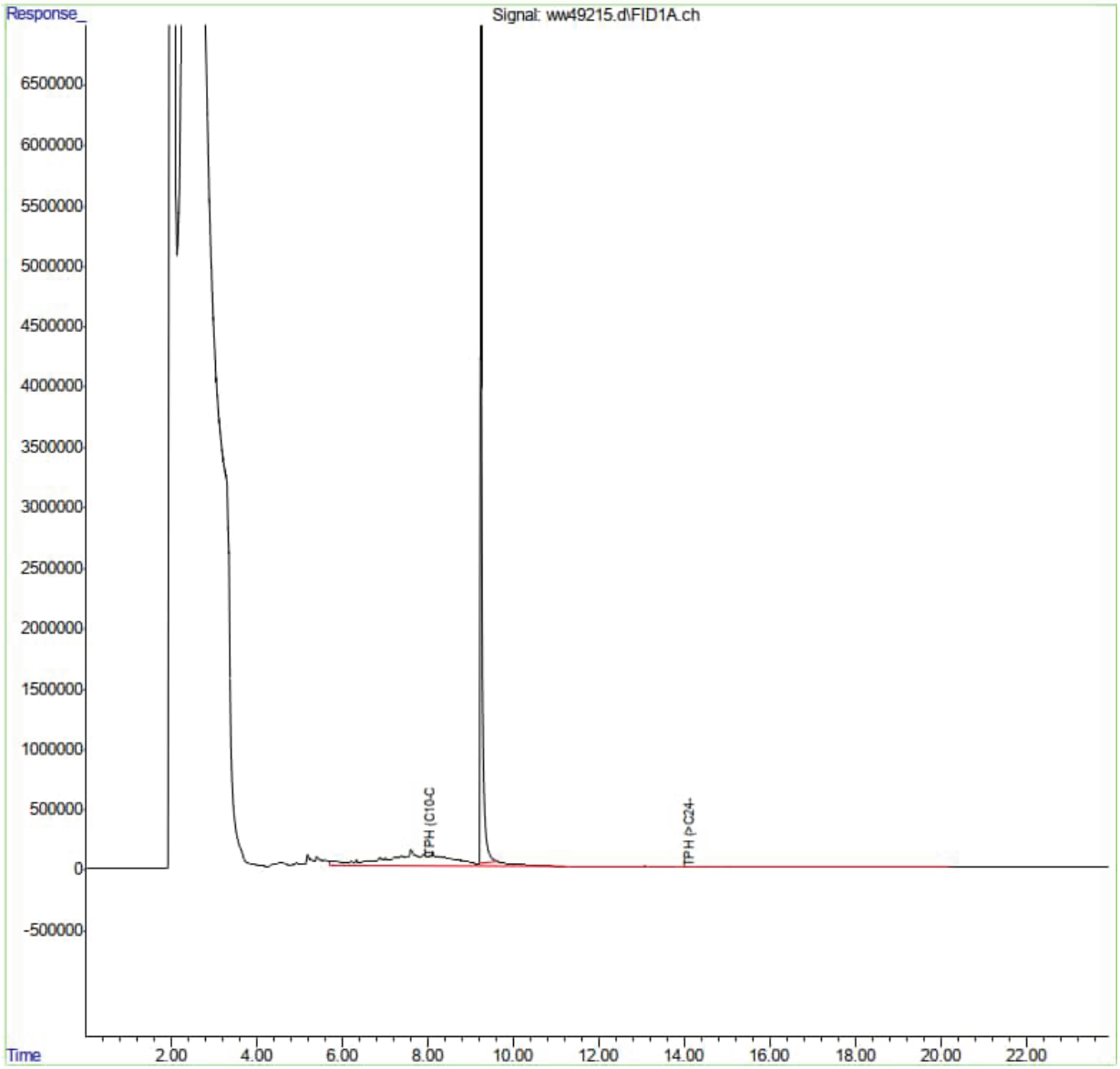


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2407A Sample Date: 7/1/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 106 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jul 08 10:25:13 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

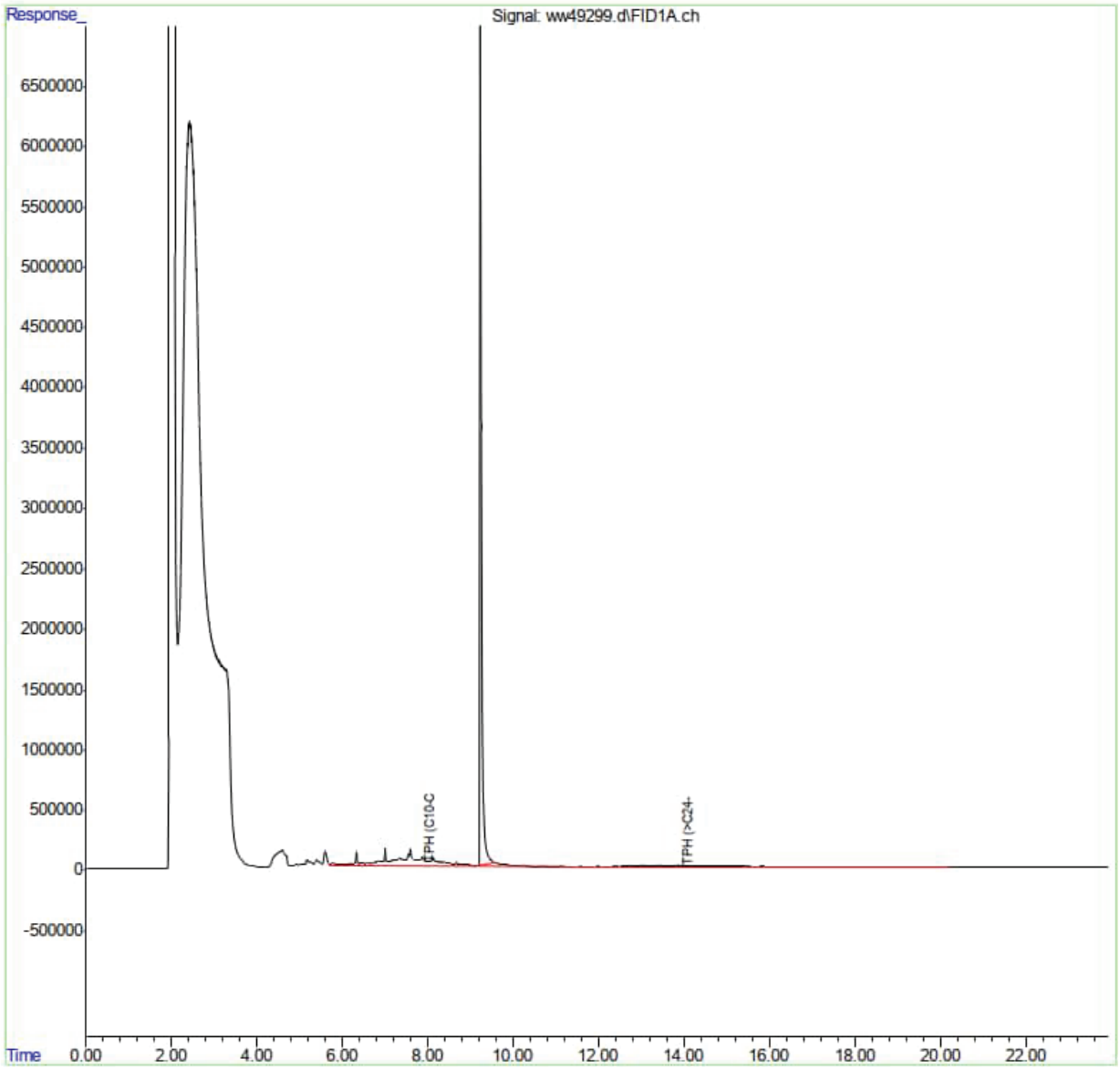
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 87.1 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 10 09:44:37 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

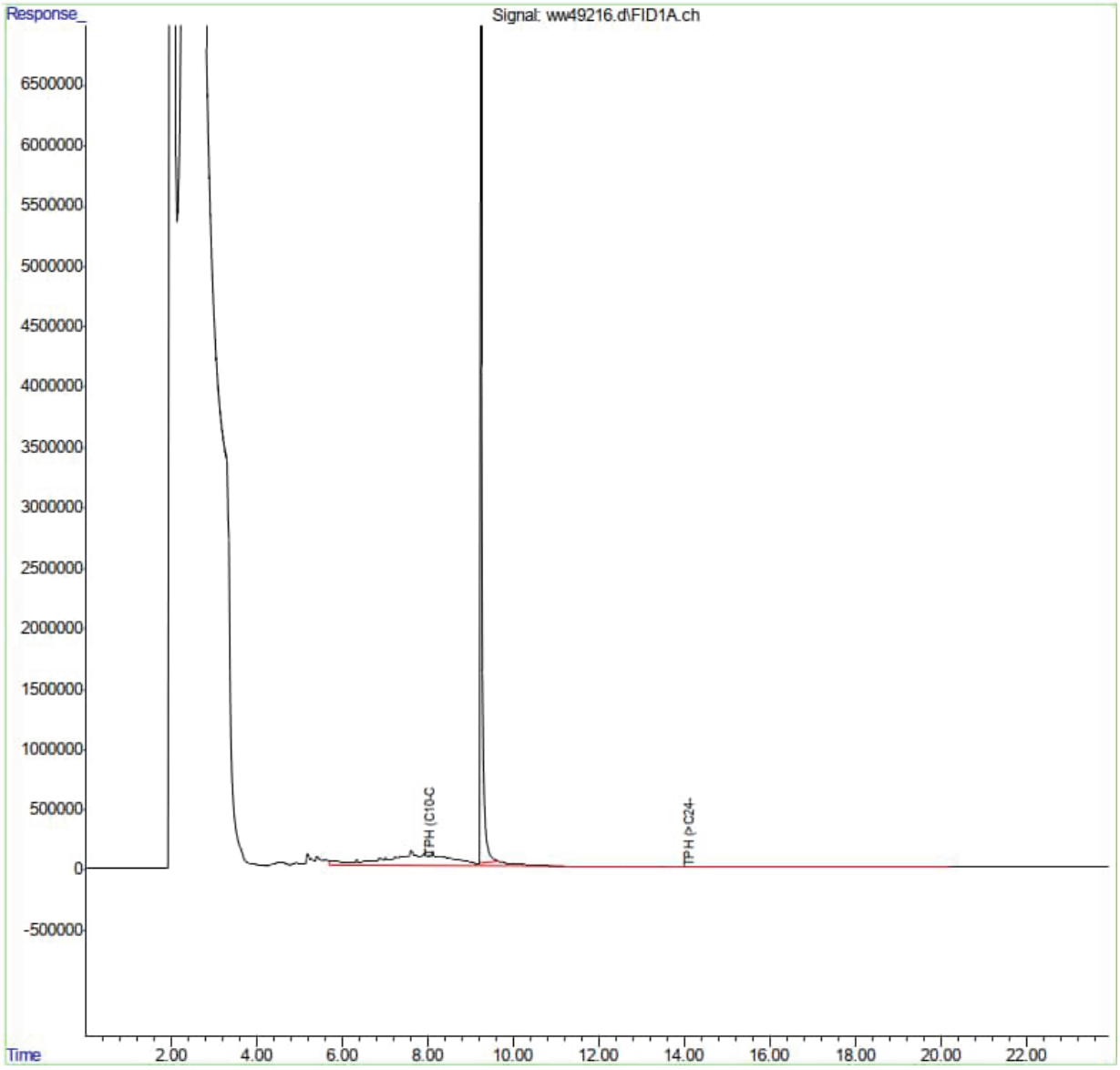


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2407A Sample Date: 7/1/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 103 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jul 08 10:25:15 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

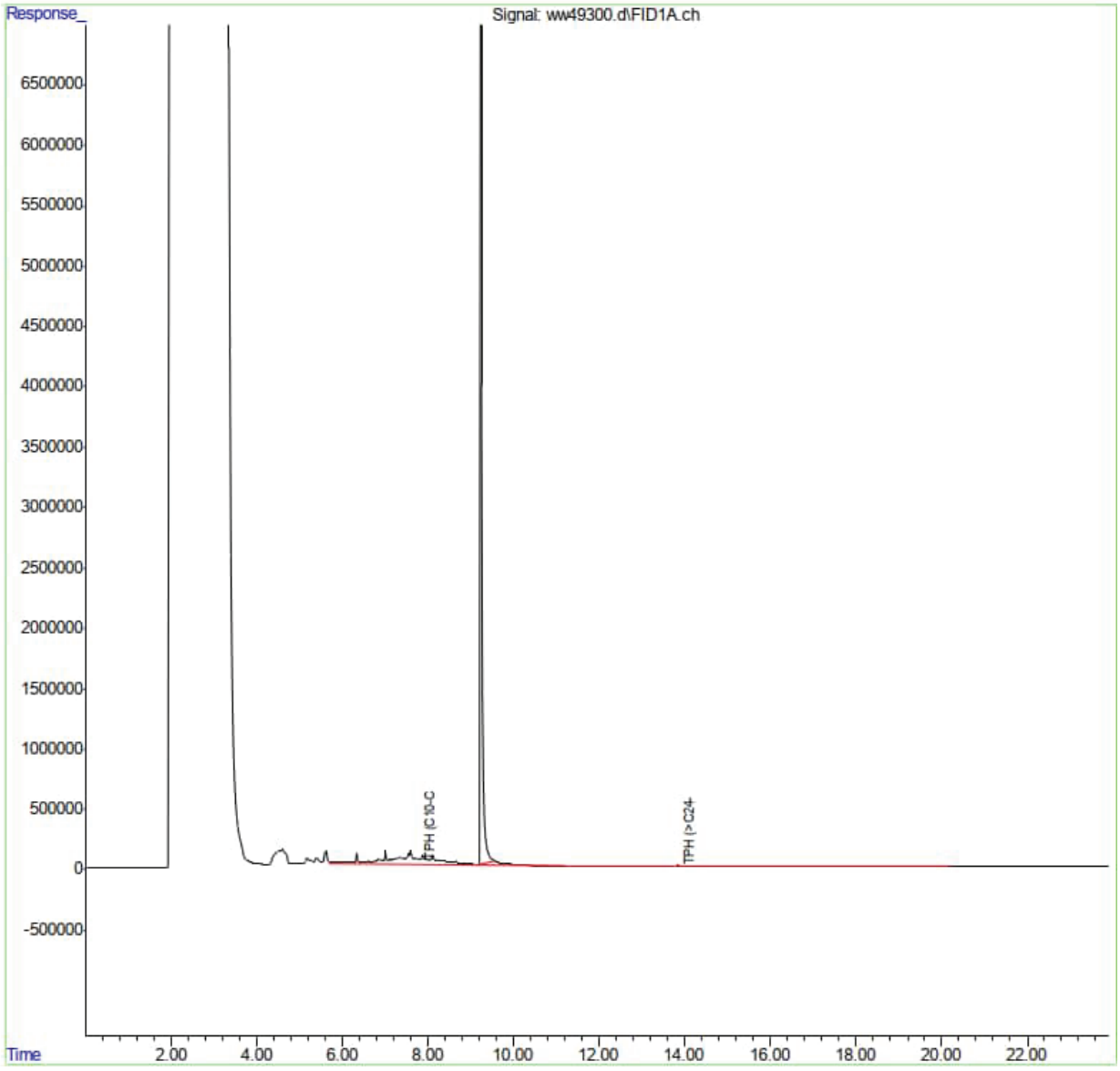
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 10 09:44:39 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

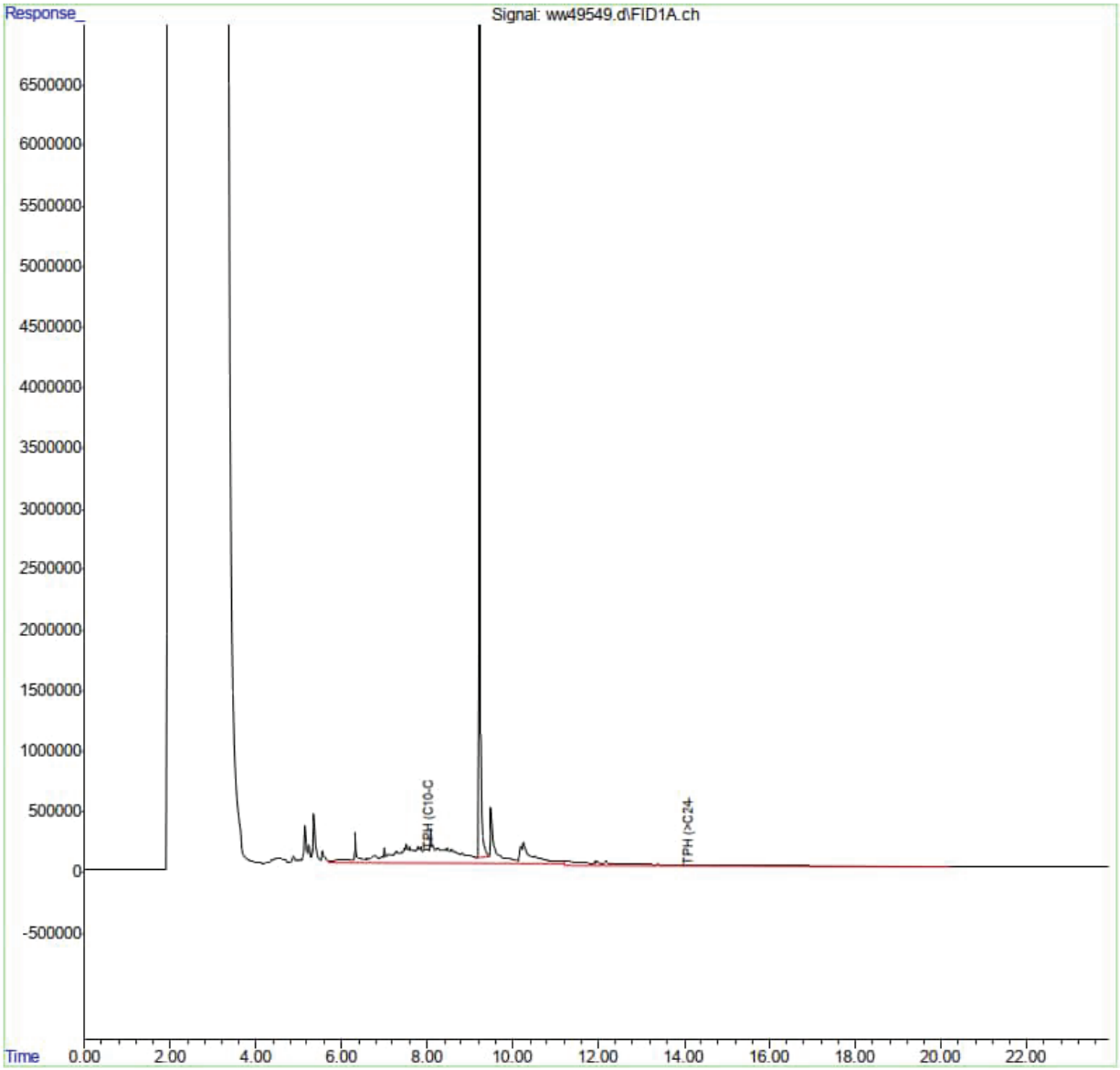


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2407B Sample Date: 7/15/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 172 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jul 22 09:51:43 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

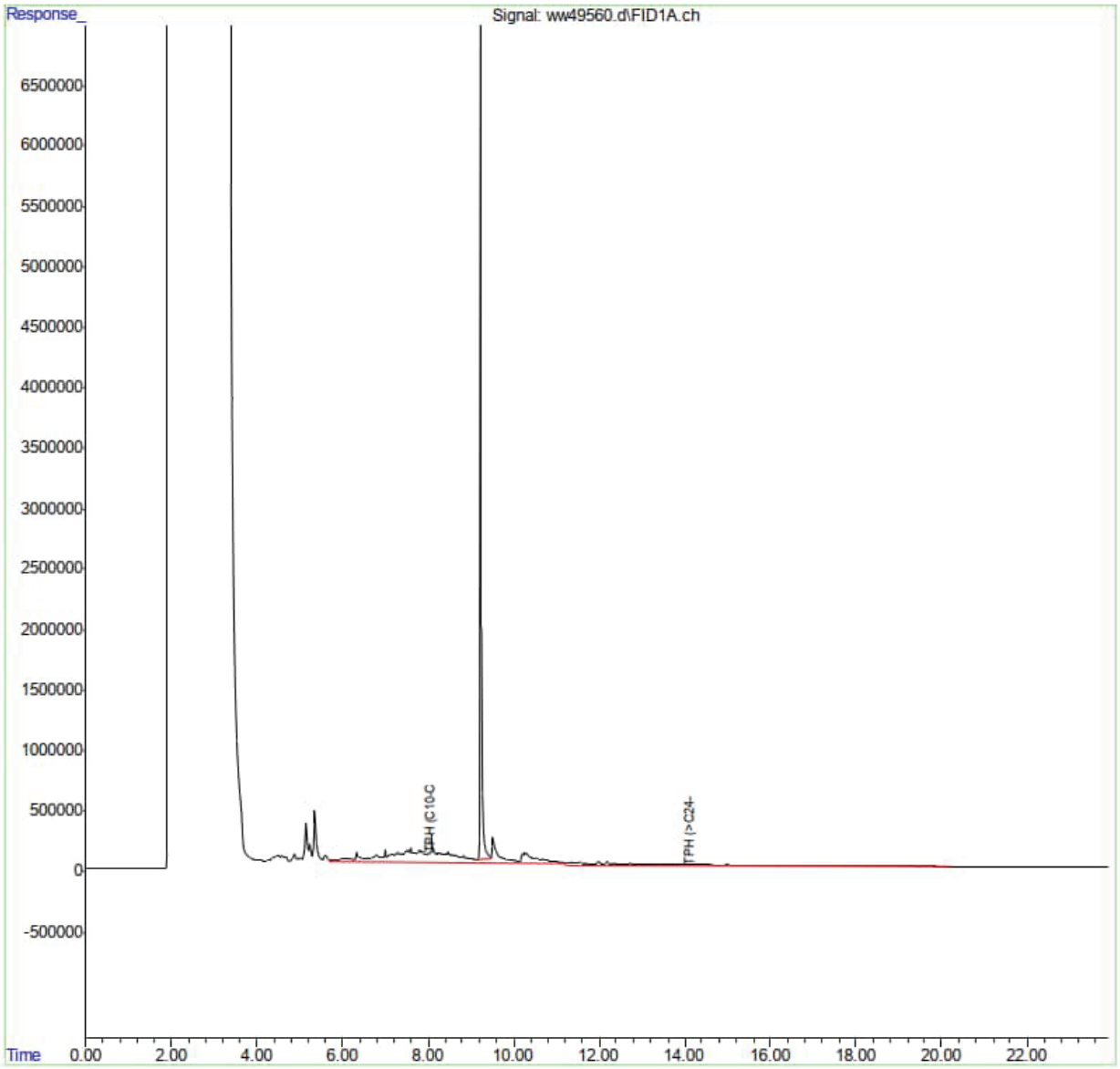
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 118 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jul 22 09:52:03 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

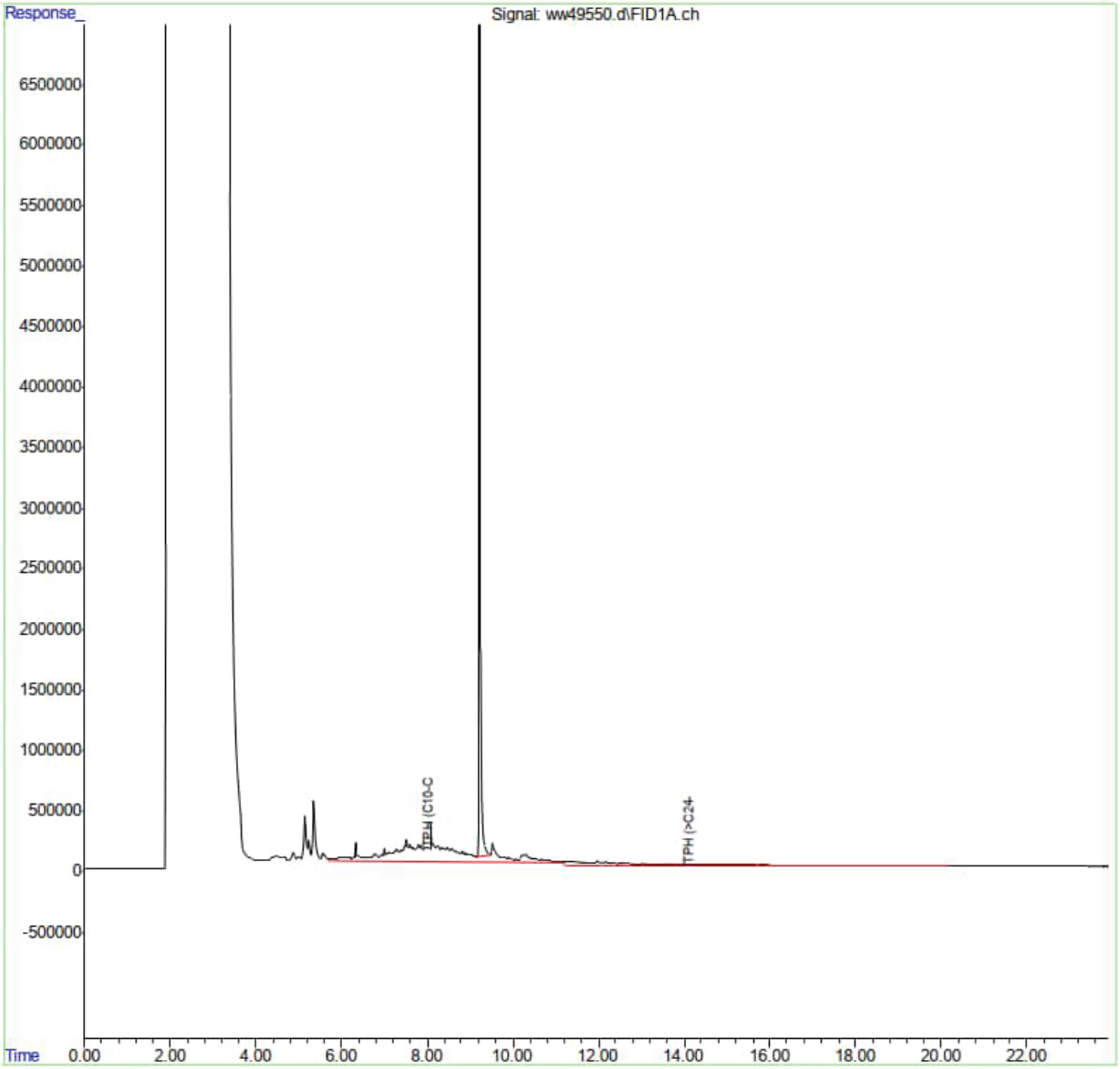


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 155 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jul 22 09:51:45 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

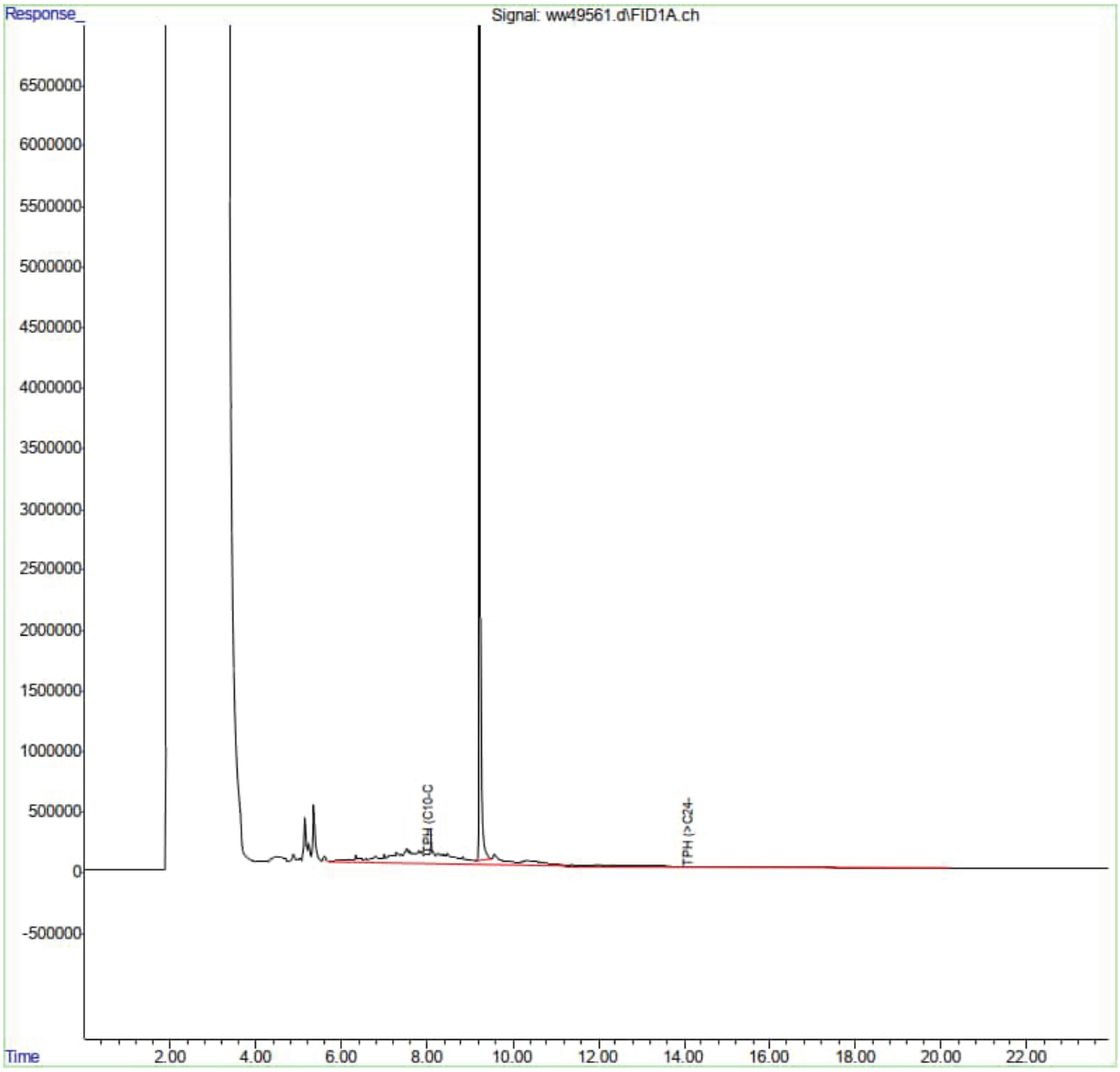
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 109 J** **TPH-o SGC (C24 to C40) <160 U**

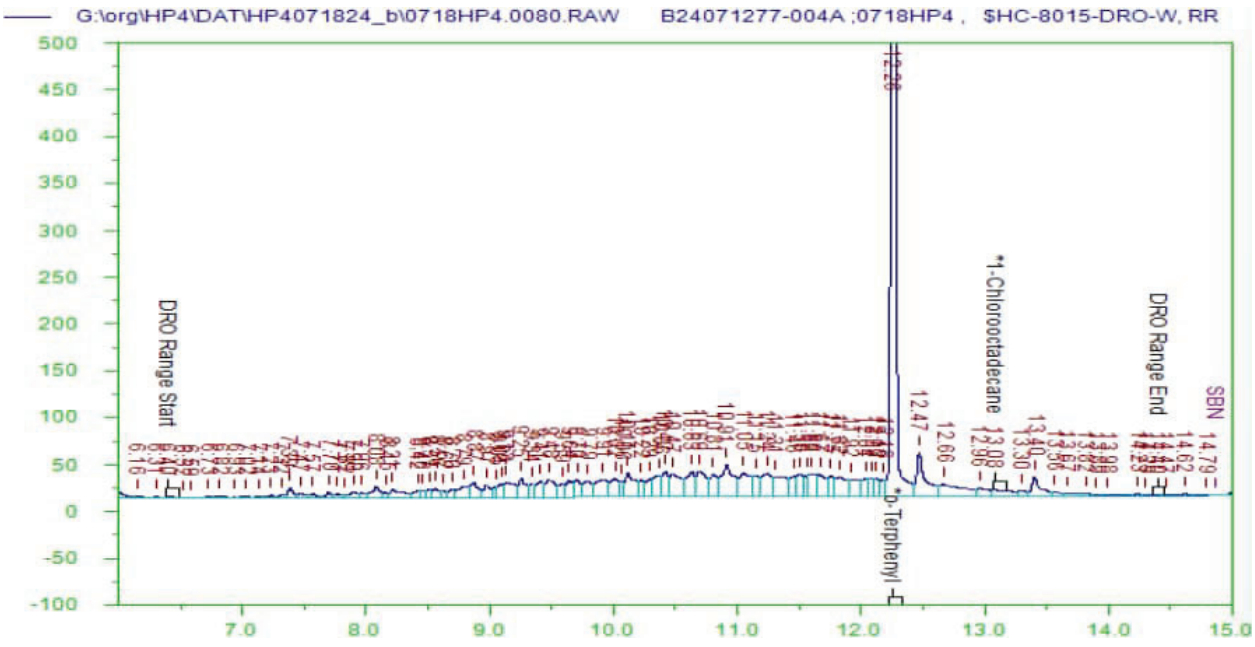
```
Quant Time: Jul 22 09:52:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

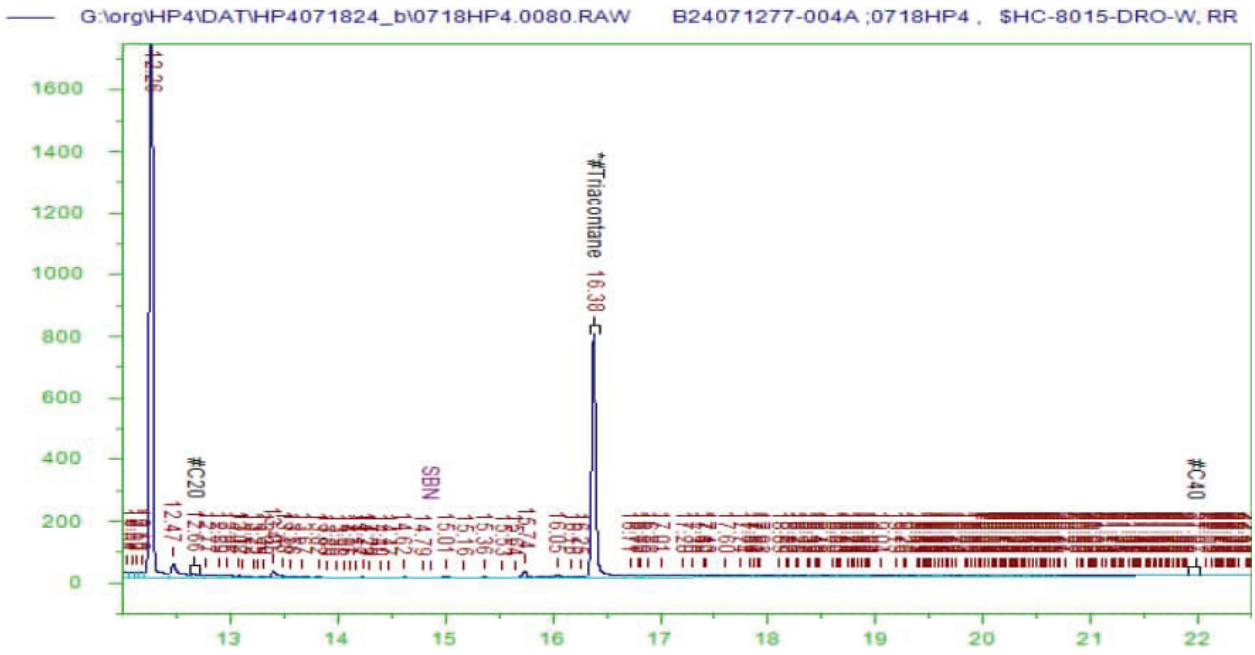
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



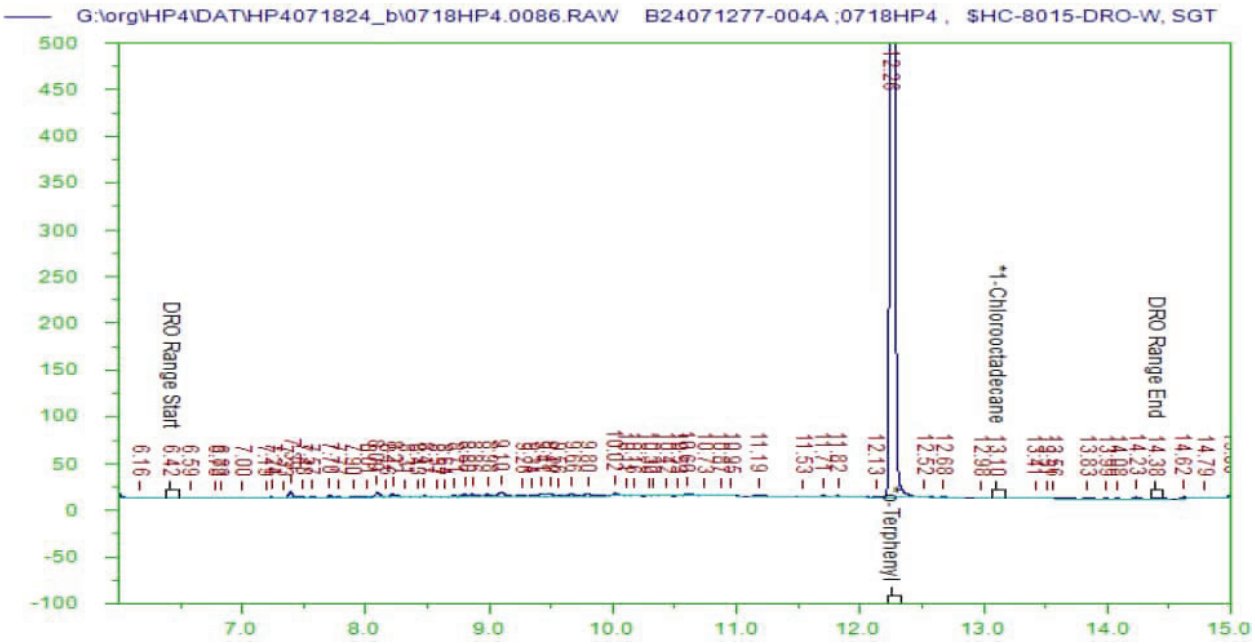
Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

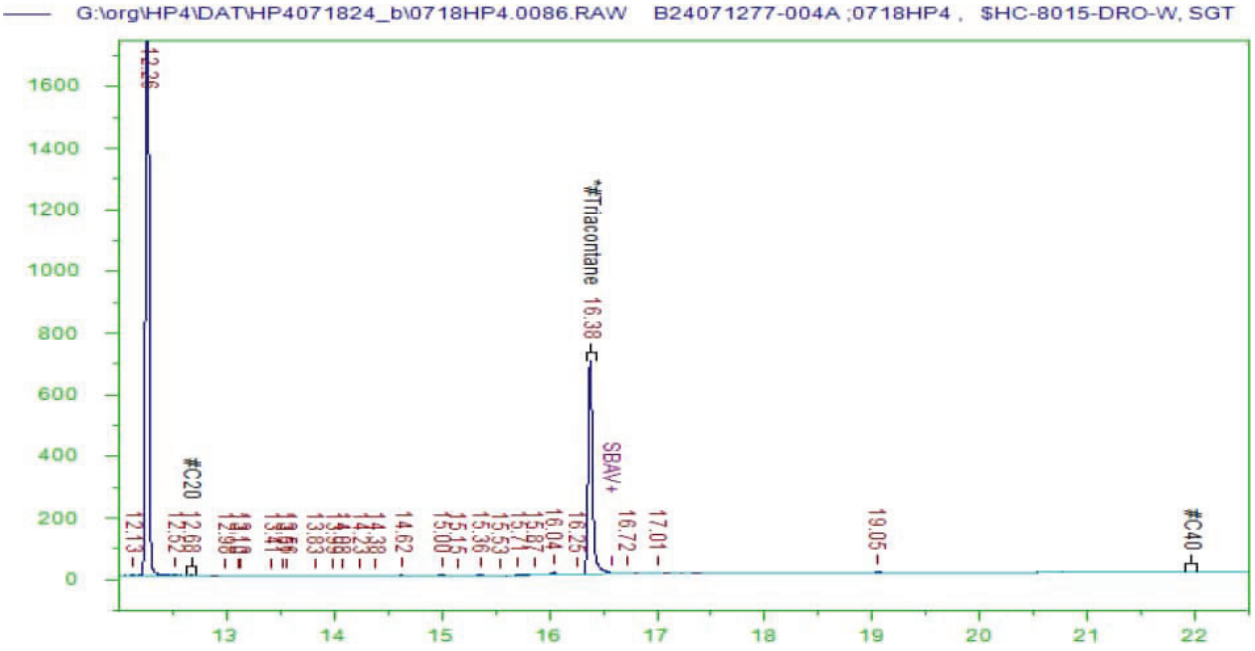
Results (ug/L): **TPH-d (C10 to C24) 148.6 J** **TPH-o (C24 to C40) 79.46 J**





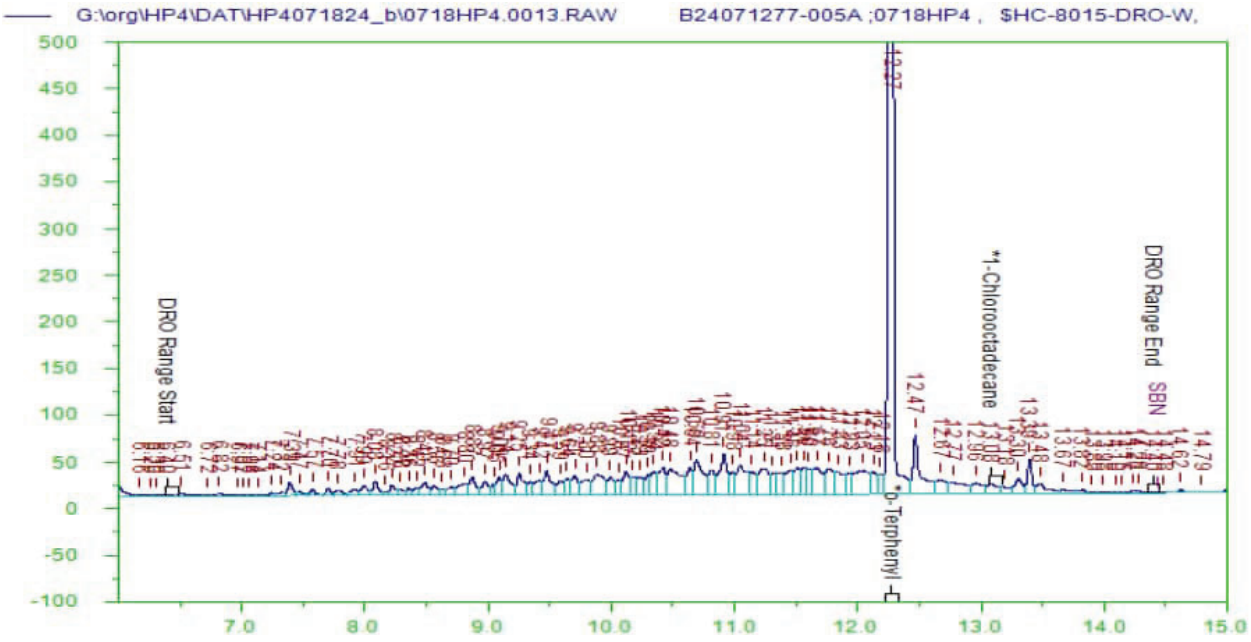
Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**

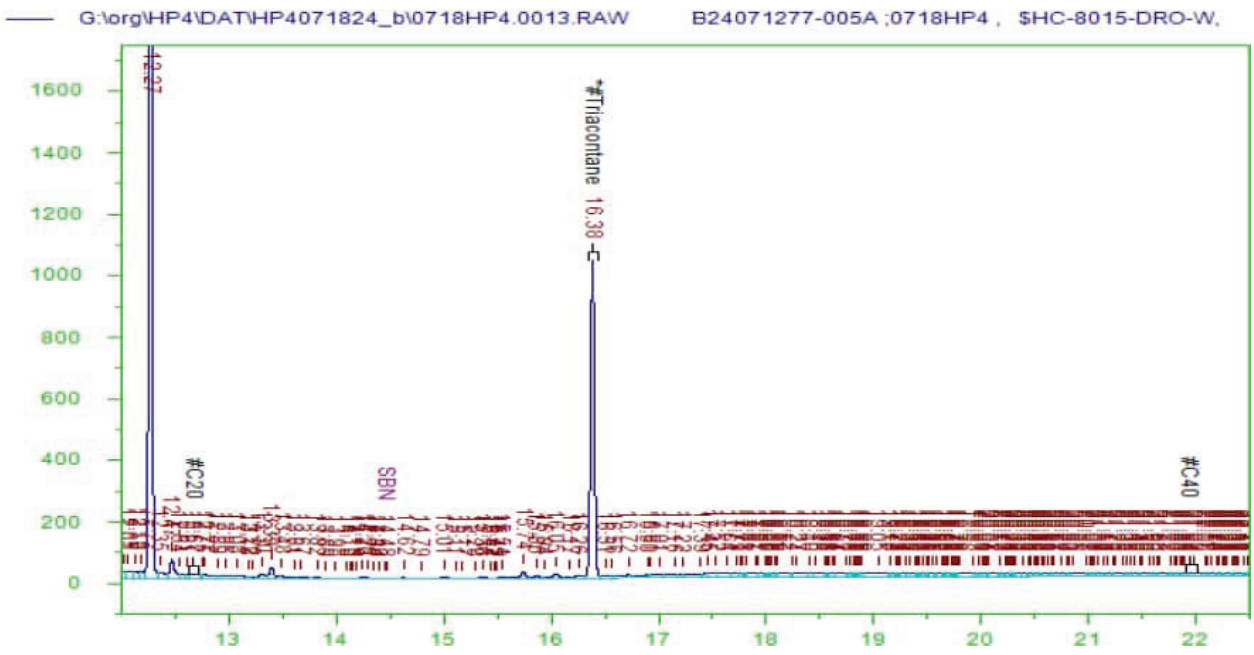




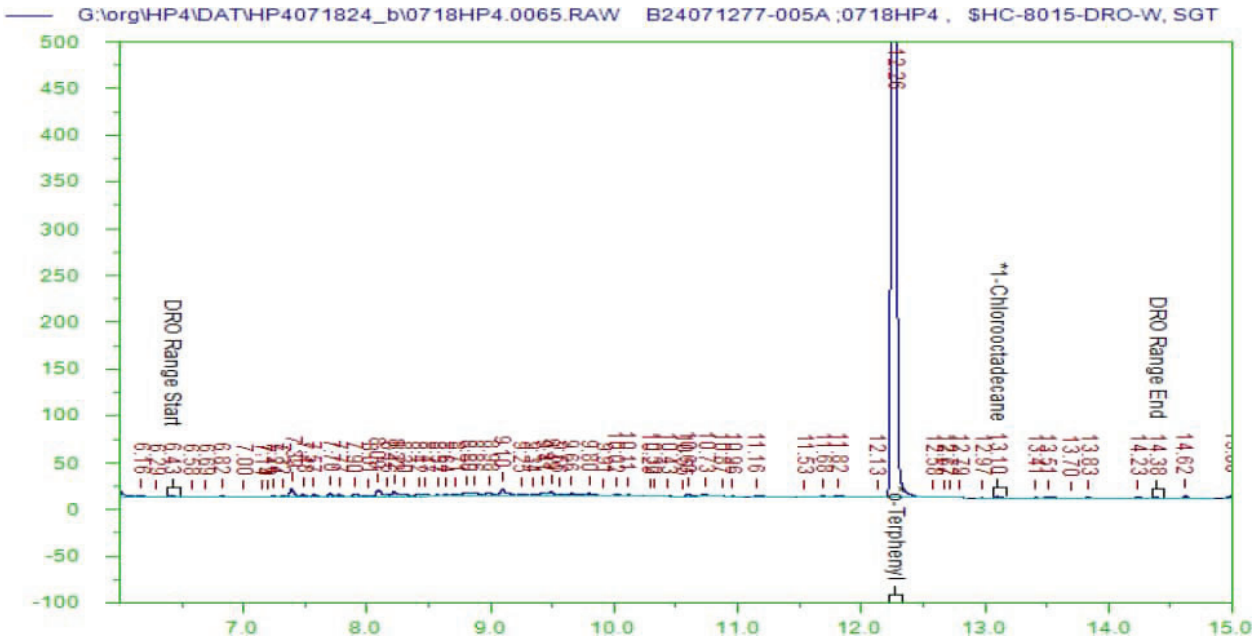
Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

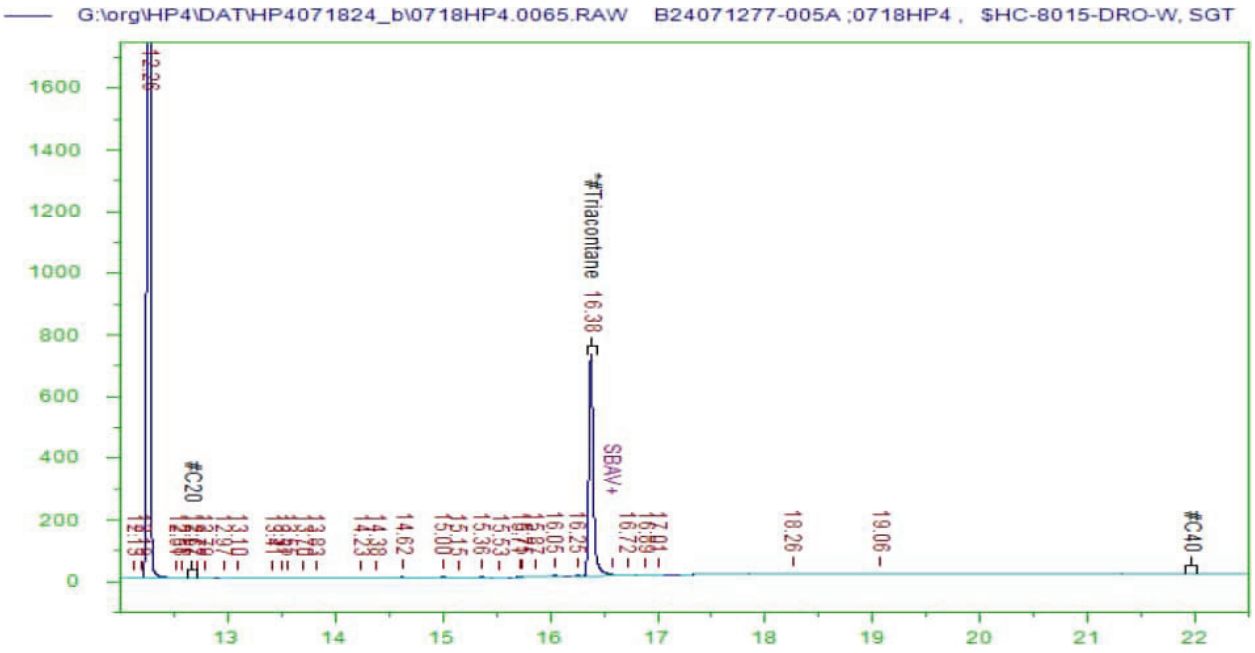
Results (ug/L): **TPH-d (C10 to C24) 169 J** **TPH-o (C24 to C40) 168.4 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**



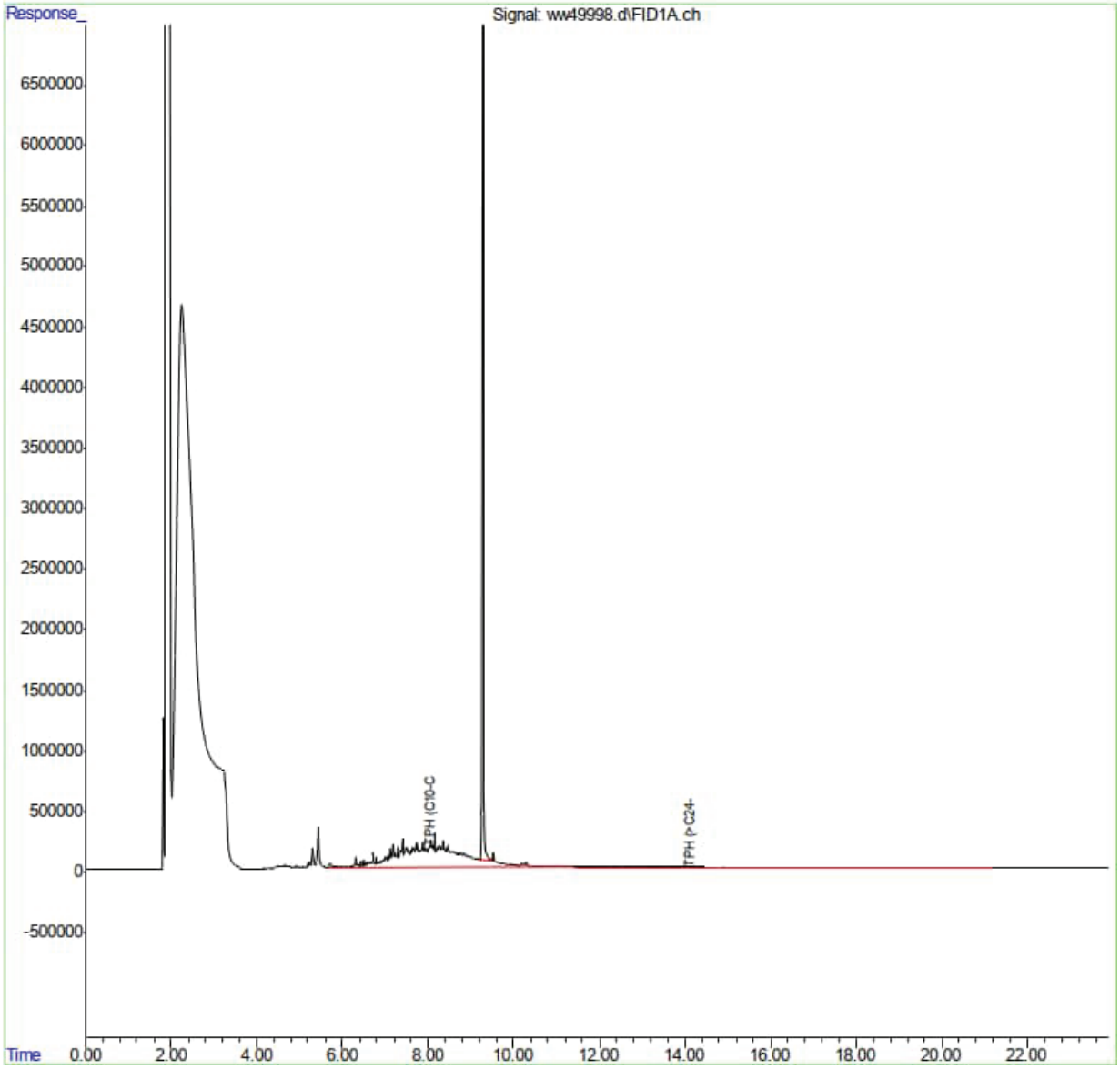


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2408A Sample Date: 8/5/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 201 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:37:10 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

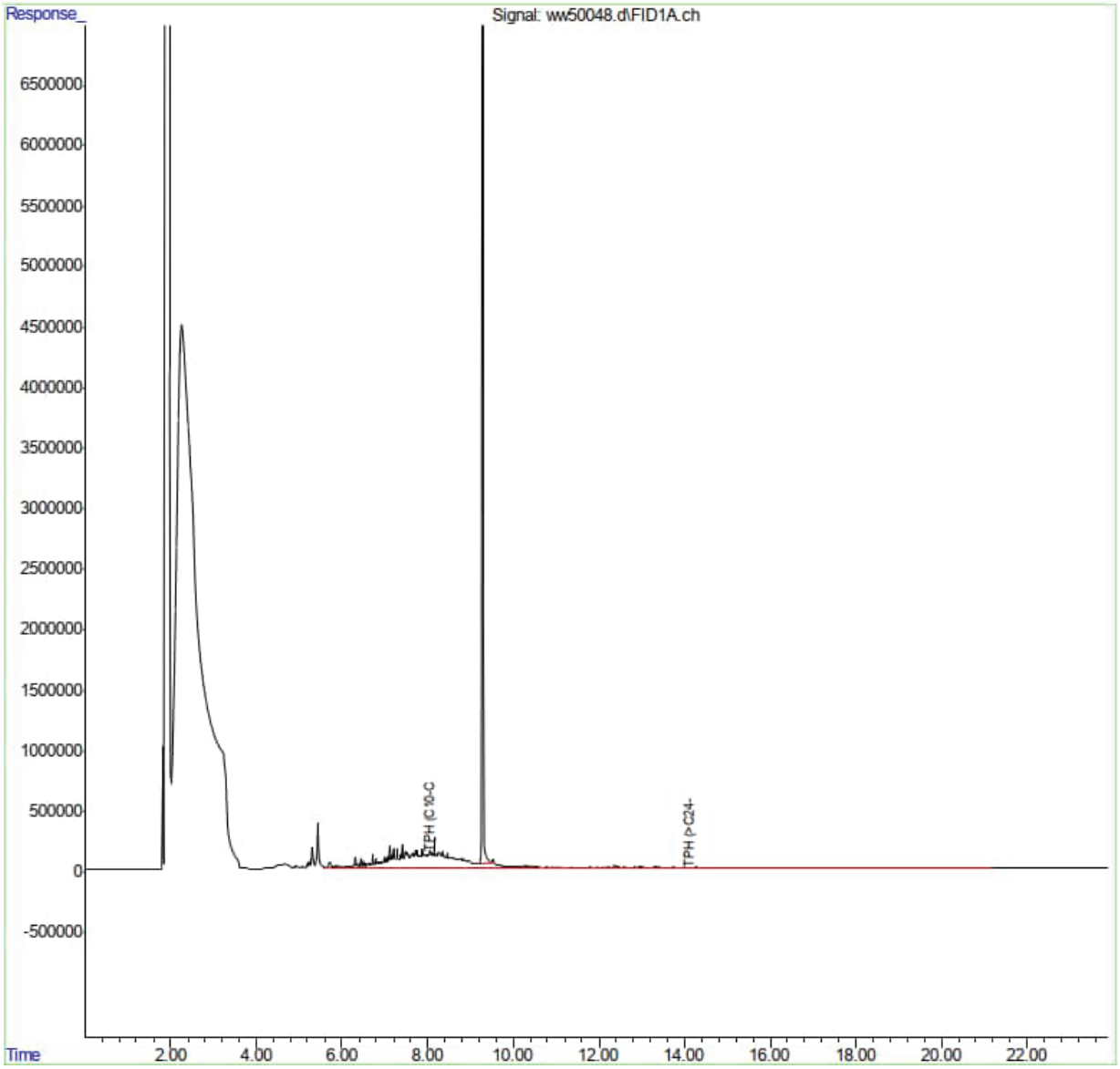
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 142 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:33:19 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
```

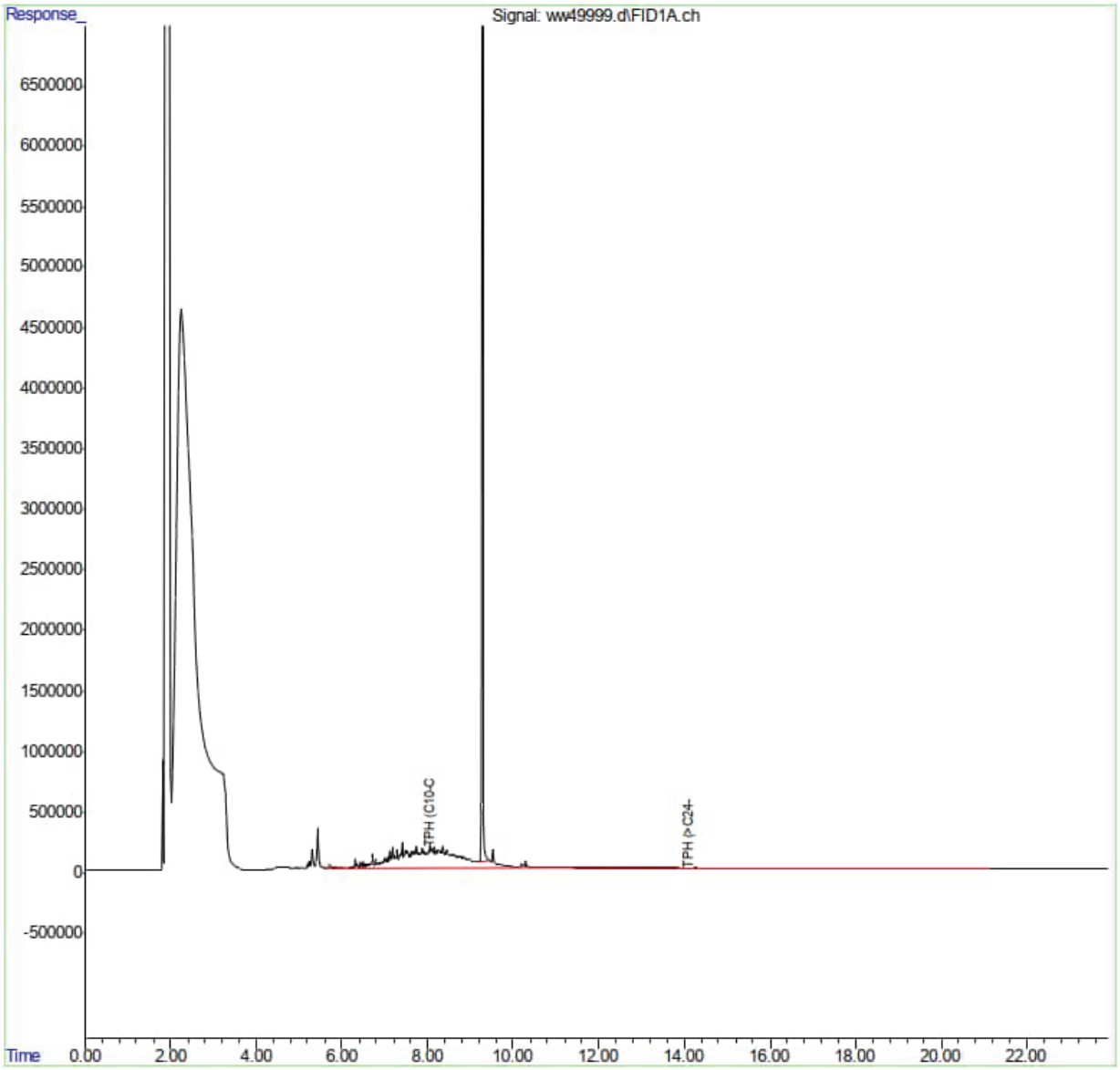


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2408A Sample Date: 8/5/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 179 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:37:12 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

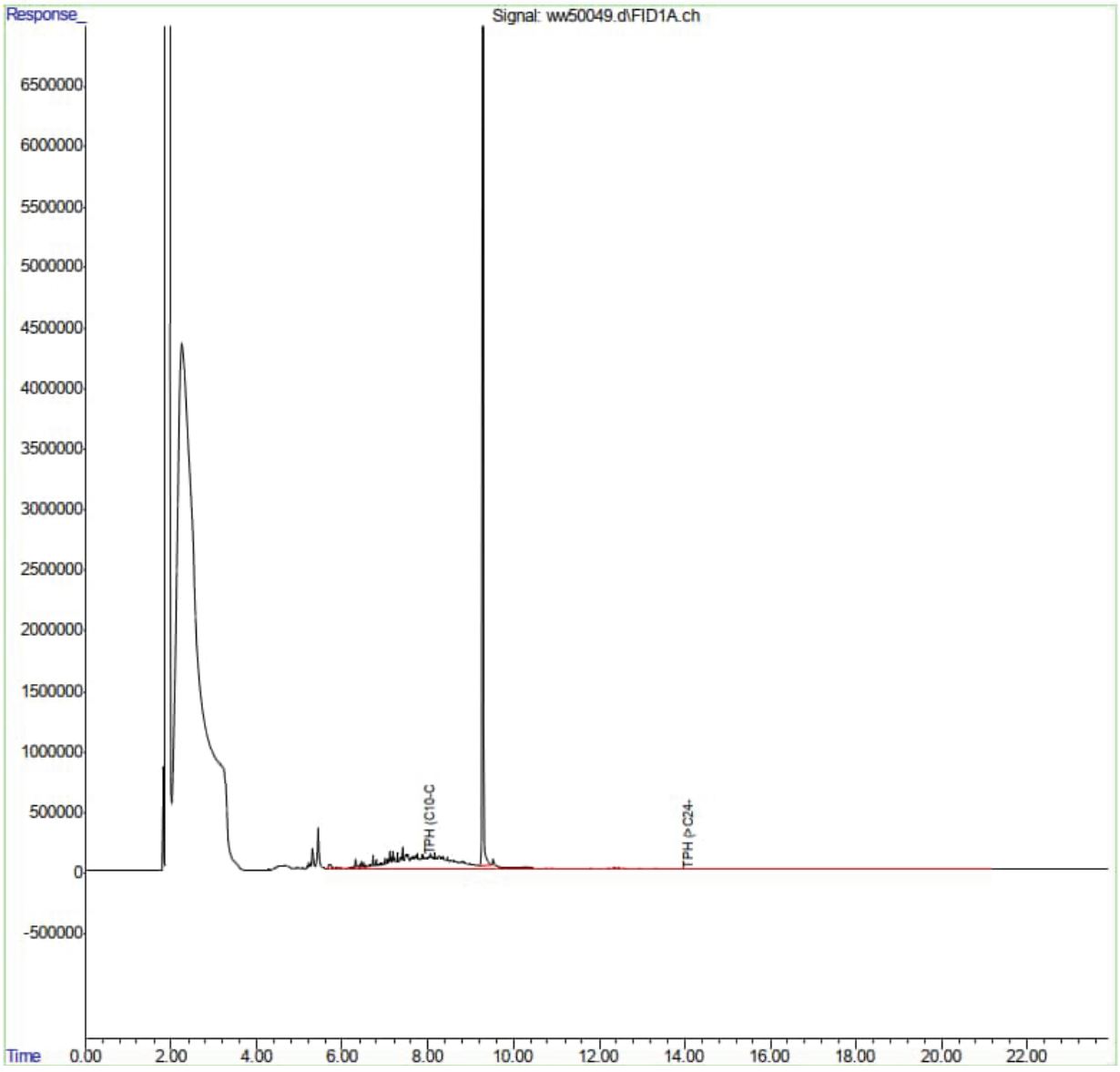
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 124 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:33:21 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
```

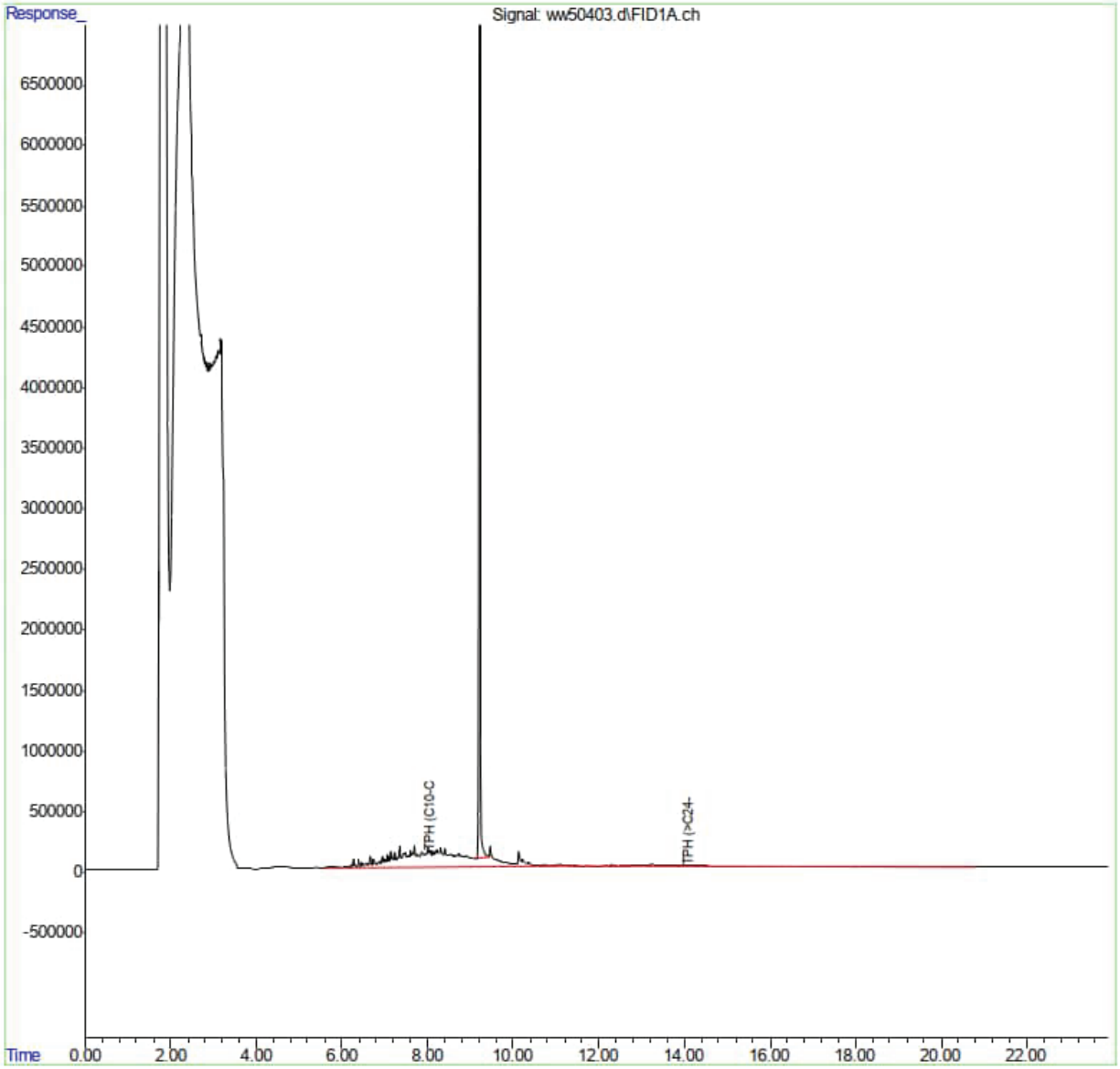


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2408B Sample Date: 8/22/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 179 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 27 16:43:41 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

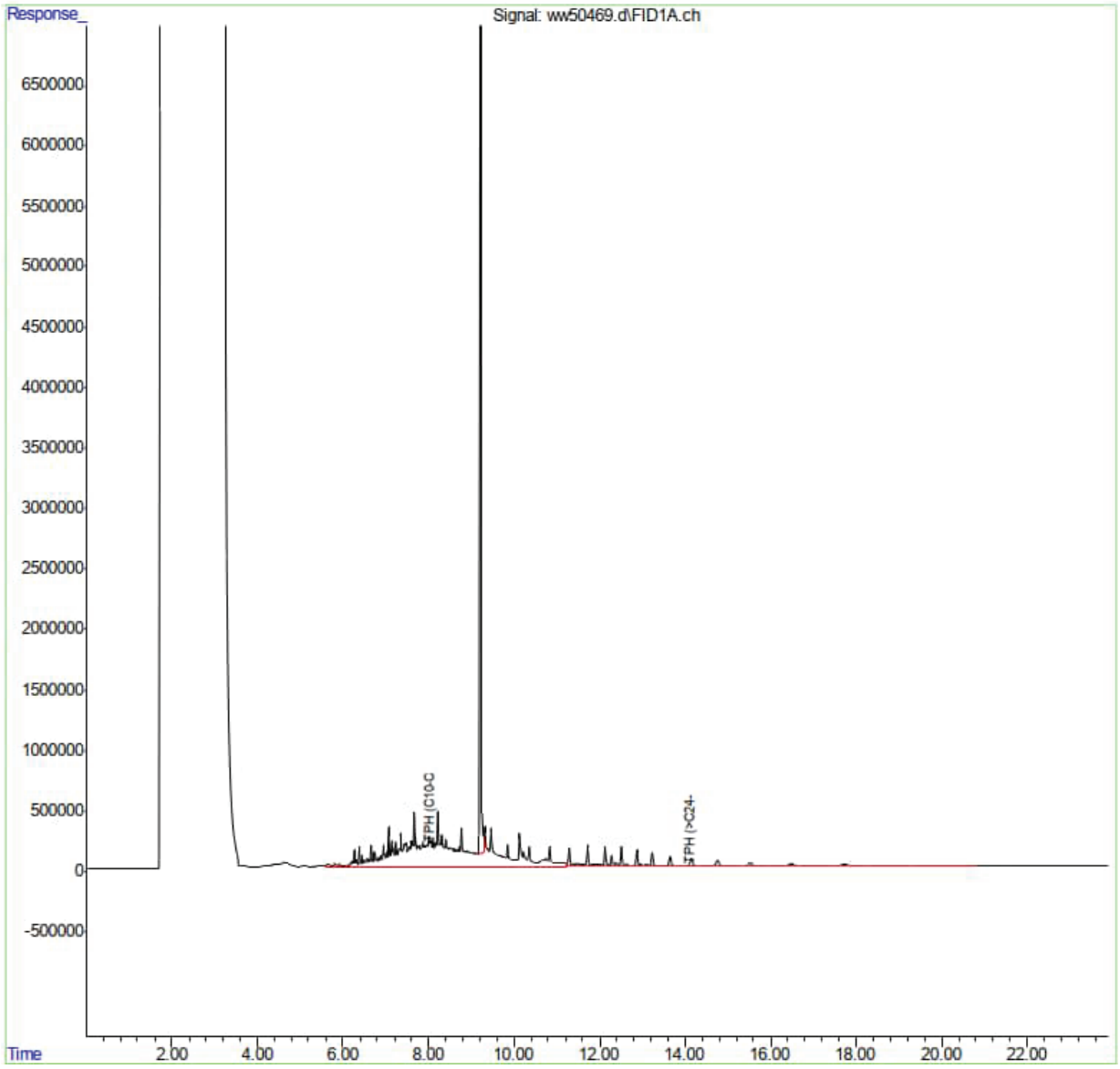
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 157 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 29 10:31:58 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
```

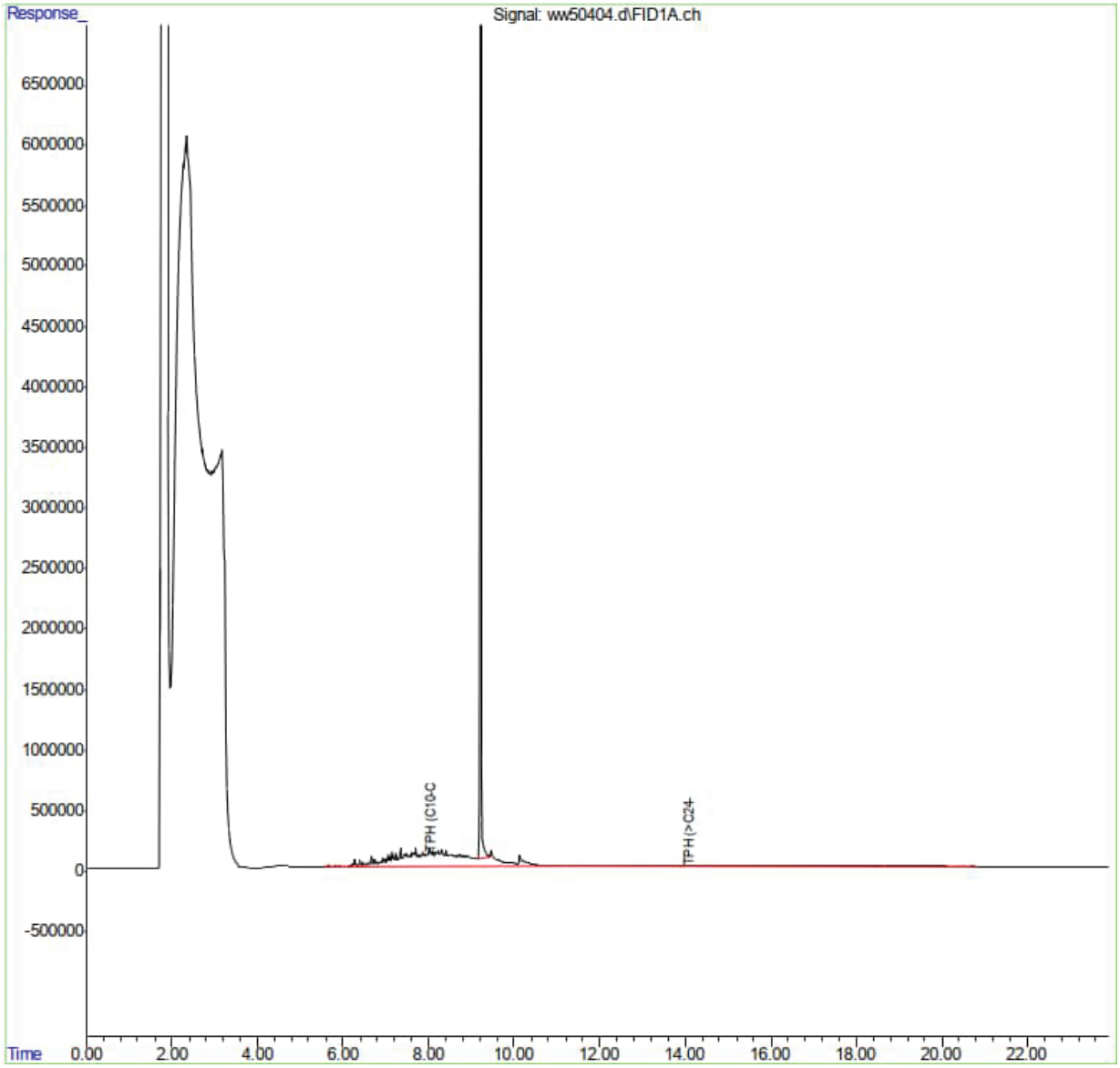


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2408B Sample Date: 8/22/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 163 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 27 16:53:56 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

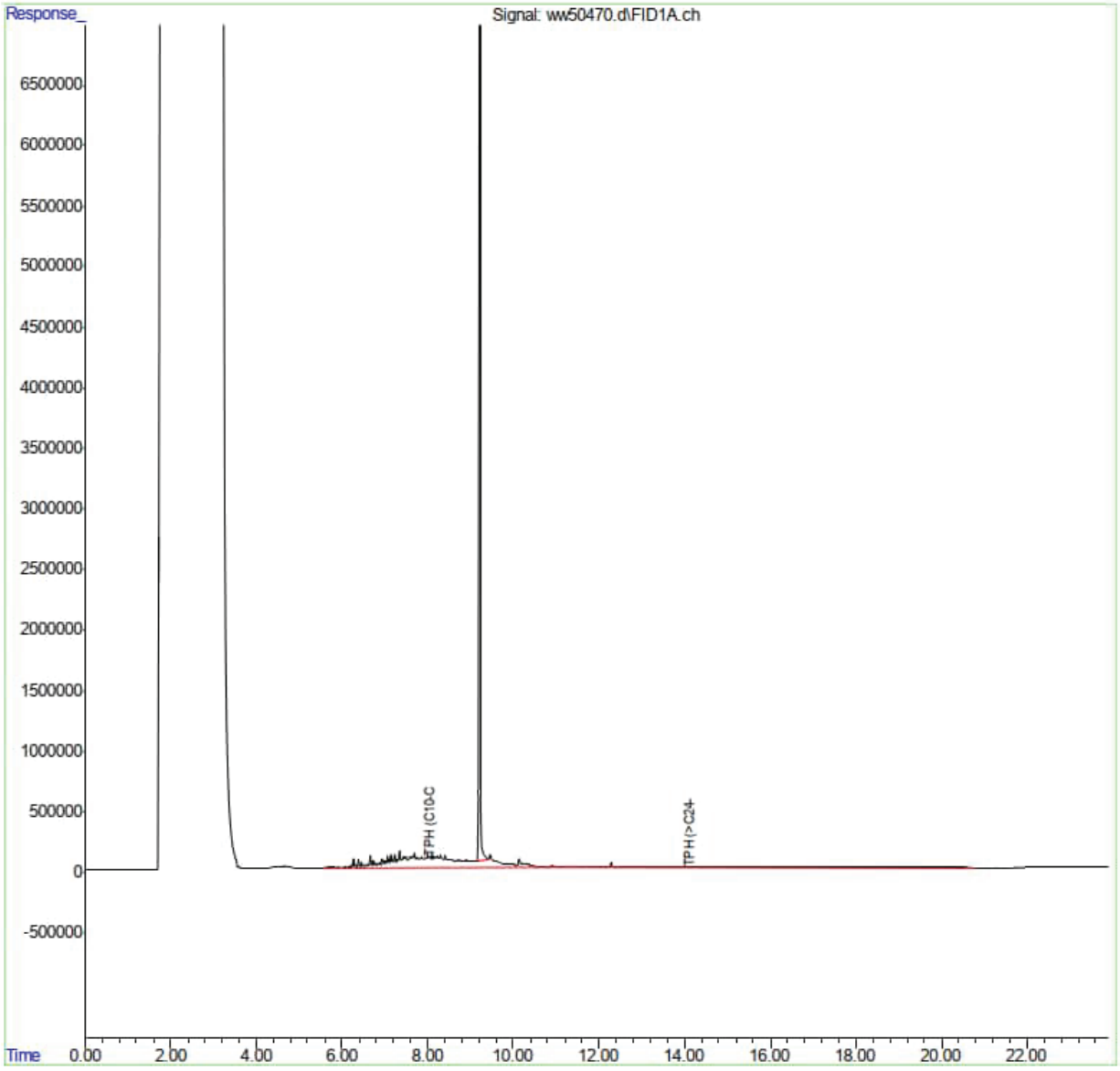
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 138 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 29 10:26:01 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
```

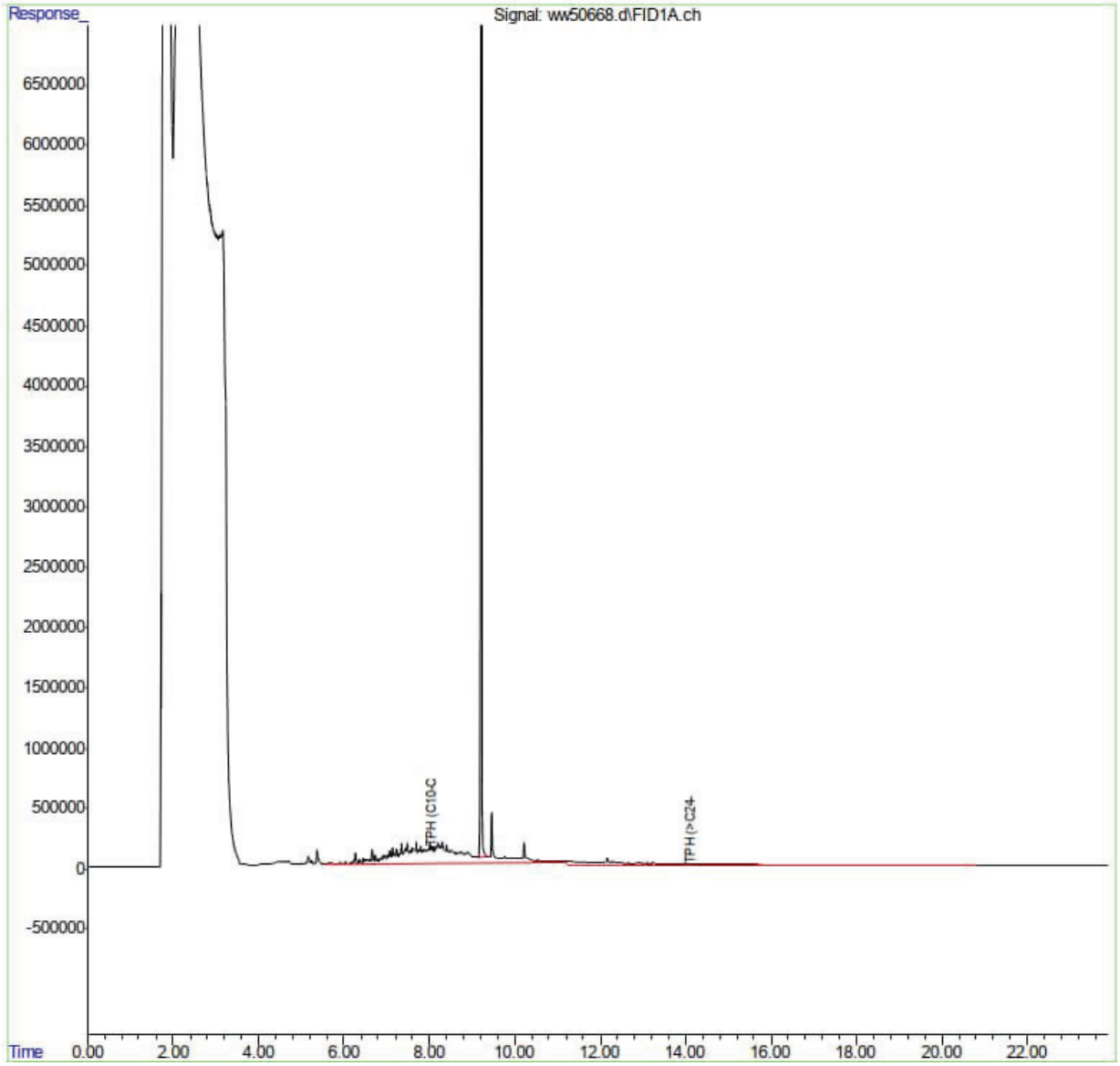


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2409A Sample Date: 9/3/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 172 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Sep 09 10:13:51 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

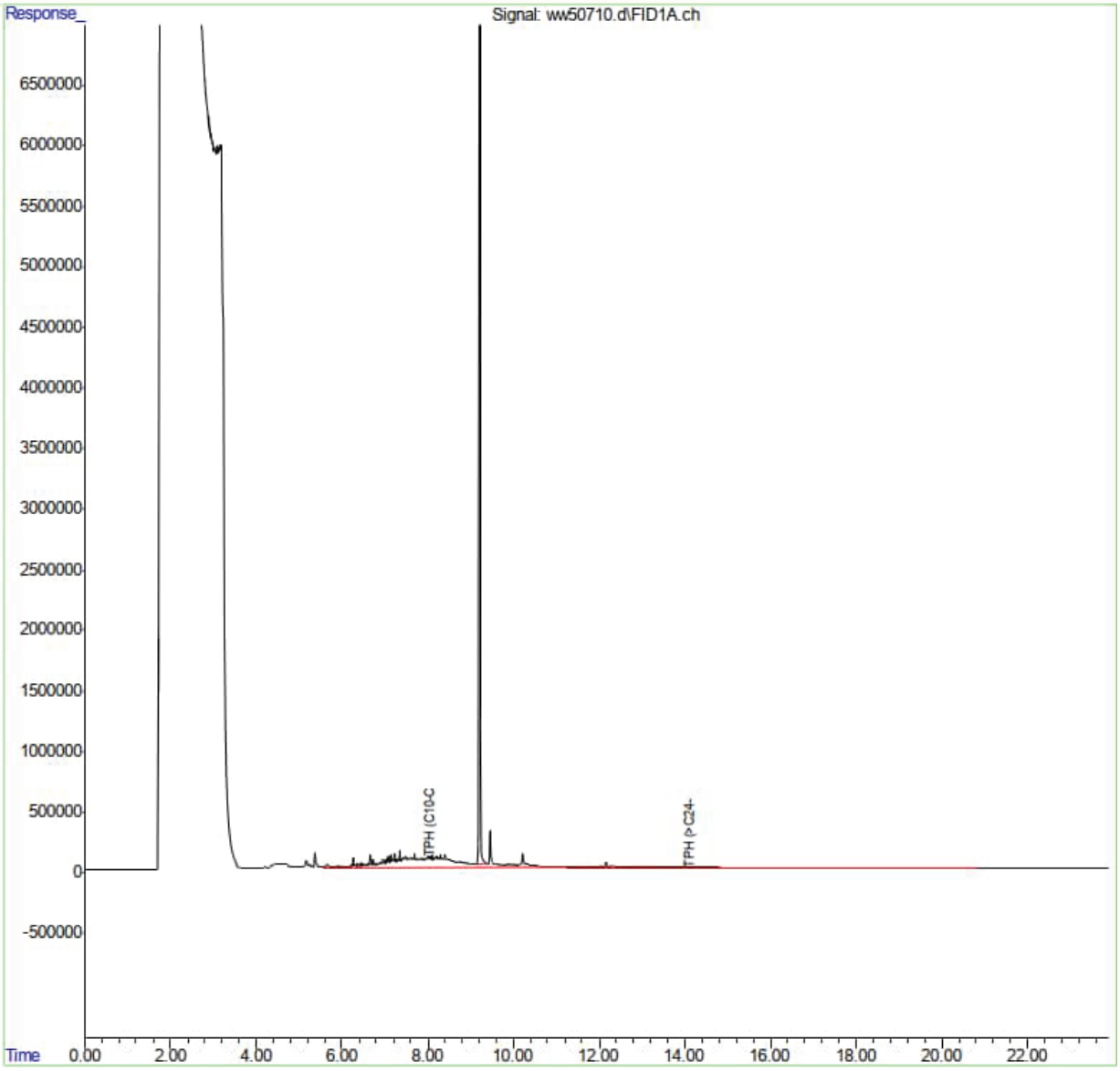
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 110 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 10 09:34:16 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
```

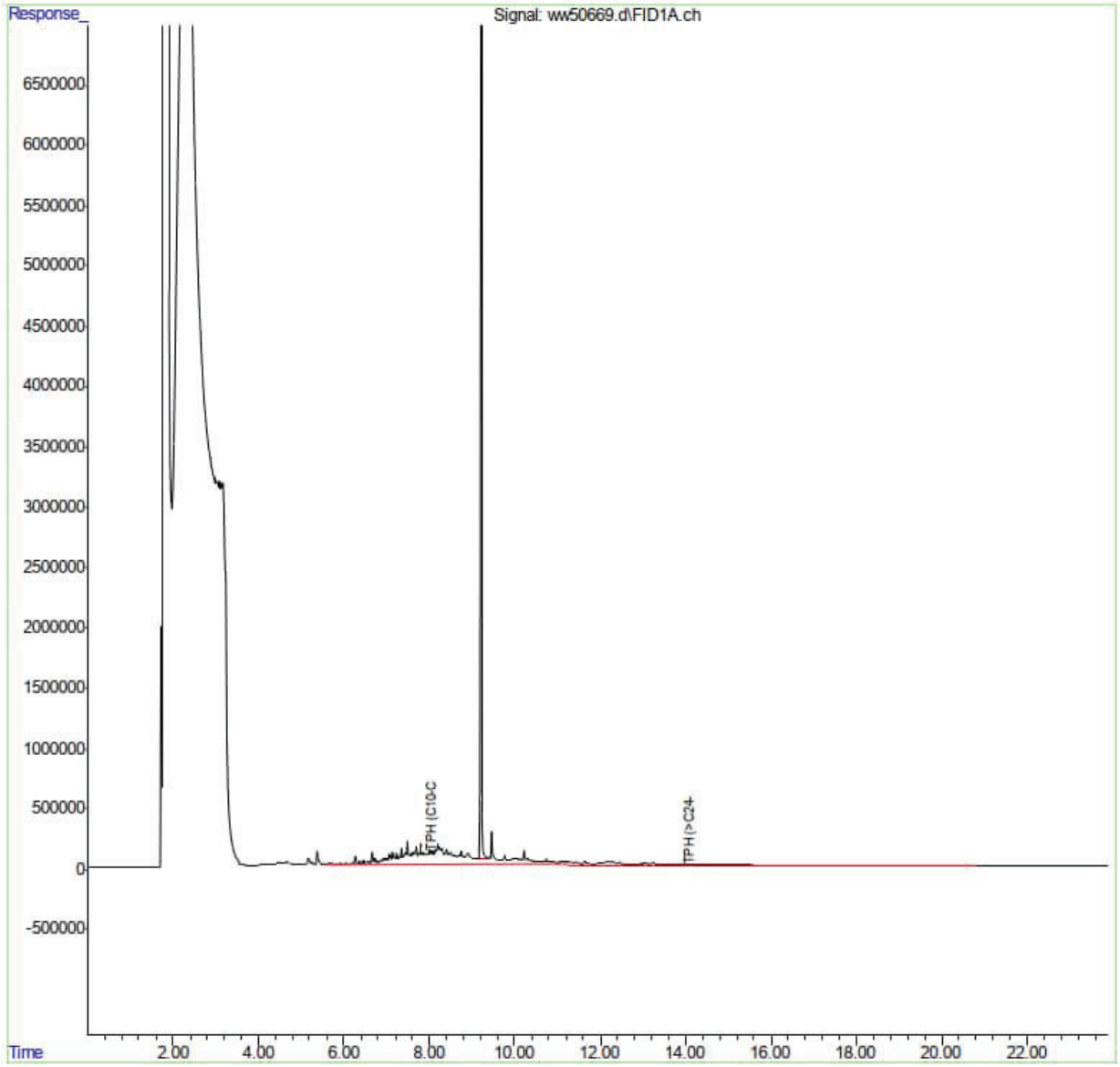


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2409A Sample Date: 9/3/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 143 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Sep 09 10:13:53 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

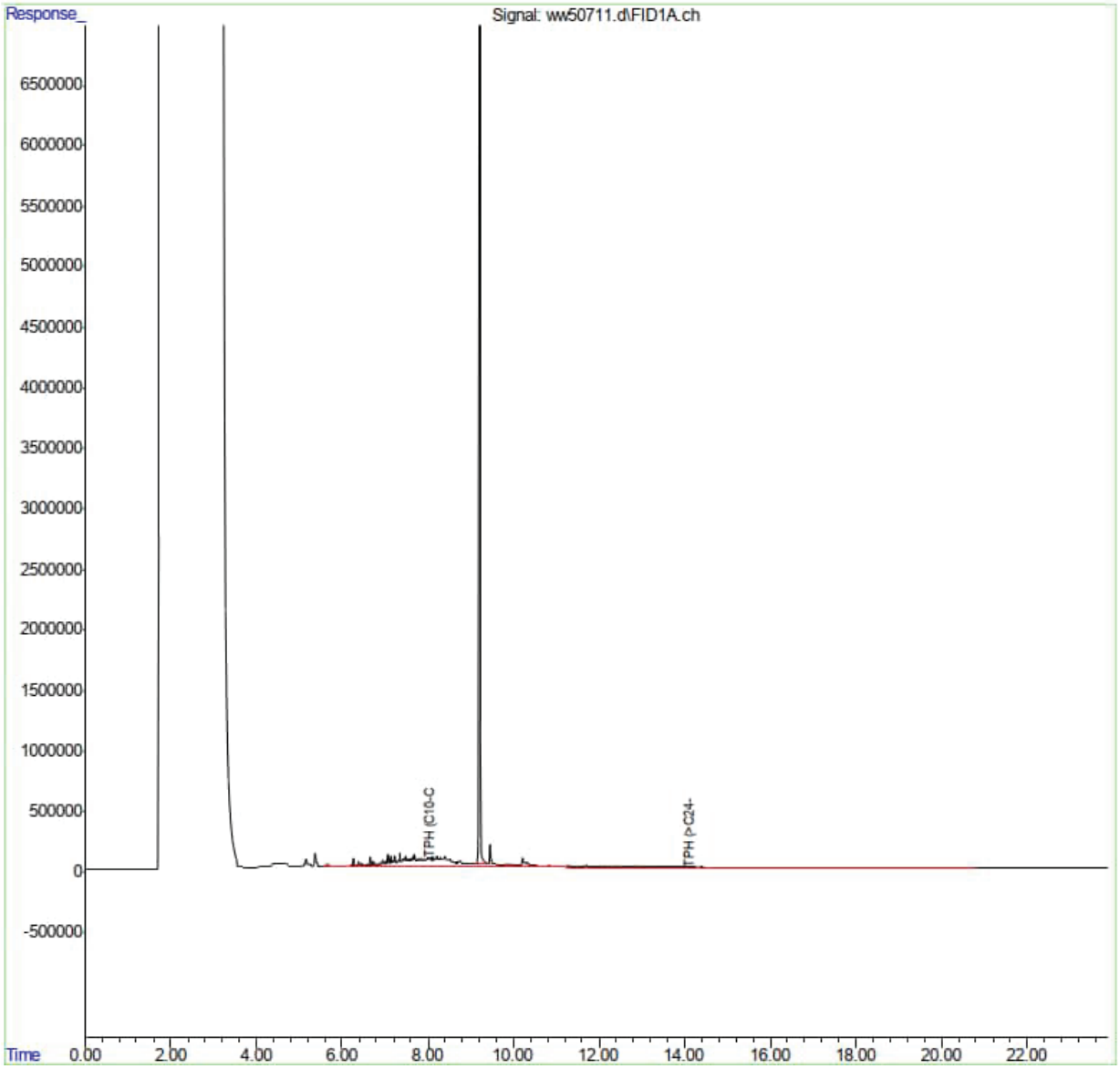
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 94.3 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 10 09:34:18 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
```

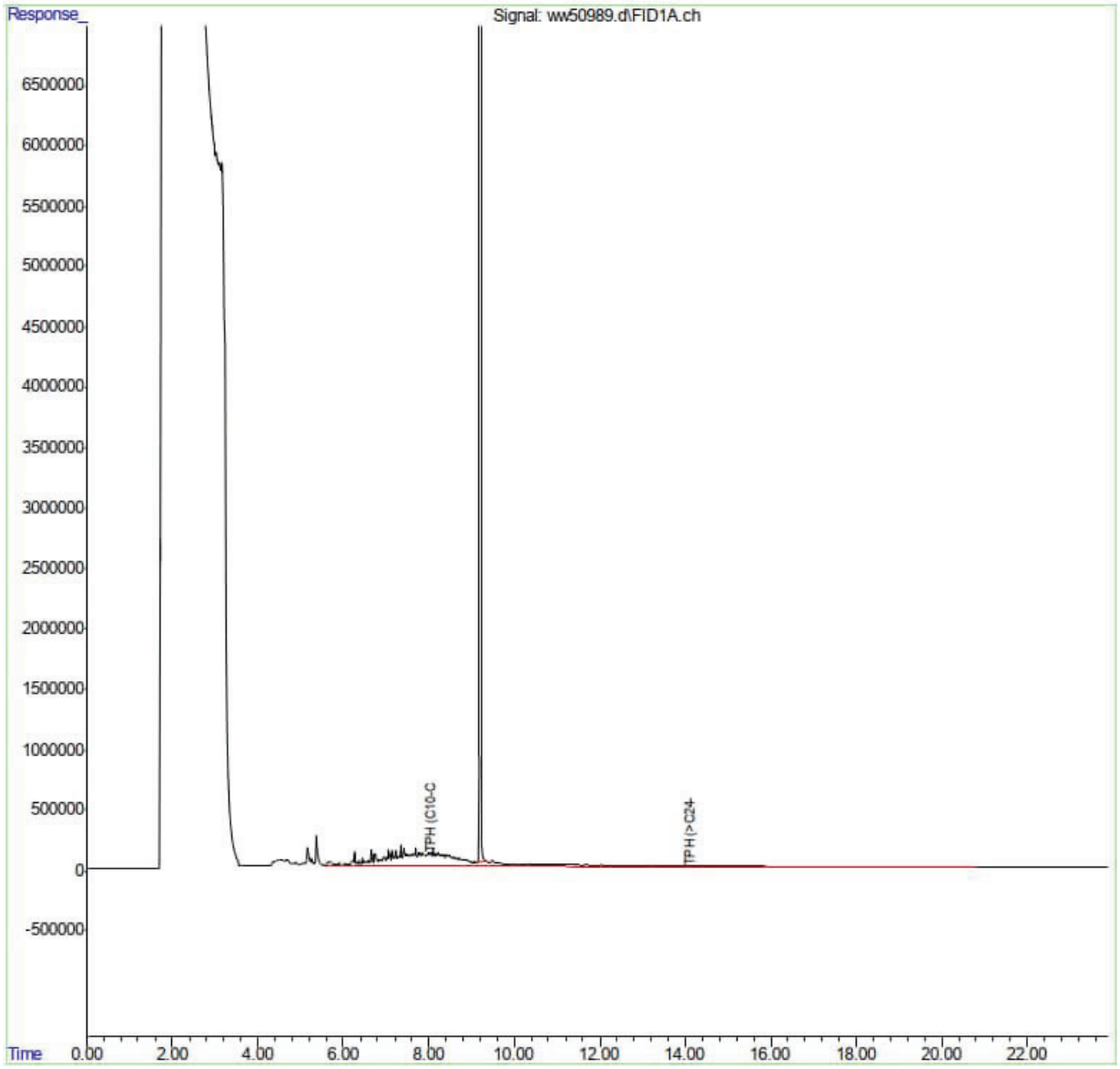


Location: **RHMW01R** Sample ID: RHMW01R-WGN01LF-2409B Sample Date: 9/16/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 121 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Sep 23 09:53:43 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

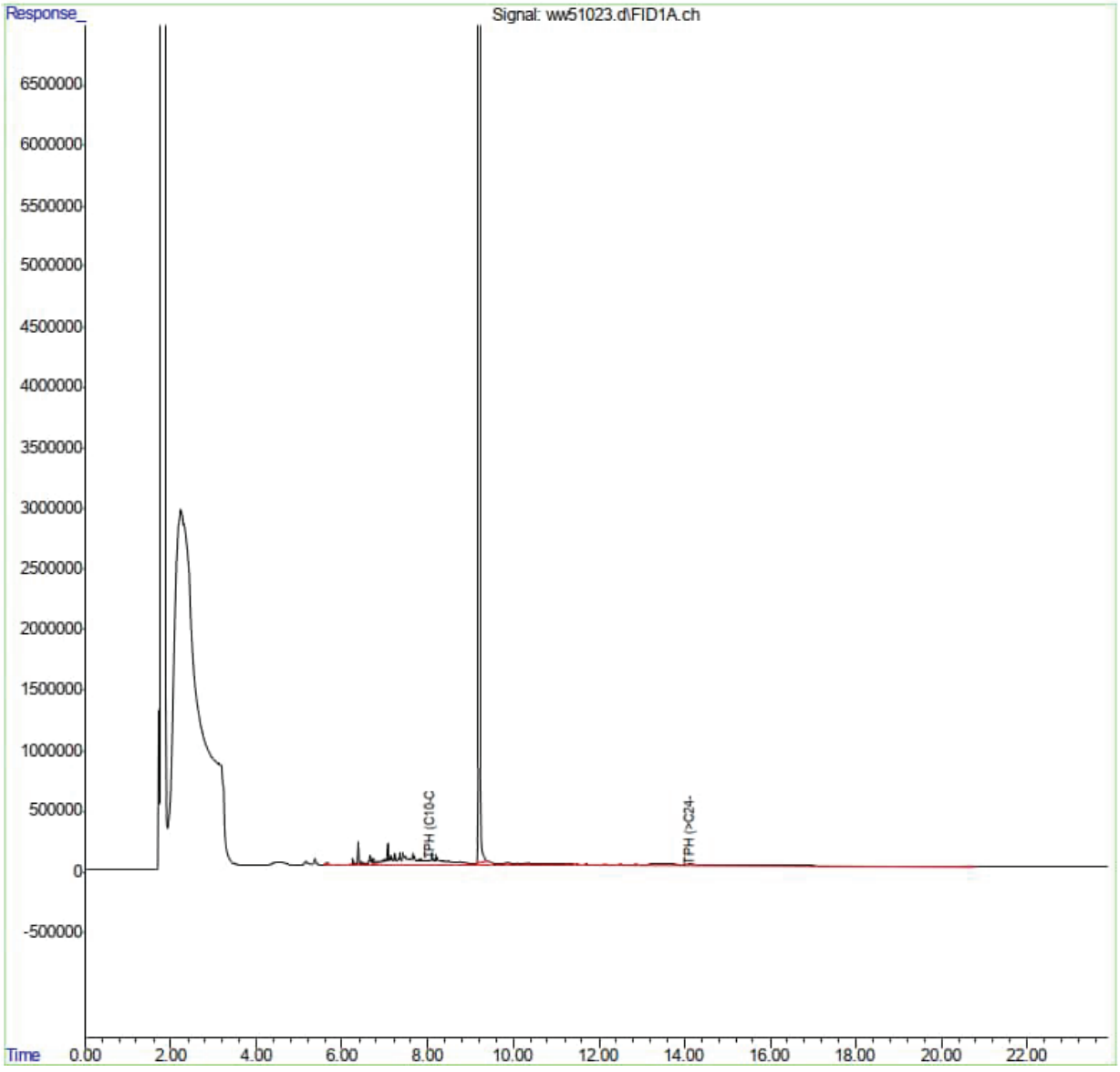
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 24 15:26:50 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
```

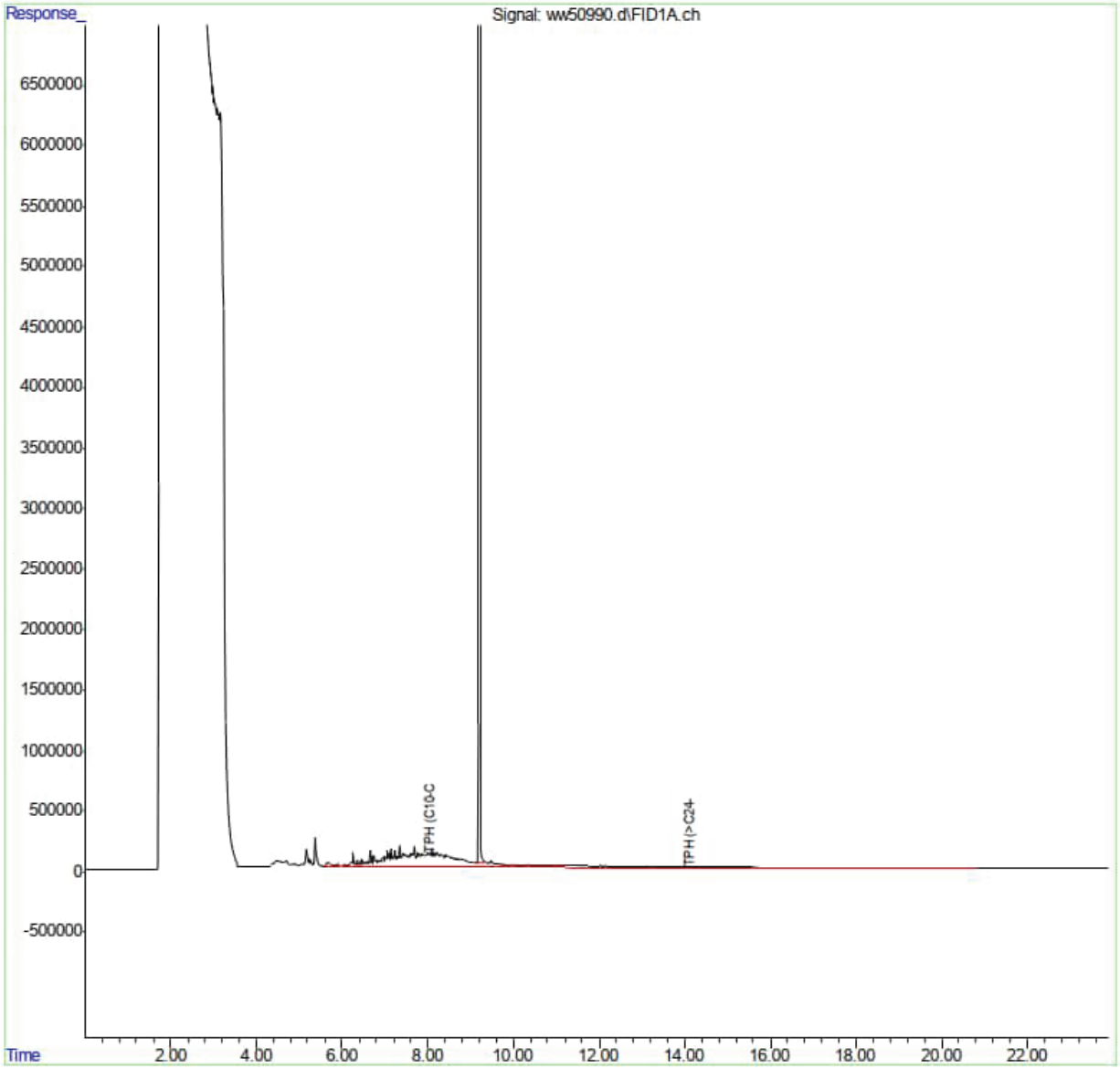


Location: **RHMW01R** Sample ID: RHMW01R-WGFD01LF-2409B Sample Date: 9/16/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 128 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Sep 23 09:53:45 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

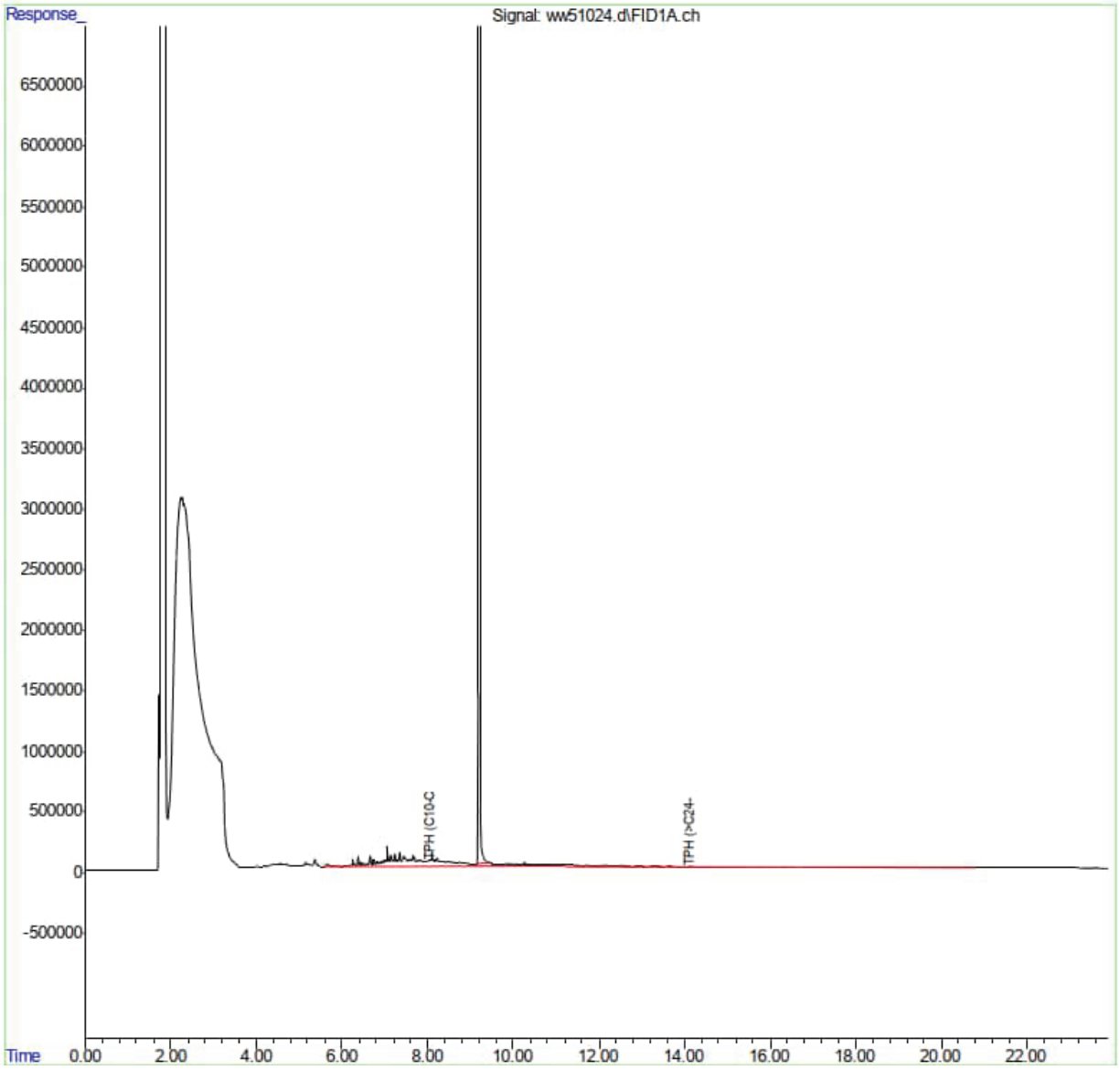
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 24 15:28:57 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
```

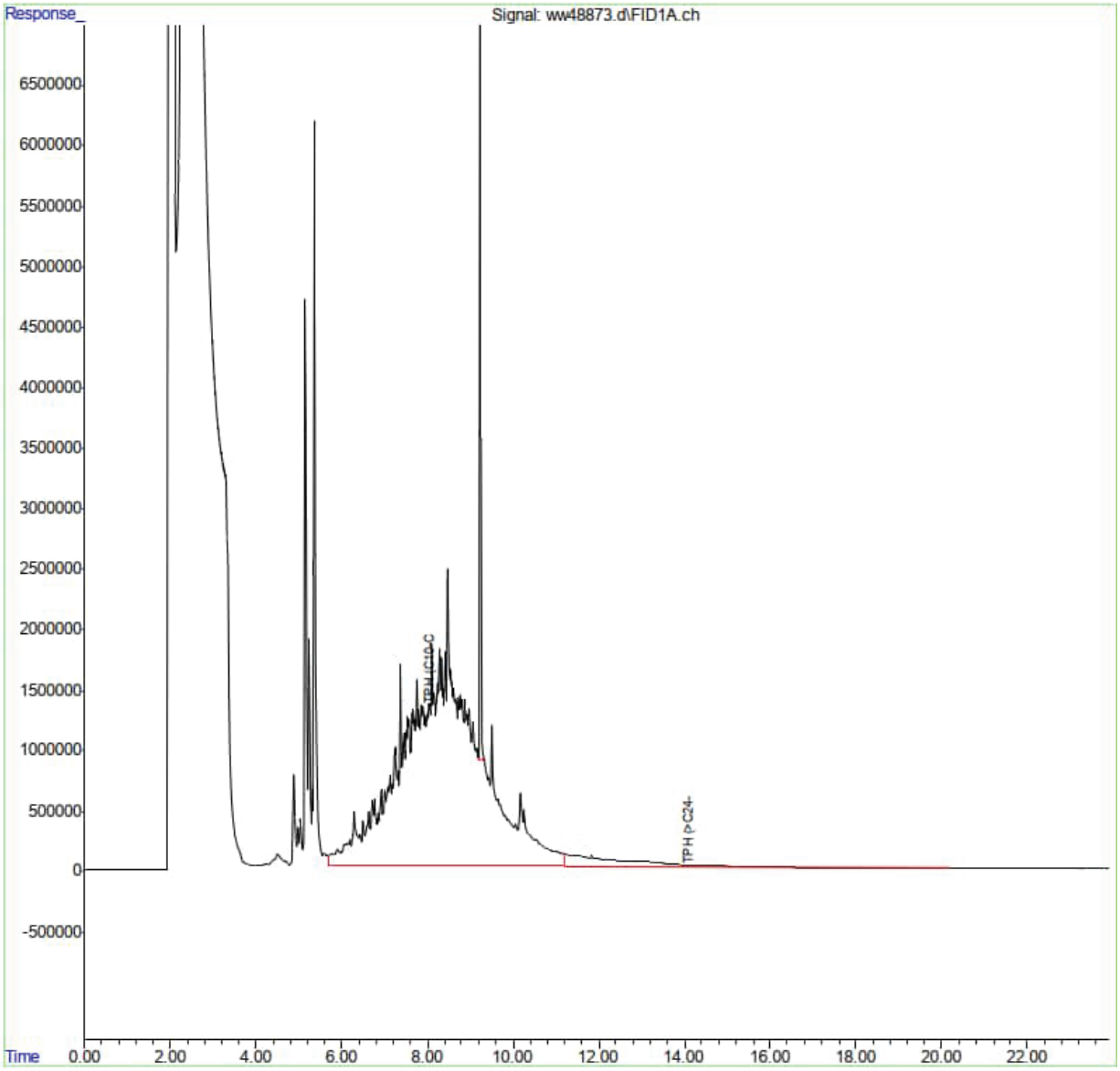


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2406B Sample Date: 6/17/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,670** **TPH-o (C24 to C40) 118 J**

```
Quant Time: Jun 25 11:42:10 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

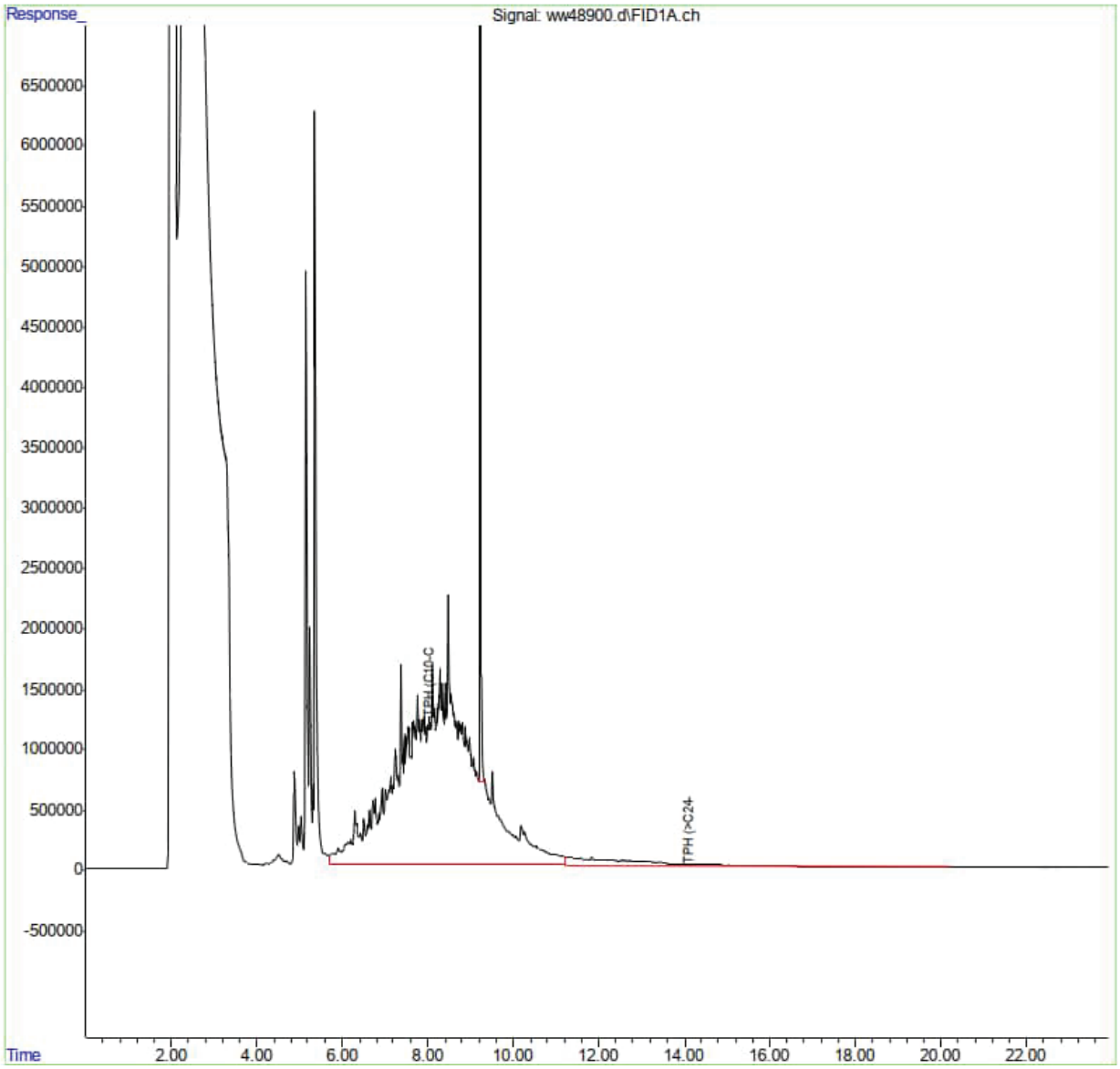
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,410** **TPH-o SGC (C24 to C40) 91.1 J**

```
Quant Time: Jun 25 11:41:41 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

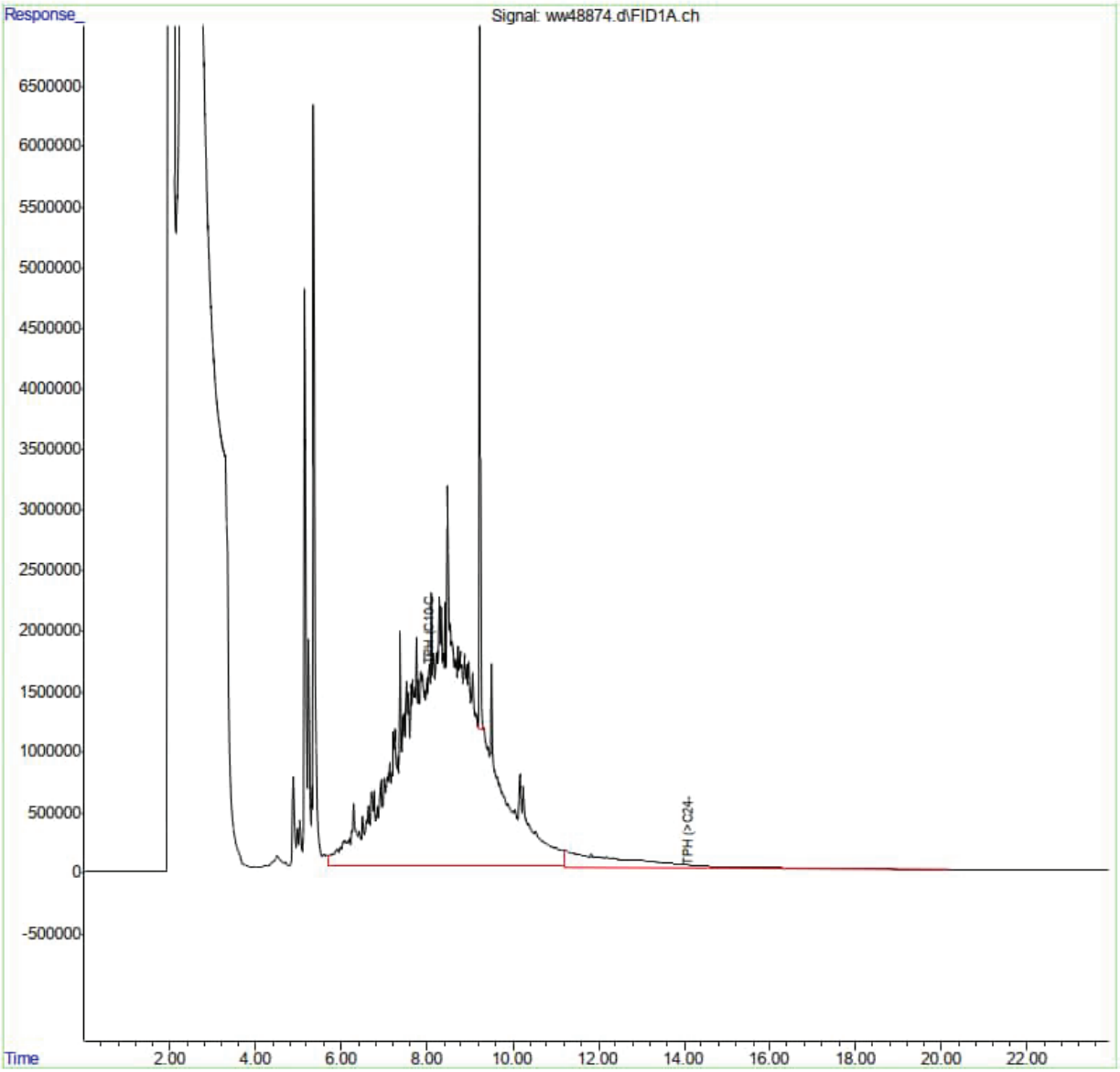


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2406B Sample Date: 6/17/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,980** **TPH-o (C24 to C40) 154 J**

```
Quant Time: Jun 25 11:24:54 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

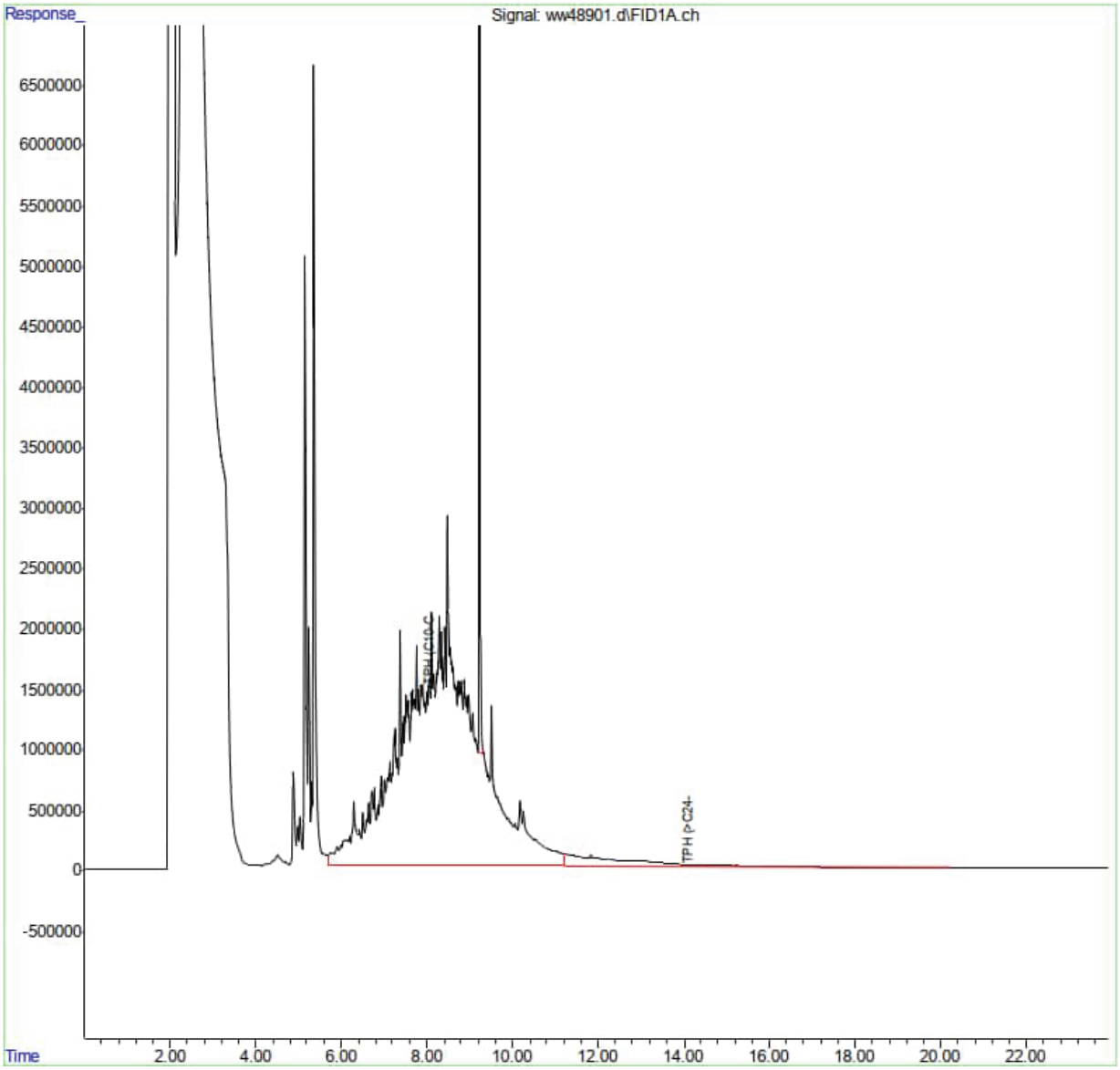
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,810** **TPH-o SGC (C24 to C40) 113 J**

```
Quant Time: Jun 25 12:41:14 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

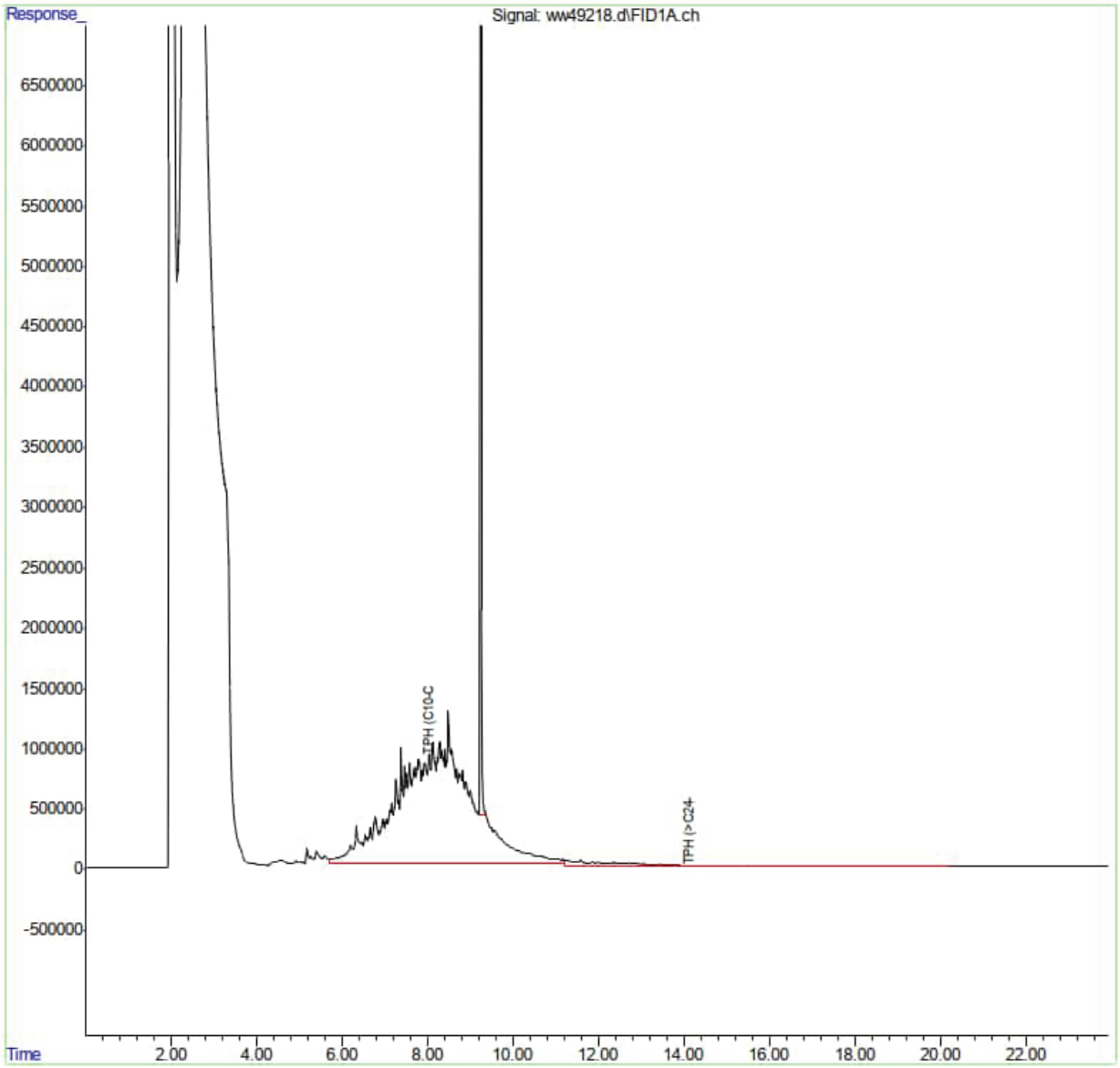


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2407A Sample Date: 7/1/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 961 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jul 08 10:31:29 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

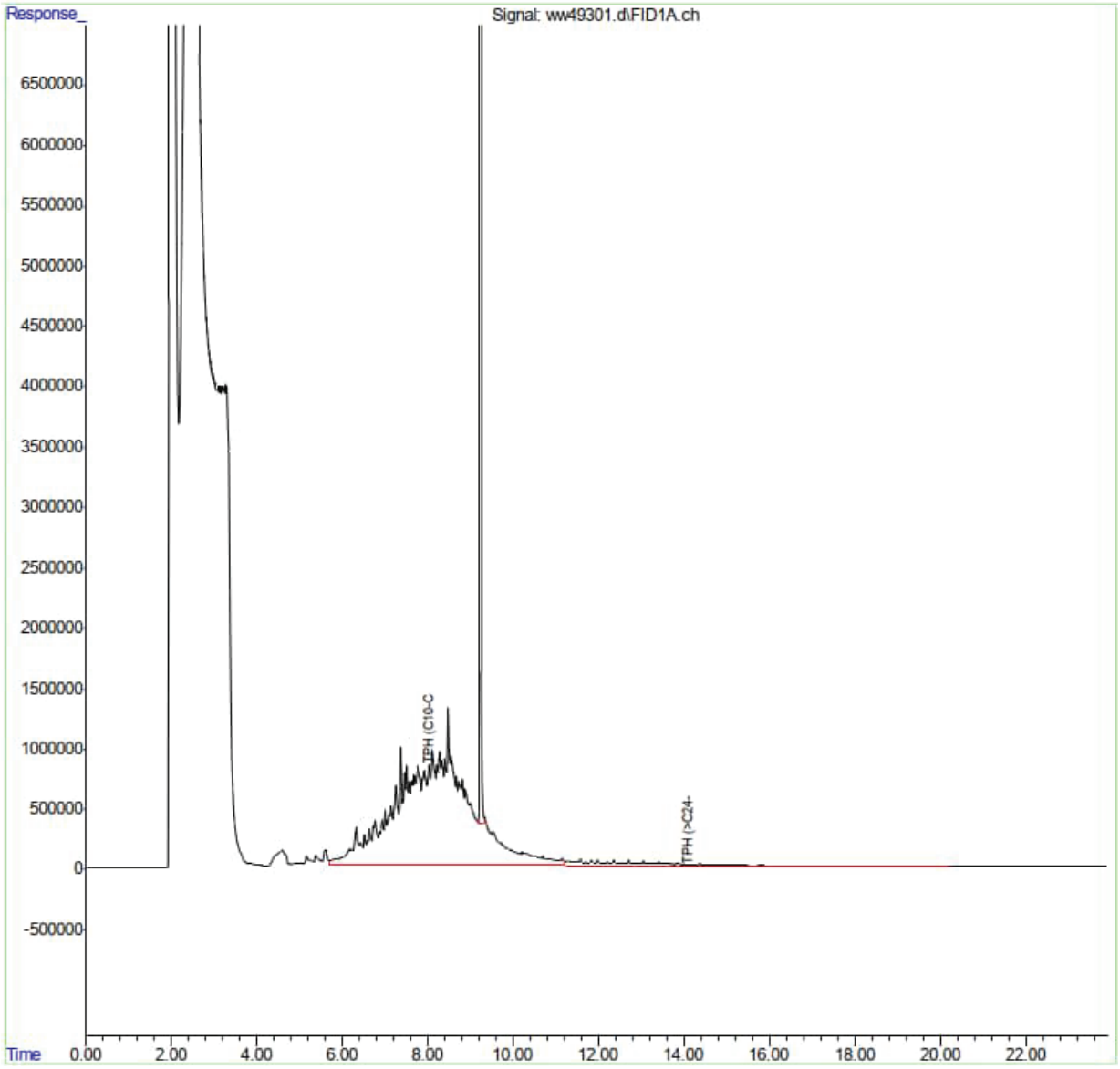
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 897** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 10 13:53:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

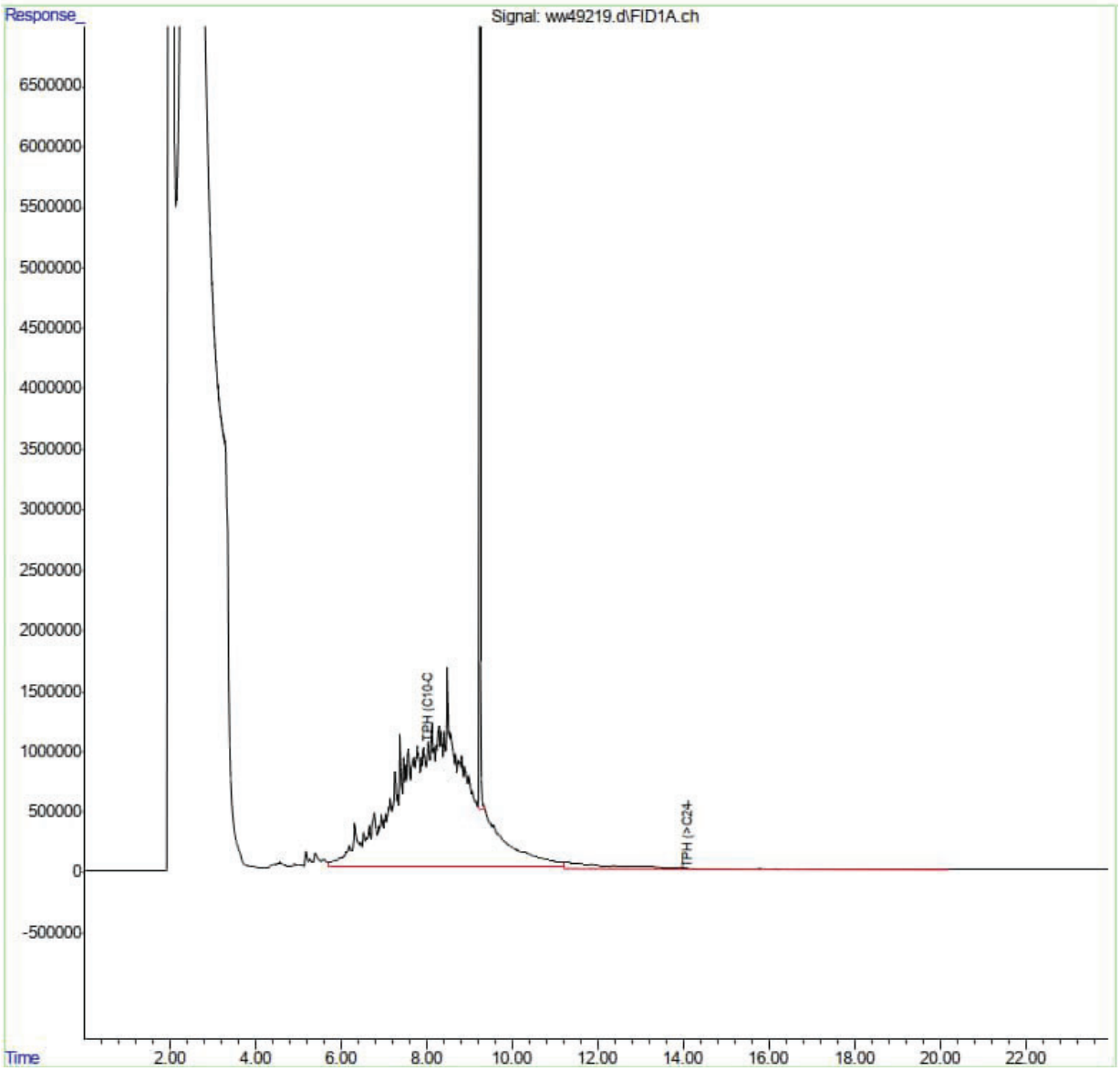


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2407A Sample Date: 7/1/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 1,470 J** **TPH-o (C24 to C40) 109 J**

```
Quant Time: Jul 08 10:31:58 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

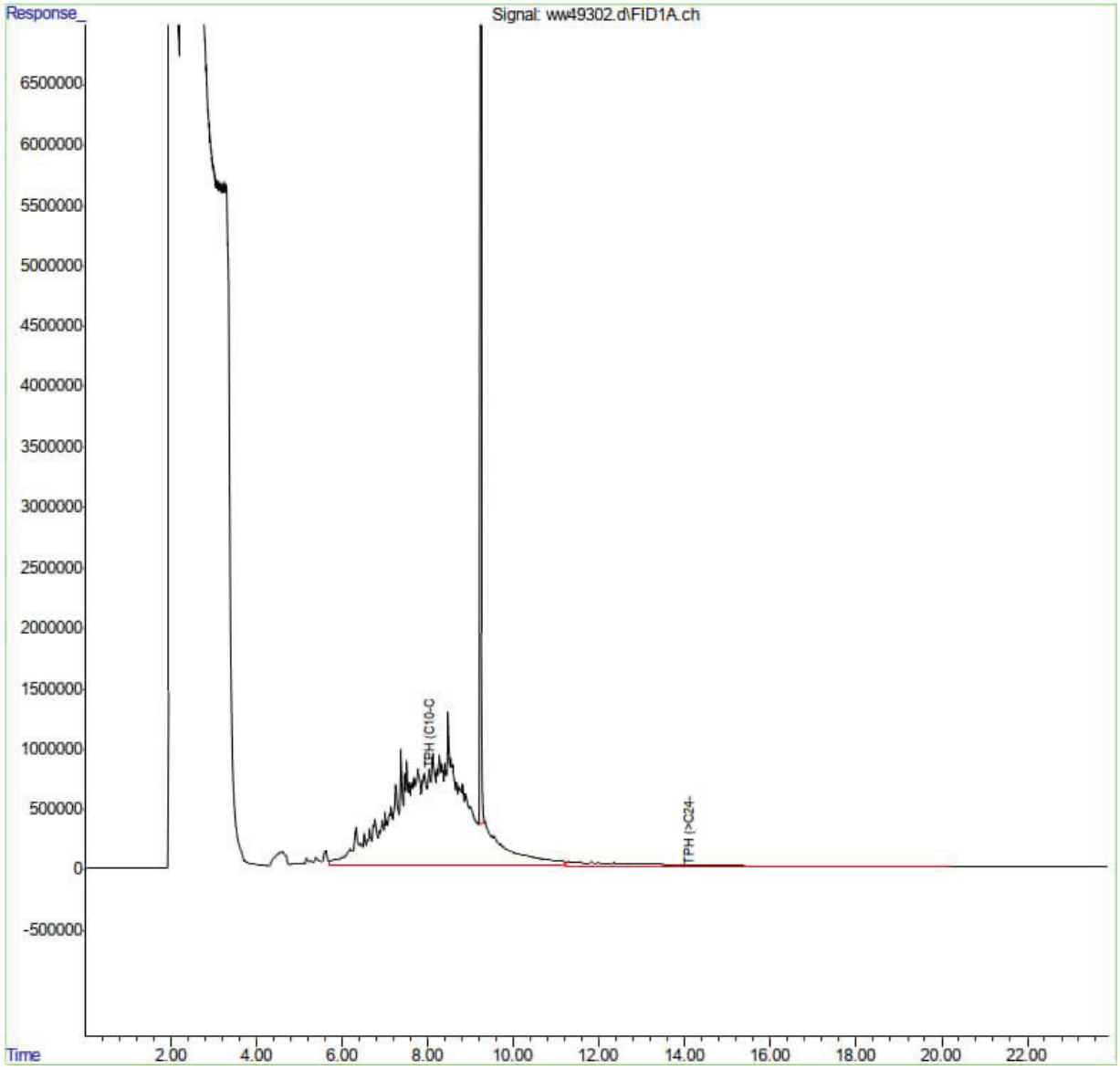
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 946 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 10 13:53:32 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

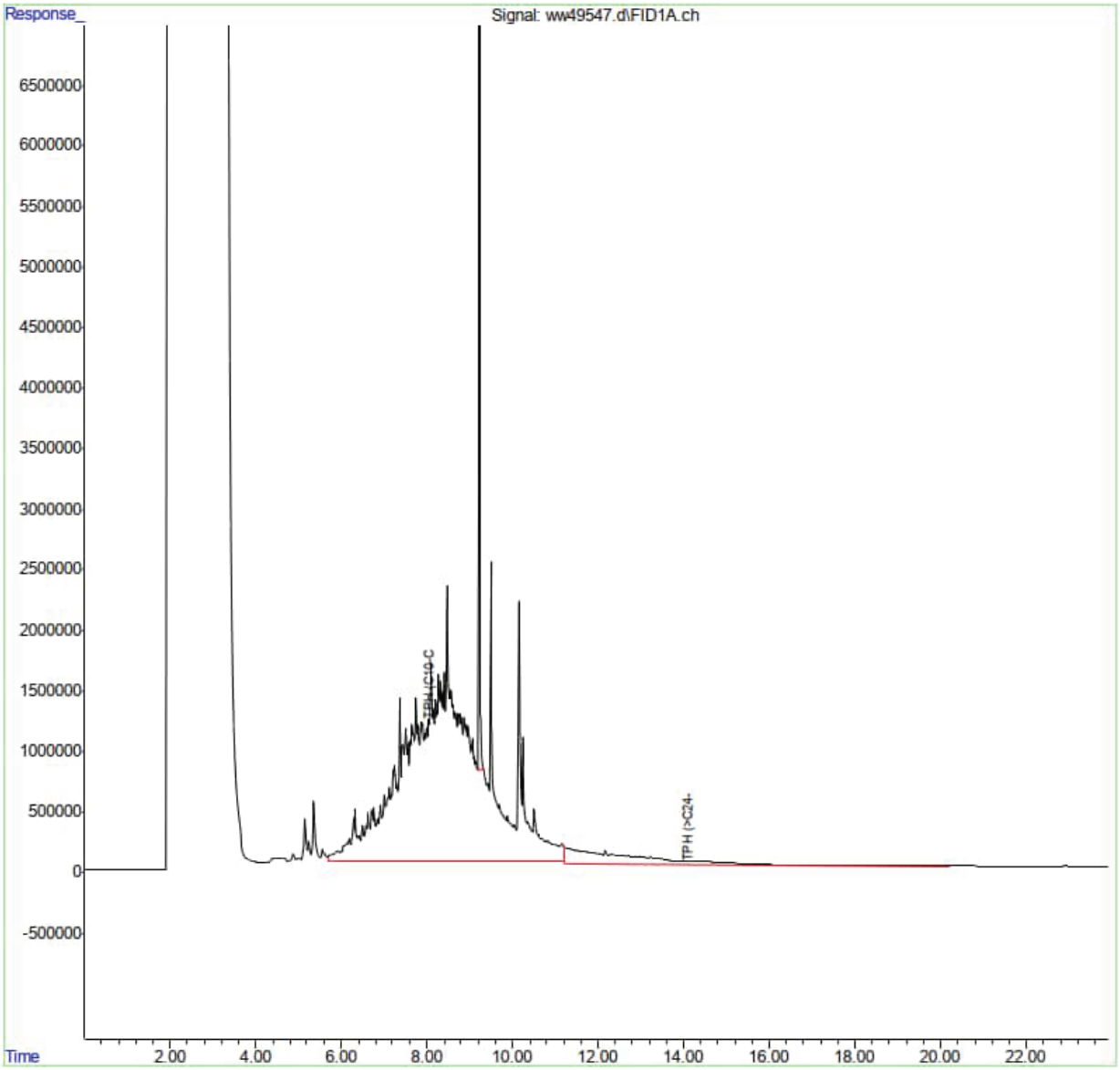


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,570** **TPH-o (C24 to C40) 166 J**

```
Quant Time: Jul 22 10:09:56 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

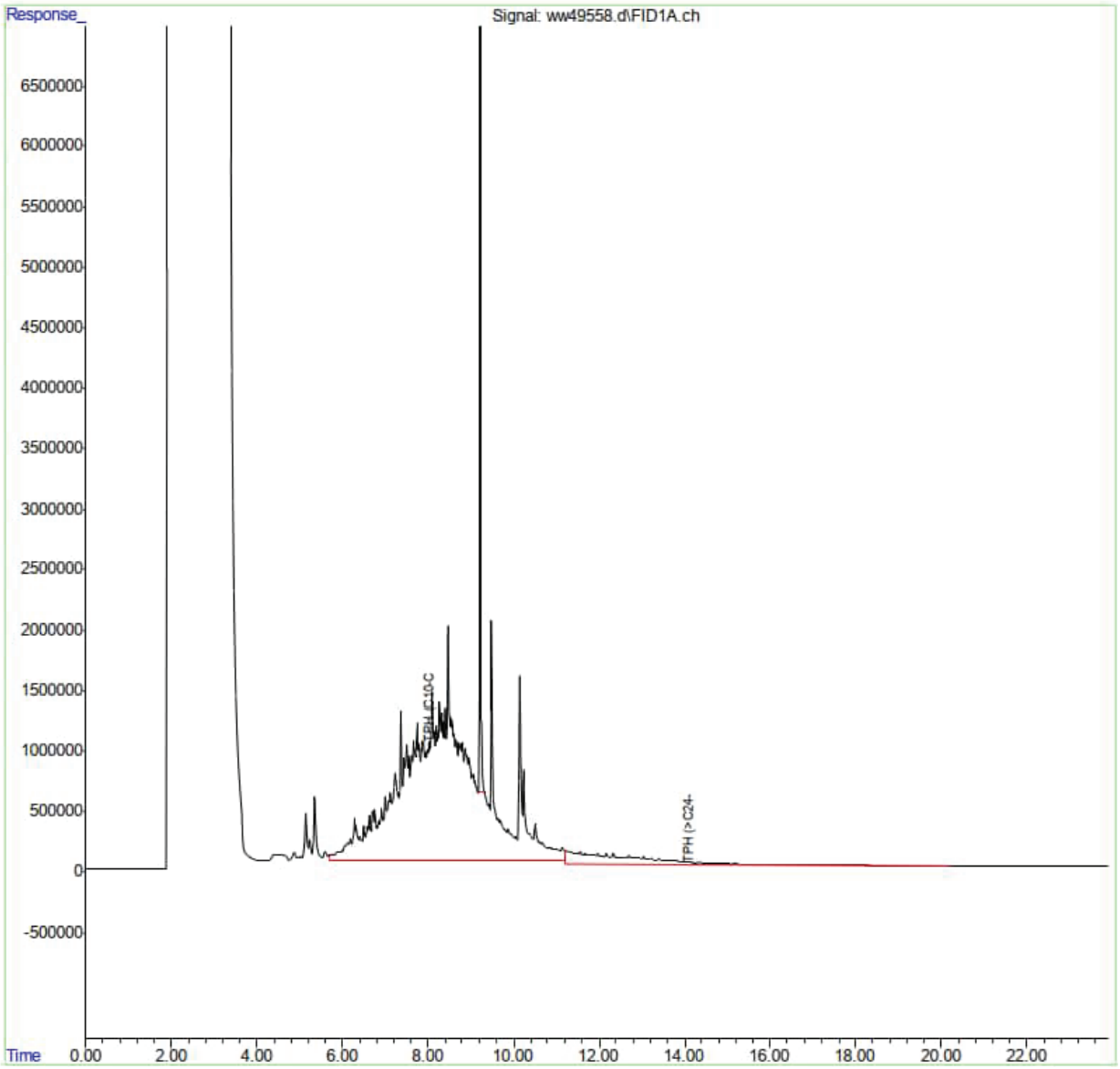
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,240 J** **TPH-o SGC (C24 to C40) 133 J**

```
Quant Time: Jul 22 10:17:13 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

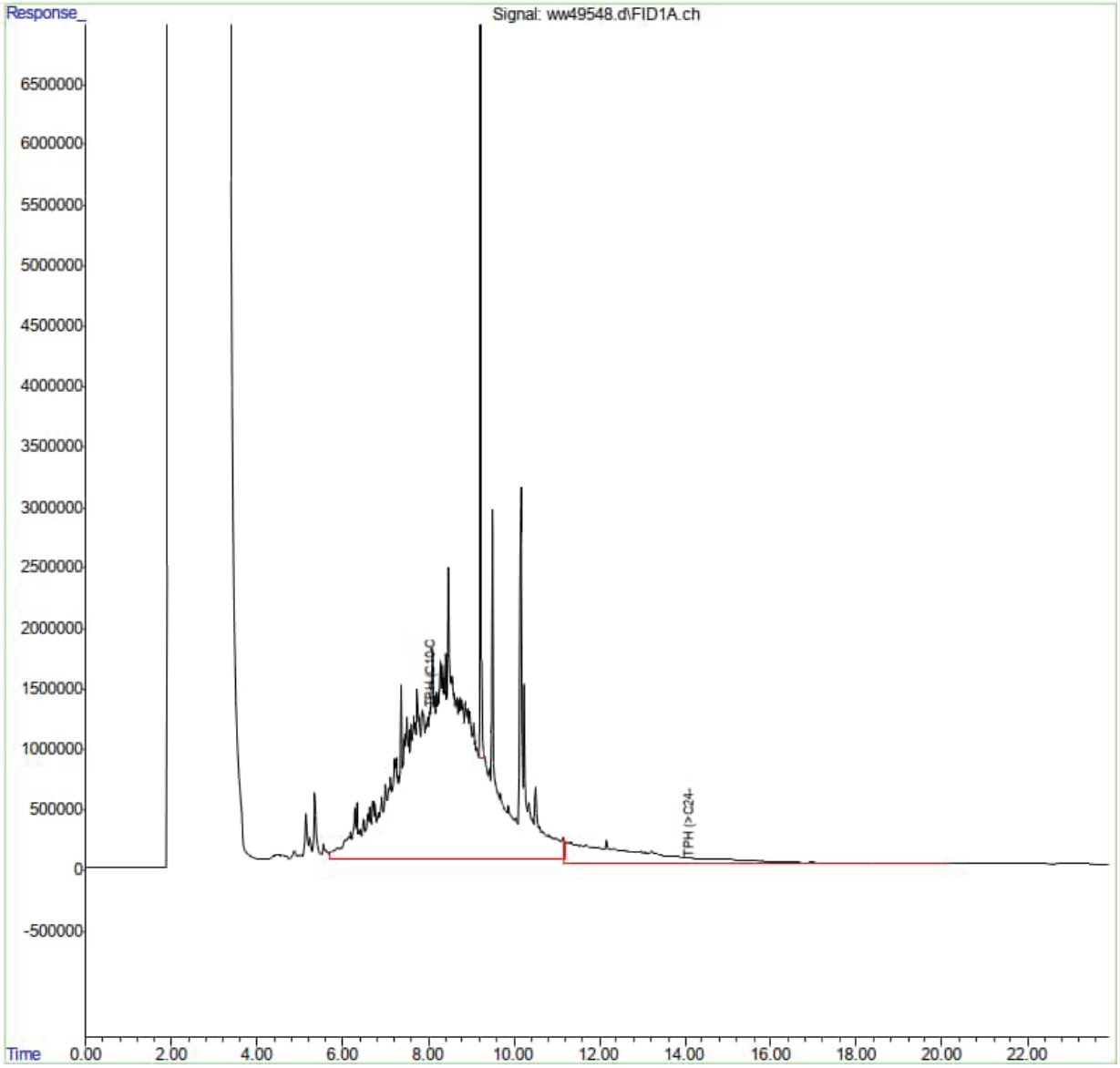


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,630** **TPH-o (C24 to C40) 265**

```
Quant Time: Jul 22 11:05:40 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

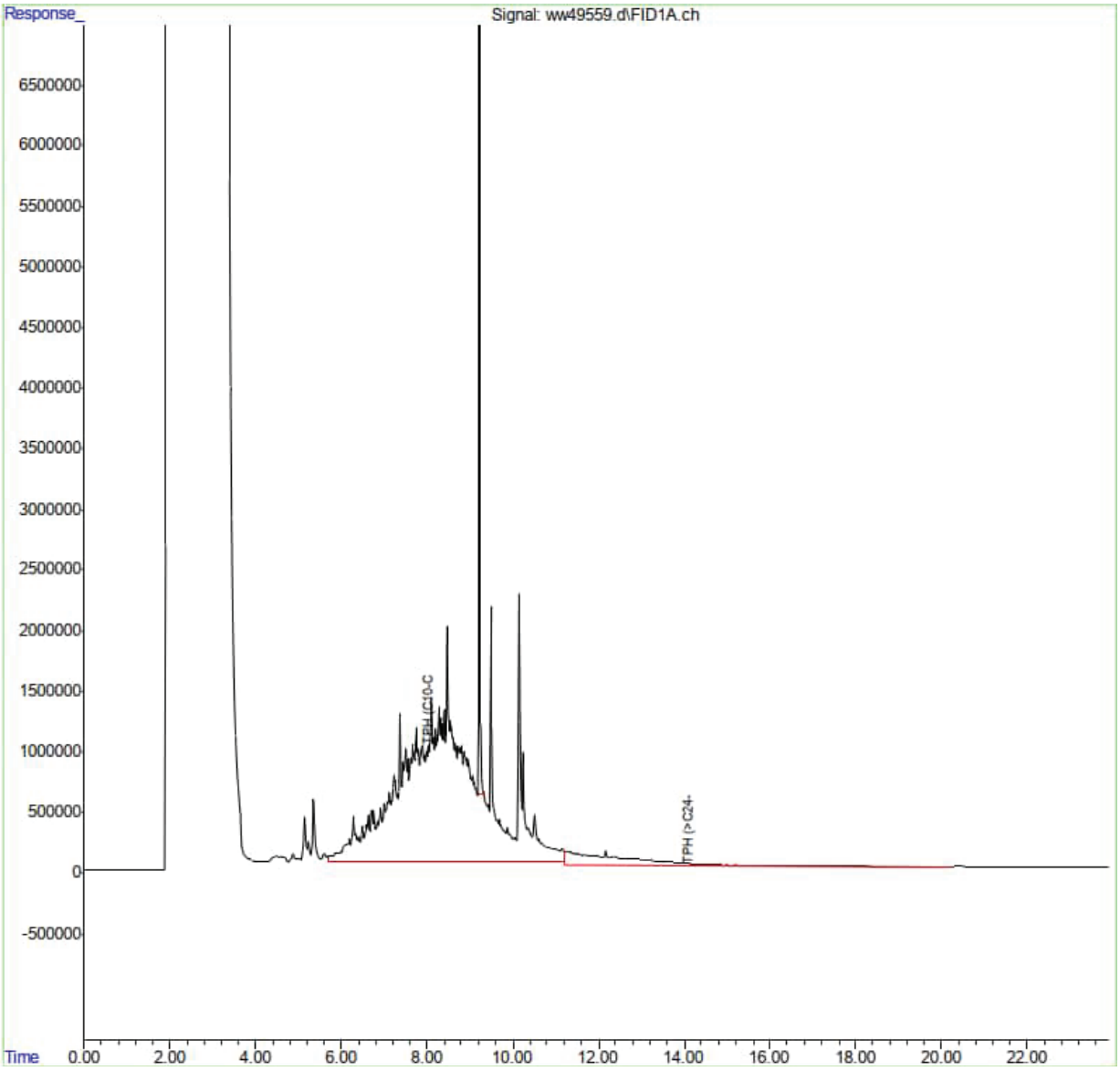
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,210** **TPH-o SGC (C24 to C40) 128 J**

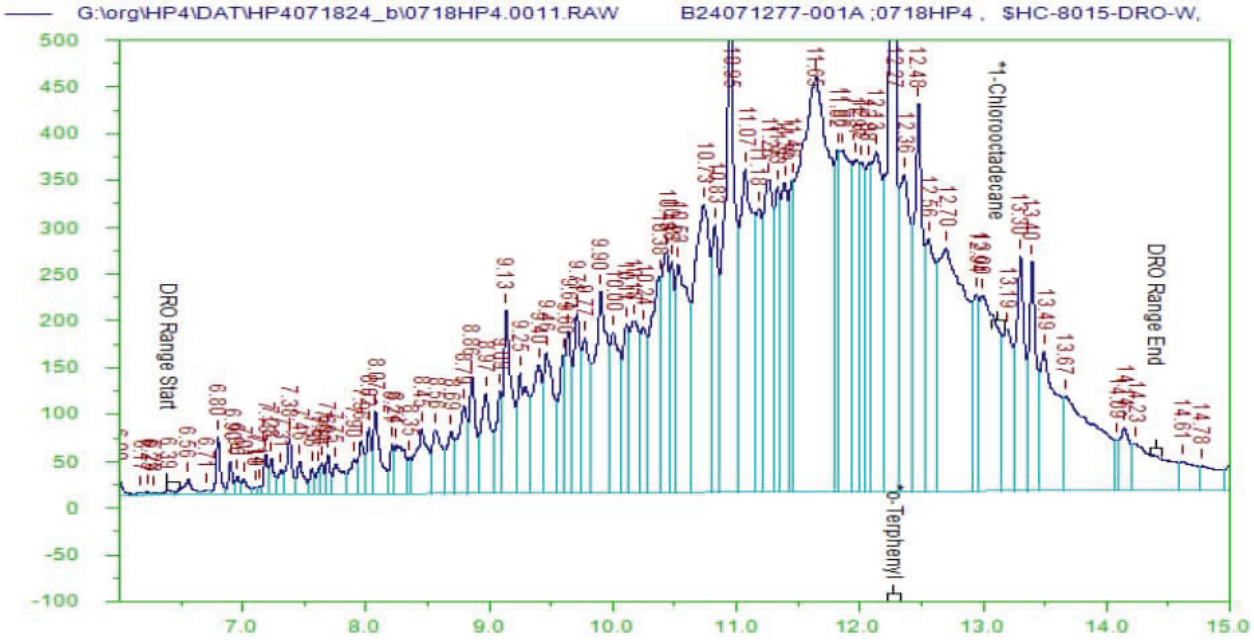
```
Quant Time: Jul 22 10:17:55 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

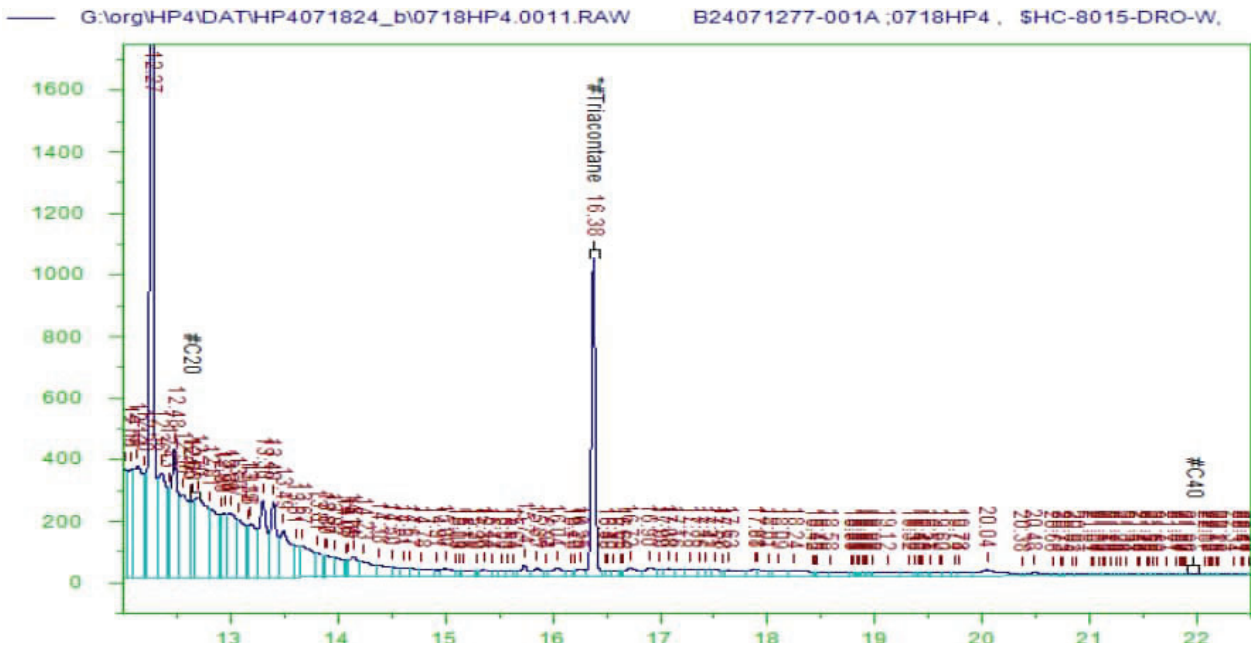
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



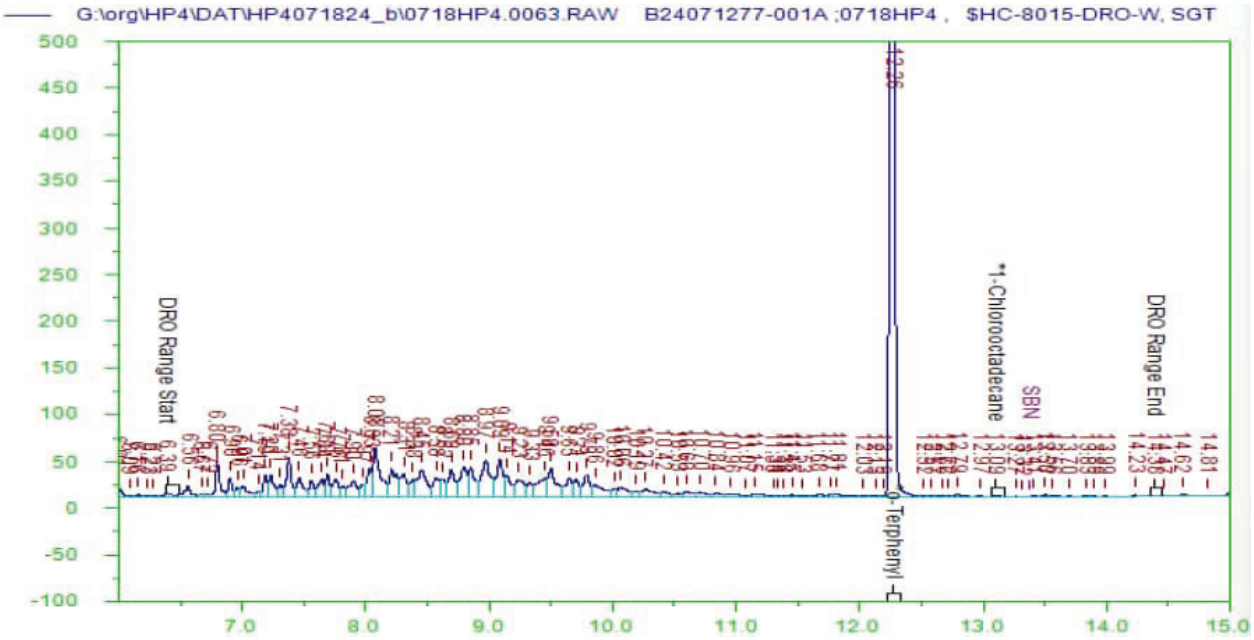
Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

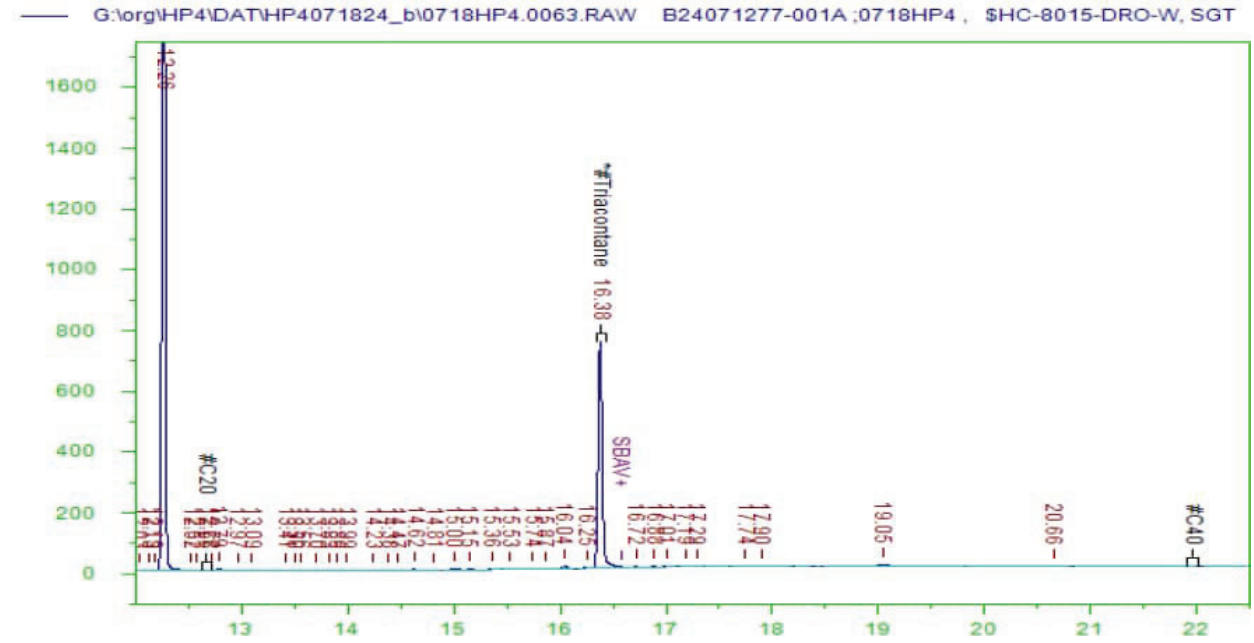
Results (ug/L): **TPH-d (C10 to C24) 2,170** **TPH-o (C24 to C40) 807.2 J**





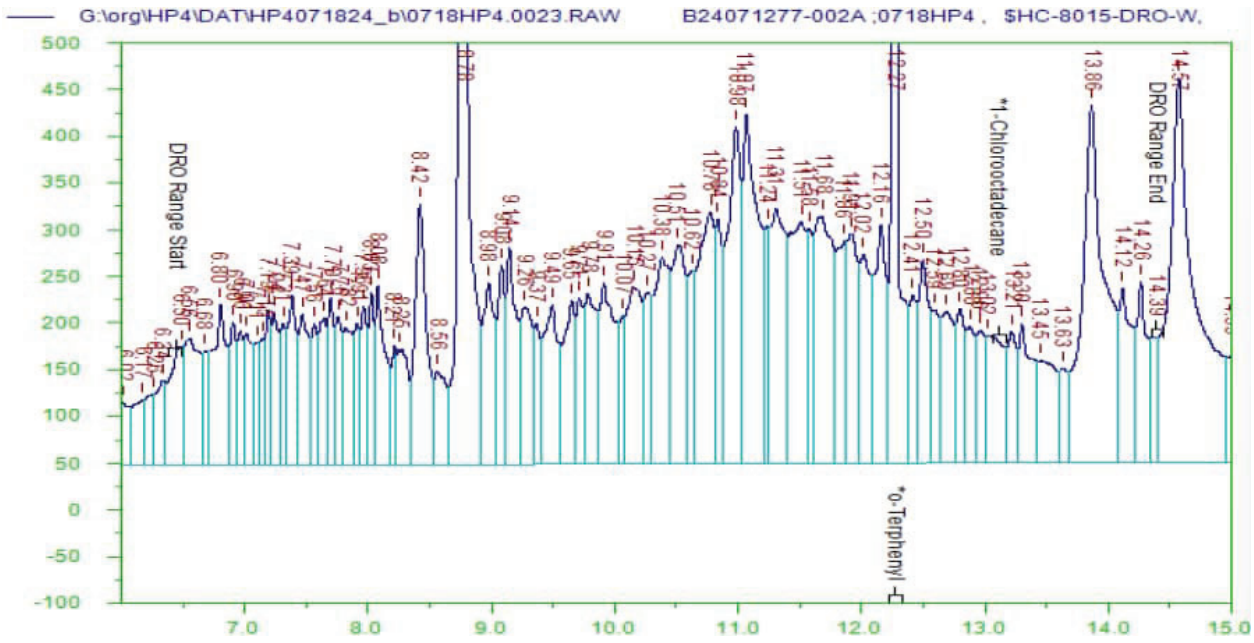
Results (ug/L): **TPH-d SGC (C10 to C24) 113.8 J** **TPH-o SGC (C24 to C40) <190 U**

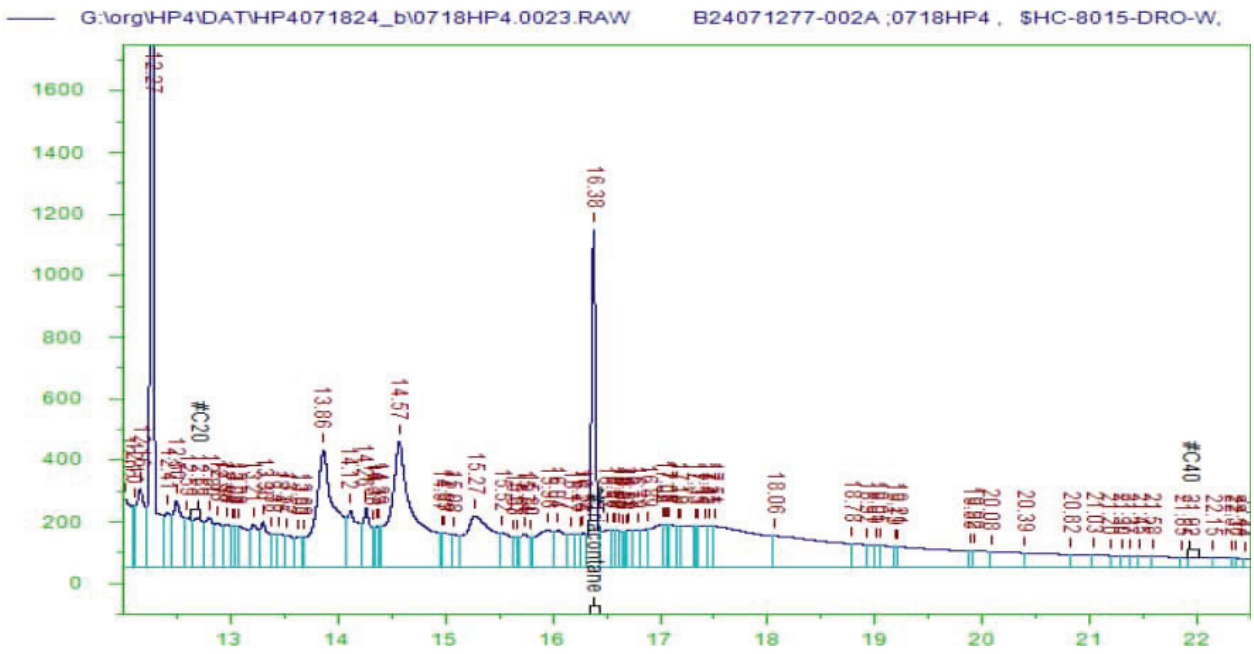




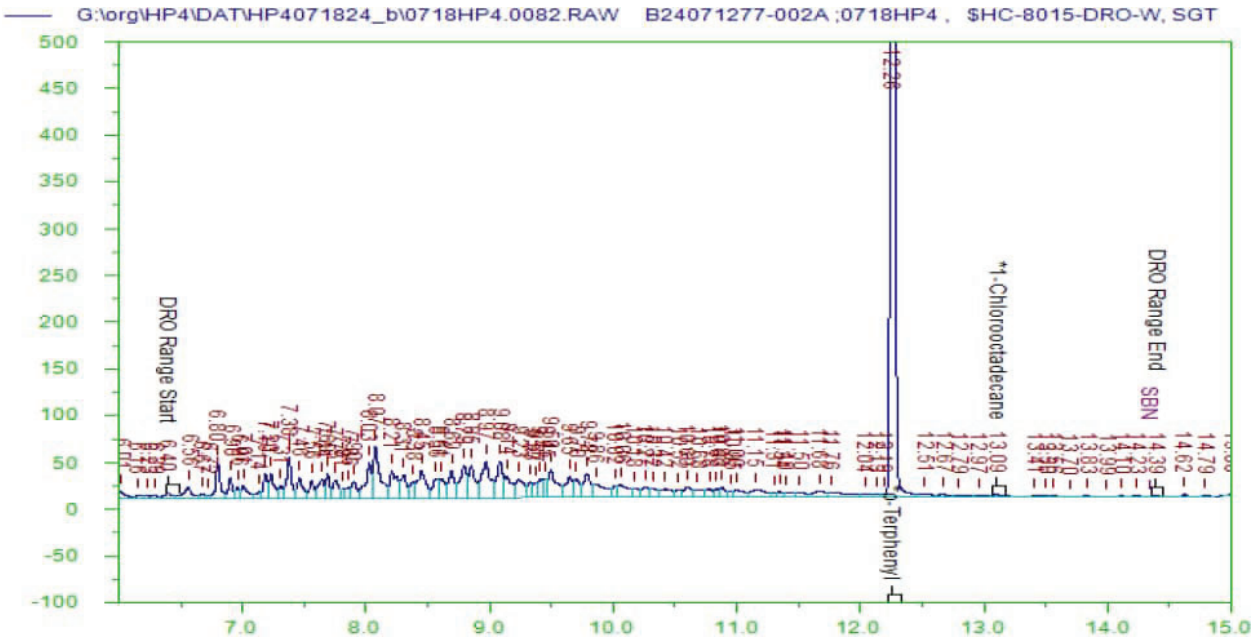
Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

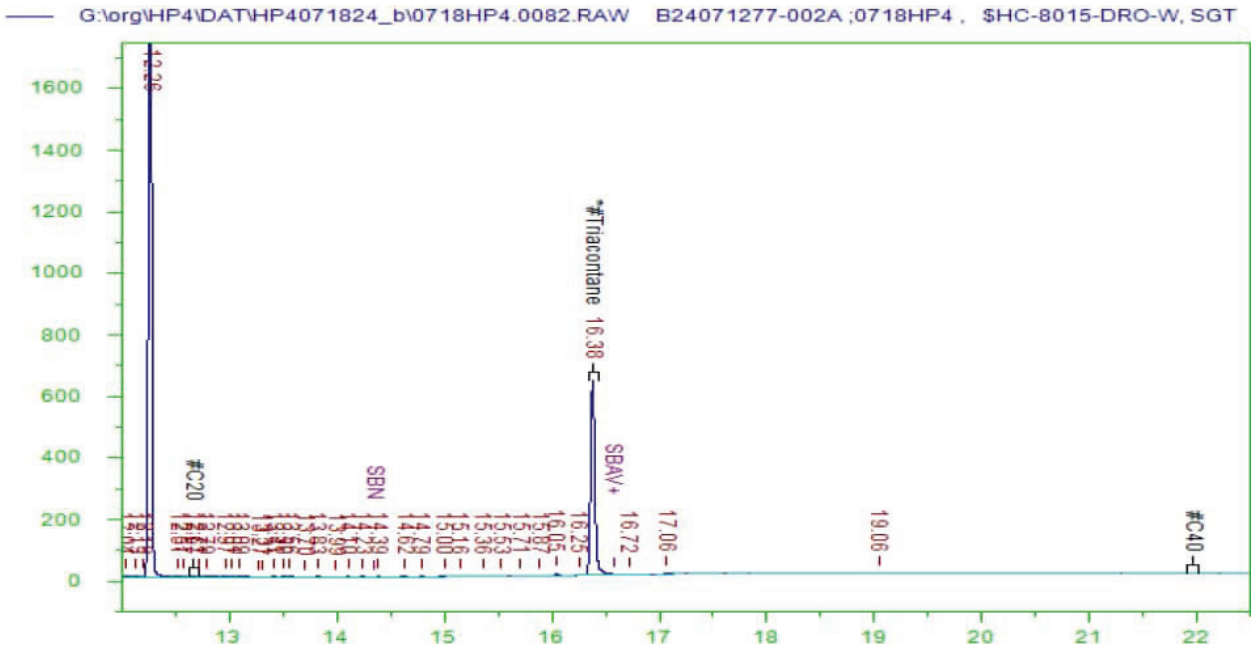
Results (ug/L): **TPH-d (C10 to C24) 2,574** **TPH-o (C24 to C40) 2,162 J**





Results (ug/L): **TPH-d SGC (C10 to C24) 127.8 J** **TPH-o SGC (C24 to C40) <193 U**



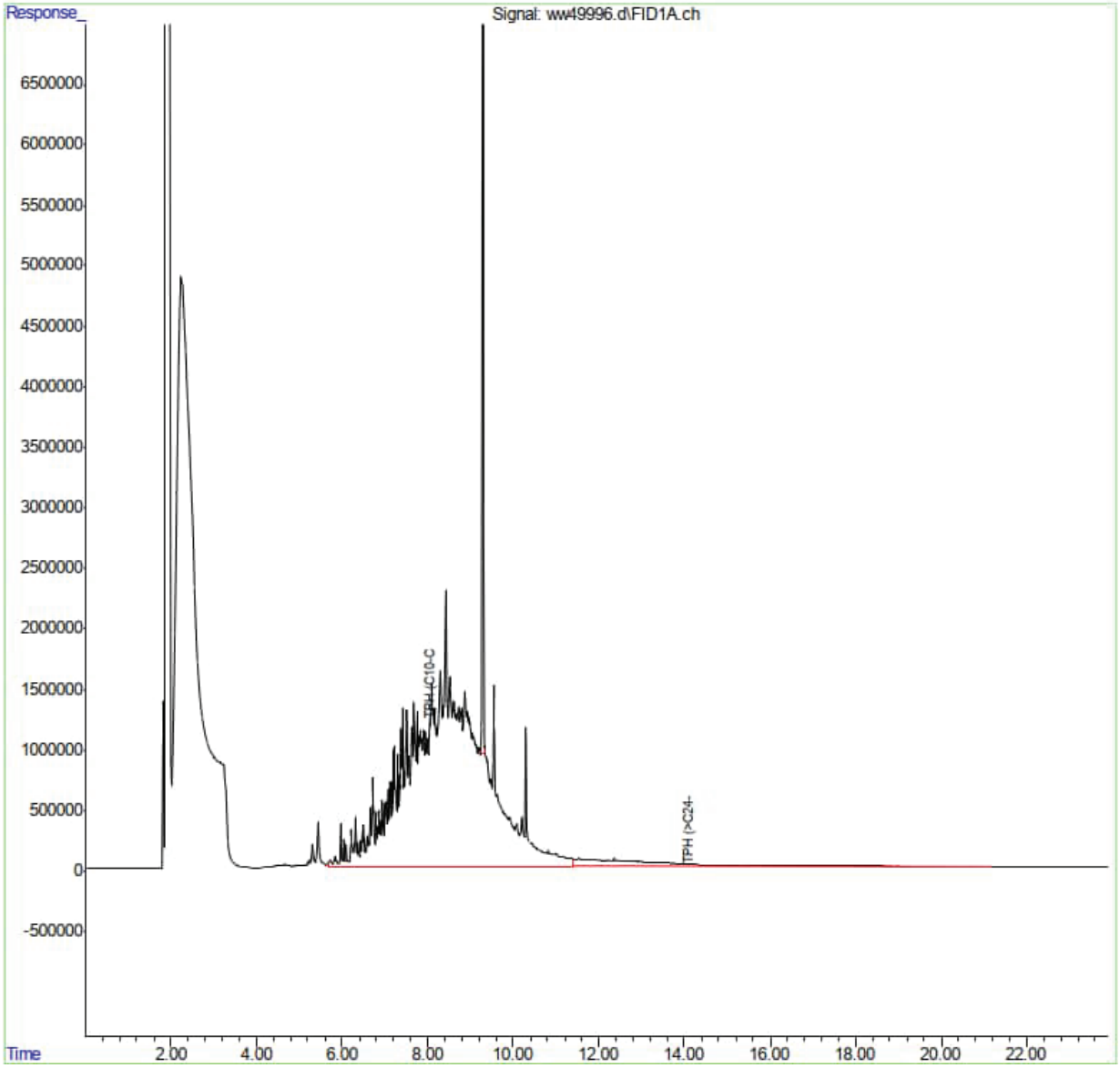


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2408A Sample Date: 8/5/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,780** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 12 17:05:09 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

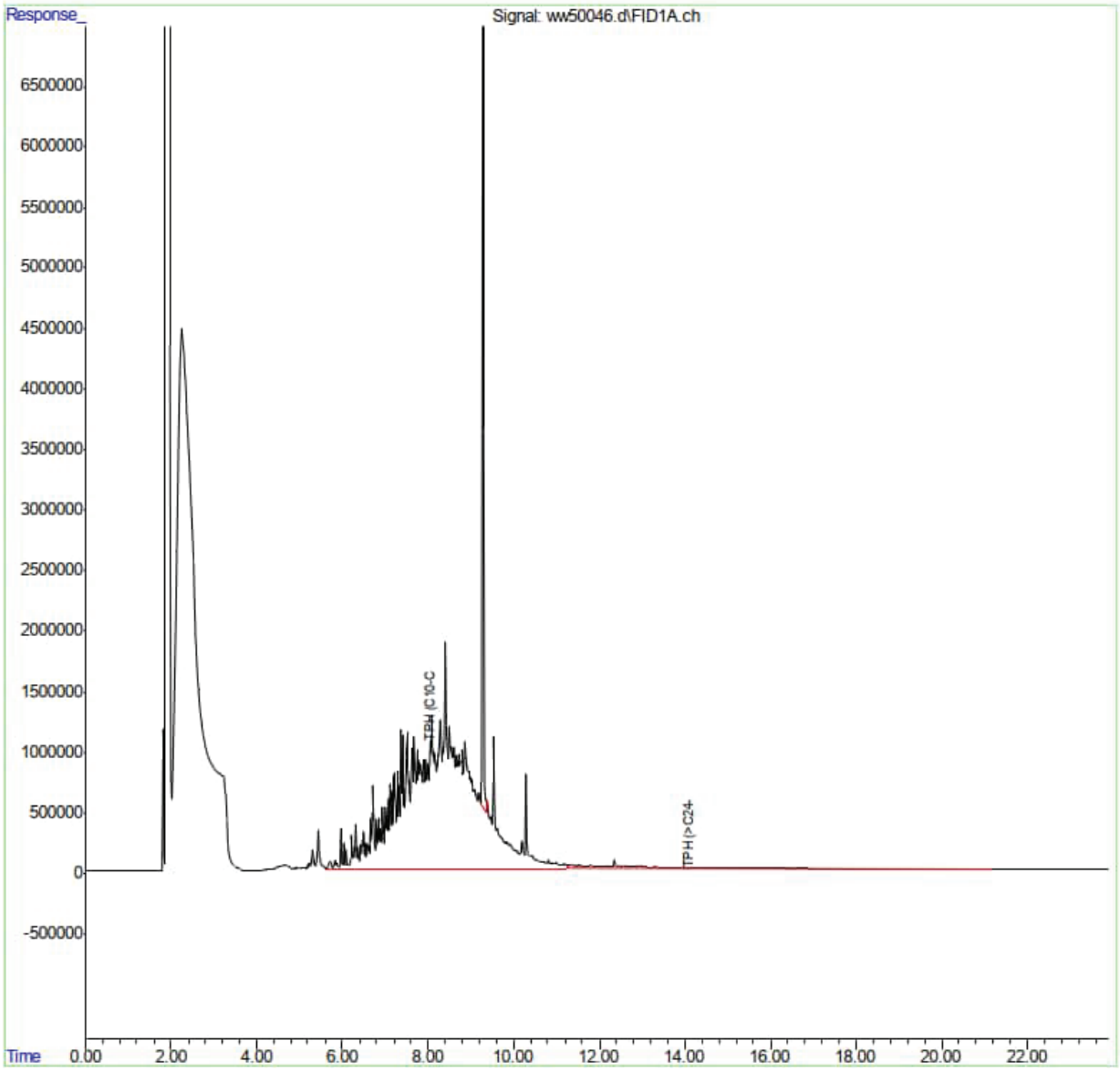
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,310** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:39:30 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
```

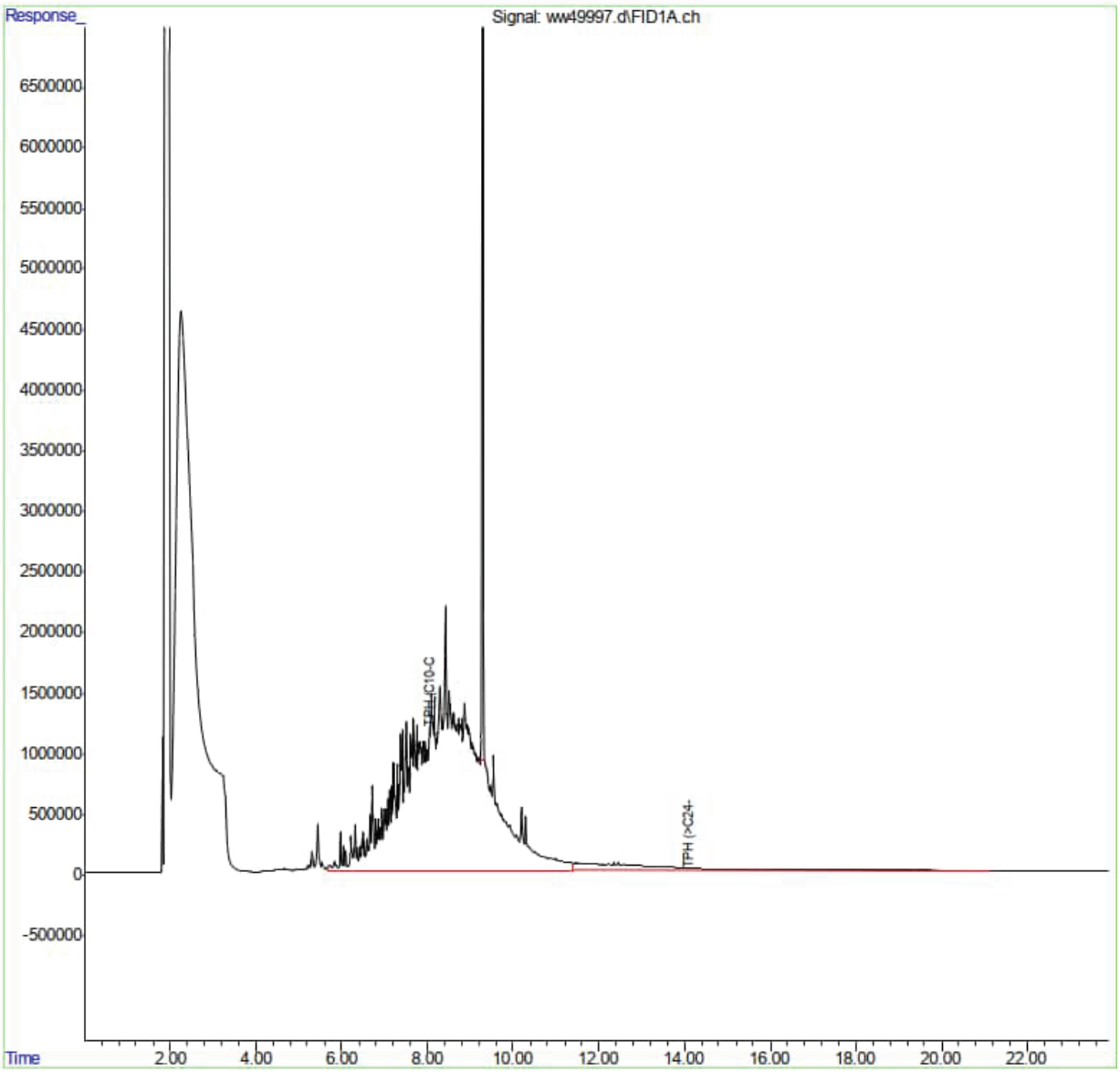


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2408A Sample Date: 8/5/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,720** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:38:49 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

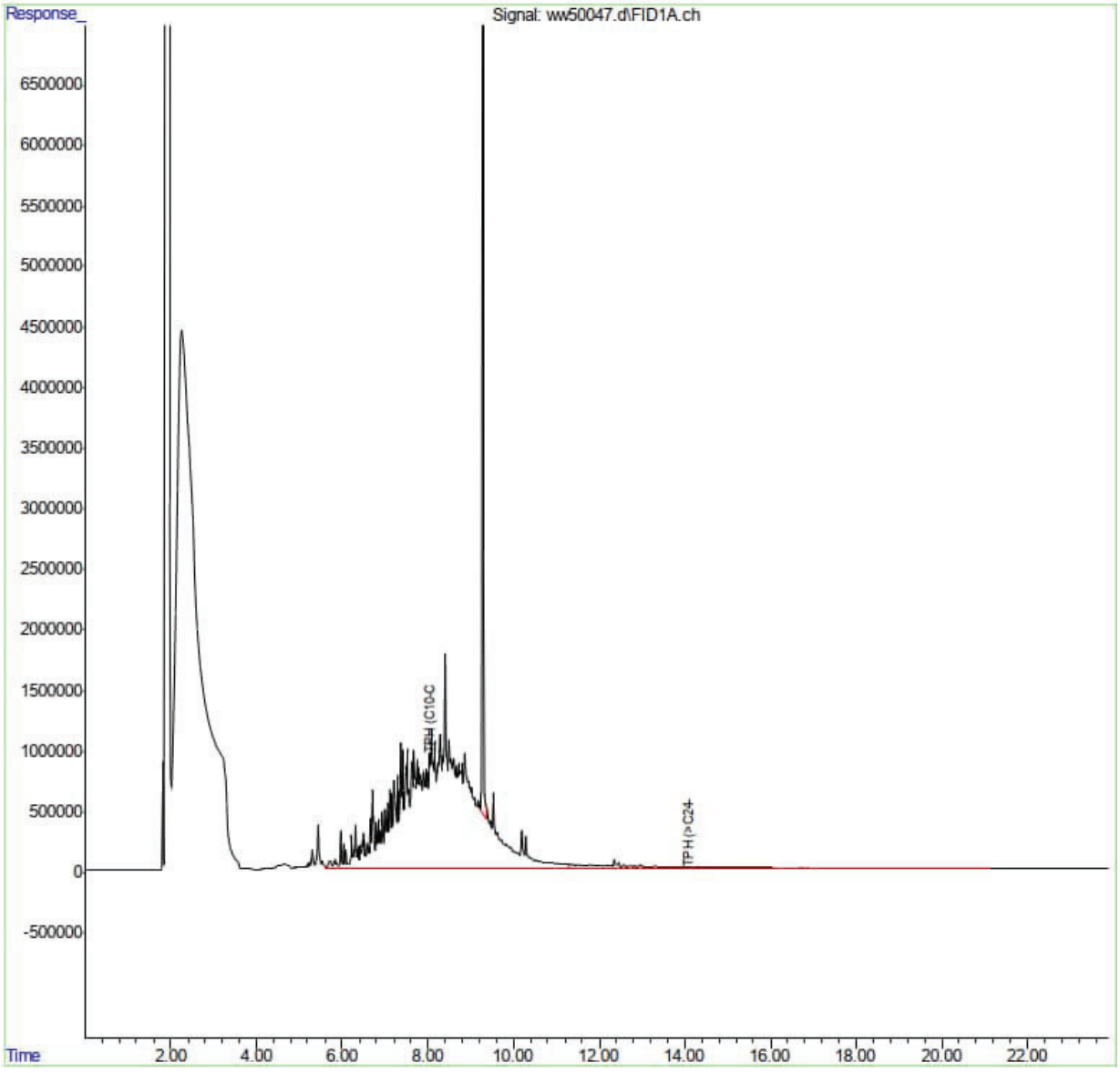
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,180** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:40:02 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
```

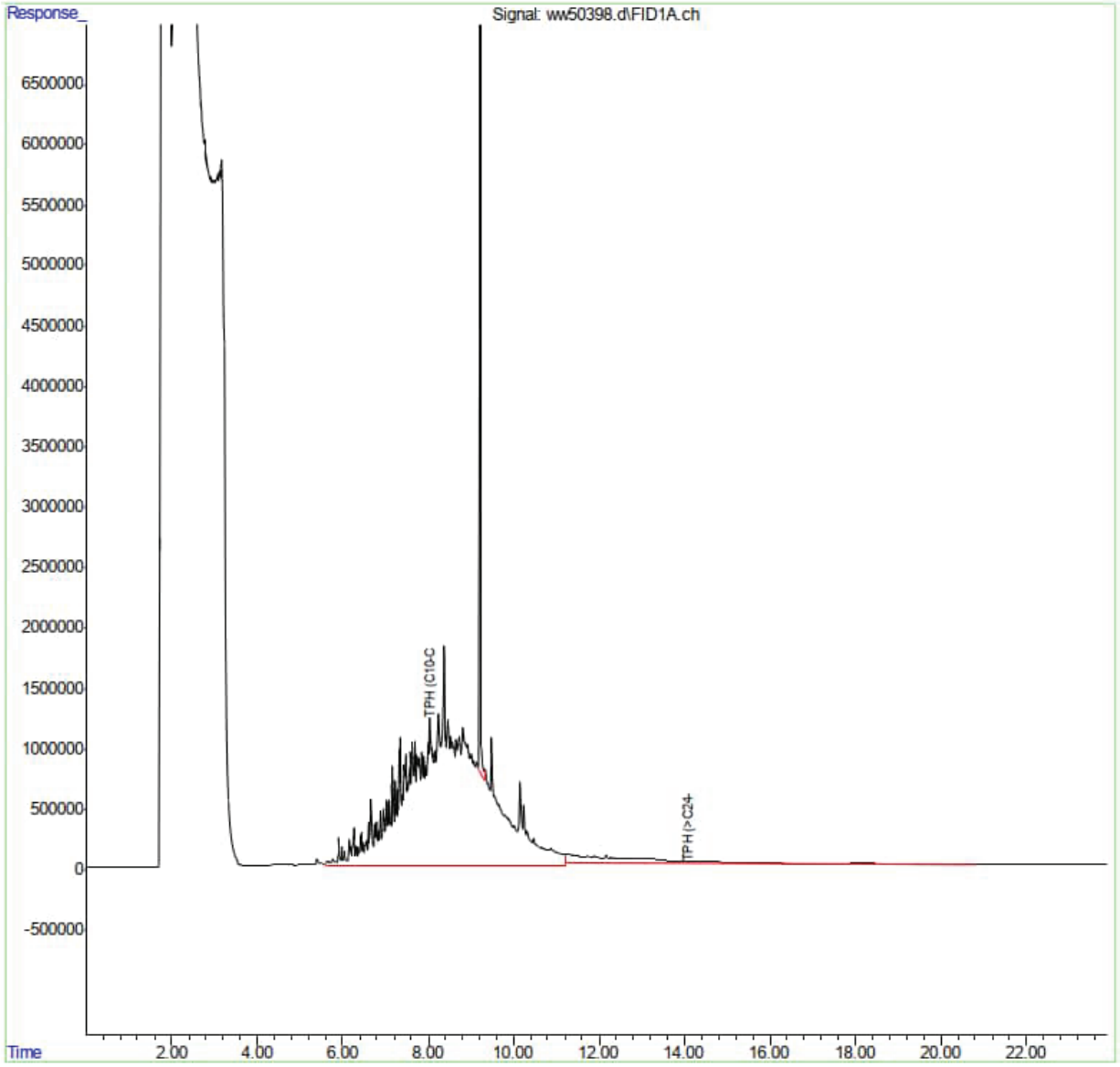


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2408B Sample Date: 8/22/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,530** **TPH-o (C24 to C40) 97.9 J**

```
Quant Time: Aug 27 14:21:02 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

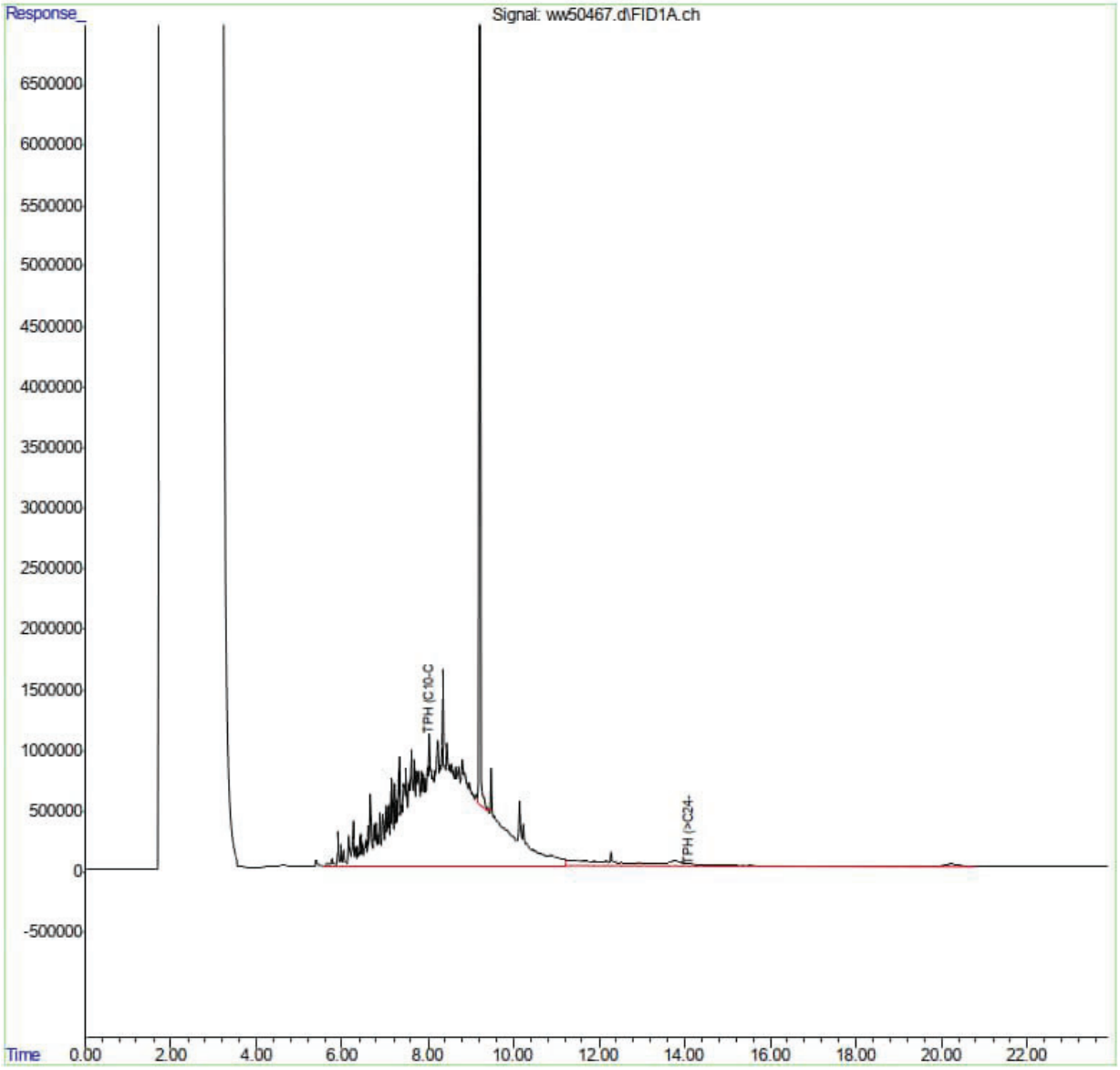
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,230** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 29 10:30:28 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
```

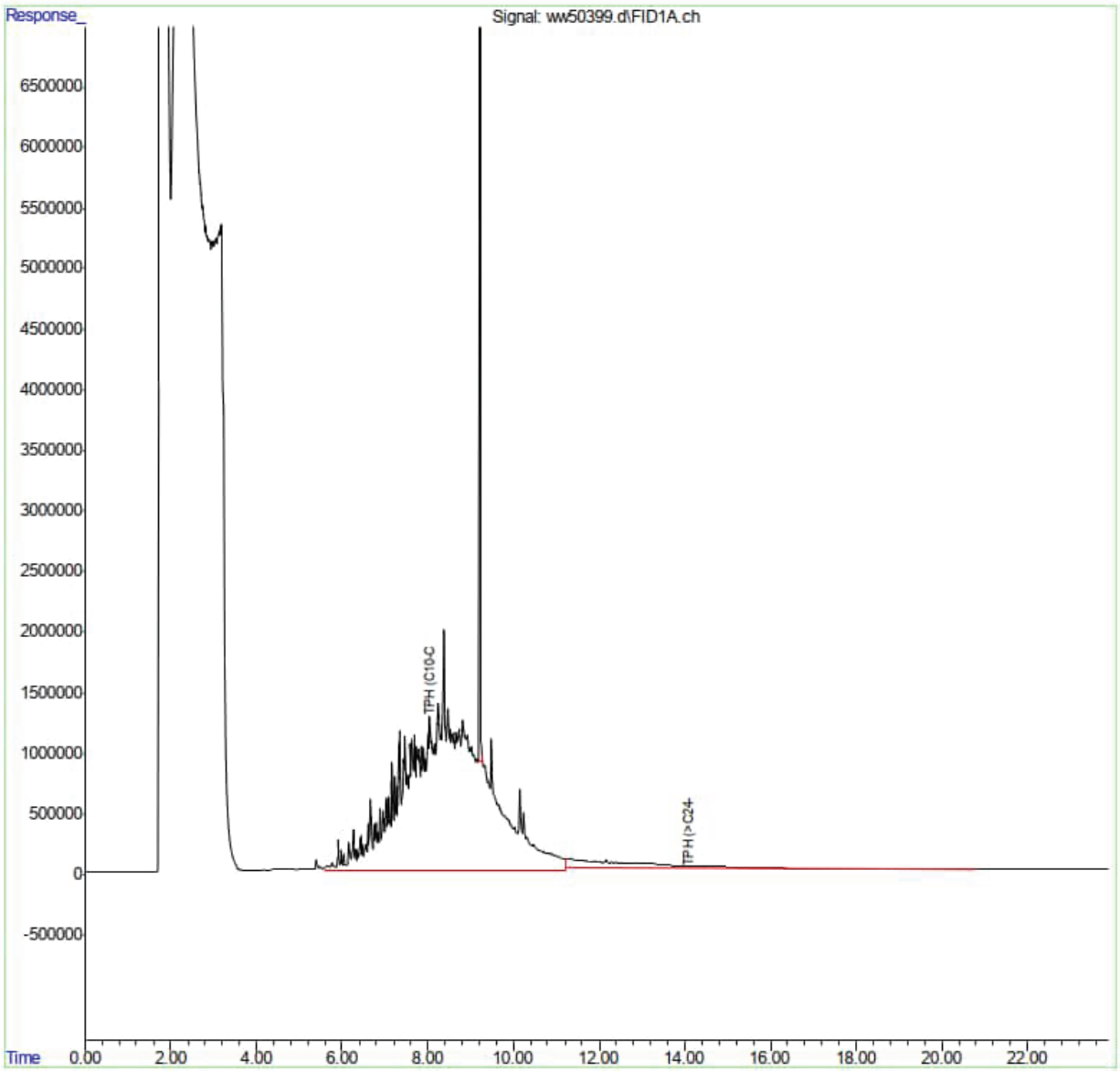


Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2408B Sample Date: 8/22/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 1,630** **TPH-o (C24 to C40) 103 J**

```
Quant Time: Aug 27 14:21:41 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

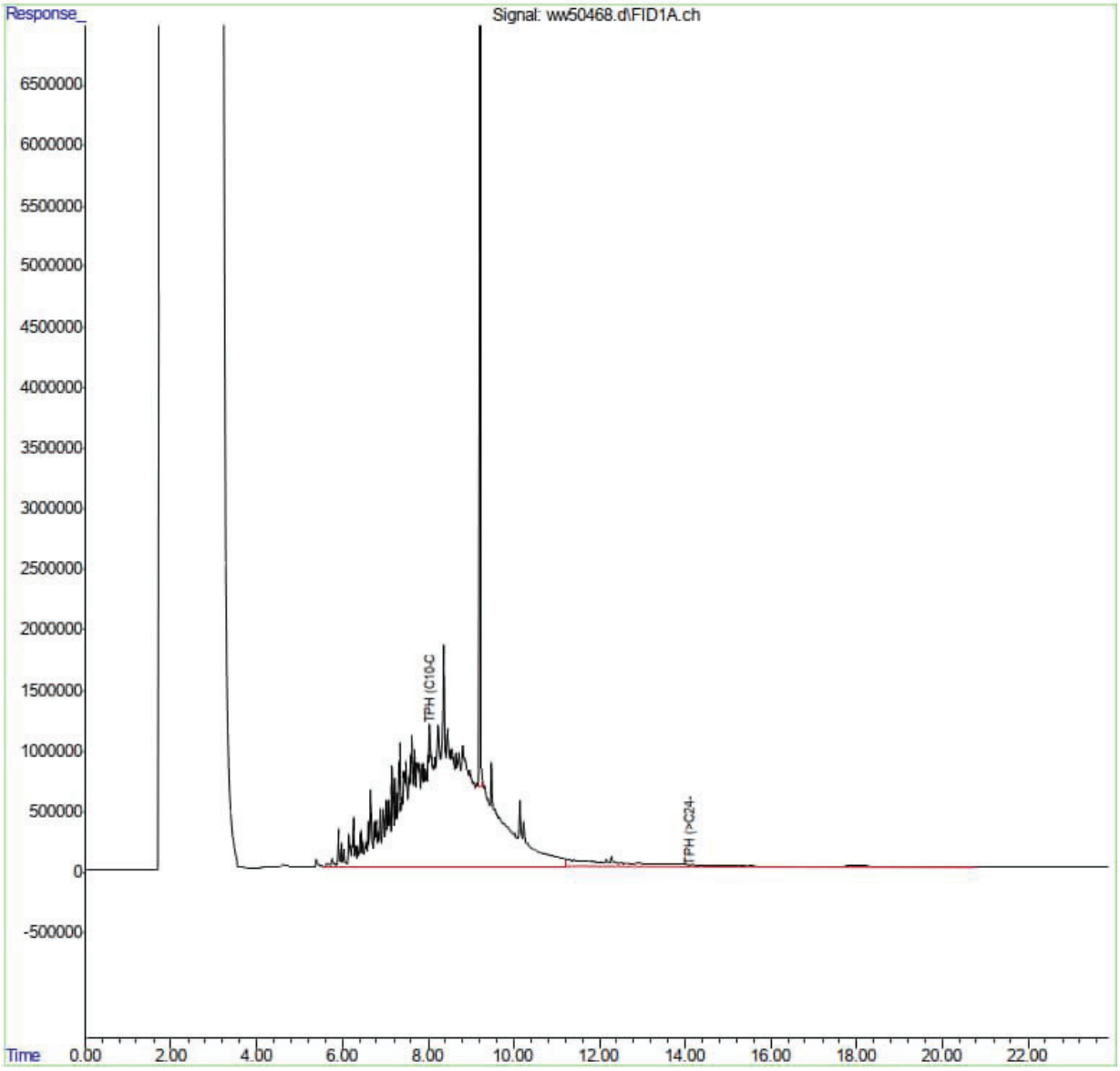
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 1,370** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 29 10:31:04 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
```

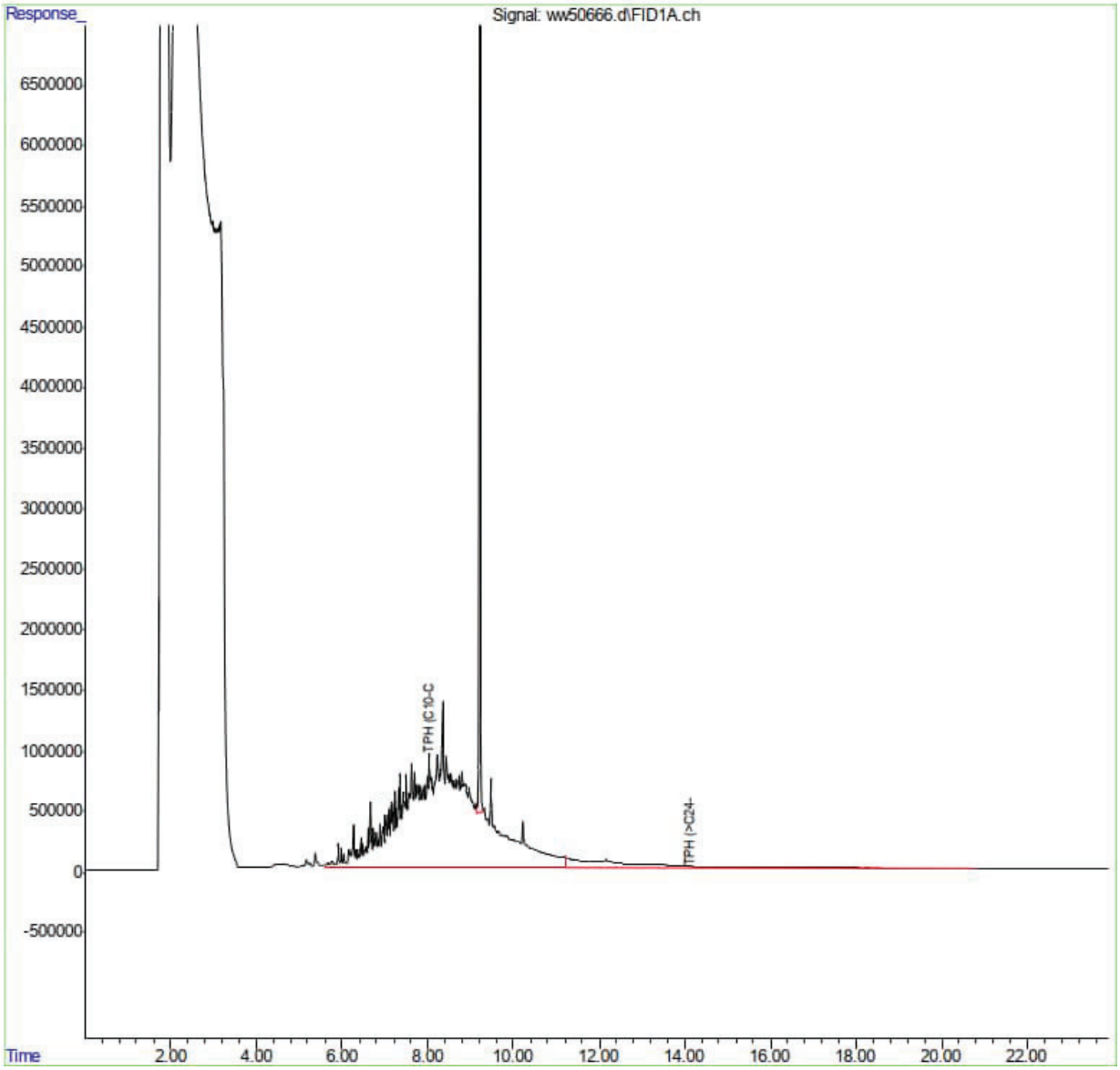


Location: **RHMW02** Sample ID: RHMW02-WGN01LF-2409A Sample Date: 9/3/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,040** **TPH-o (C24 to C40) 80 J**

```
Quant Time: Sep 09 10:18:30 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

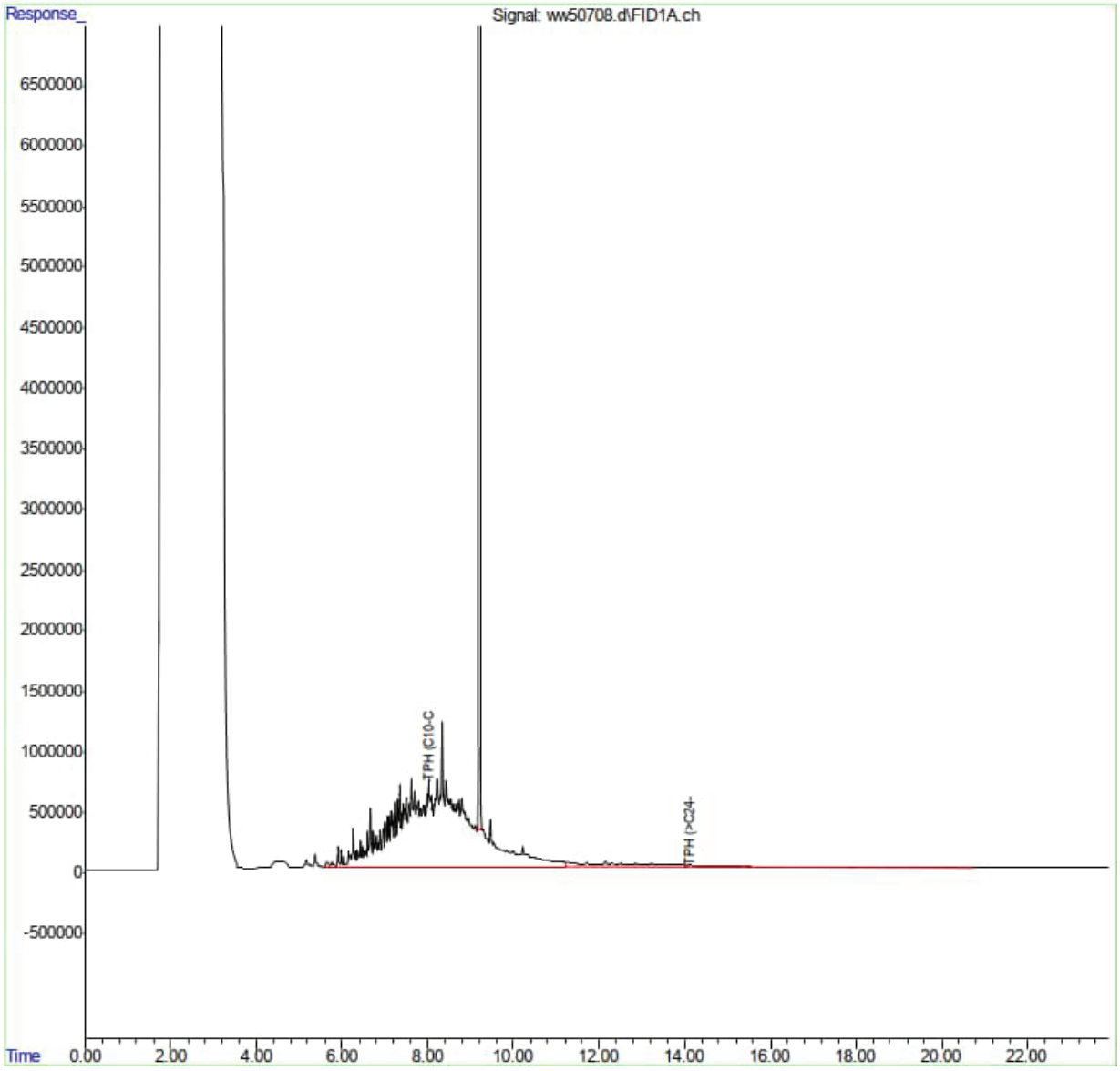
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 746** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 10 09:56:39 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
```



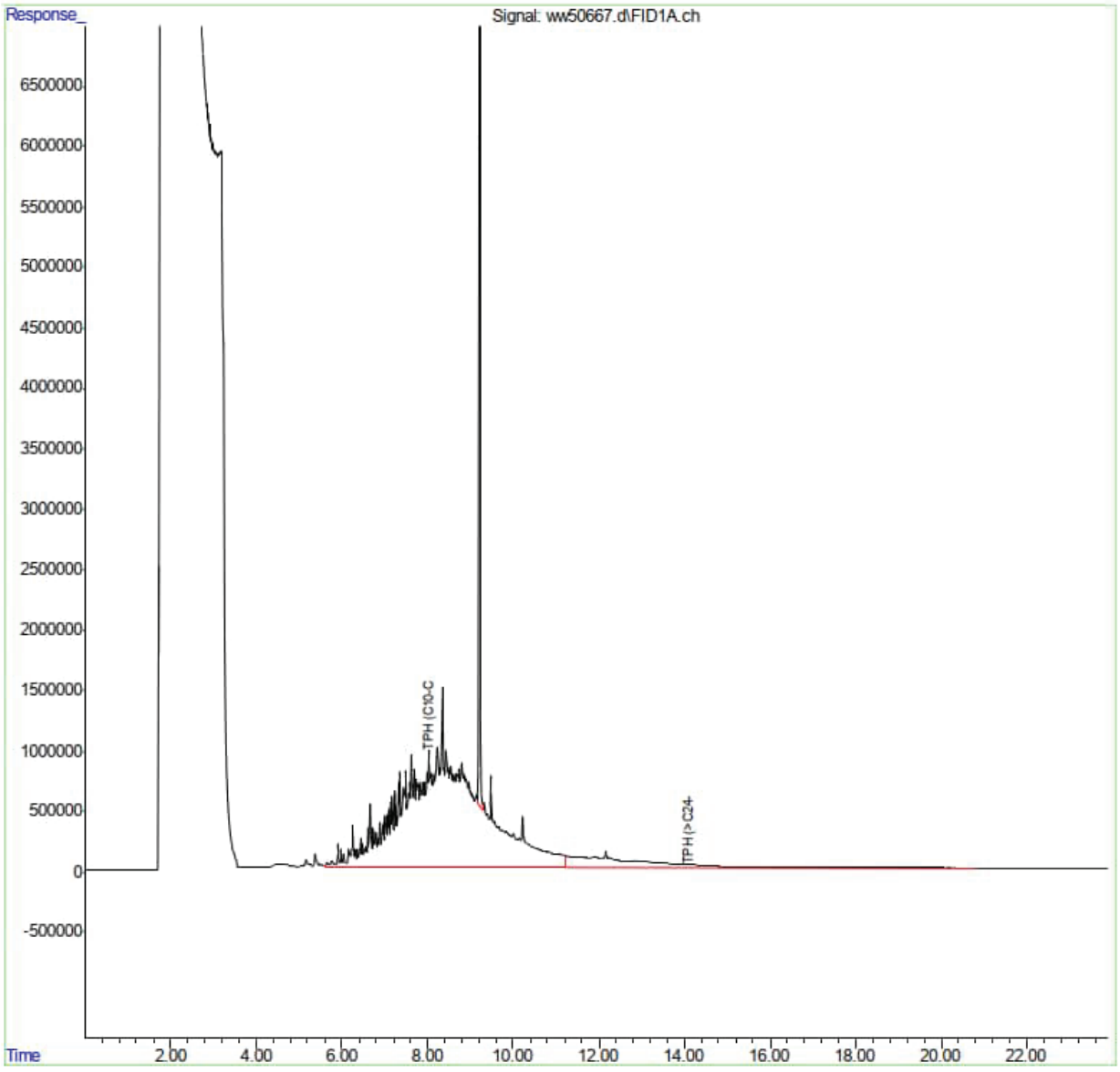
Location: **RHMW02** Sample ID: RHMW02-WGFD01LF-2409A Sample Date: 9/3/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 1,120** **TPH-o (C24 to C40) 115 J**

```
Quant Time: Sep 09 10:19:11 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

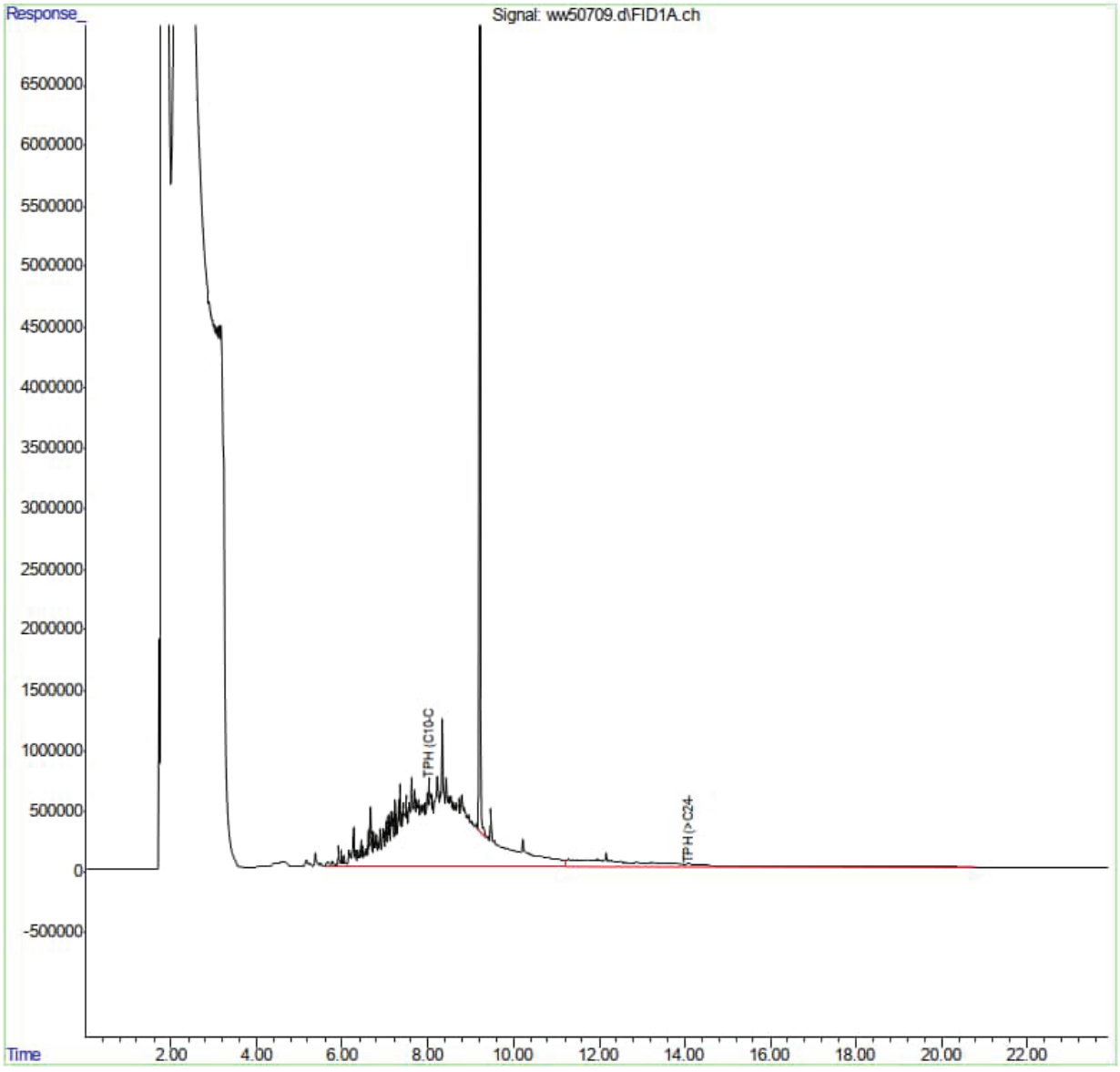
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 777** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 10 09:57:00 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
```

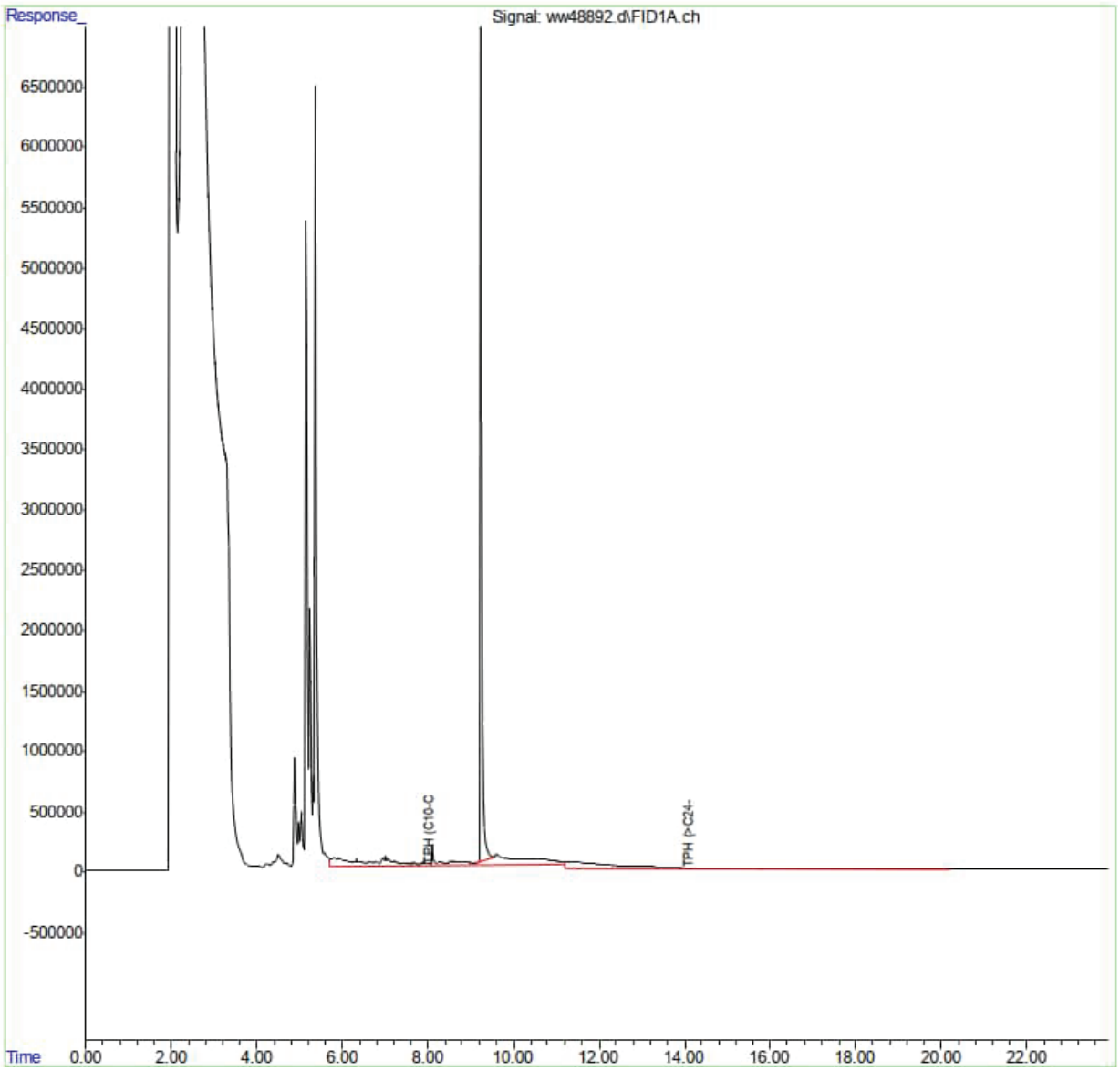


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2406B Sample Date: 6/19/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 95.3 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jun 25 09:48:47 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

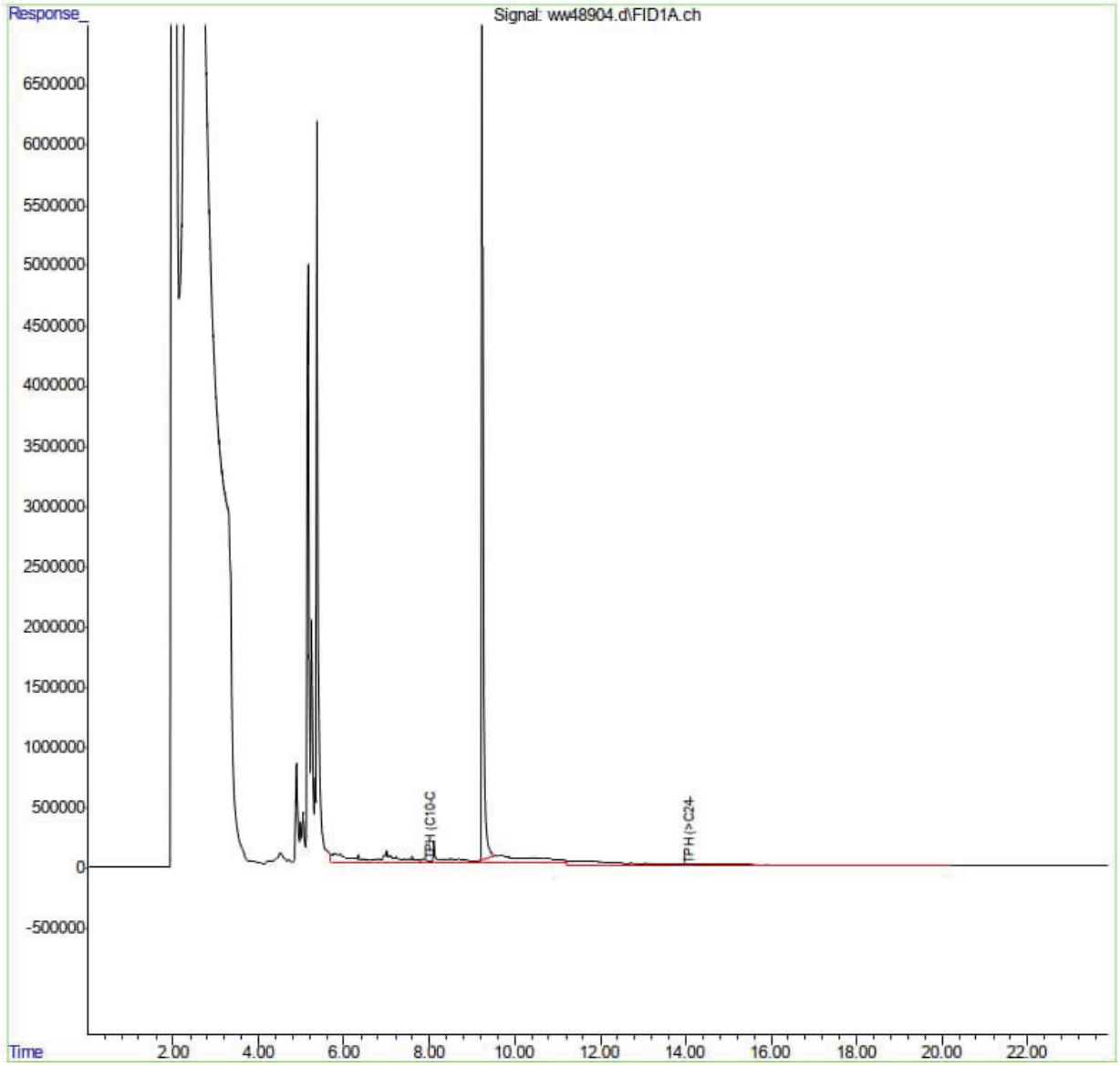
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 85.4 J** **TPH-o SGC (C24 to C40) <160 U**

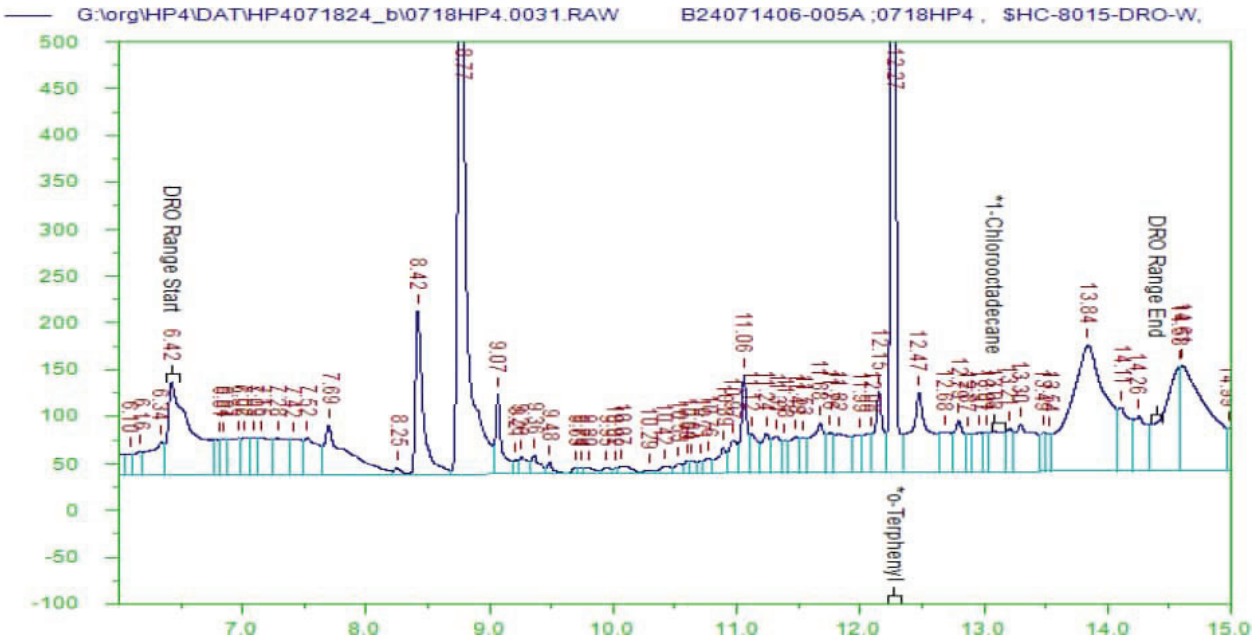
```
Quant Time: Jun 25 15:19:28 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

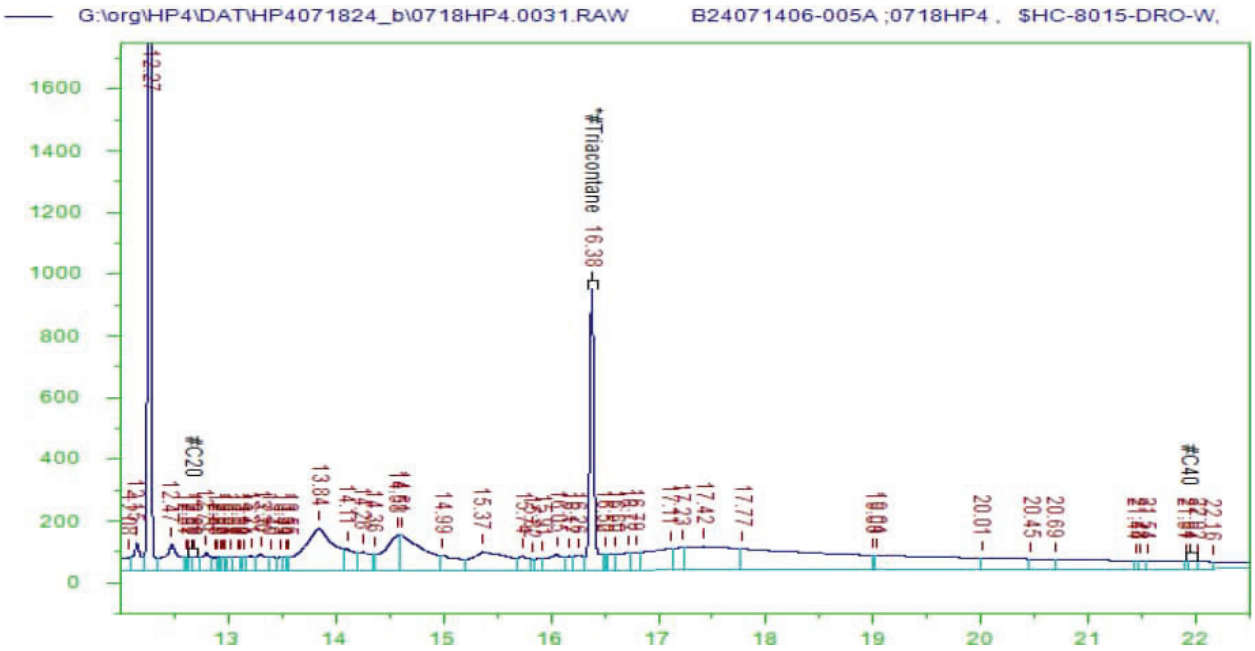
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



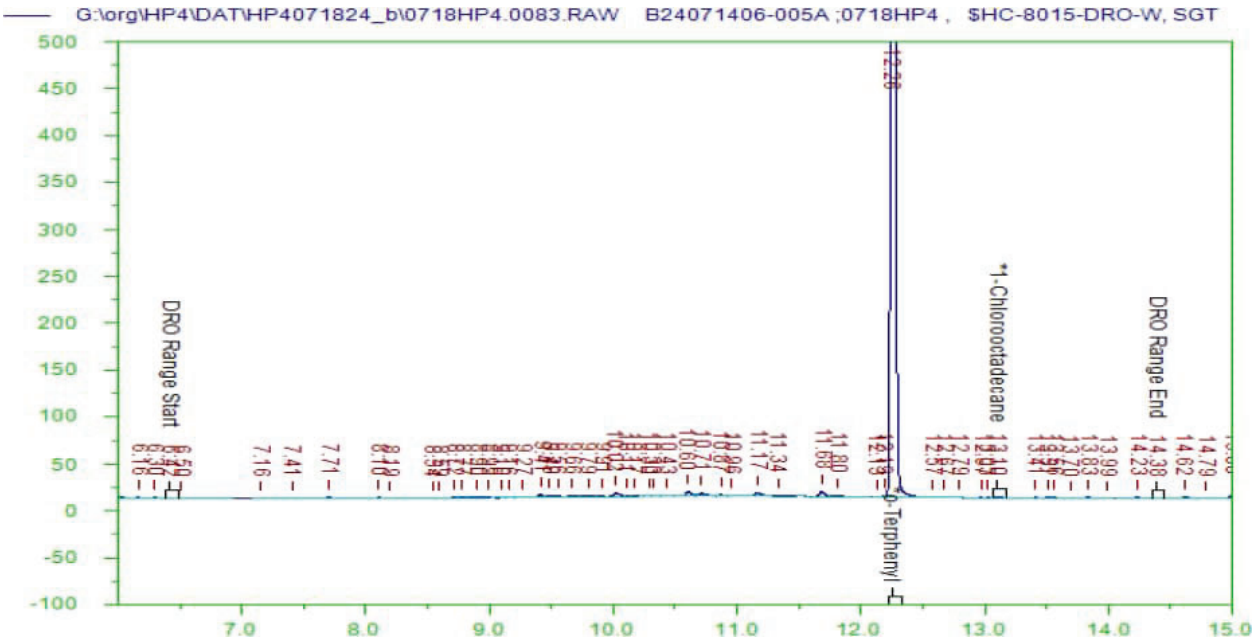
Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2407B Sample Date: 7/16/2024
Lab: (b) (4)

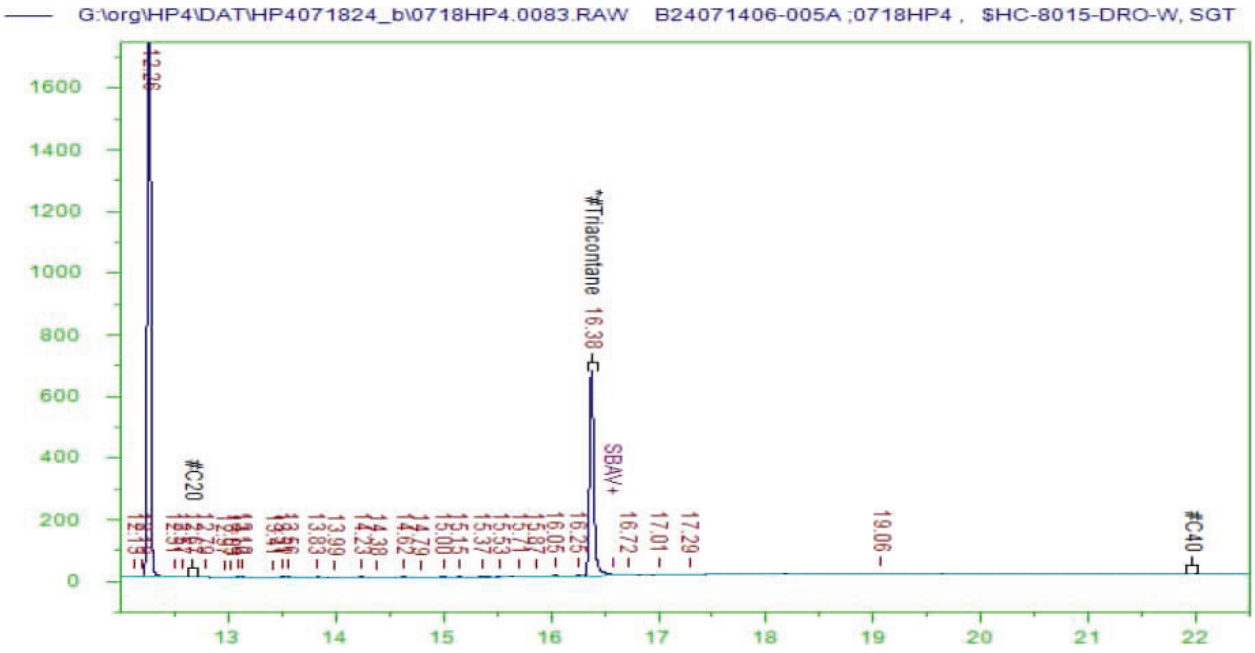
Results (ug/L): **TPH-d (C10 to C24) 567.5** **TPH-o (C24 to C40) 1,028**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**



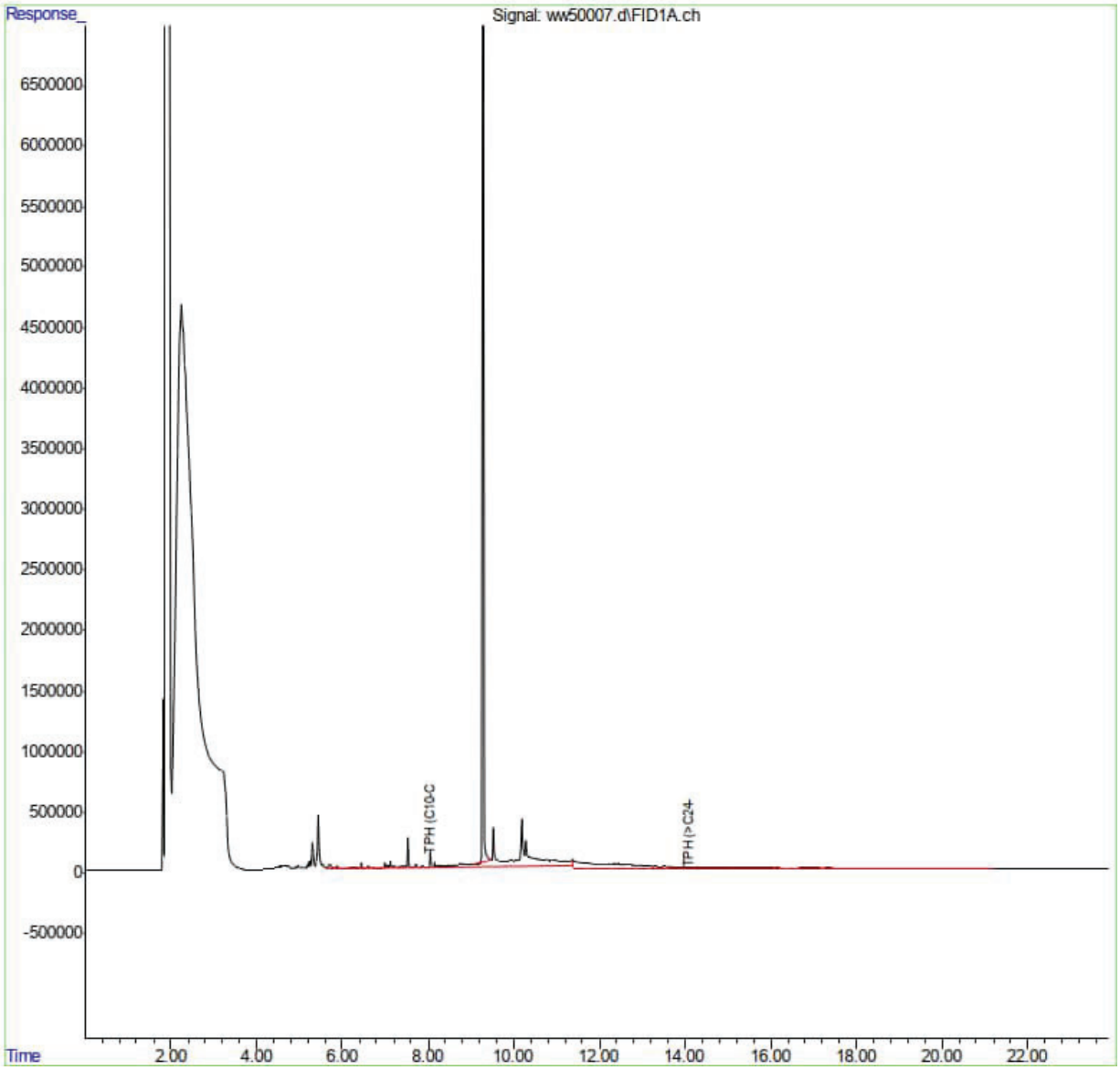


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2408A Sample Date: 8/6/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 96 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:37:26 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

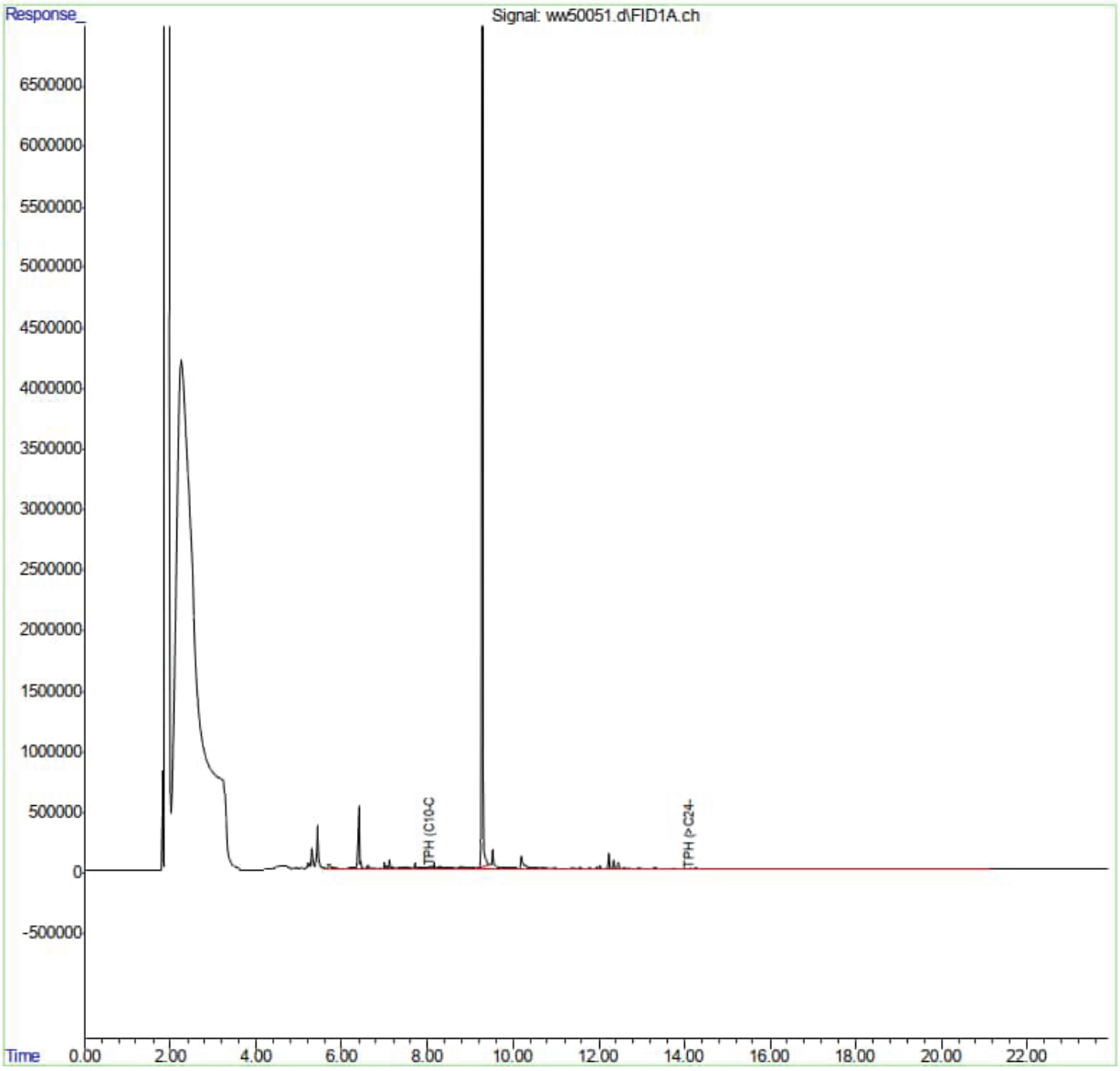
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:33:25 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
```

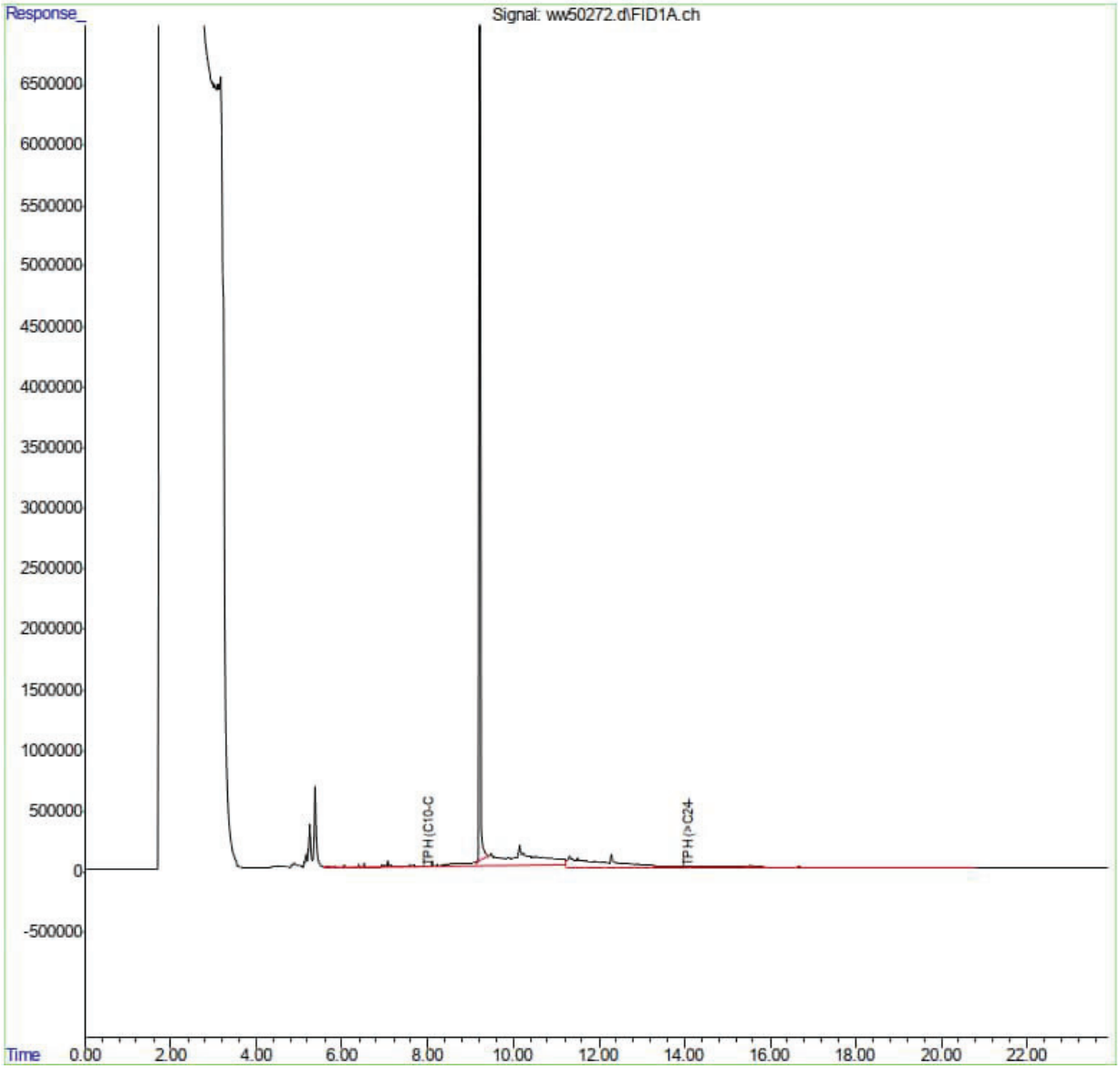


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2408B Sample Date: 8/20/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 88.8 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 24 12:03:06 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

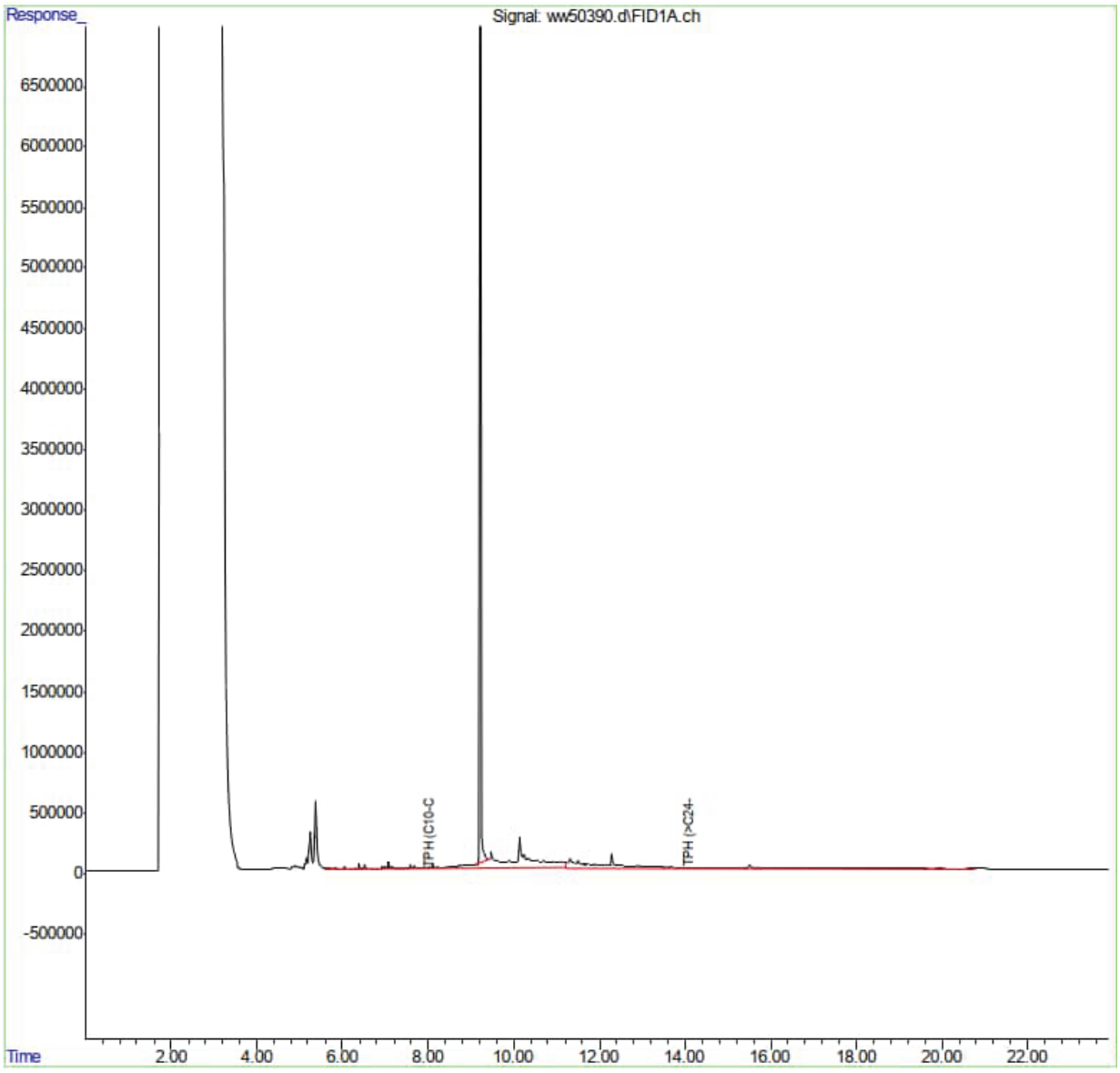
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 83.1 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 27 14:13:00 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
```

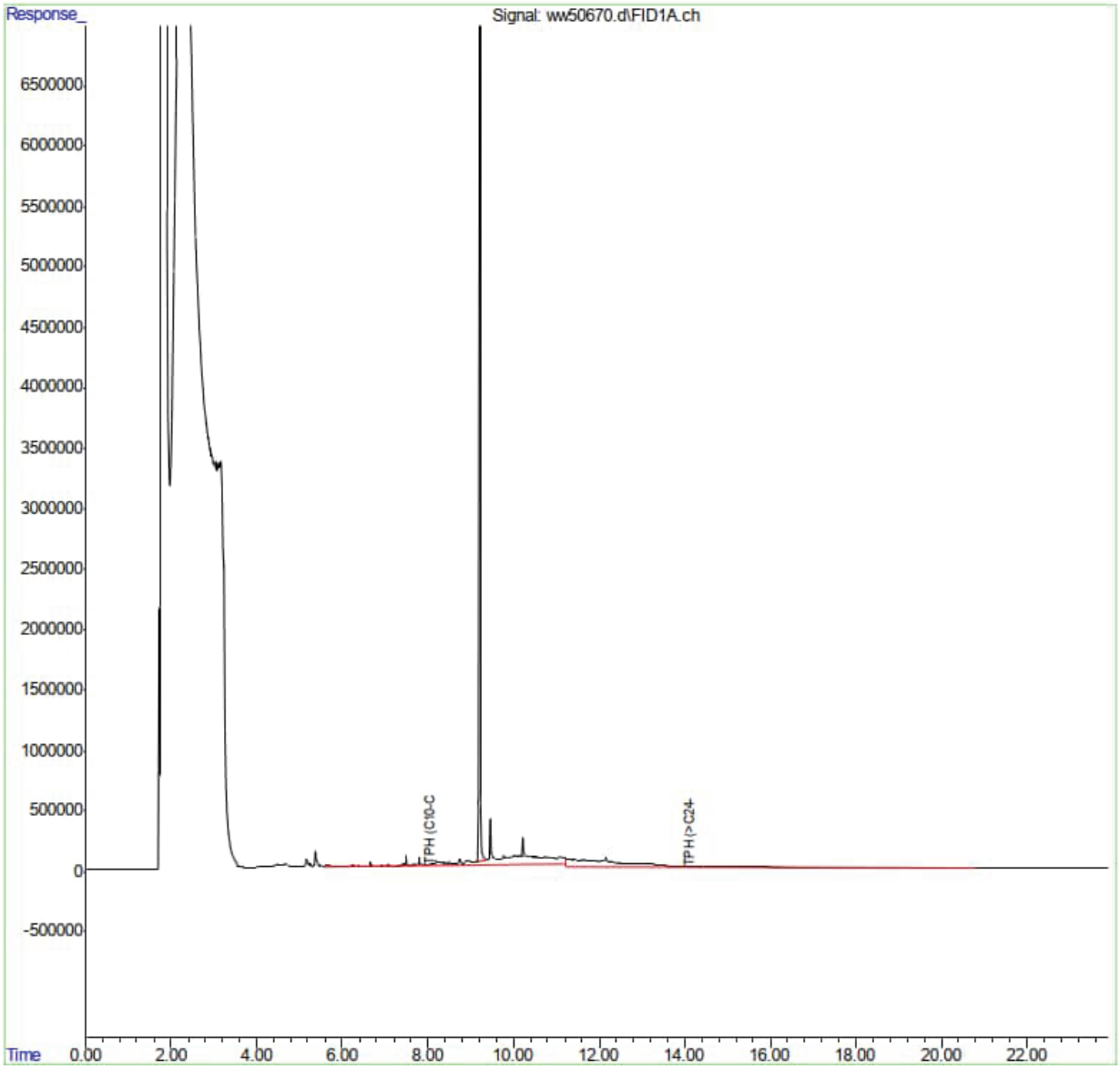


Location: **RHMW03** Sample ID: RHMW03-WGN01LF-2409A Sample Date: 9/3/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 89 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Sep 09 10:13:55 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

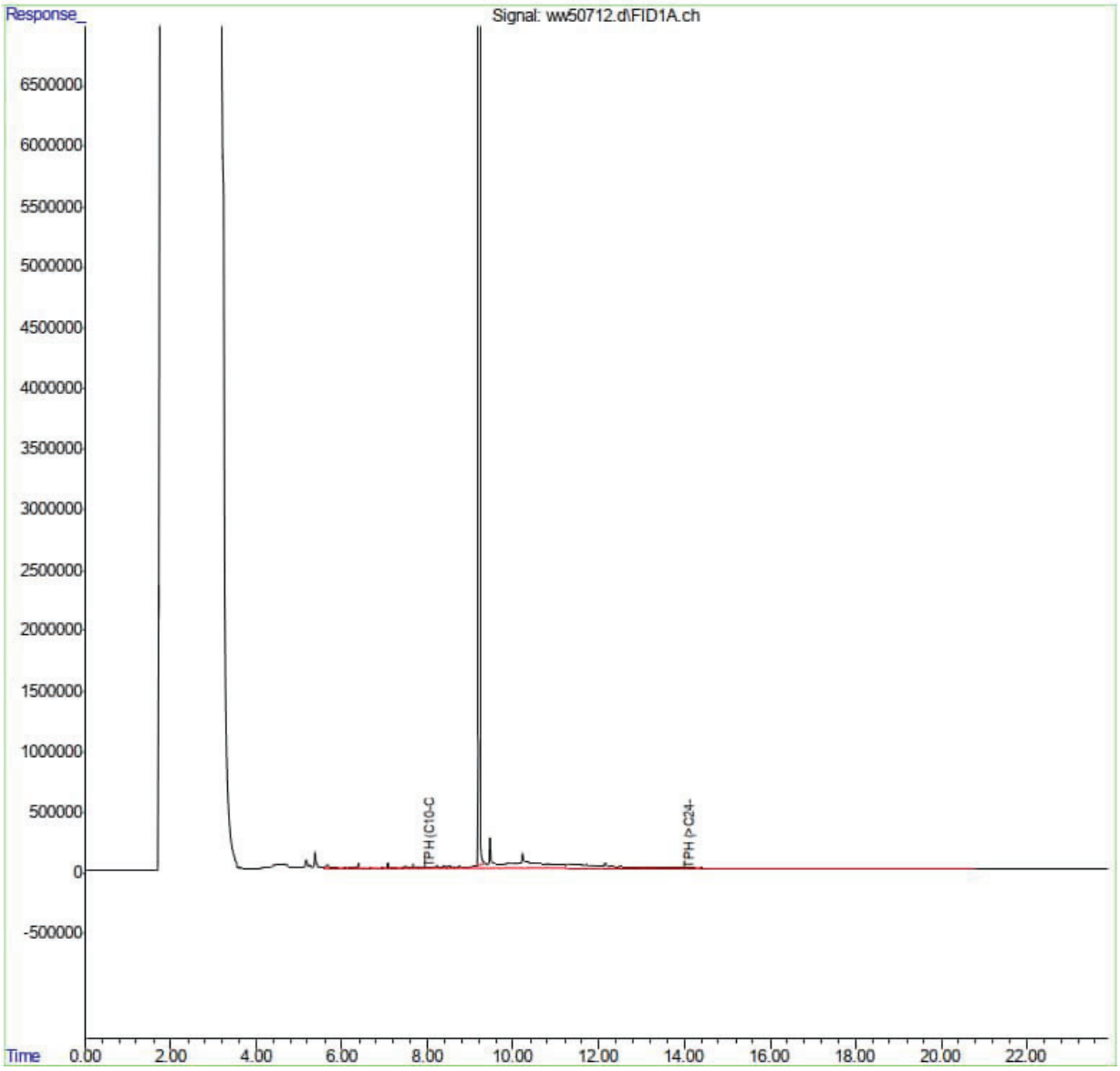
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Sep 10 09:34:20 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
```

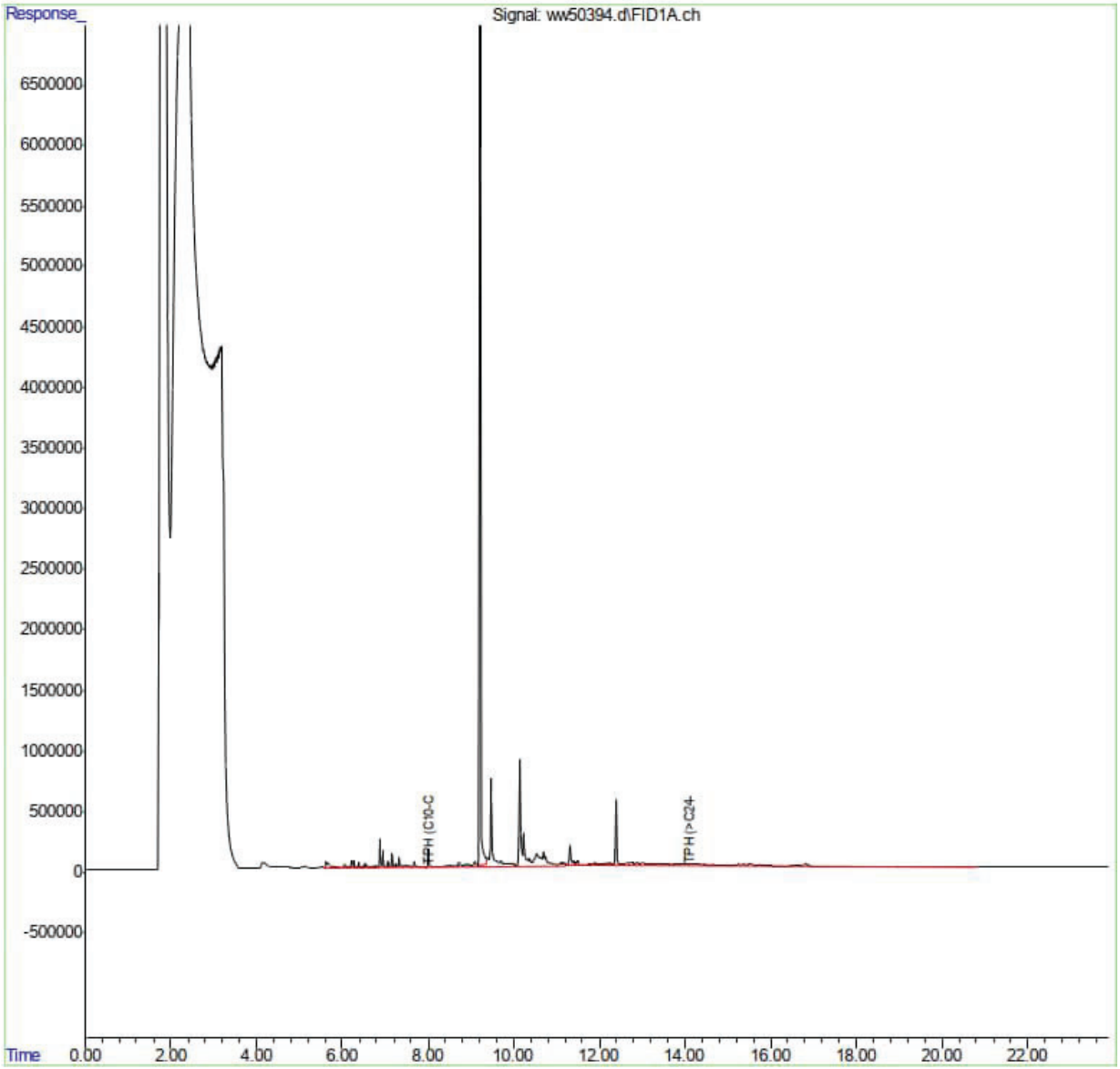


Location: **RHMW06** Sample ID: RHMW06-WGN01LF-2408B Sample Date: 8/22/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 109 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 27 14:13:06 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

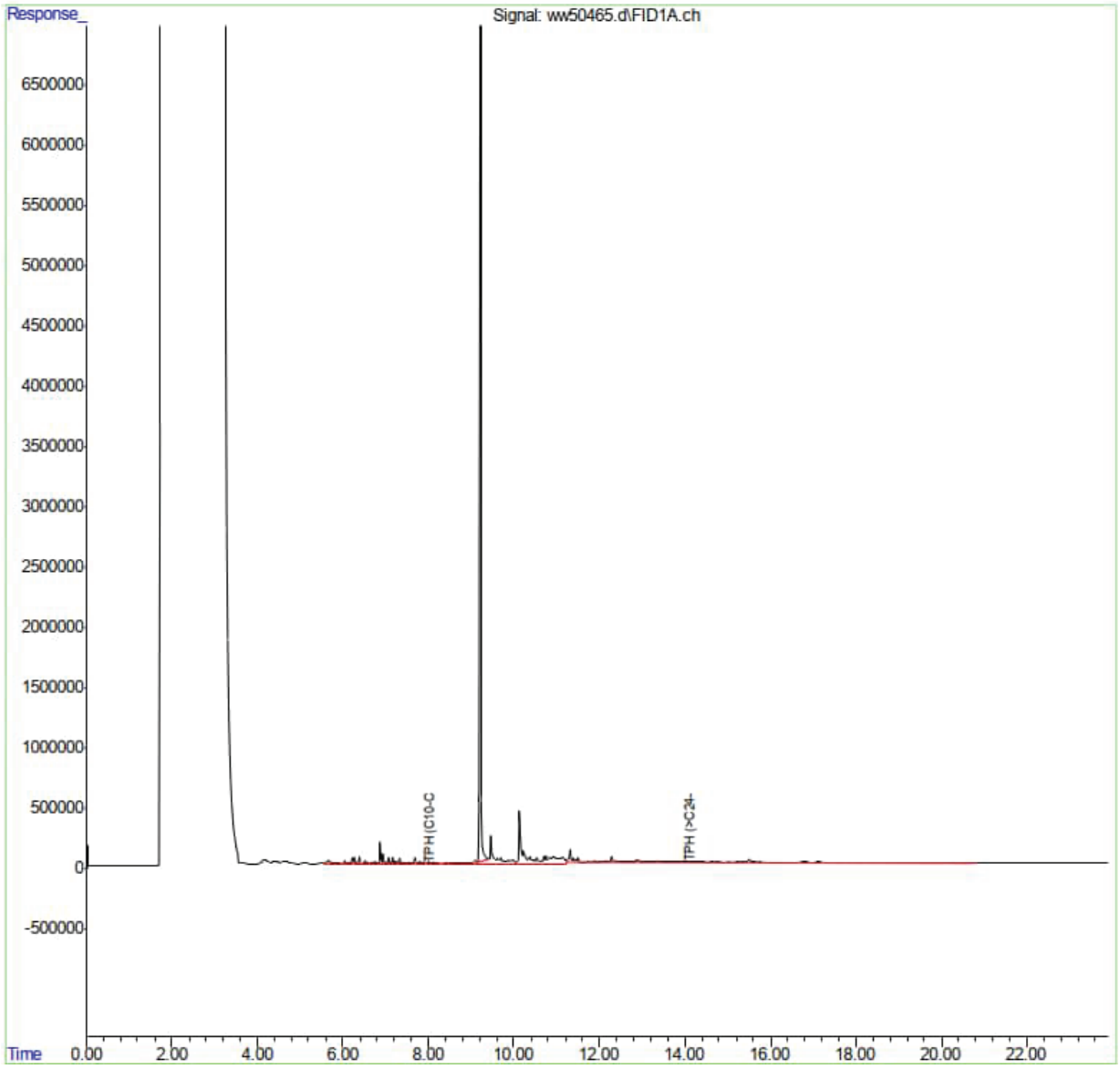
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

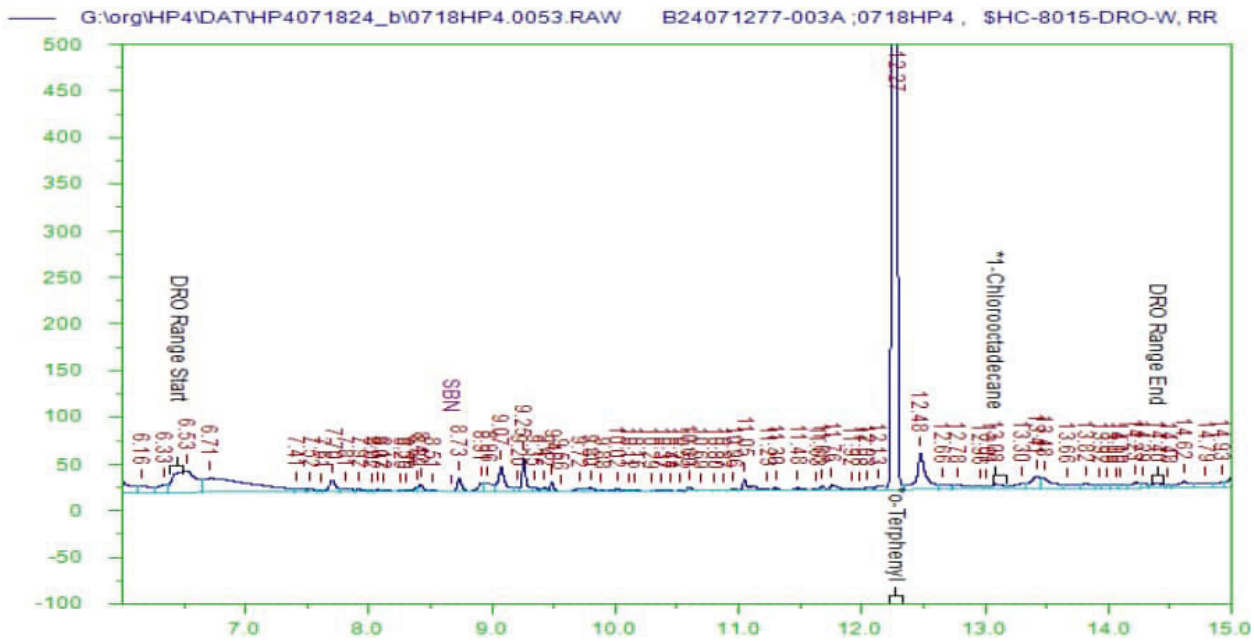
```
Quant Time: Aug 29 10:25:51 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_073024_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Wed Jul 31 10:58:36 2024
Response via : Initial Calibration

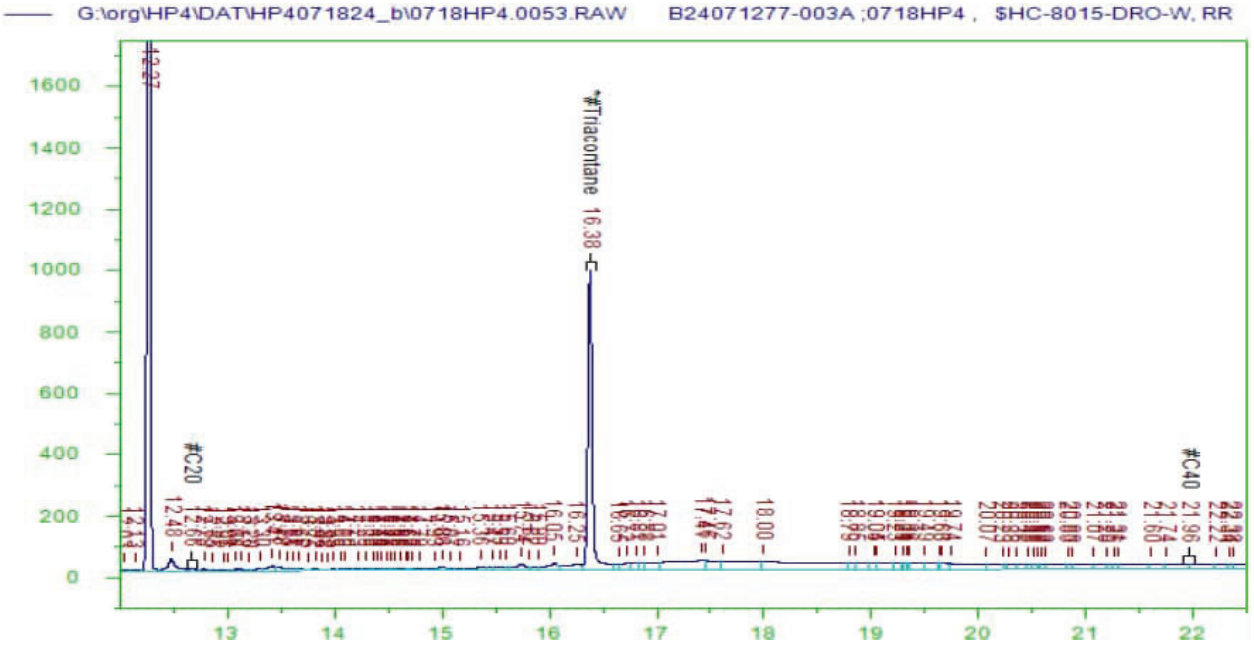
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



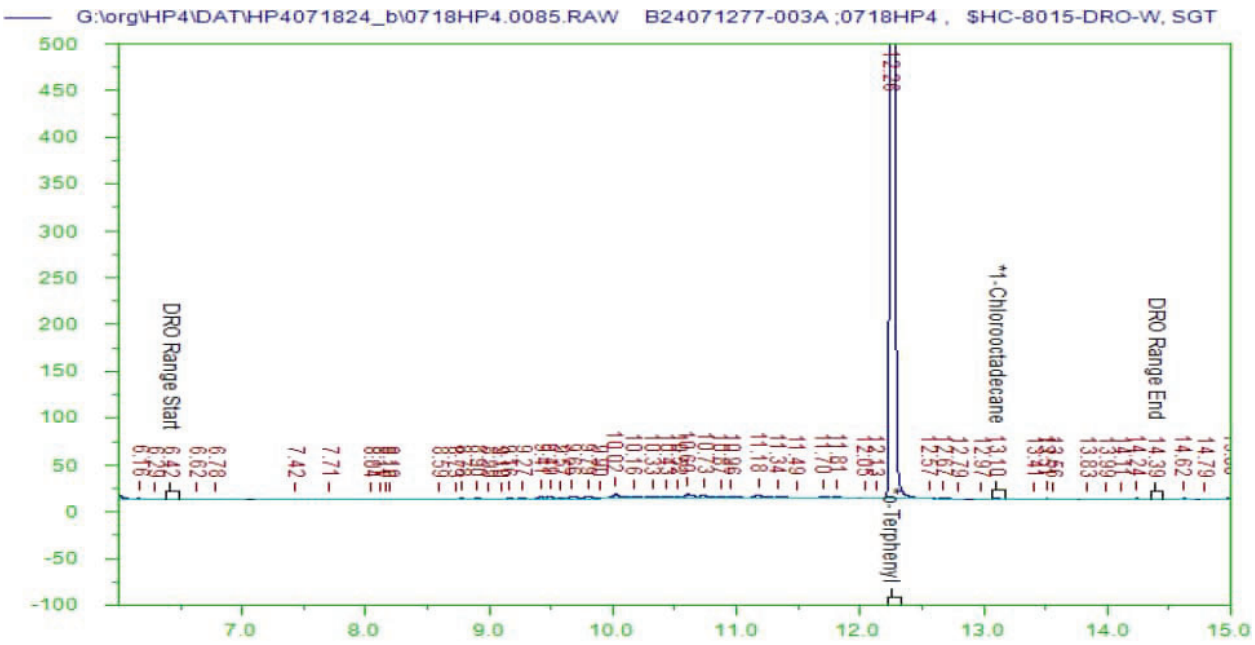
Location: **RHMW08** Sample ID: RHMW08-WGN01LF-2407B Sample Date: 7/15/2024
Lab: (b) (4)

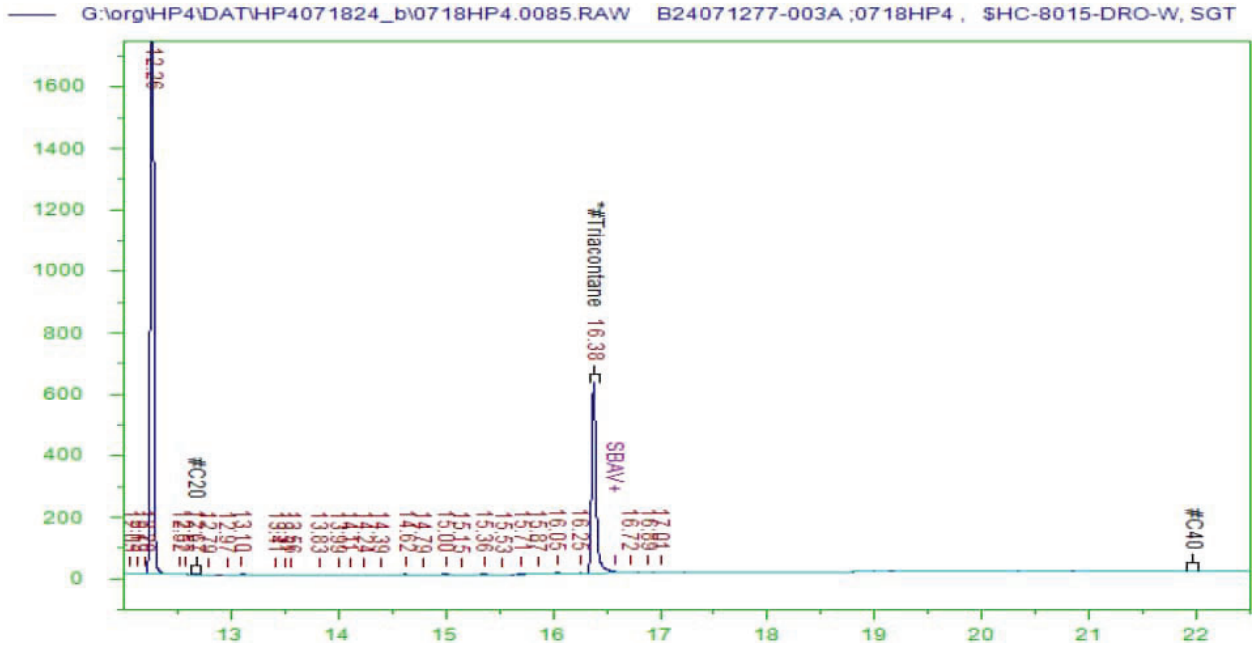
Results (ug/L): **TPH-d (C10 to C24) 71.28 J** **TPH-o (C24 to C40) 296.8 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <143 U** **TPH-o SGC (C24 to C40) <190 U**



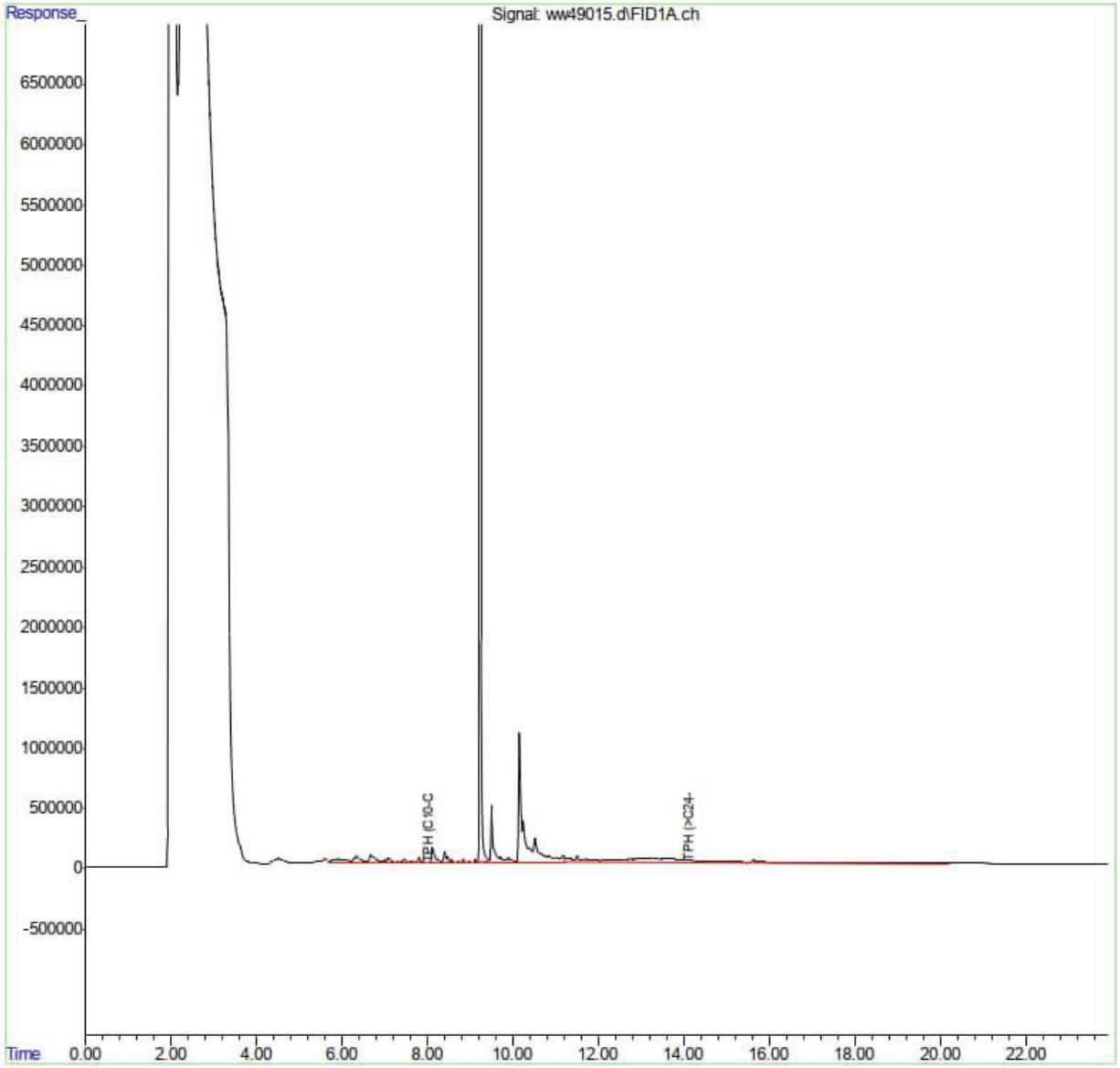


Location: **RHMW17** Sample ID: RHMW17-WGN01LF-2406B Sample Date: 6/24/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 122 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jul 01 10:23:09 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

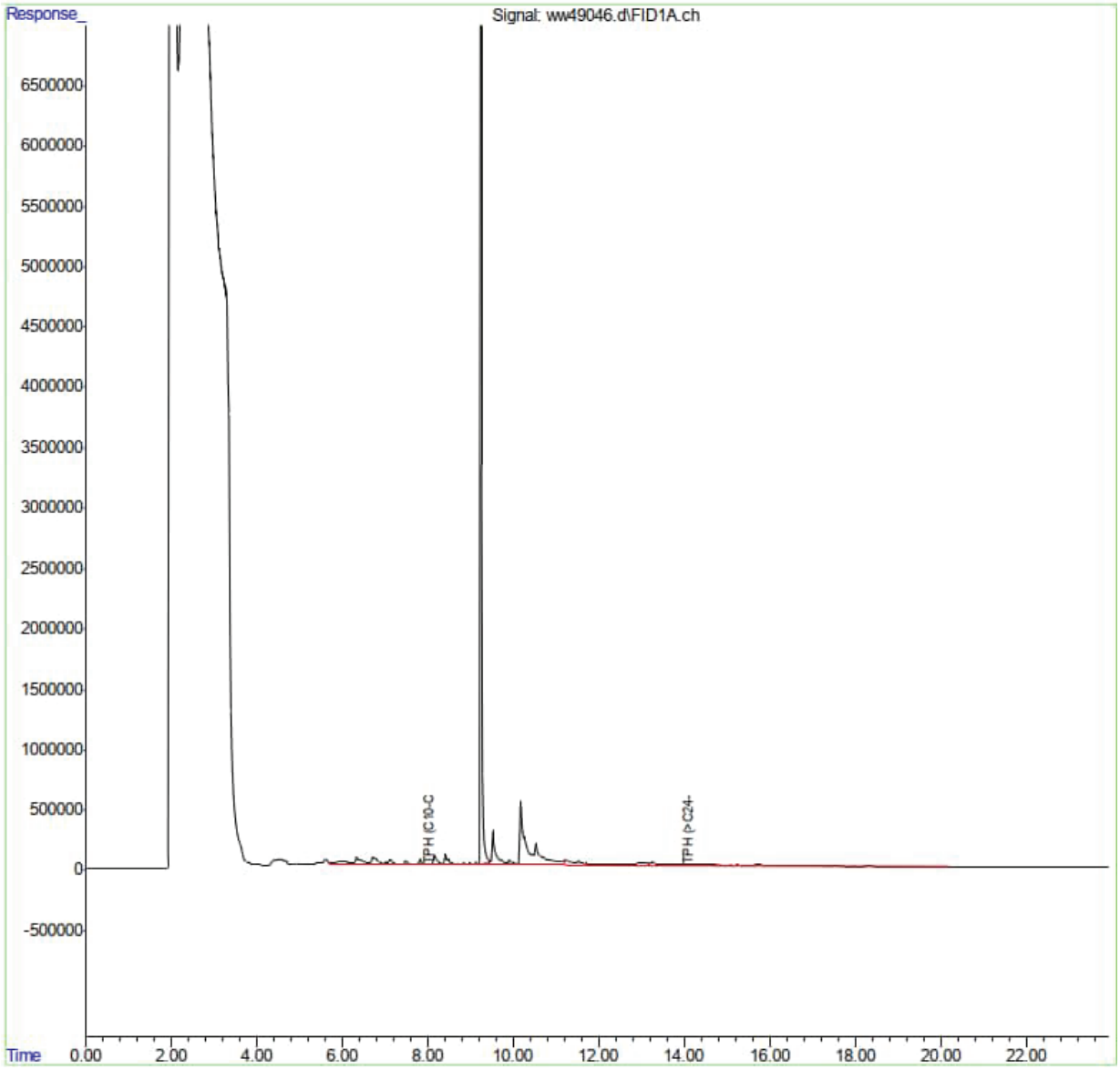
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 94.5 J** **TPH-o SGC (C24 to C40) <160 U**

```
Quant Time: Jul 02 09:12:06 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

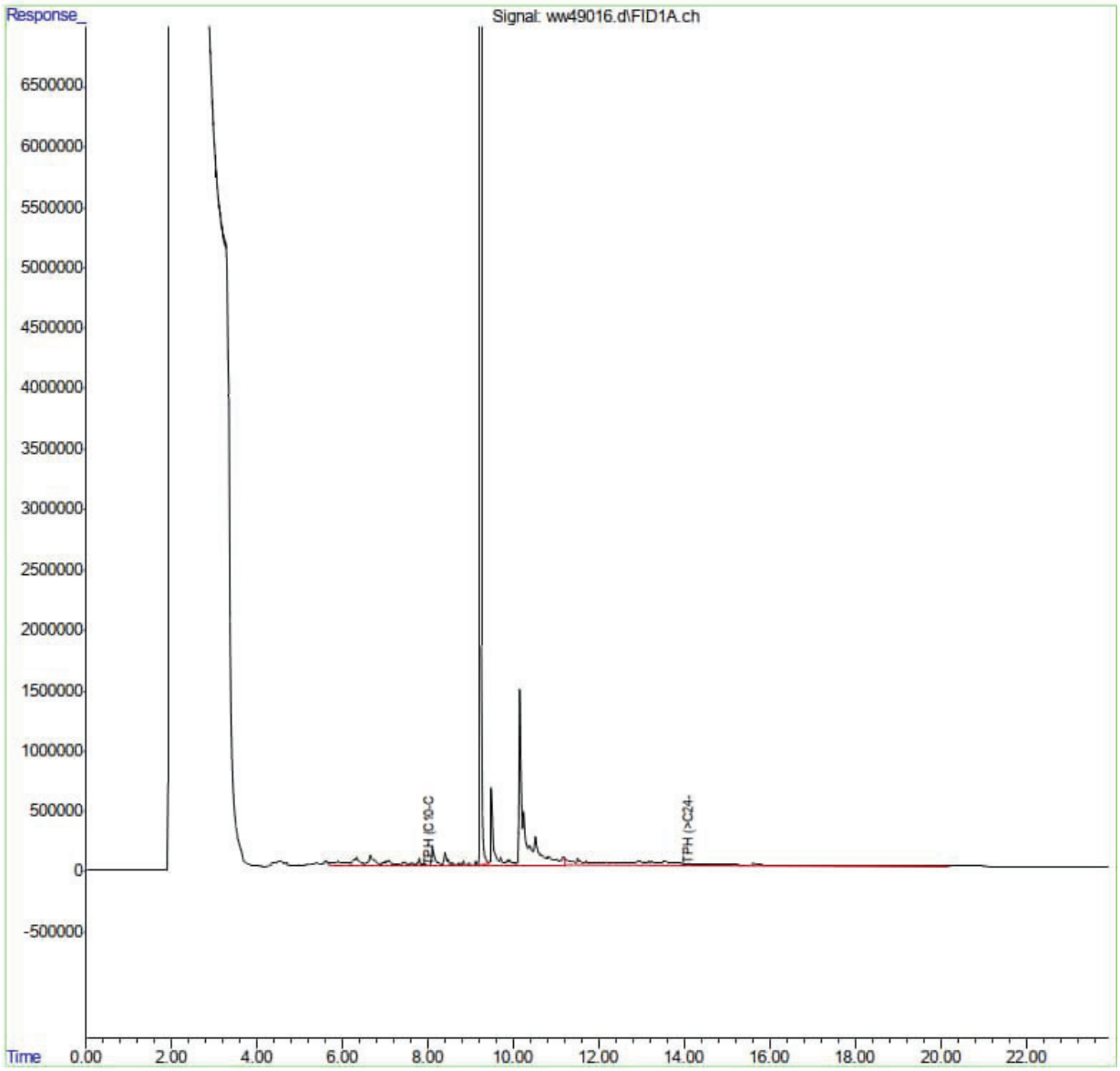


Location: **RHMW17** Sample ID: RHMW17-WGFD01LF-2406B Sample Date: 6/24/2024
Lab: [redacted]

Results (ug/L): **TPH-d (C10 to C24) 144 J** **TPH-o (C24 to C40) <160 U**

```
Quant Time: Jul 01 10:23:11 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

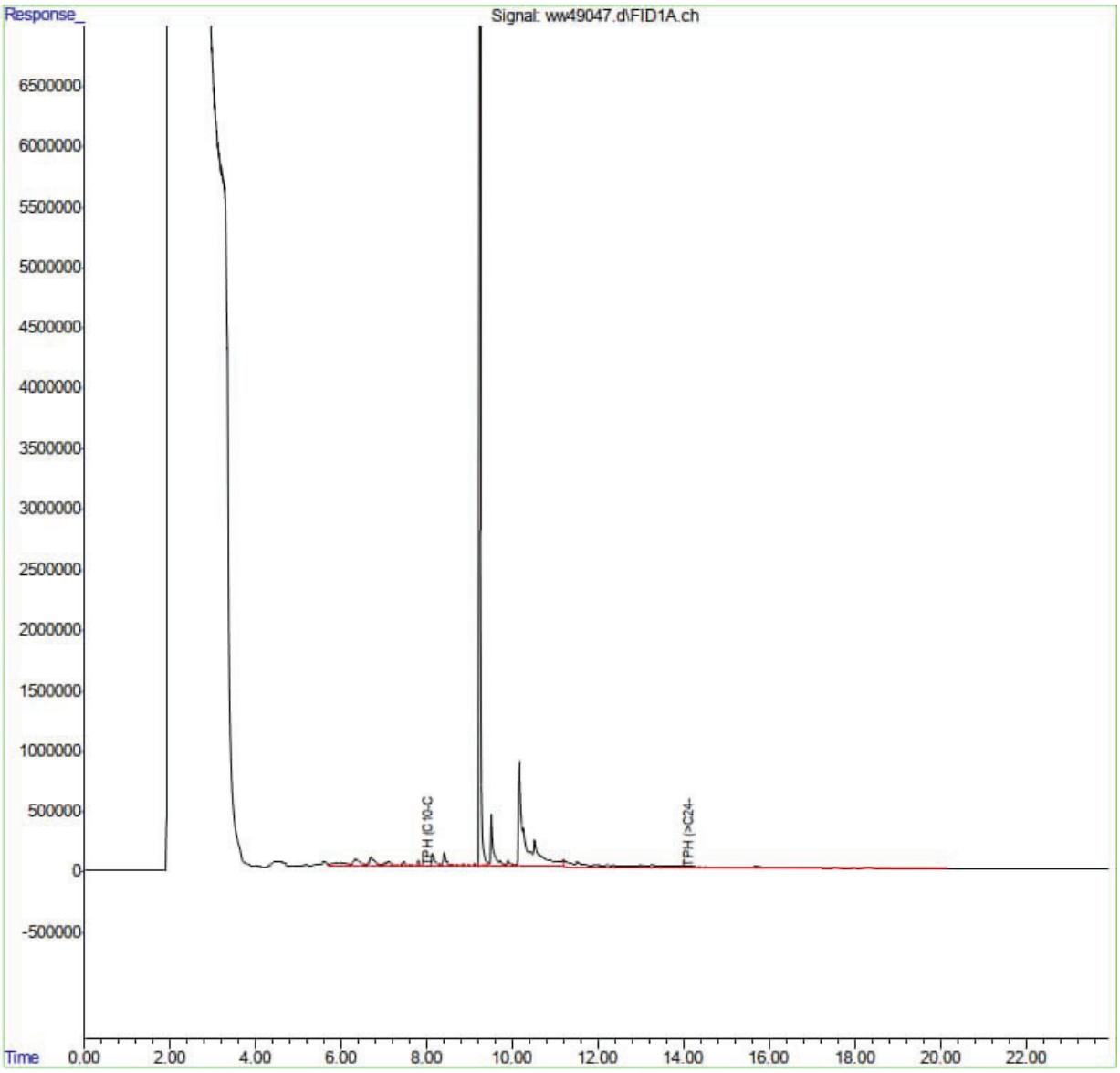
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 118 J** **TPH-o SGC (C24 to C40) <160 U**

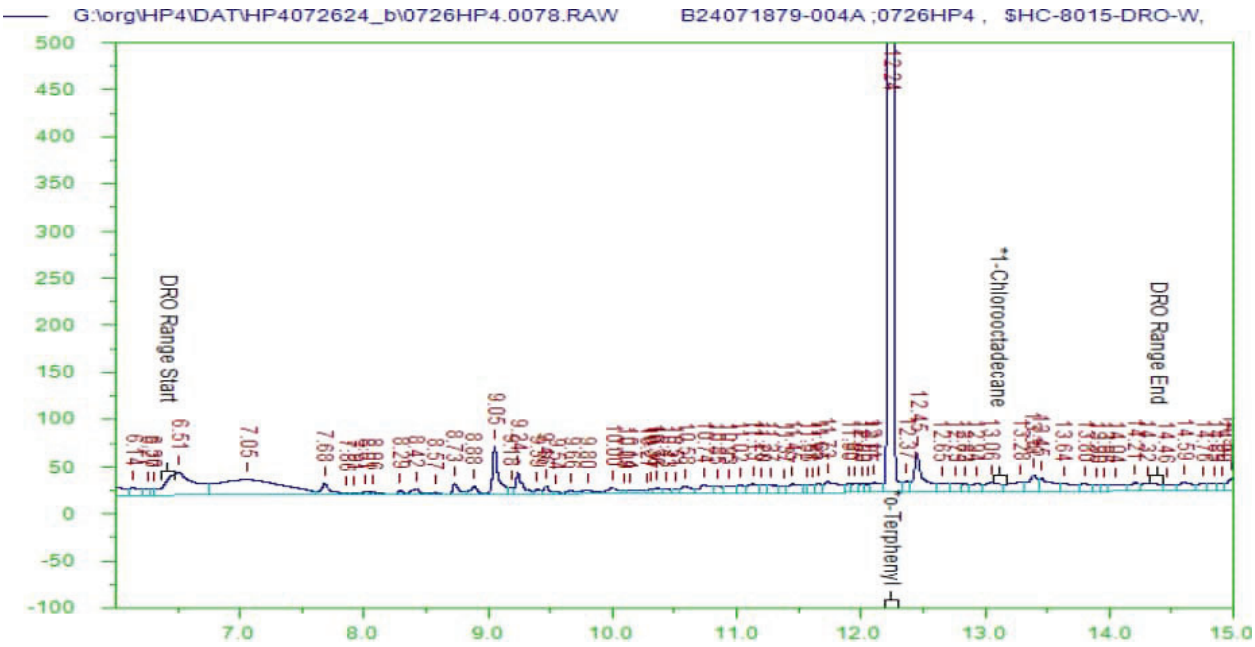
```
Quant Time: Jul 02 09:12:08 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

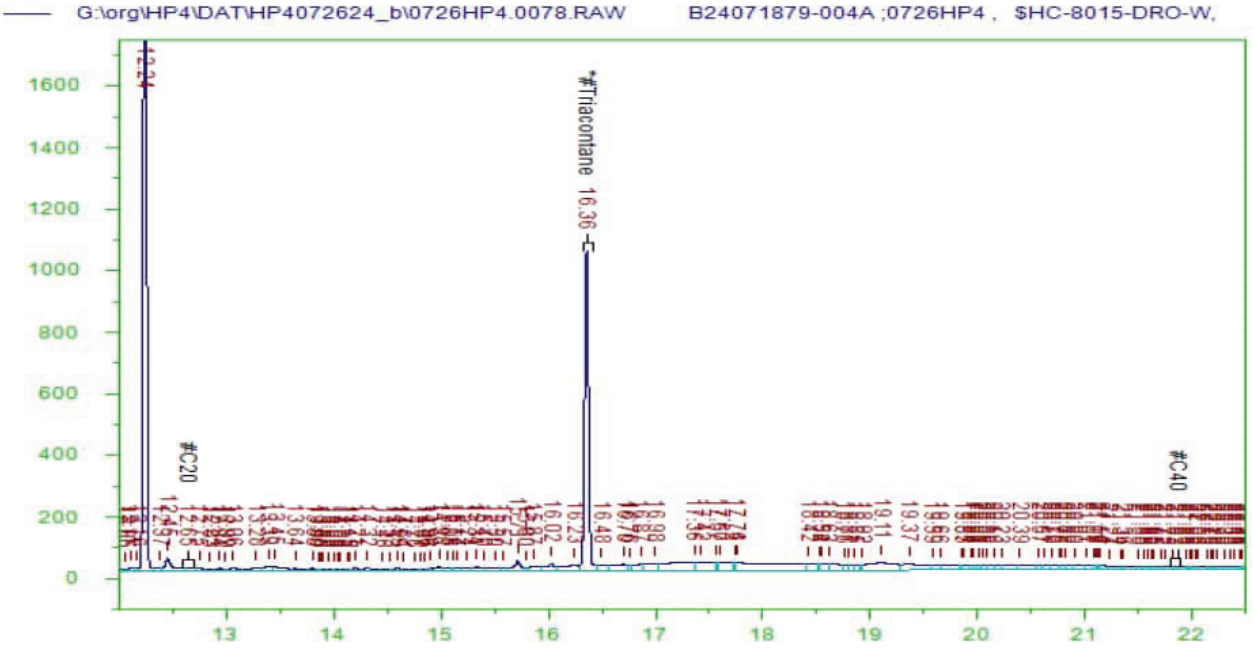
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



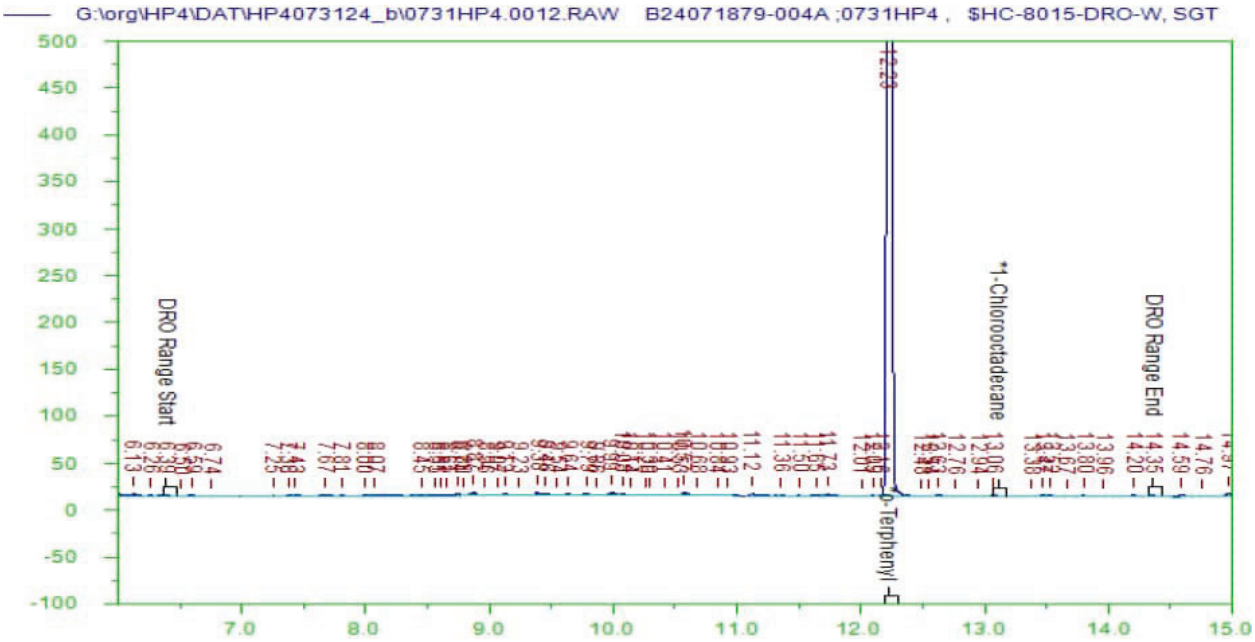
Location: **RHMW17** Sample ID: RHMW17-WGFD01LF-2407B Sample Date: 7/22/2024
Lab: (b) (4)

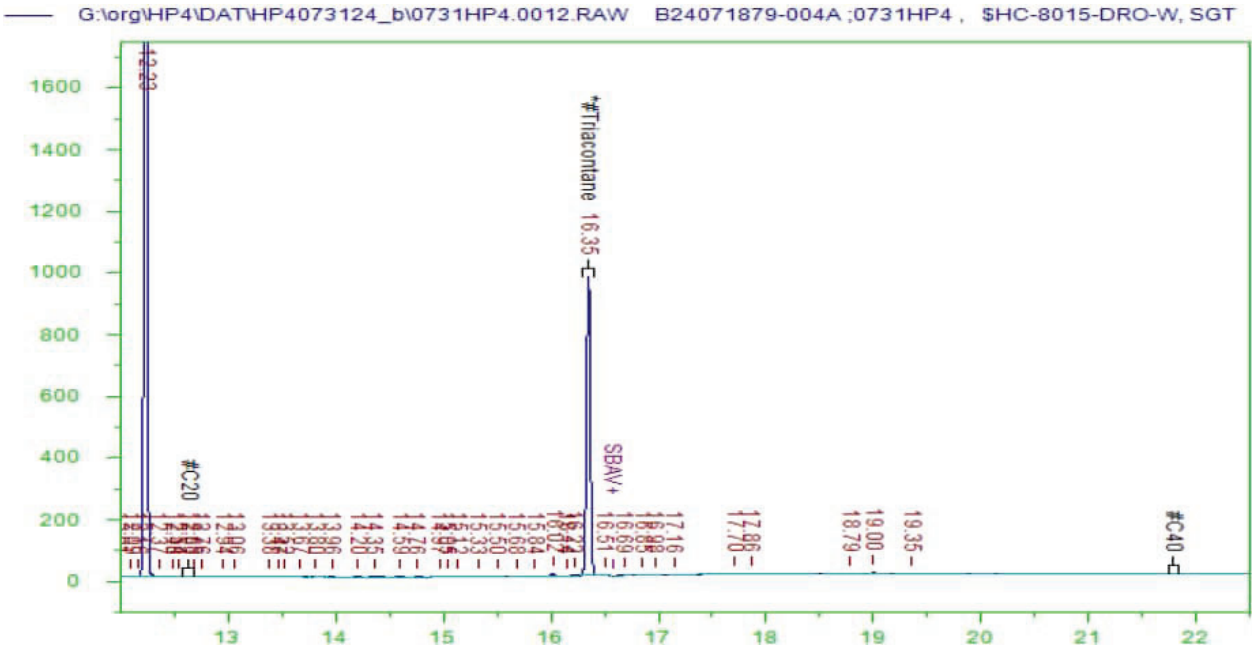
Results (ug/L): **TPH-d (C10 to C24) 107.6 J** **TPH-o (C24 to C40) 284.4 J**





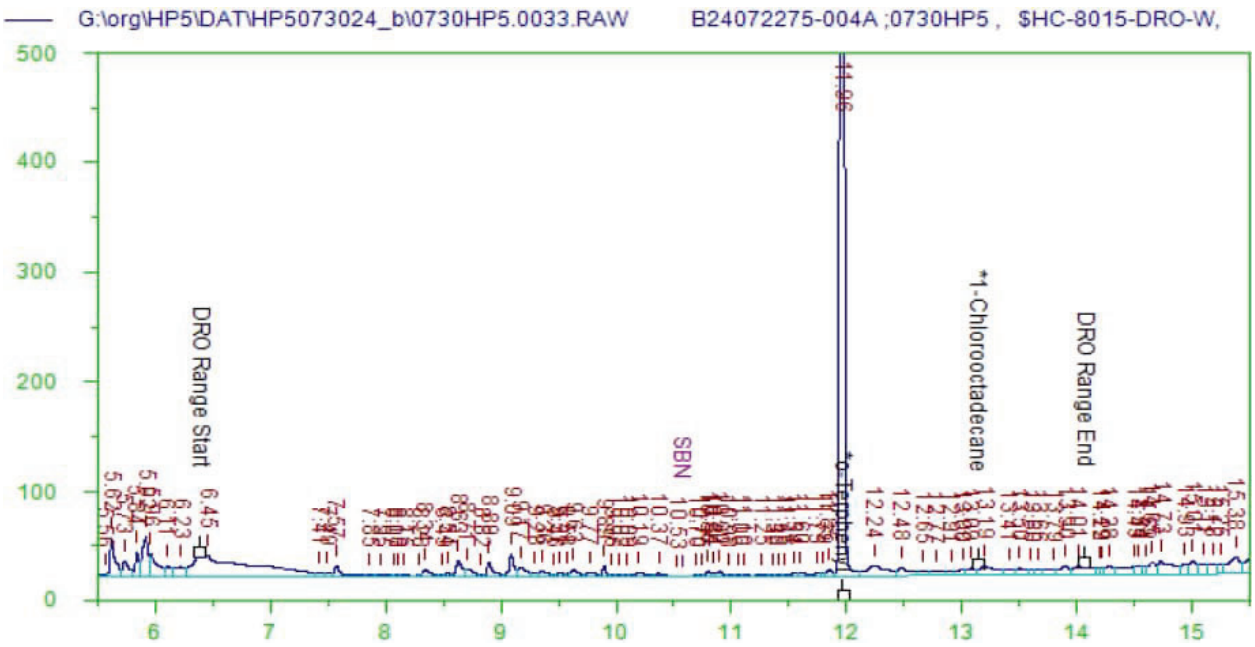
Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**

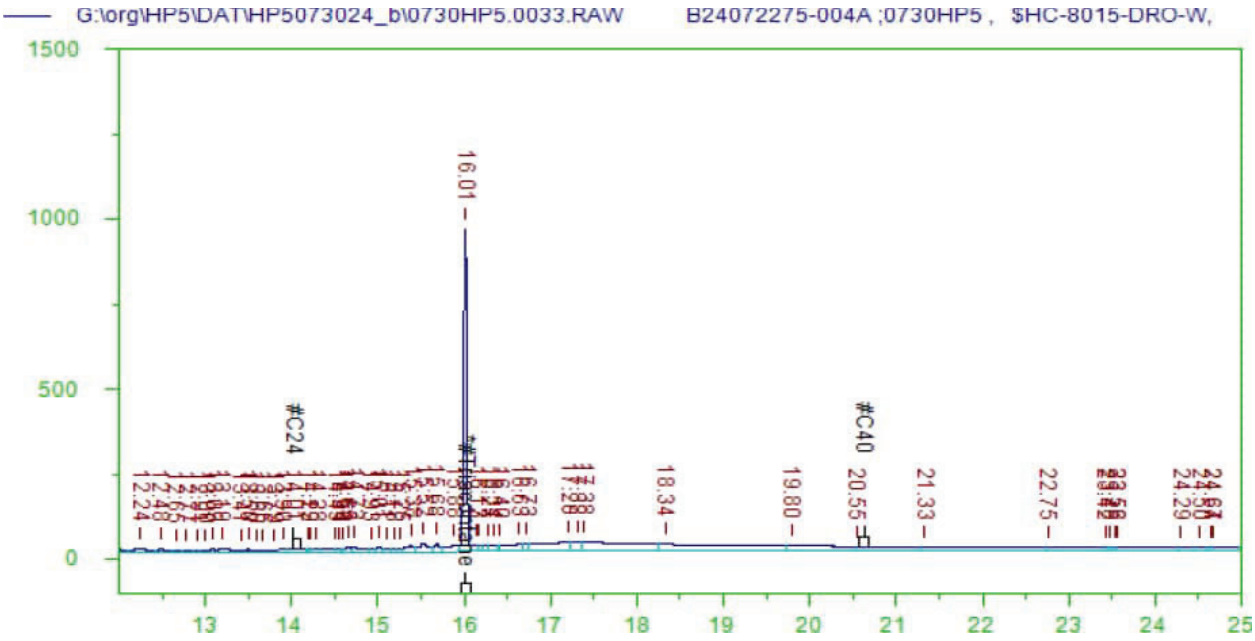




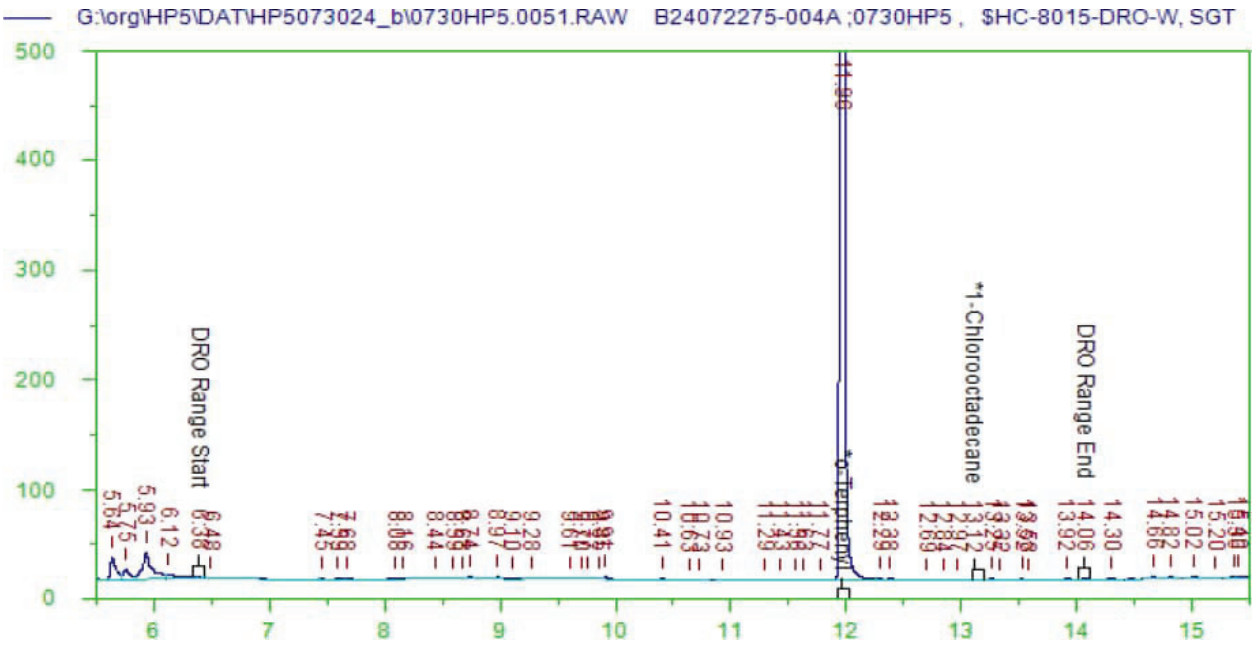
Location: **RHMW18** Sample ID: RHMW18-WGN01LF-2407B Sample Date: 7/25/2024
Lab: (b) (4)

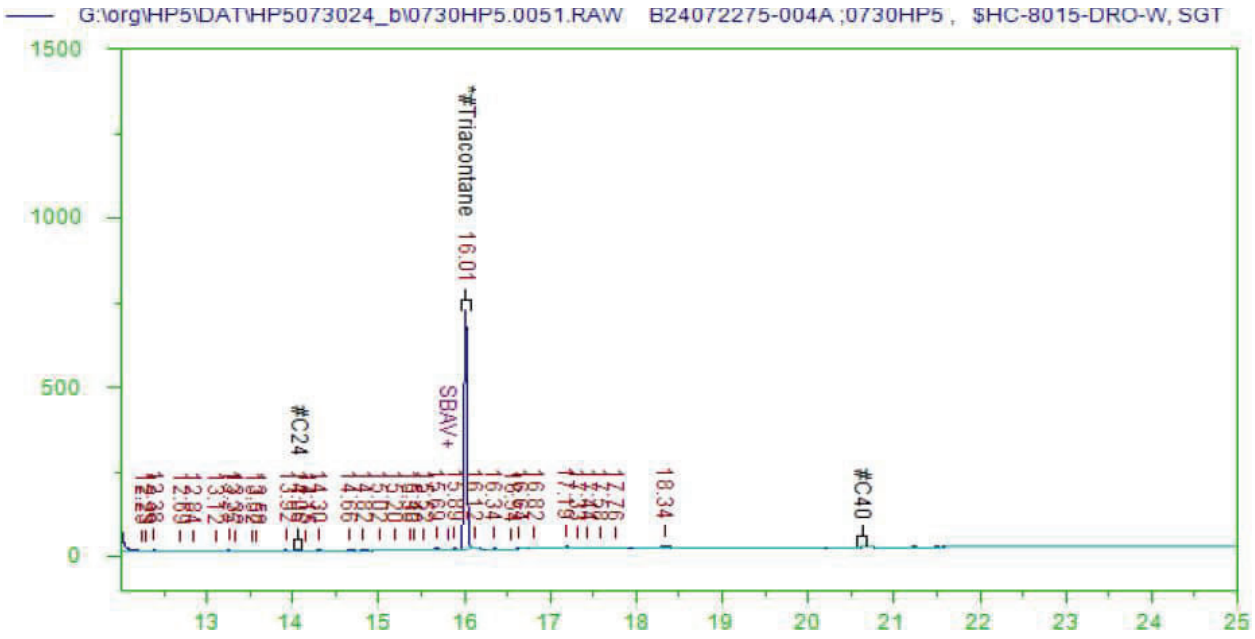
Results (ug/L): **TPH-d (C10 to C24) 66.8 J** **TPH-o (C24 to C40) 255 J**





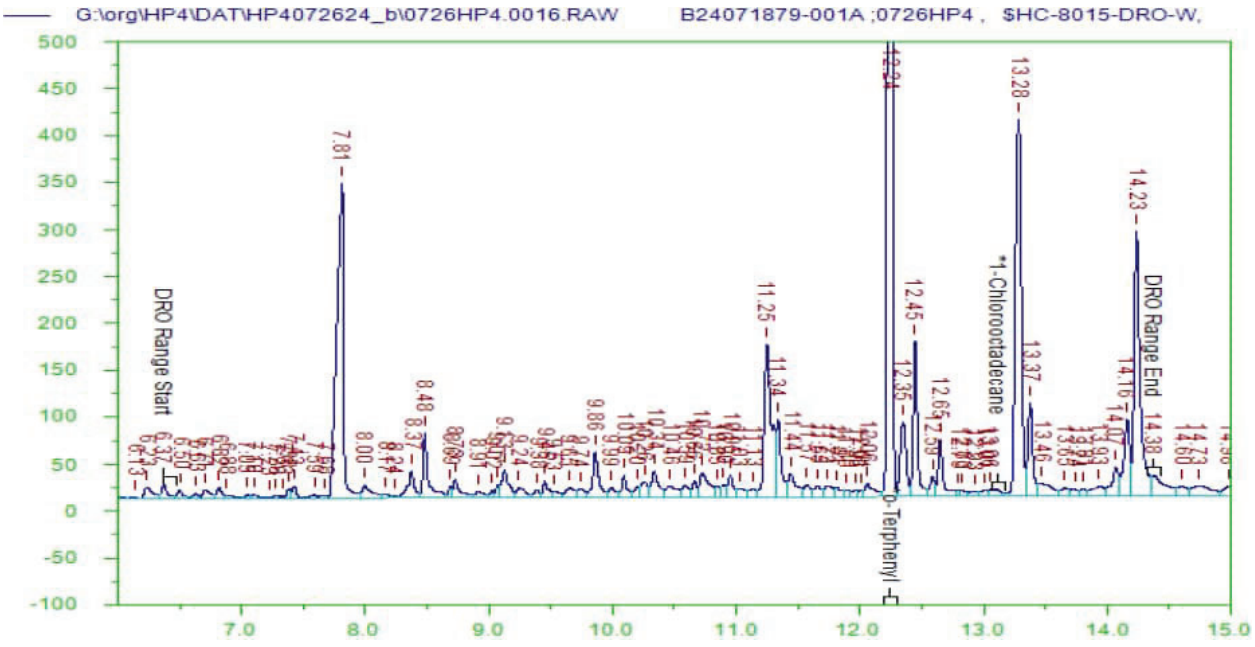
Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**

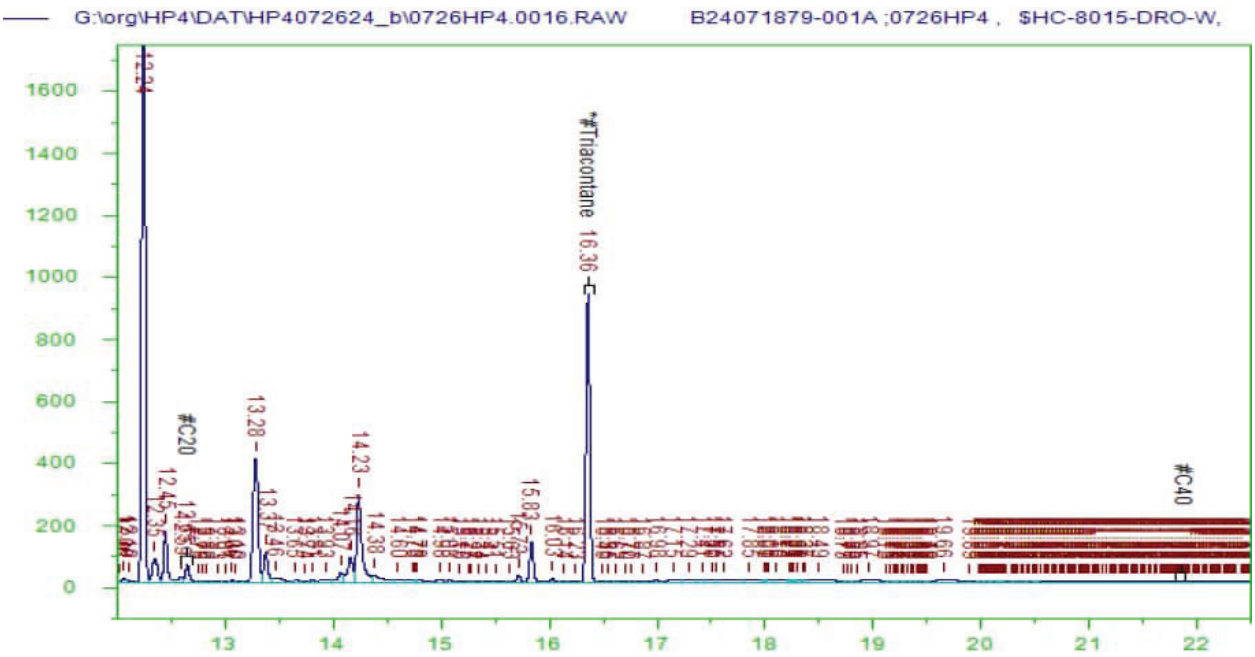




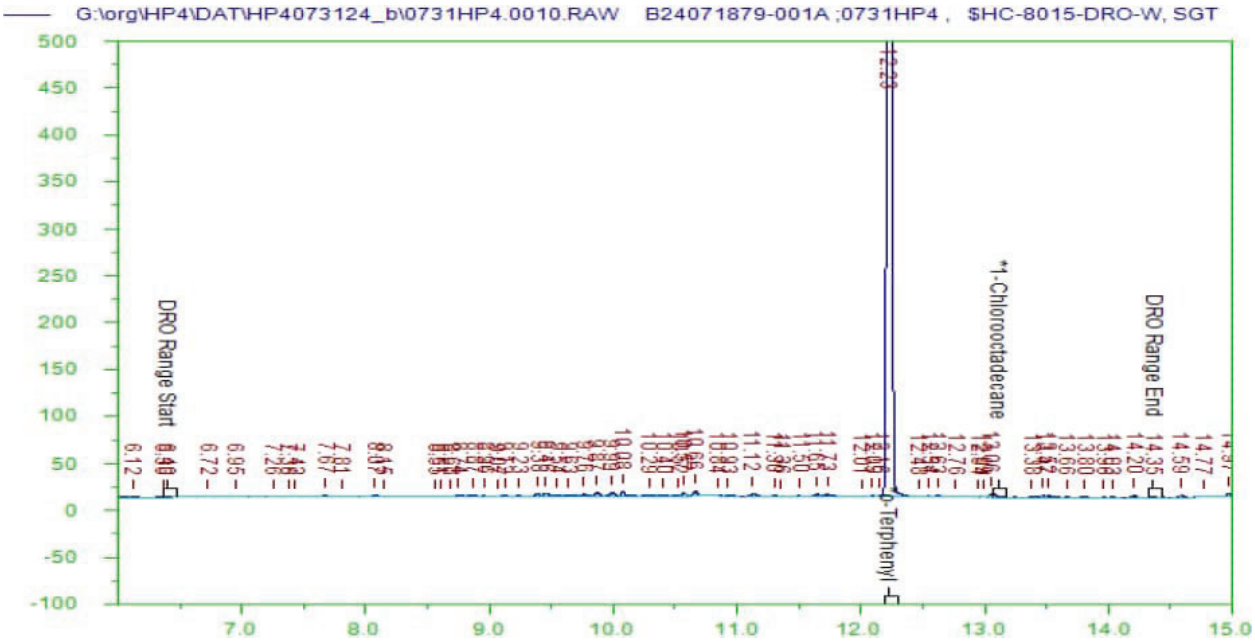
Location: **RHMW21** Sample ID: RHMW21-WGN01LF-2407B Sample Date: 7/22/2024
Lab: (b) (4)

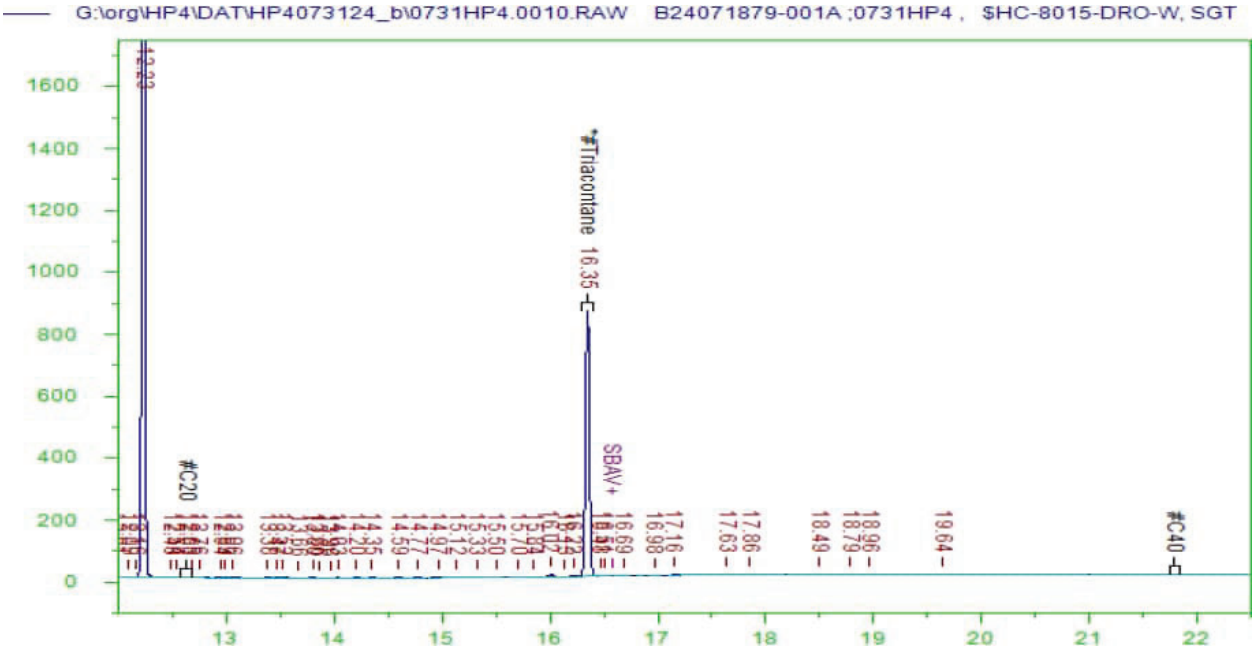
Results (ug/L): **TPH-d (C10 to C24) 268.7 J** **TPH-o (C24 to C40) 225.8 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**



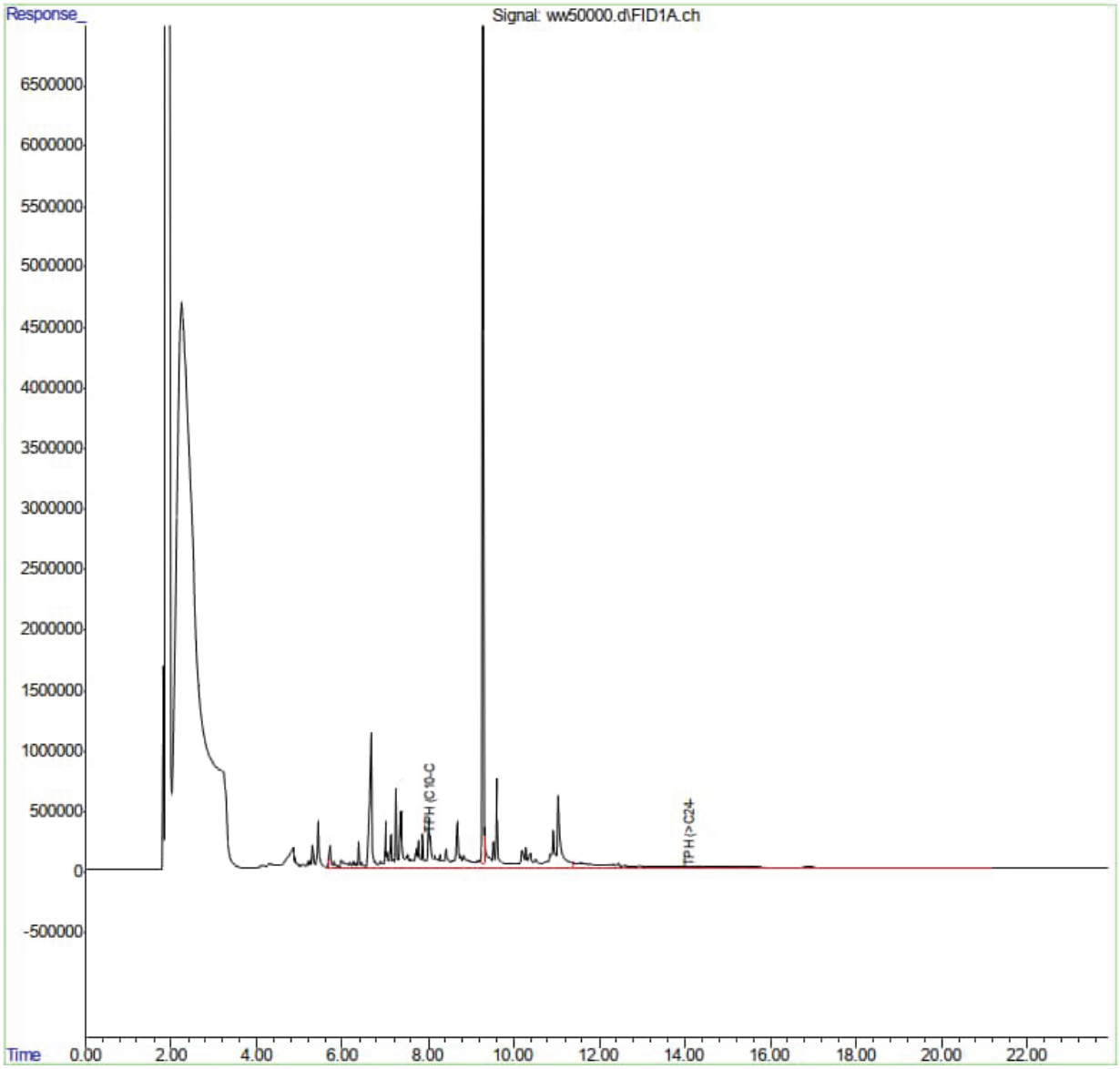


Location: **RHMW21** Sample ID: RHMW21-WGN01LF-2408A Sample Date: 8/5/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 503 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:40:18 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

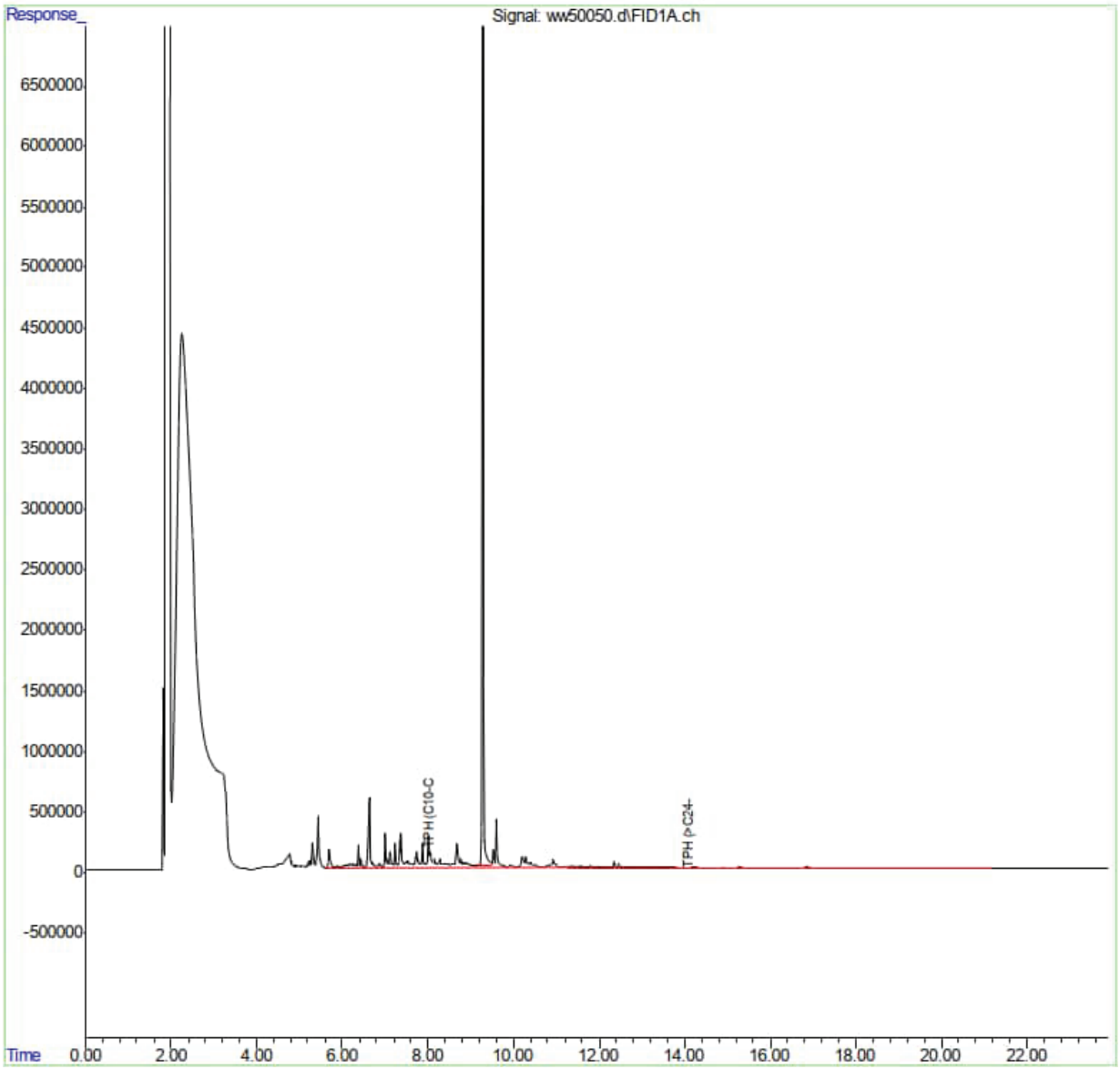
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 123 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:33:23 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
```

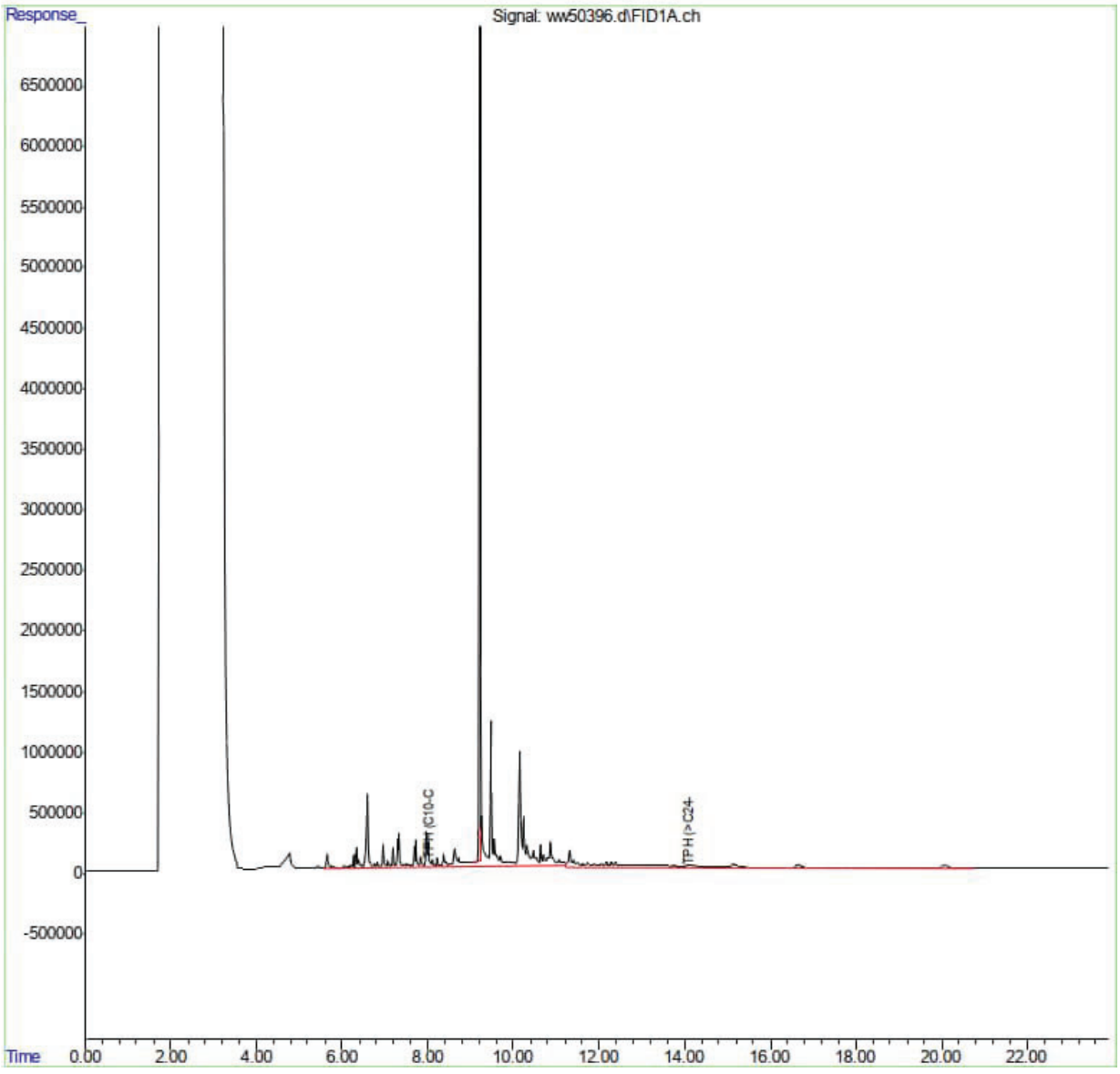


Location: **RHMW21** Sample ID: RHMW21-WGN01LF-2408B Sample Date: 8/22/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 202 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 27 14:13:10 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

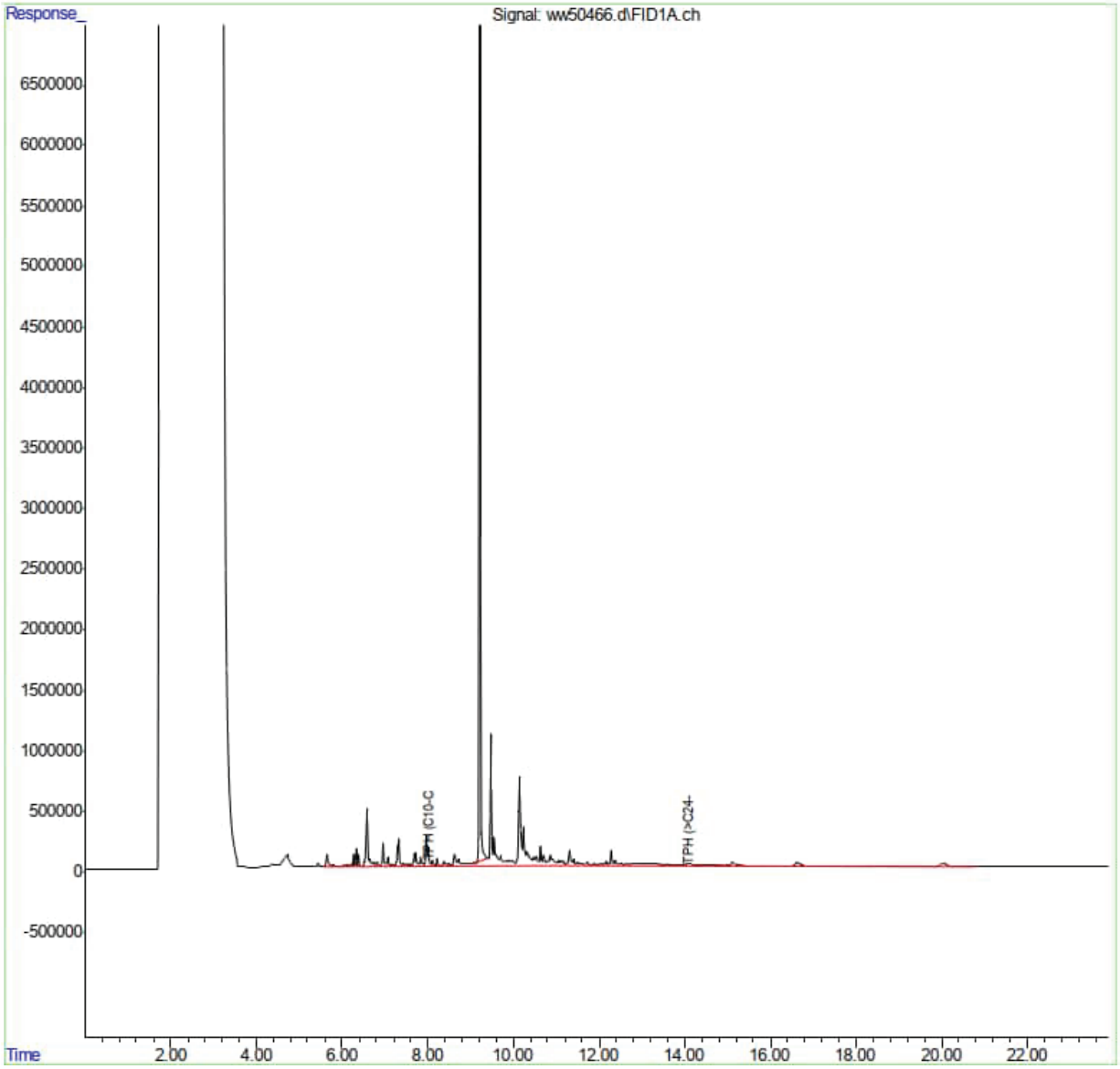
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 161 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 29 10:25:53 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
```

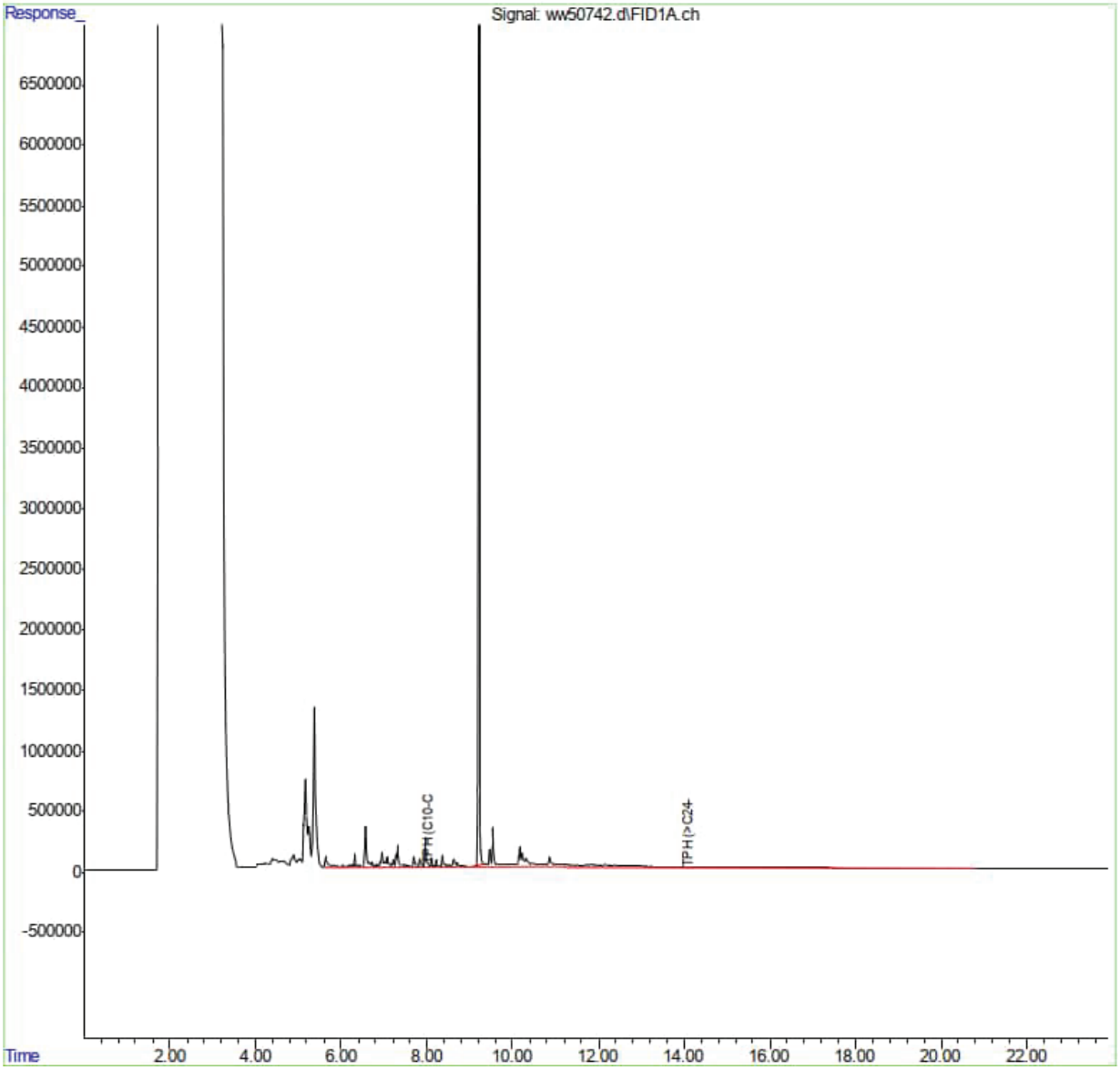


Location: **RHMW21** Sample ID: RHMW21-WGN01LF-2409A Sample Date: 9/4/2024
Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 88.8 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Sep 11 10:35:45 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

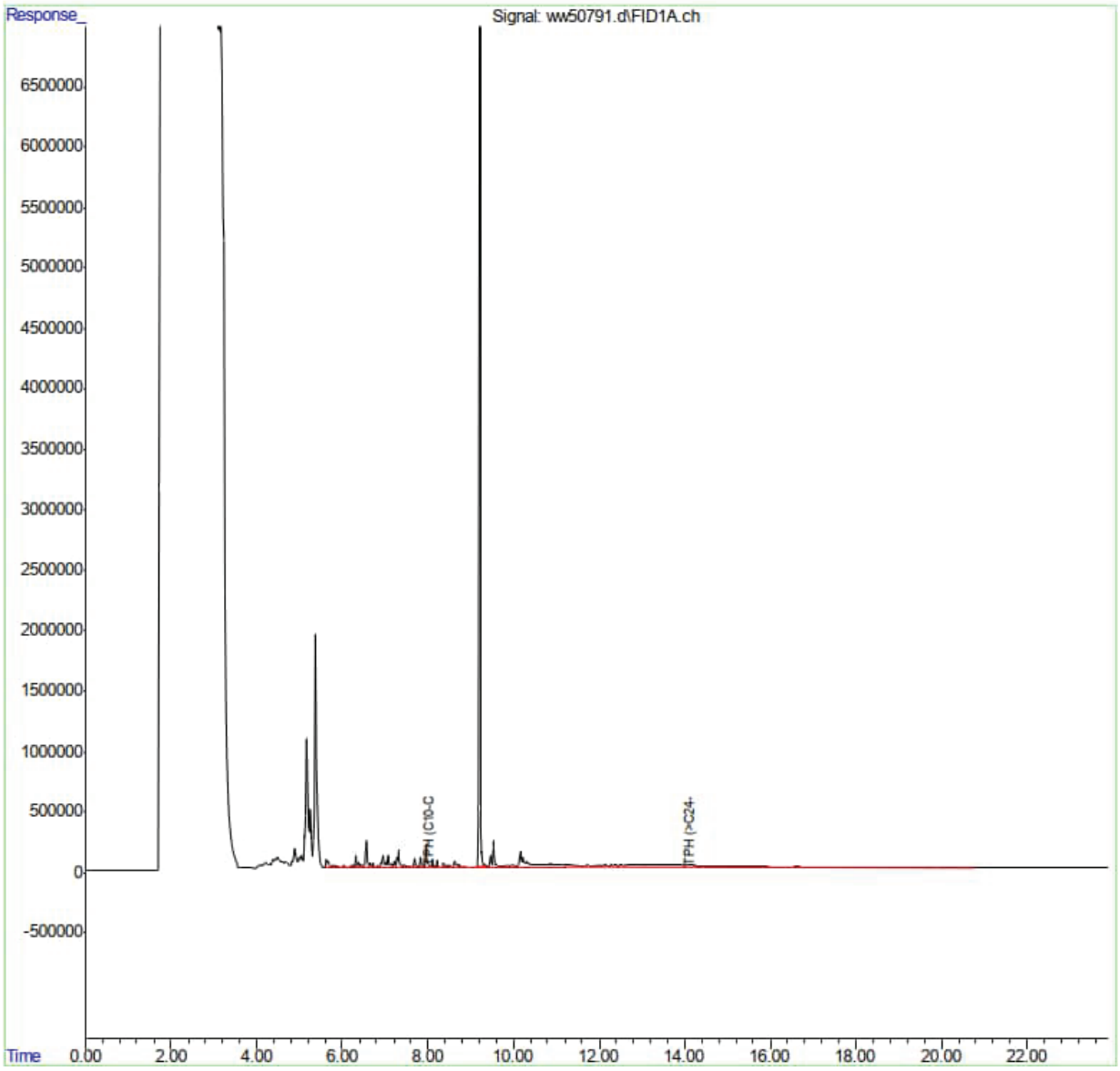
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 12 14:11:20 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

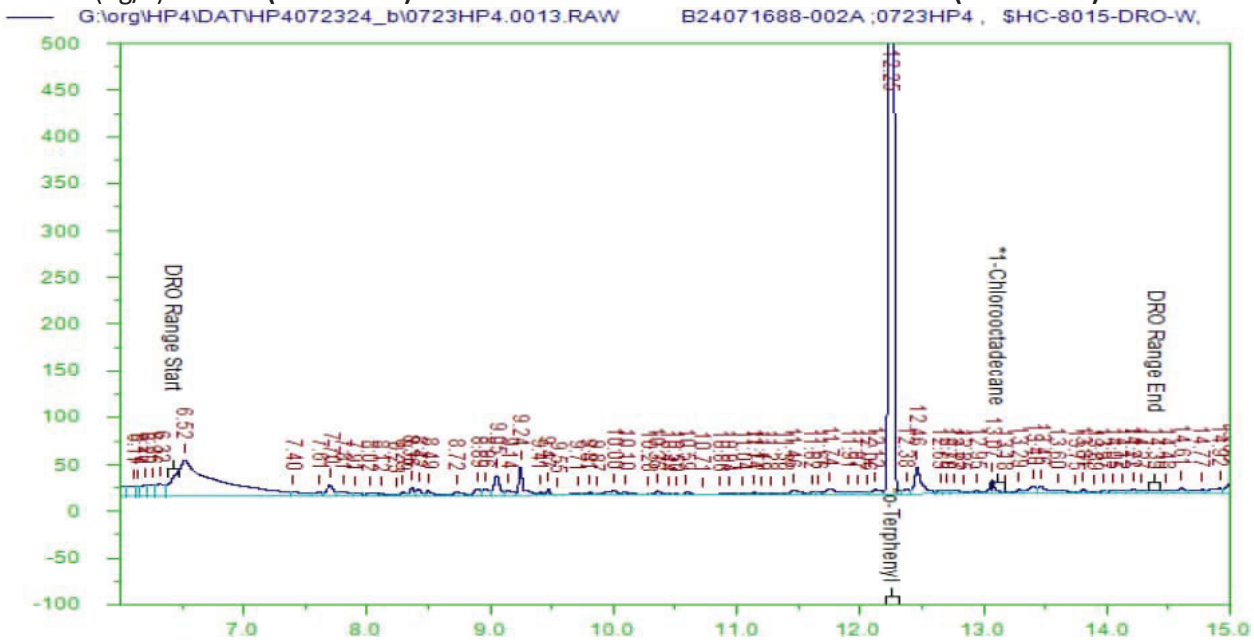
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

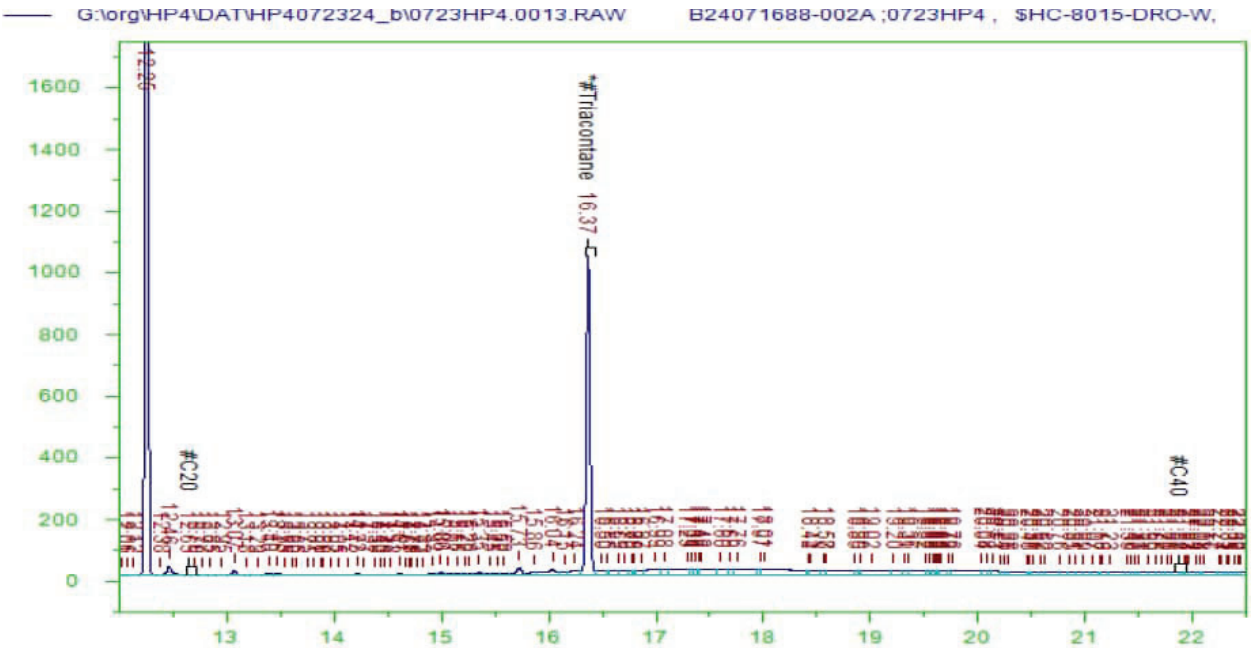


Location: **RHP01** Sample ID: RHP01-WGN01LF-2407B Sample Date: 7/18/2024

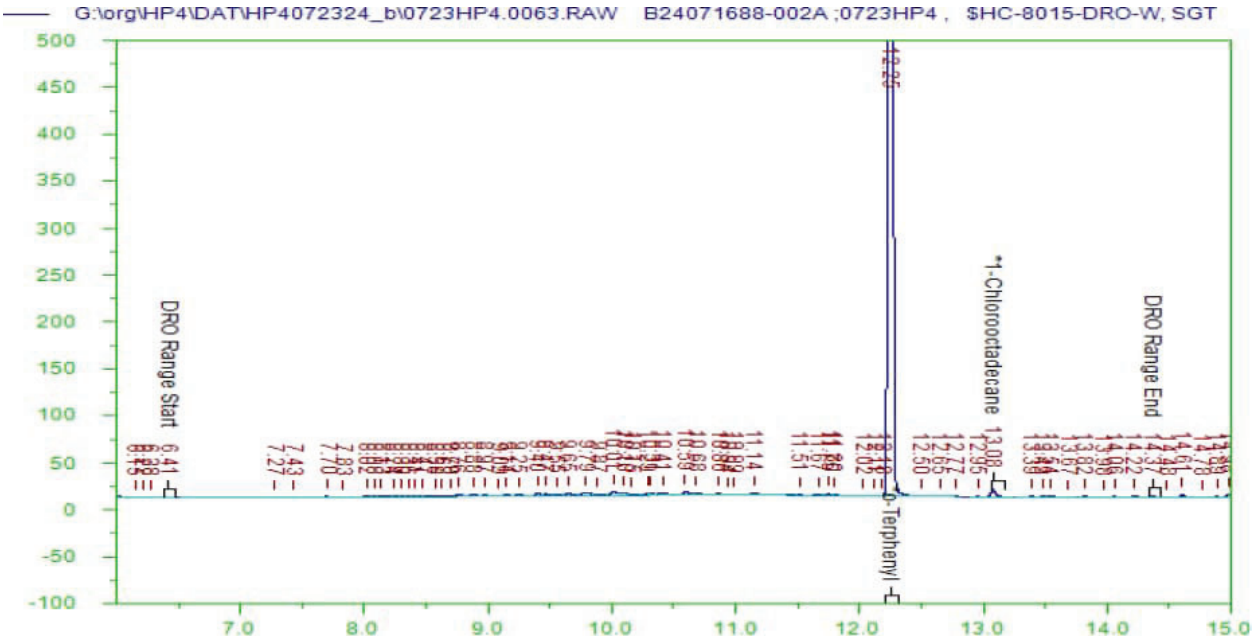
Lab: (b) (4)

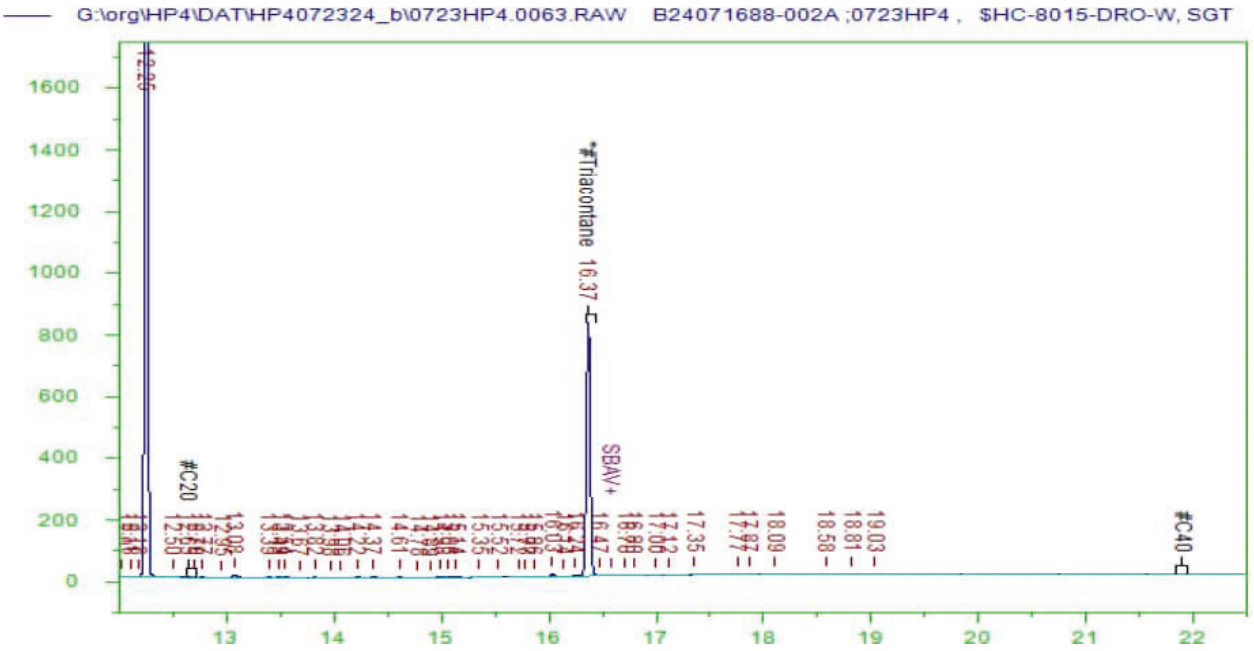
Results (ug/L): **TPH-d (C10 to C24) 68.85 J** **TPH-o (C24 to C40) 201.2 J**





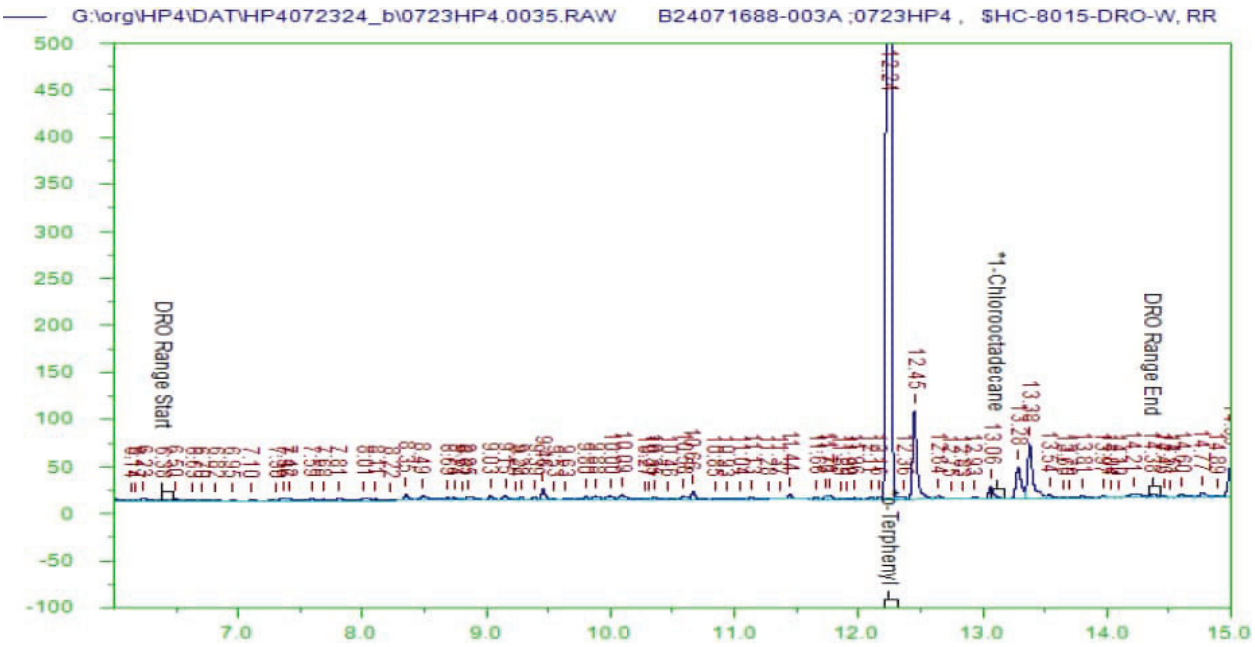
Results (ug/L): **TPH-d SGC (C10 to C24) <140 U** **TPH-o SGC (C24 to C40) <187 U**

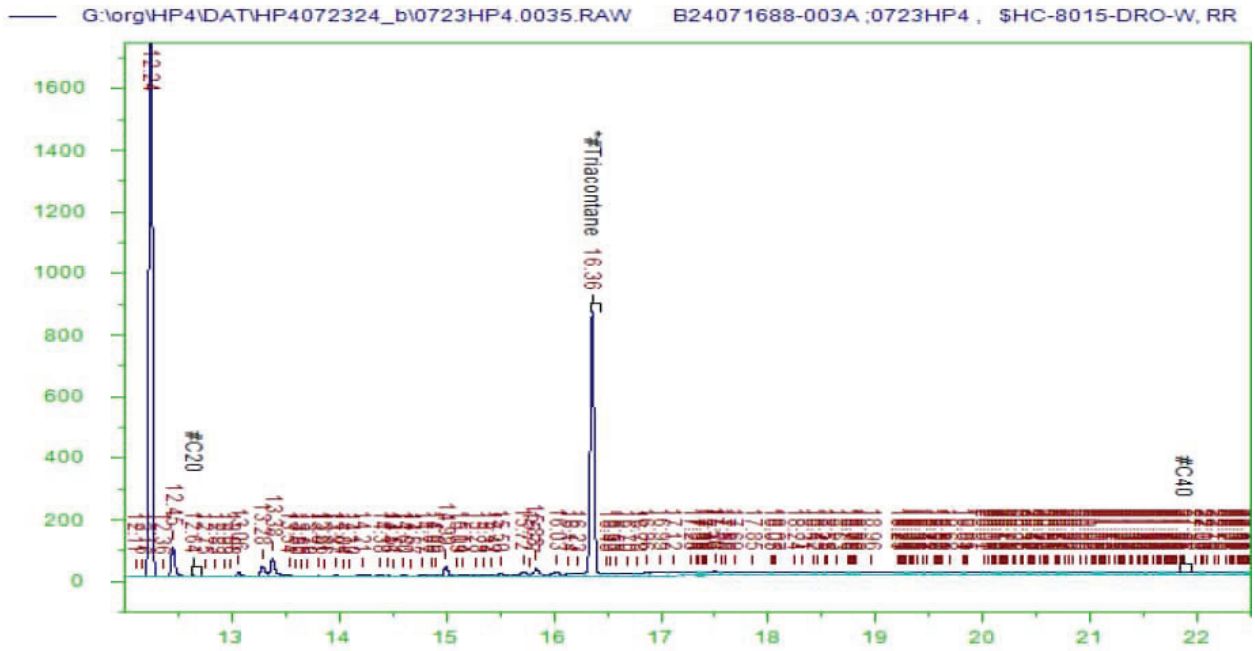




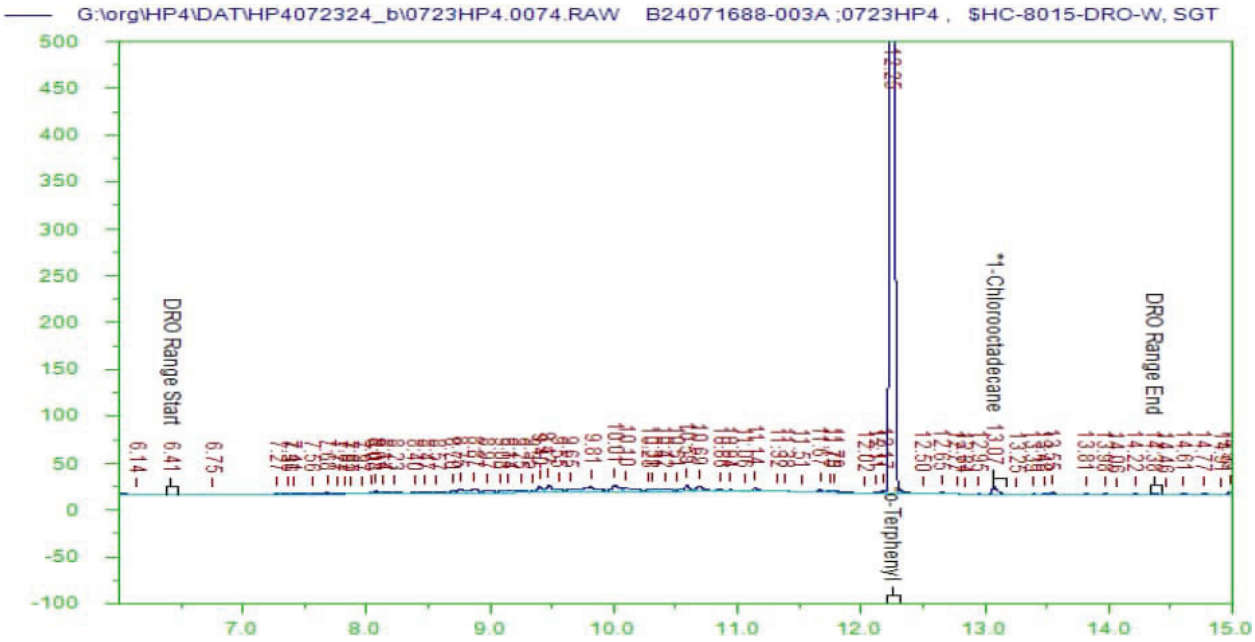
Location: **RHP02** Sample ID: RHP02-WGN01LF-2407B Sample Date: 7/18/2024
Lab: (b) (4)

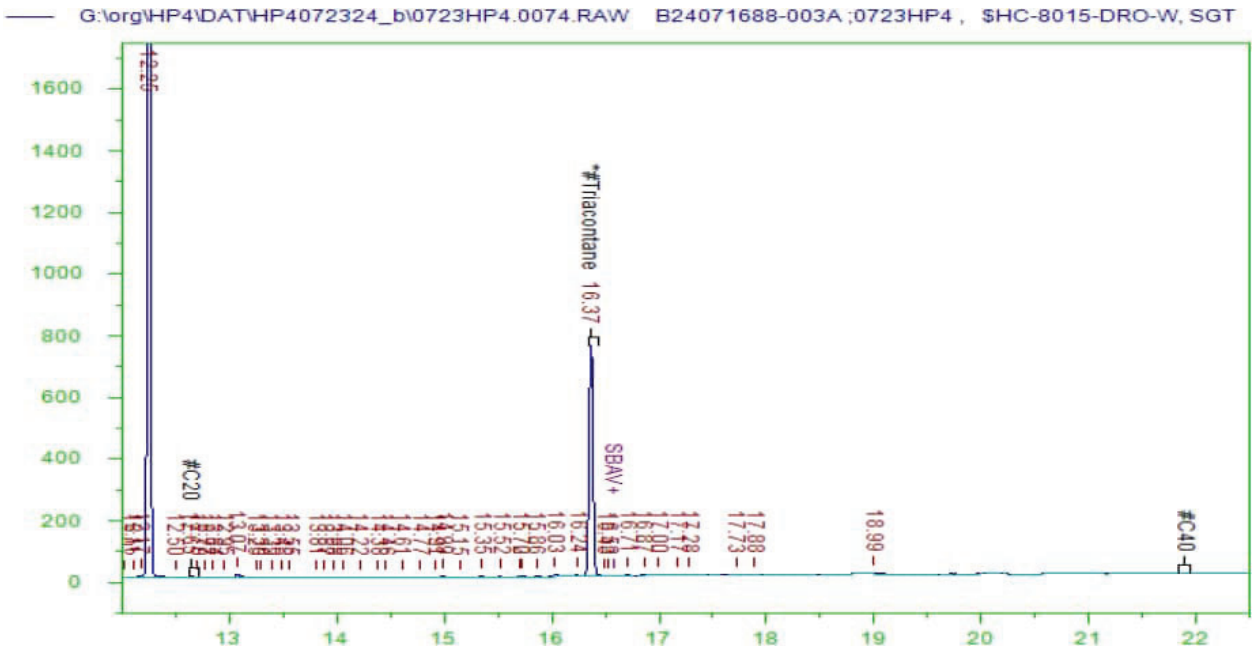
Results (ug/L): **TPH-d (C10 to C24) <141 U** **TPH-o (C24 to C40) 151.1 J**





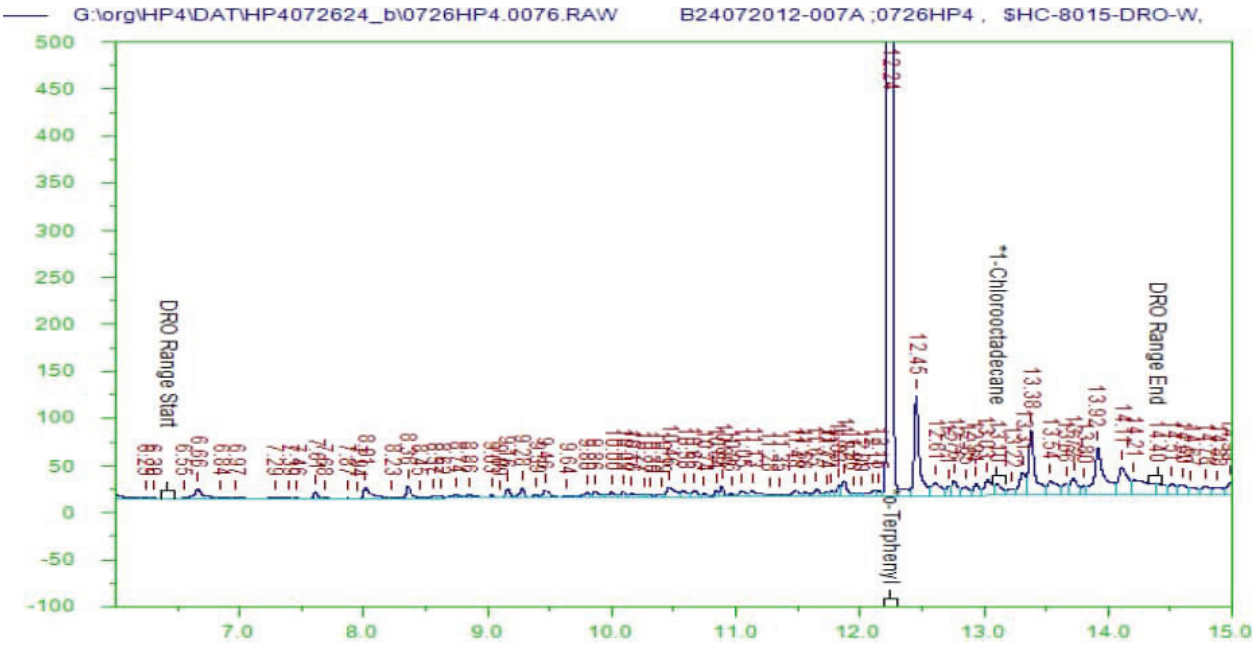
Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**

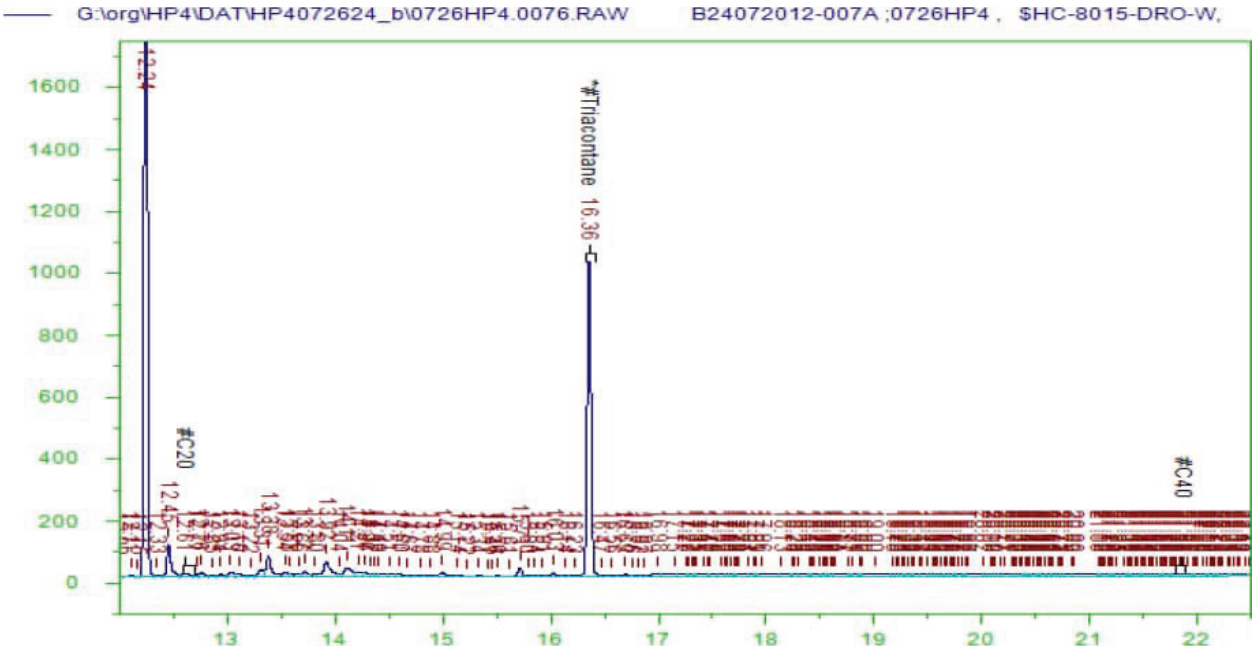




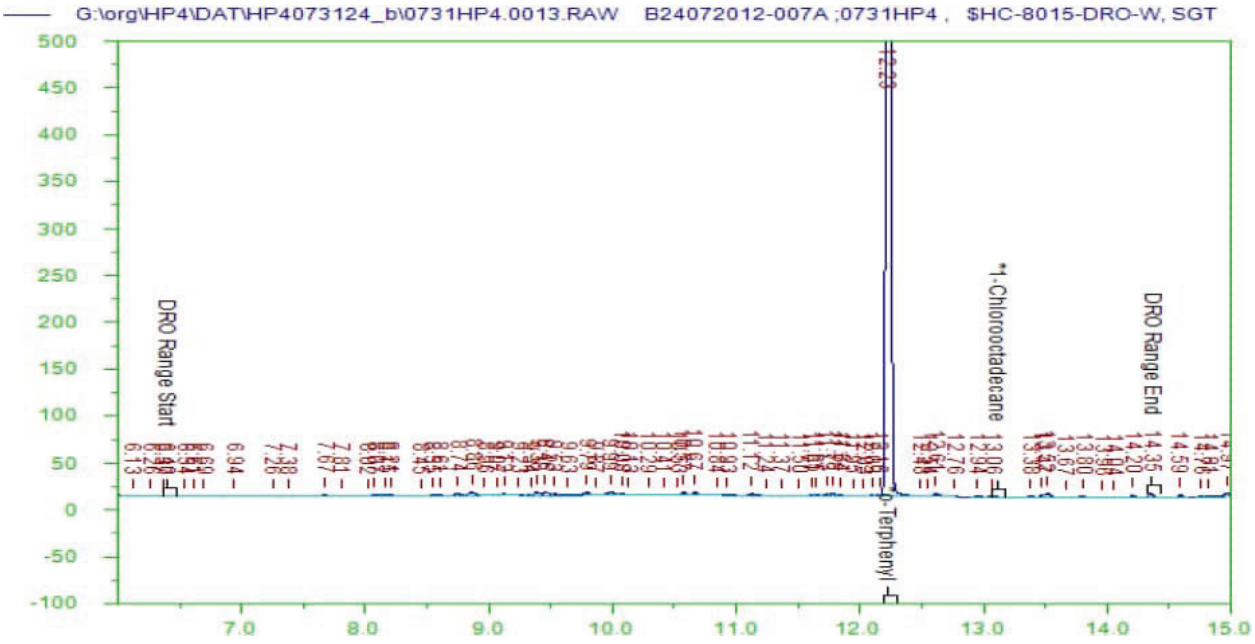
Location: **RHP04B** Sample ID: RHP04B-WGN01LF-2407B Sample Date: 7/23/2024
Lab: (b) (4)

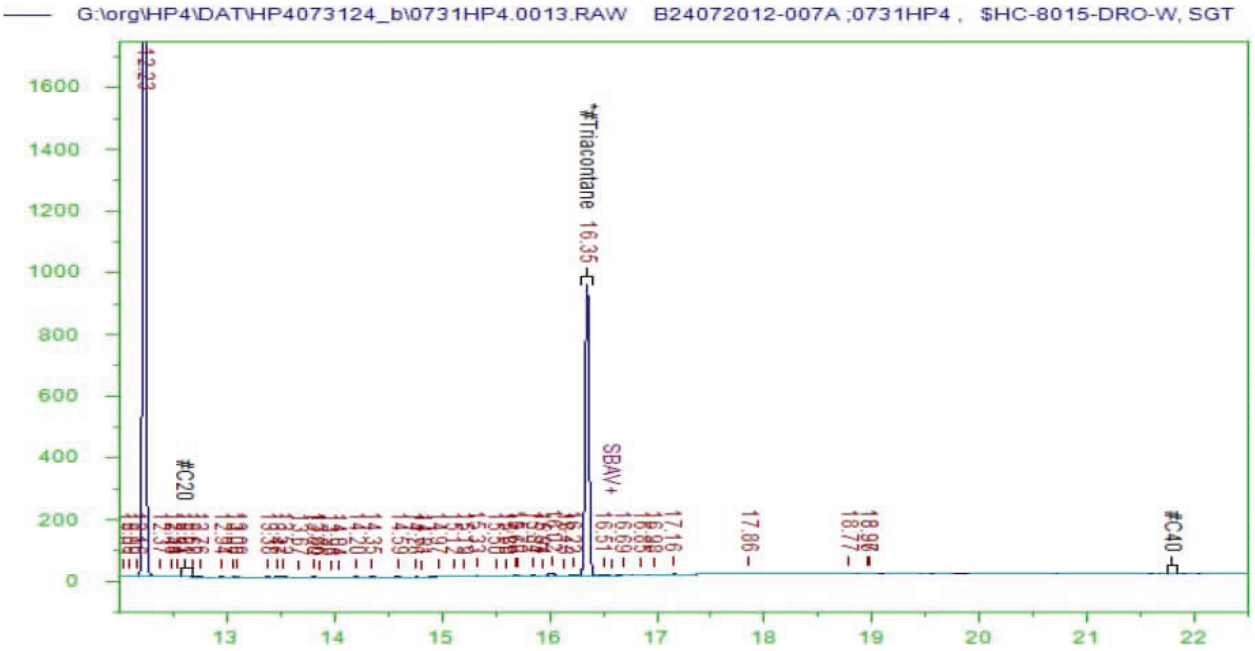
Results (ug/L): **TPH-d (C10 to C24) 83.07 J** **TPH-o (C24 to C40) 152.3 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <143 U** **TPH-o SGC (C24 to C40) <190 U**





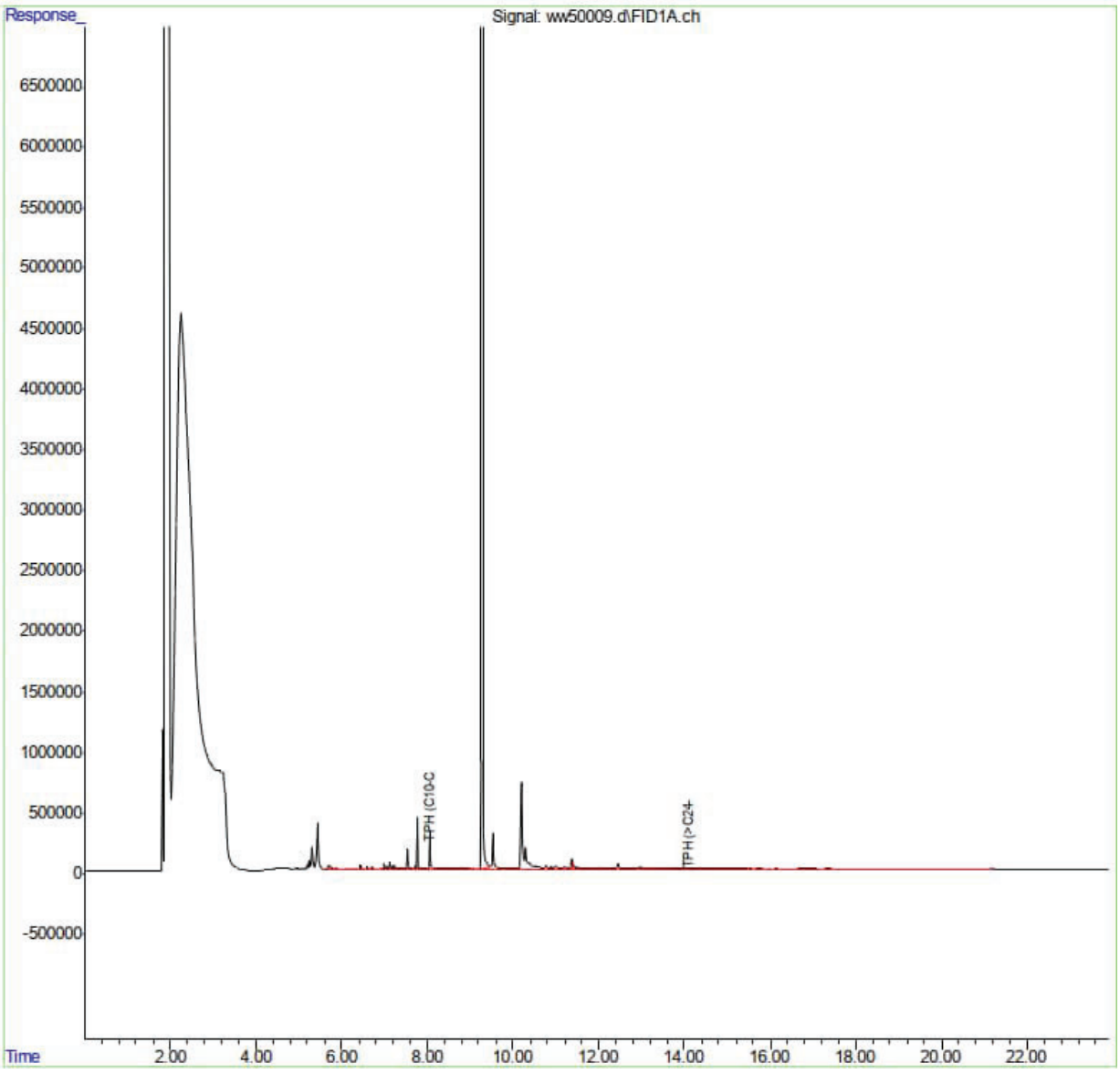
Location: **RHP08** Sample ID: RHP08-WGFD01LF-2408A Sample Date: 8/6/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 101 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Aug 13 09:37:30 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

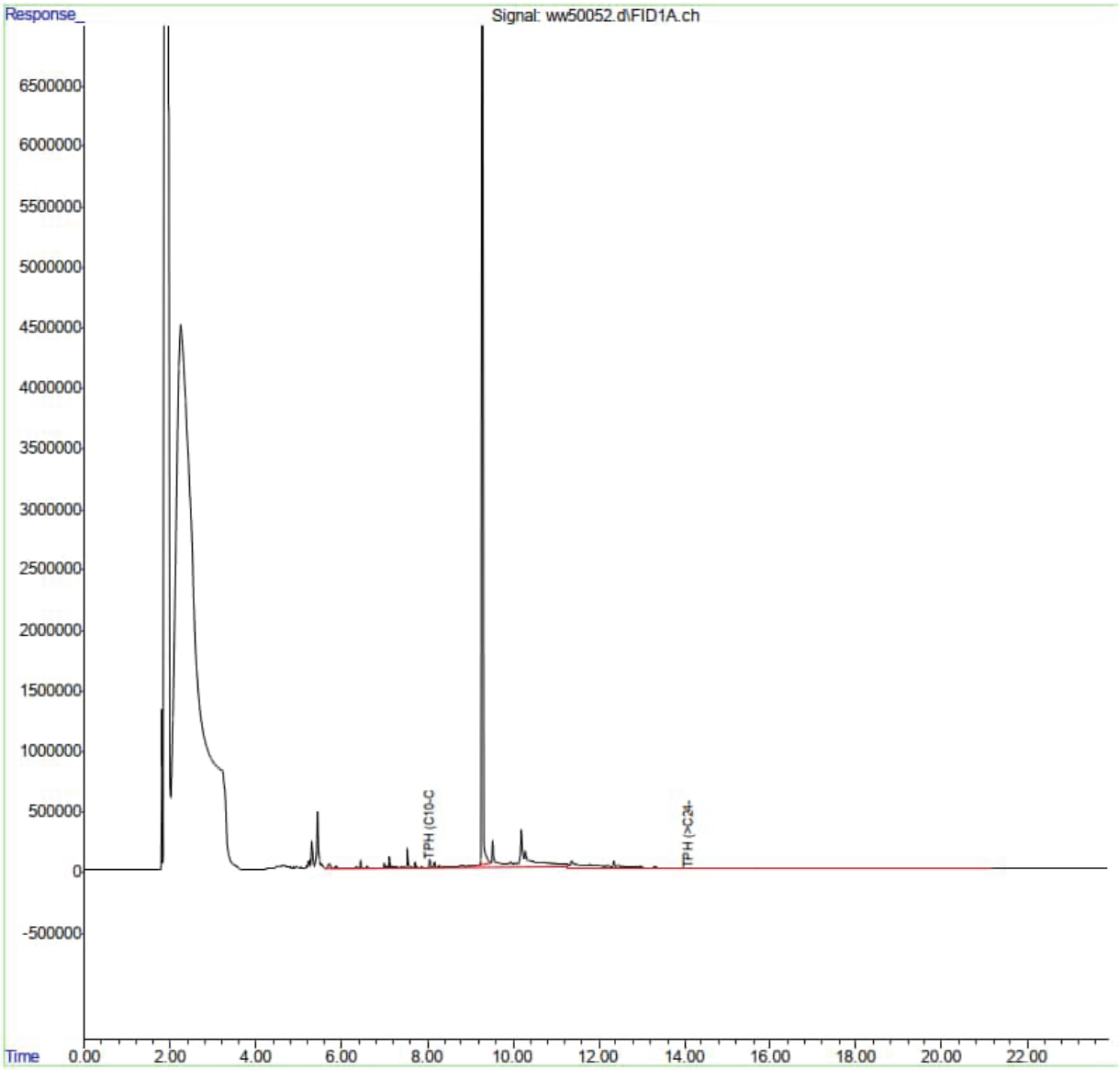
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Aug 14 09:33:27 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
```



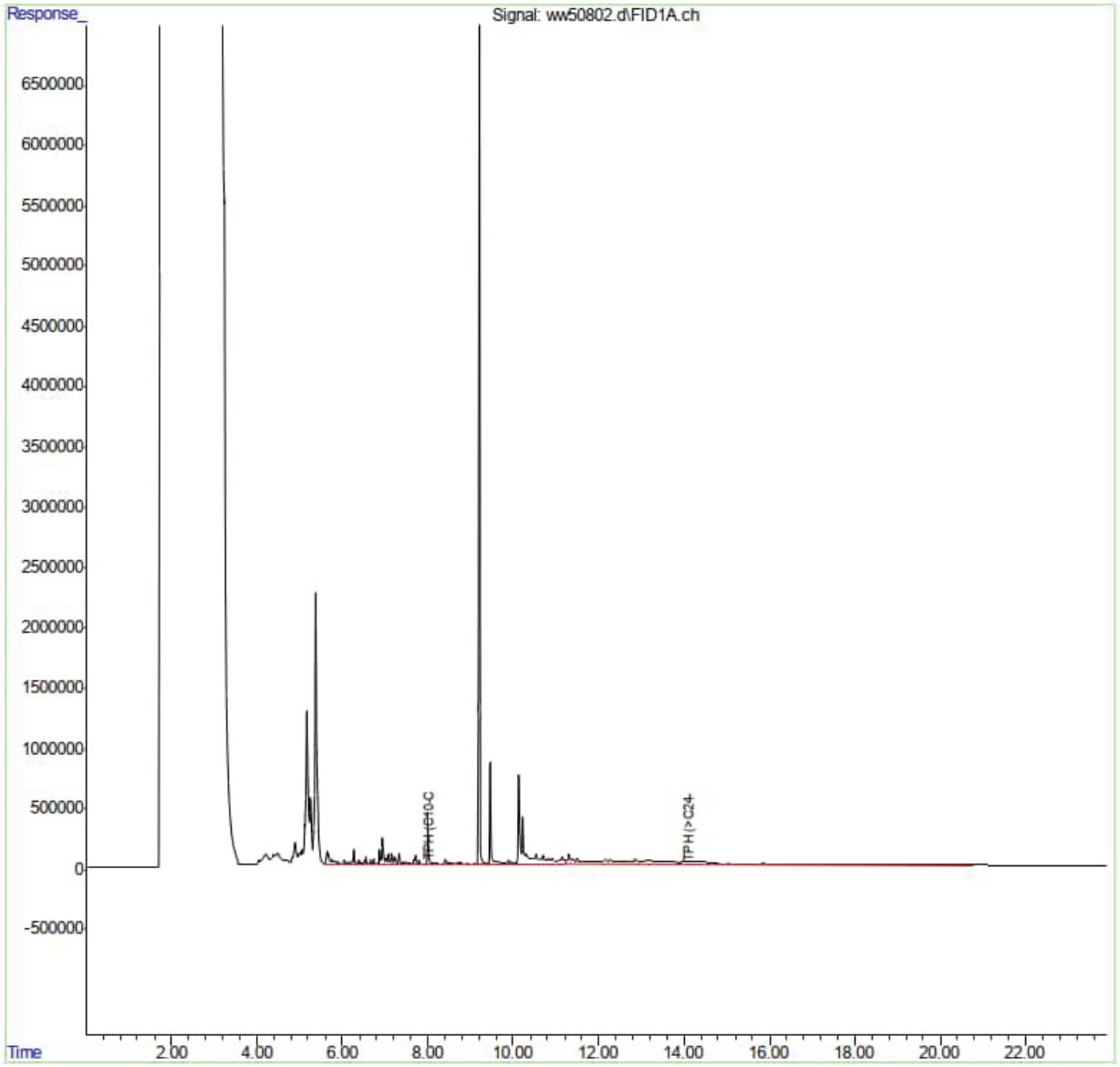
Location: **RHP08** Sample ID: RHP08-WGN01LF-2409A Sample Date: 9/9/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 135 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Sep 13 09:50:12 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

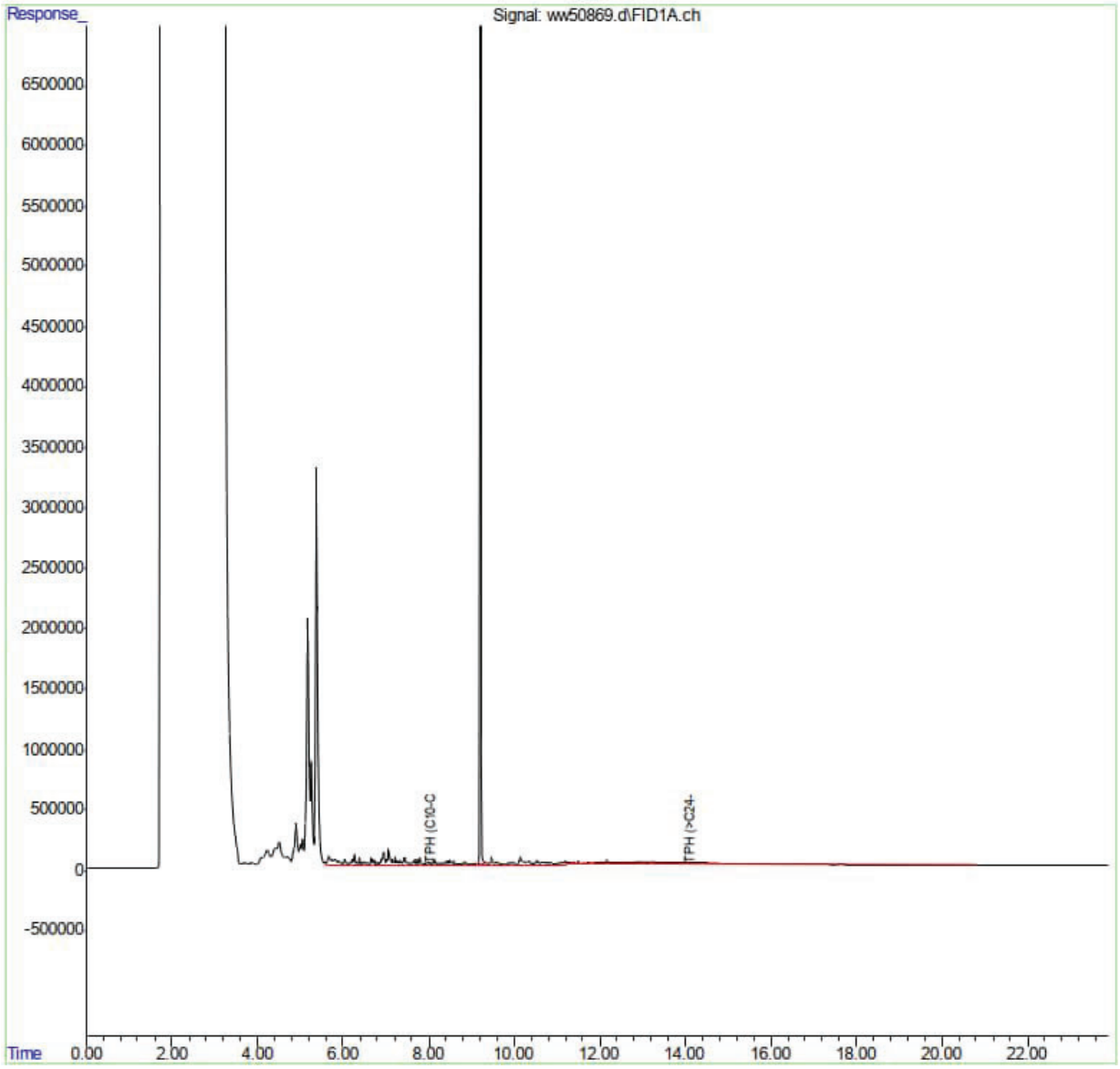
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 96.7 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 16 16:54:08 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
```



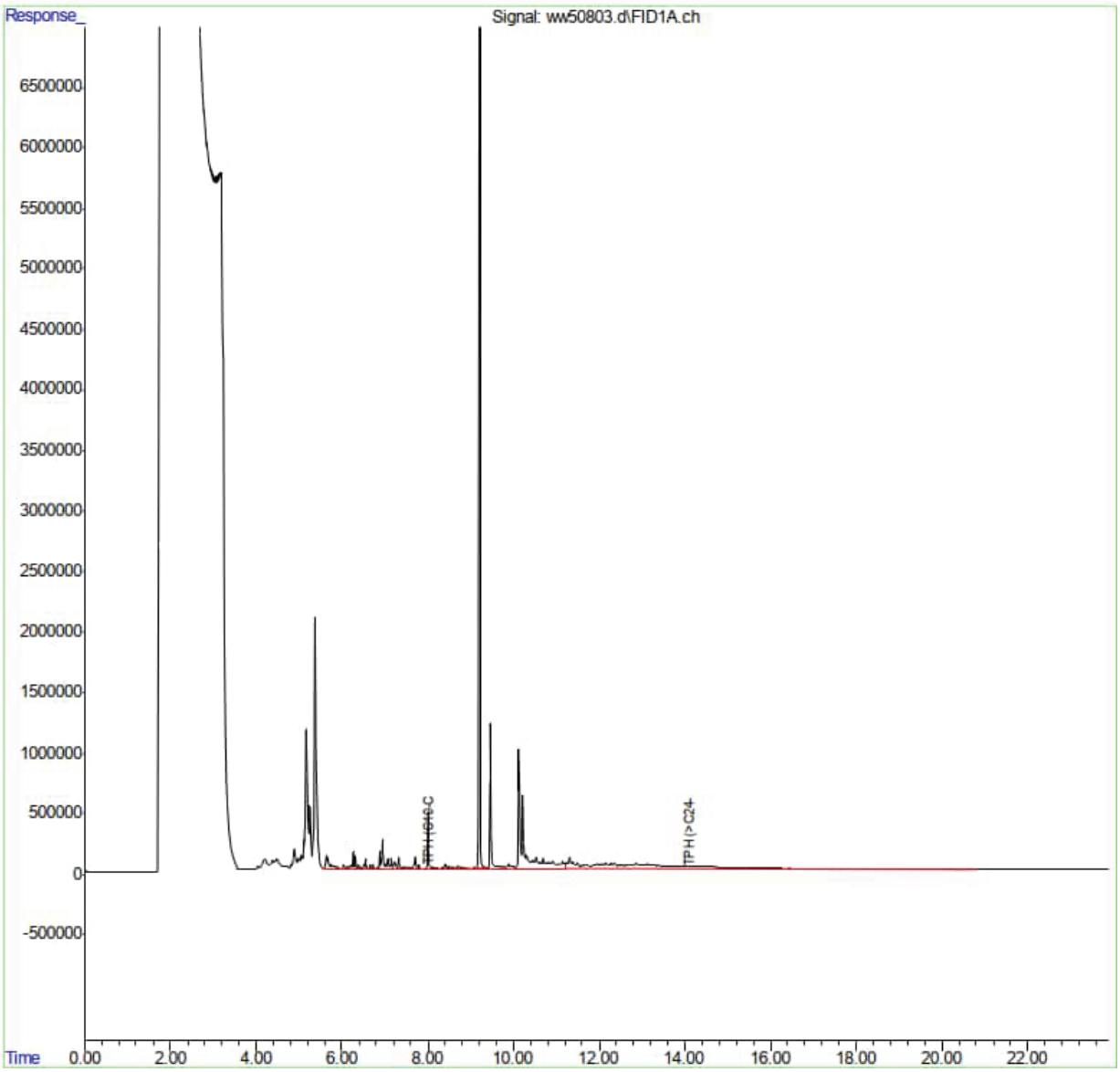
Location: **RHP08** Sample ID: RHP08-WGFD01LF-2409A Sample Date: 9/9/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 164 J** **TPH-o (C24 to C40) 85.6 J**

```
Quant Time: Sep 13 09:50:14 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

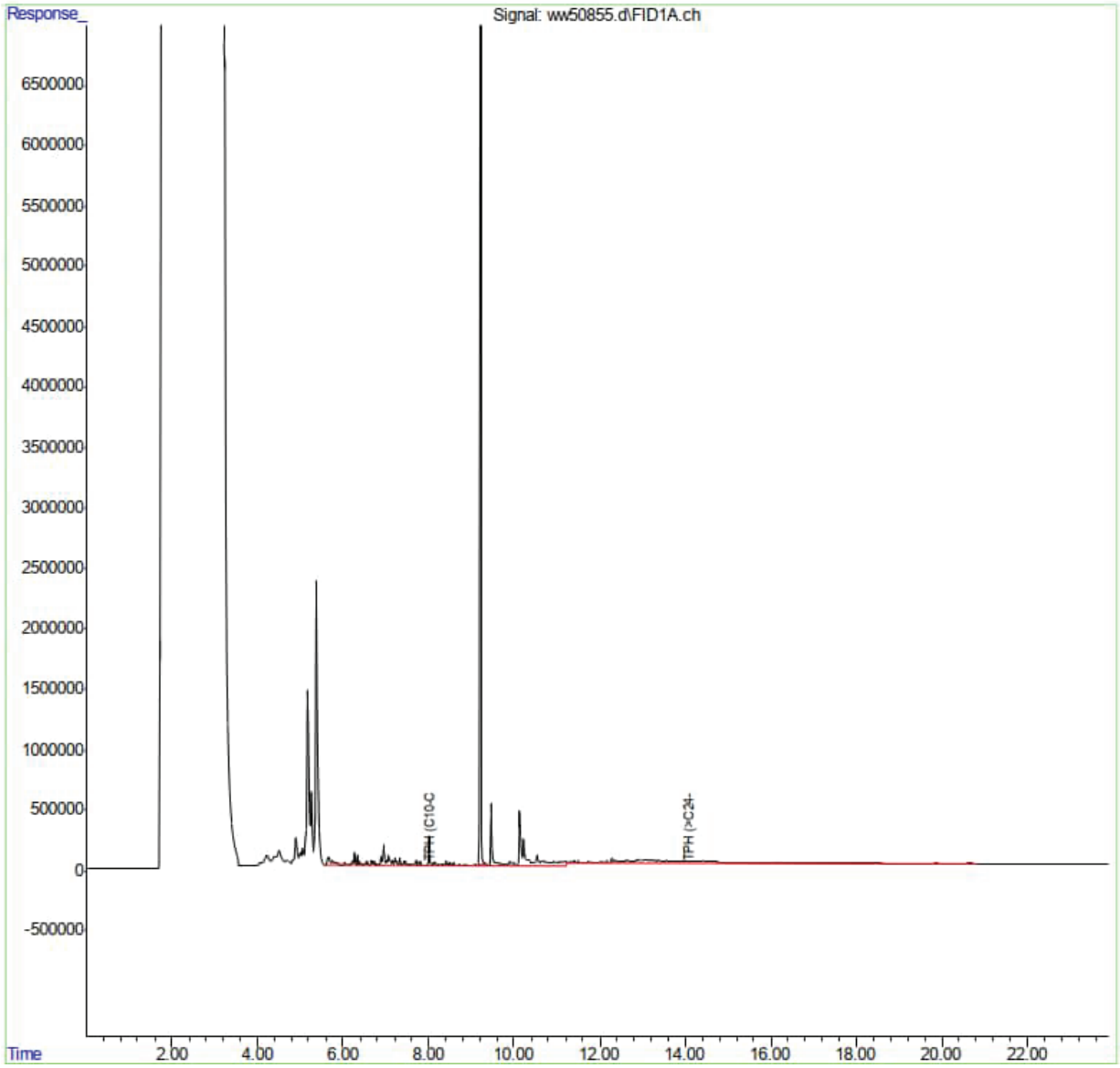
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) 103 J** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Sep 16 10:28:31 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

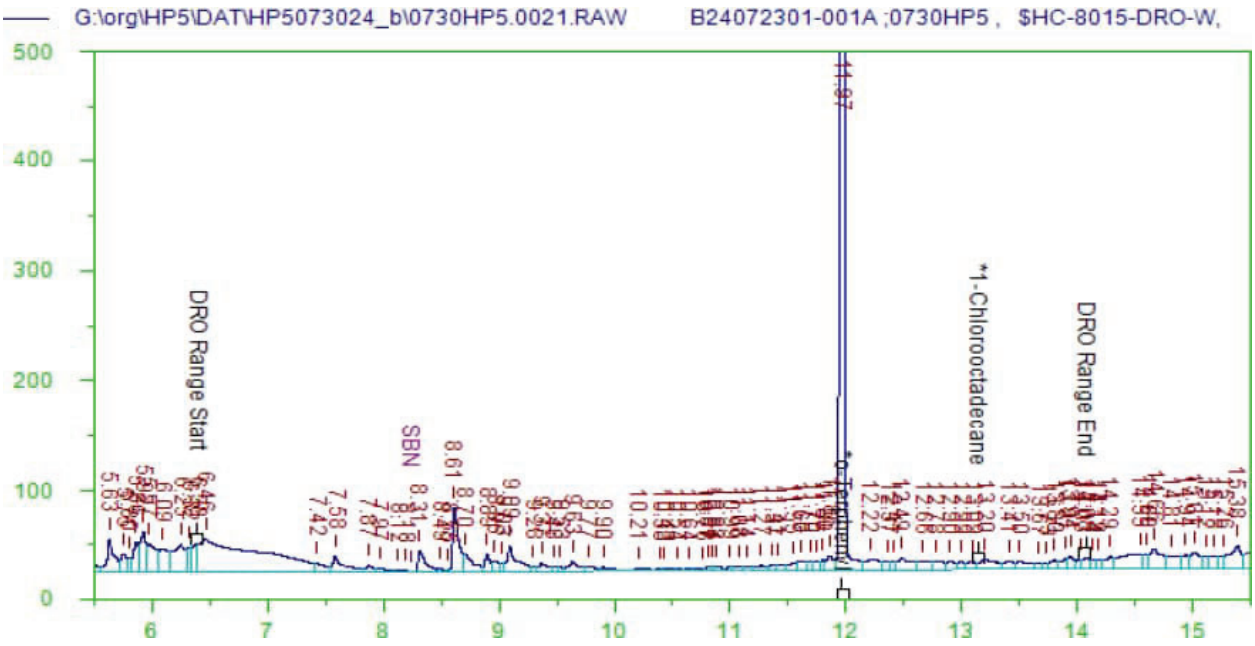
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

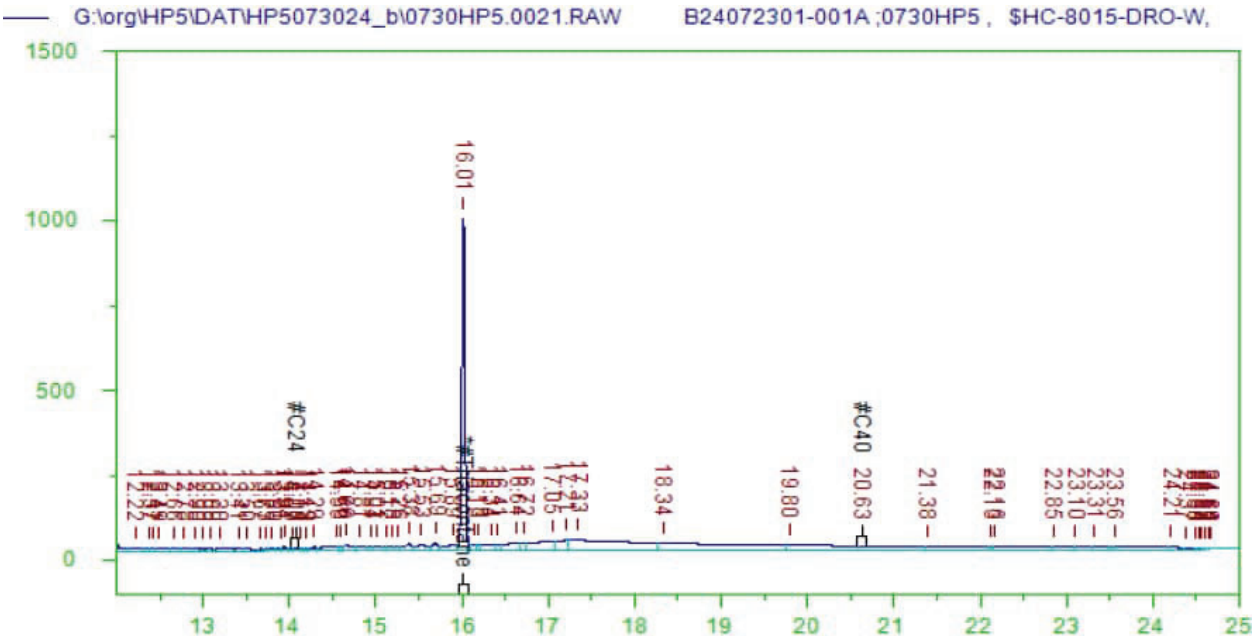


Location: **NMW24** Sample ID: NMW24-WGN01LF-2407B Sample Date: 7/26/2024

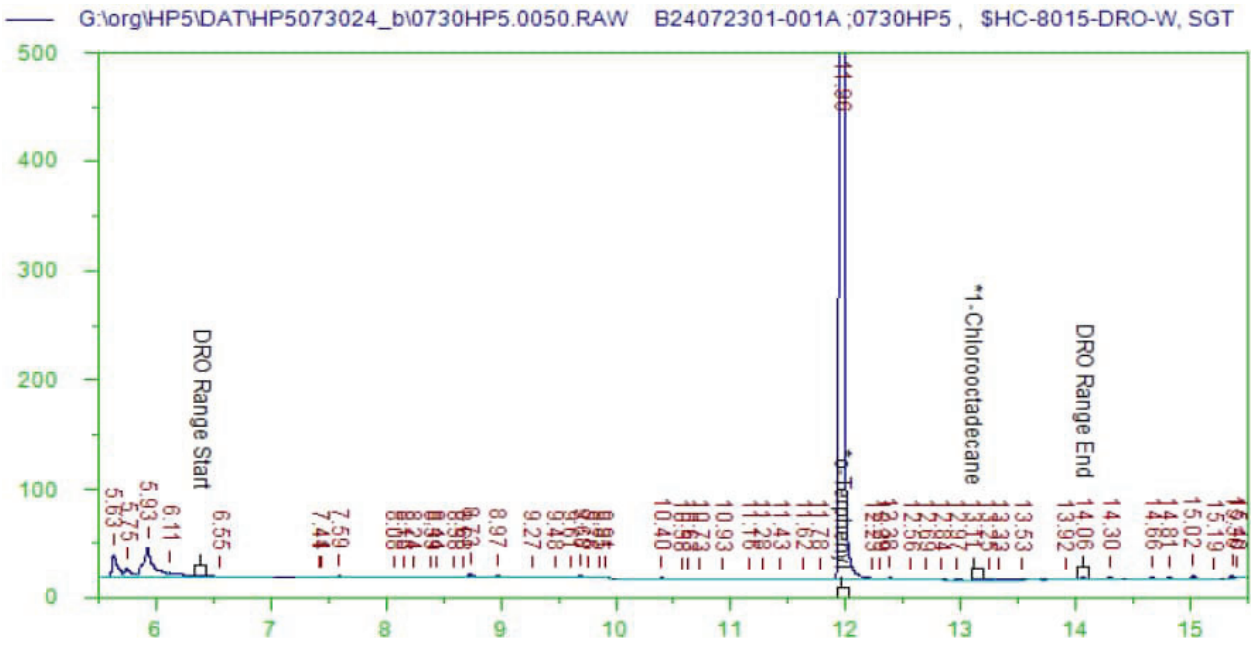
Lab: (b) (4)

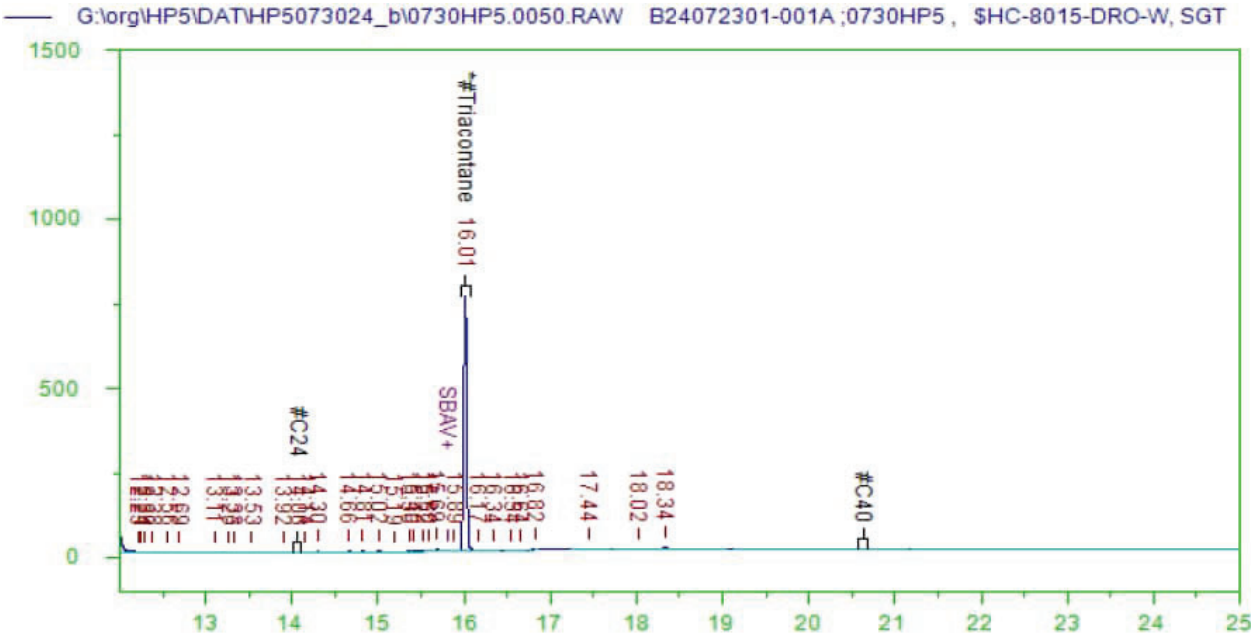
Results (ug/L): **TPH-d (C10 to C24) 120.1 J** **TPH-o (C24 to C40) 306.2**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**





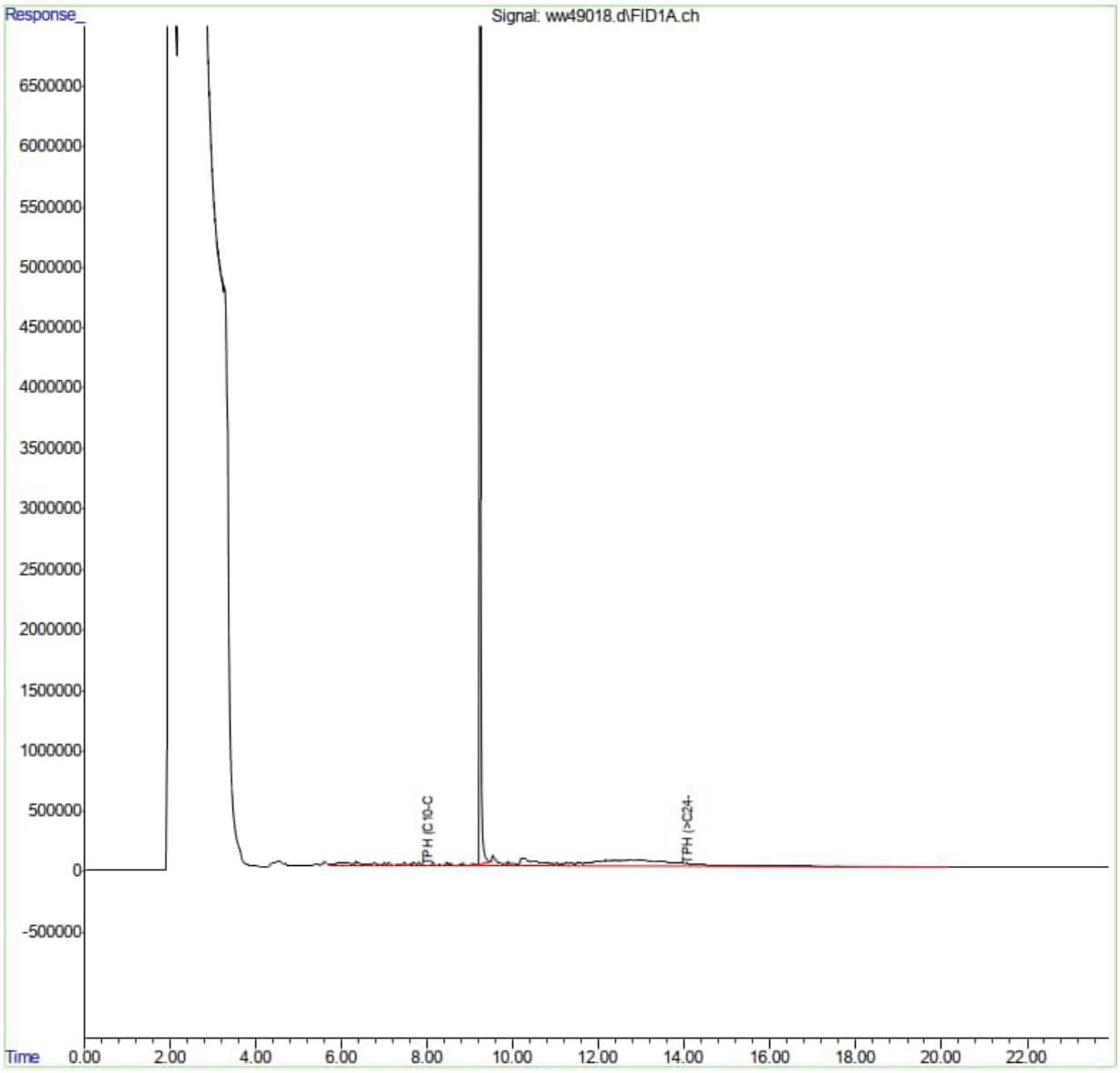
Location: **NMW26** Sample ID: NMW26-WGN01LF-2406B Sample Date: 6/24/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) <100 U** **TPH-o (C24 to C40) 86.3 J**

```
Quant Time: Jul 01 10:23:15 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

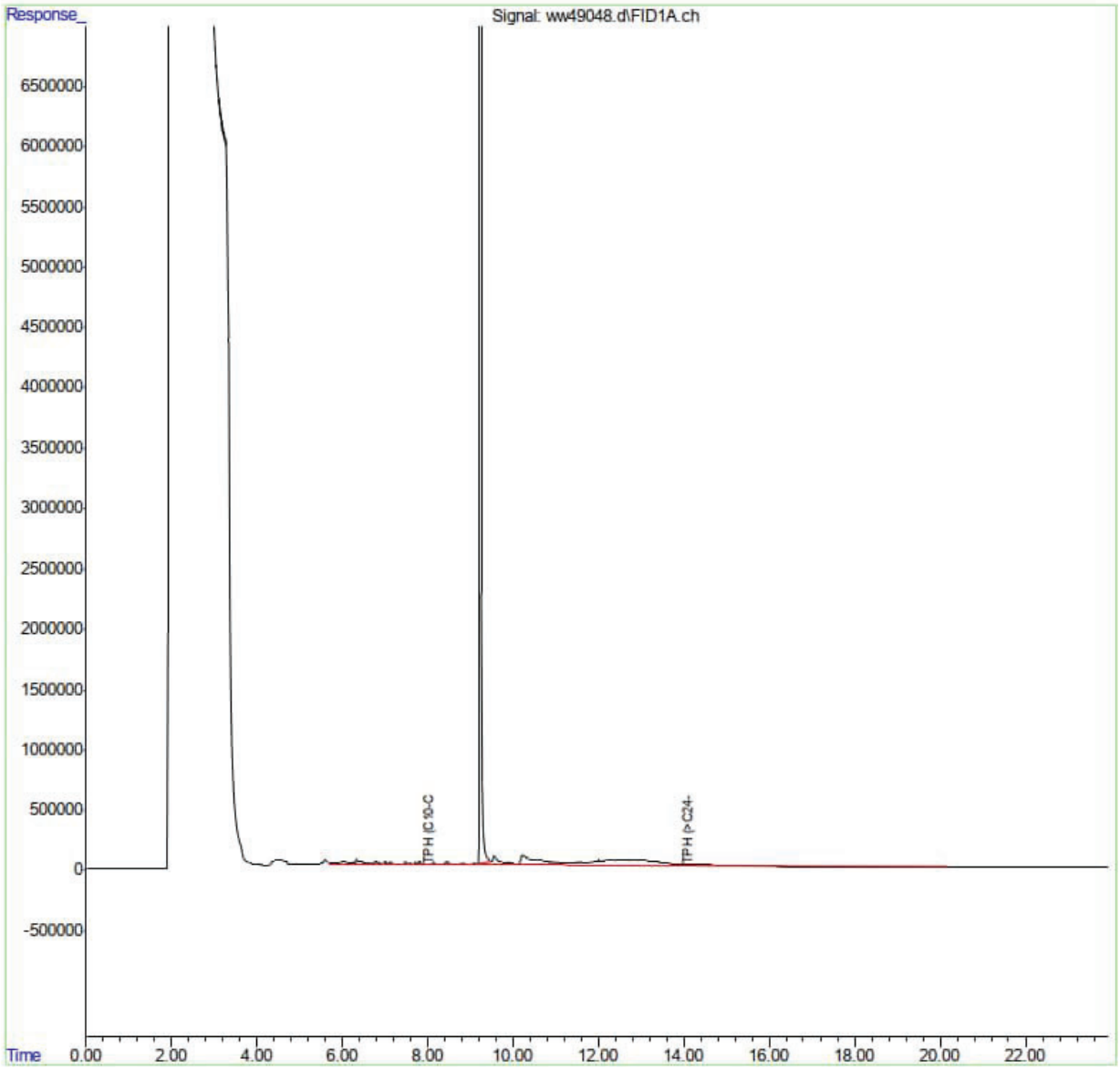
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 02 09:12:10 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



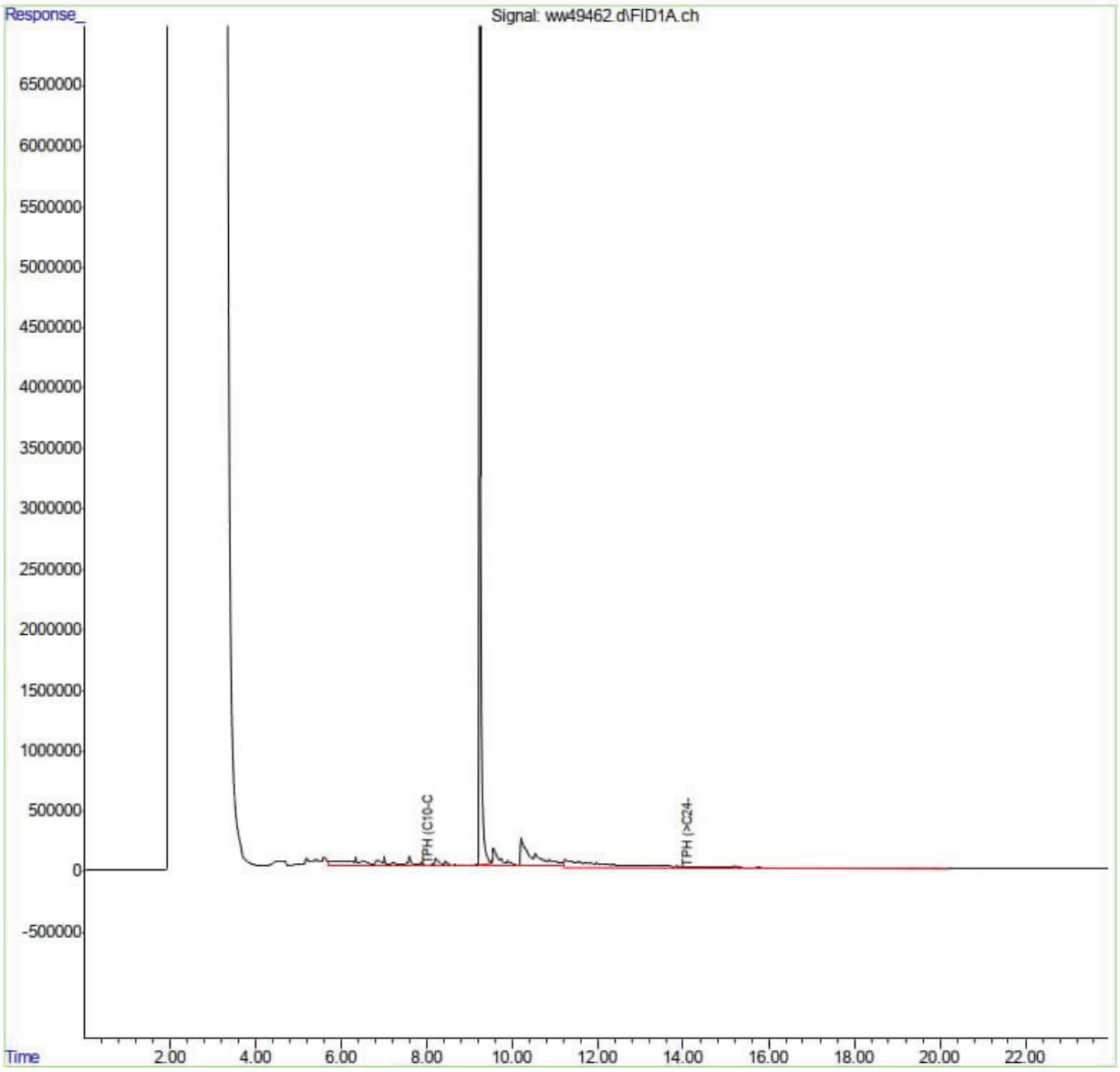
Location: **NMW32** Sample ID: NMW32-WGN01LF-2407A Sample Date: 7/11/2024

Lab: (b) (4)

Results (ug/L): **TPH-d (C10 to C24) 86.6 J** **TPH-o (C24 to C40) <170 U**

```
Quant Time: Jul 17 10:06:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

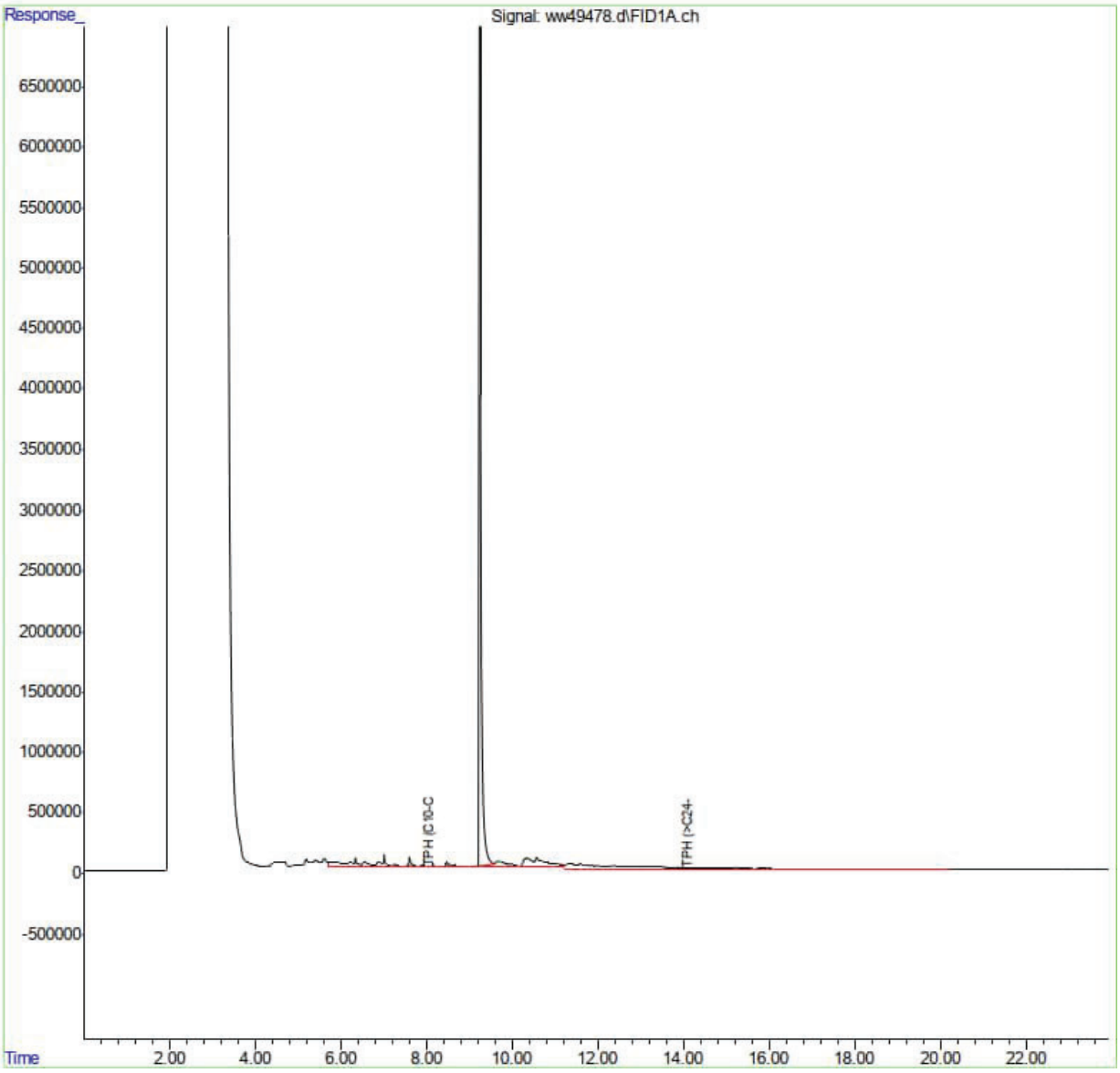
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```



Results (ug/L): **TPH-d SGC (C10 to C24) <100 U** **TPH-o SGC (C24 to C40) <170 U**

```
Quant Time: Jul 18 10:03:18 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

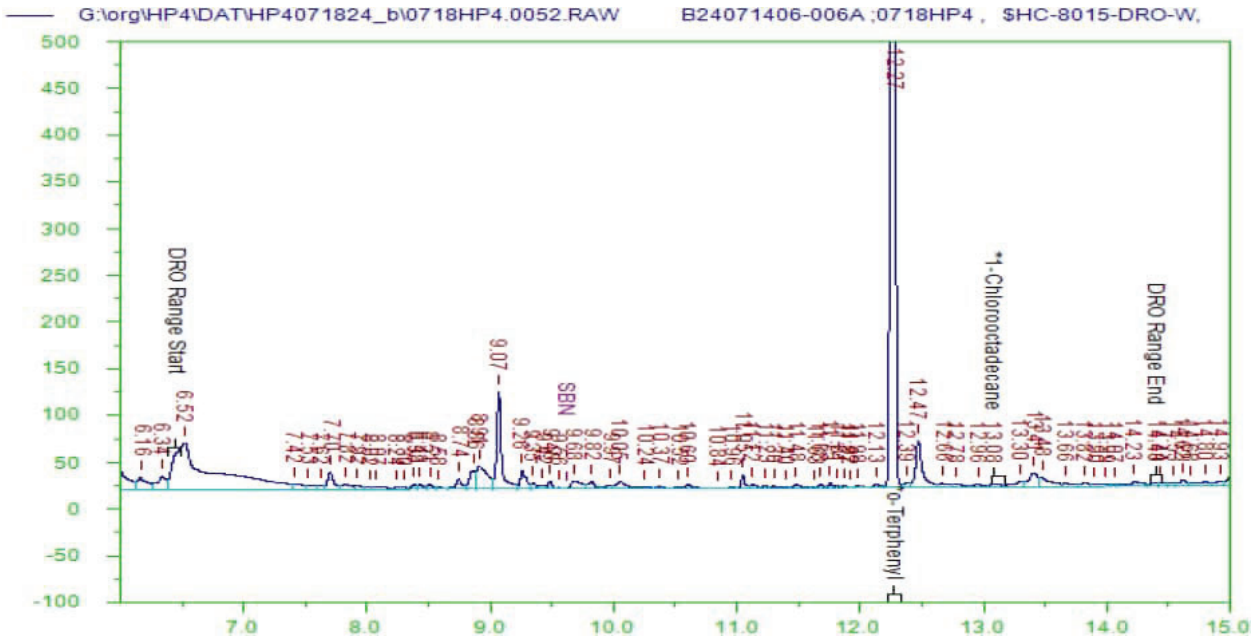
Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

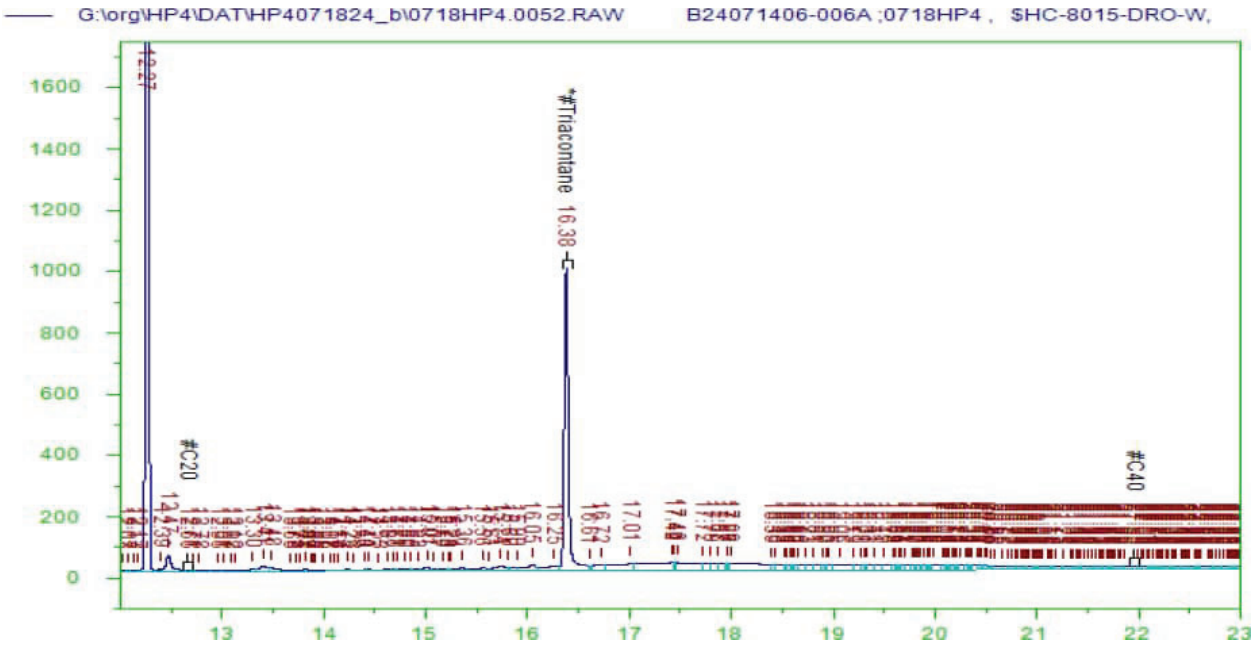


Location: **RHSF-PUMP** Sample ID: RHSF-PUMP-WGN01G-2407B Sample Date: 7/16/2024

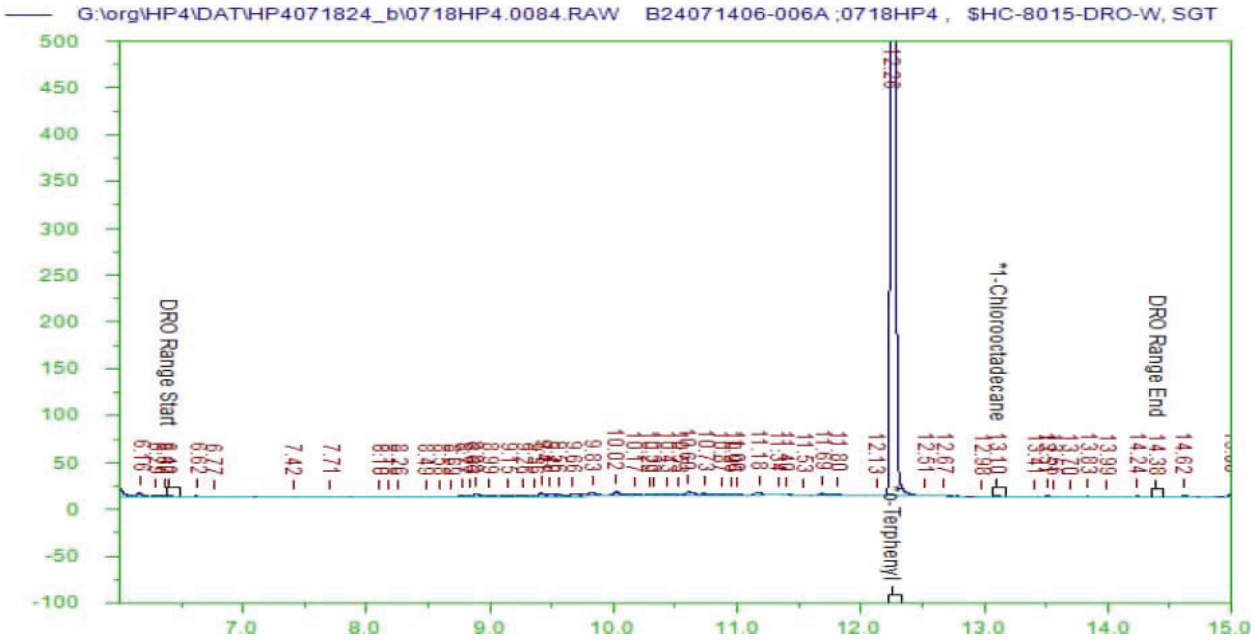
Lab: (b) (4)

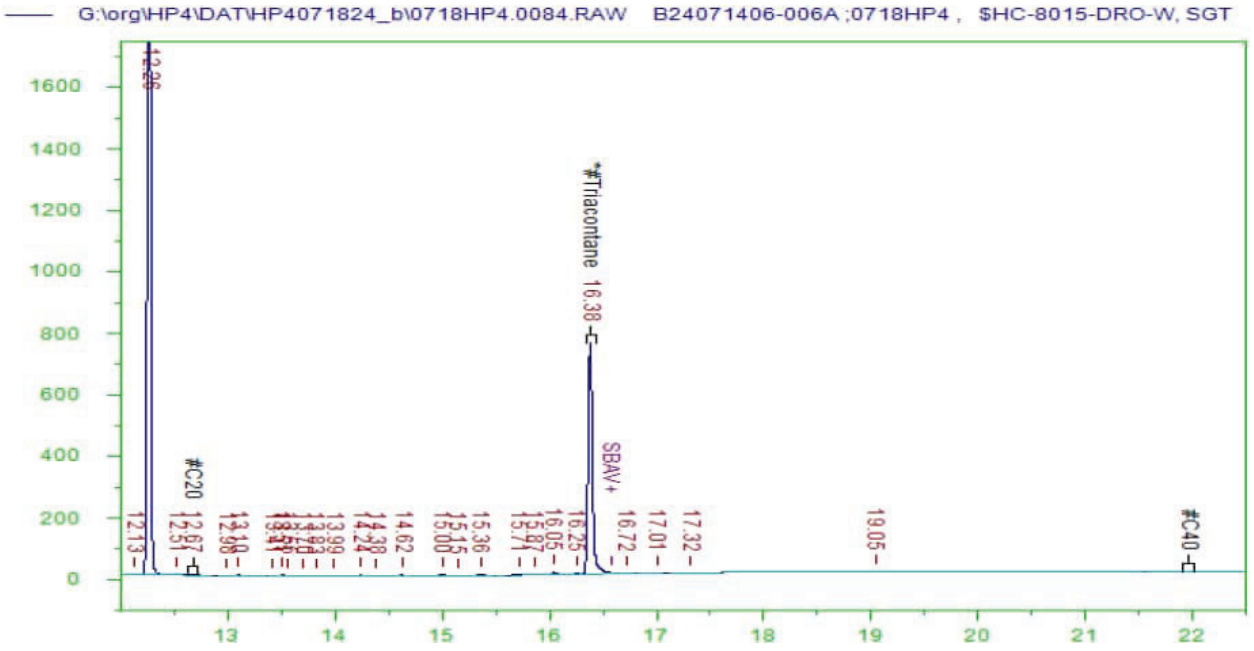
Results (ug/L): **TPH-d (C10 to C24) 91.19 J** **TPH-o (C24 to C40) 237.6 J**





Results (ug/L): **TPH-d SGC (C10 to C24) <141 U** **TPH-o SGC (C24 to C40) <189 U**



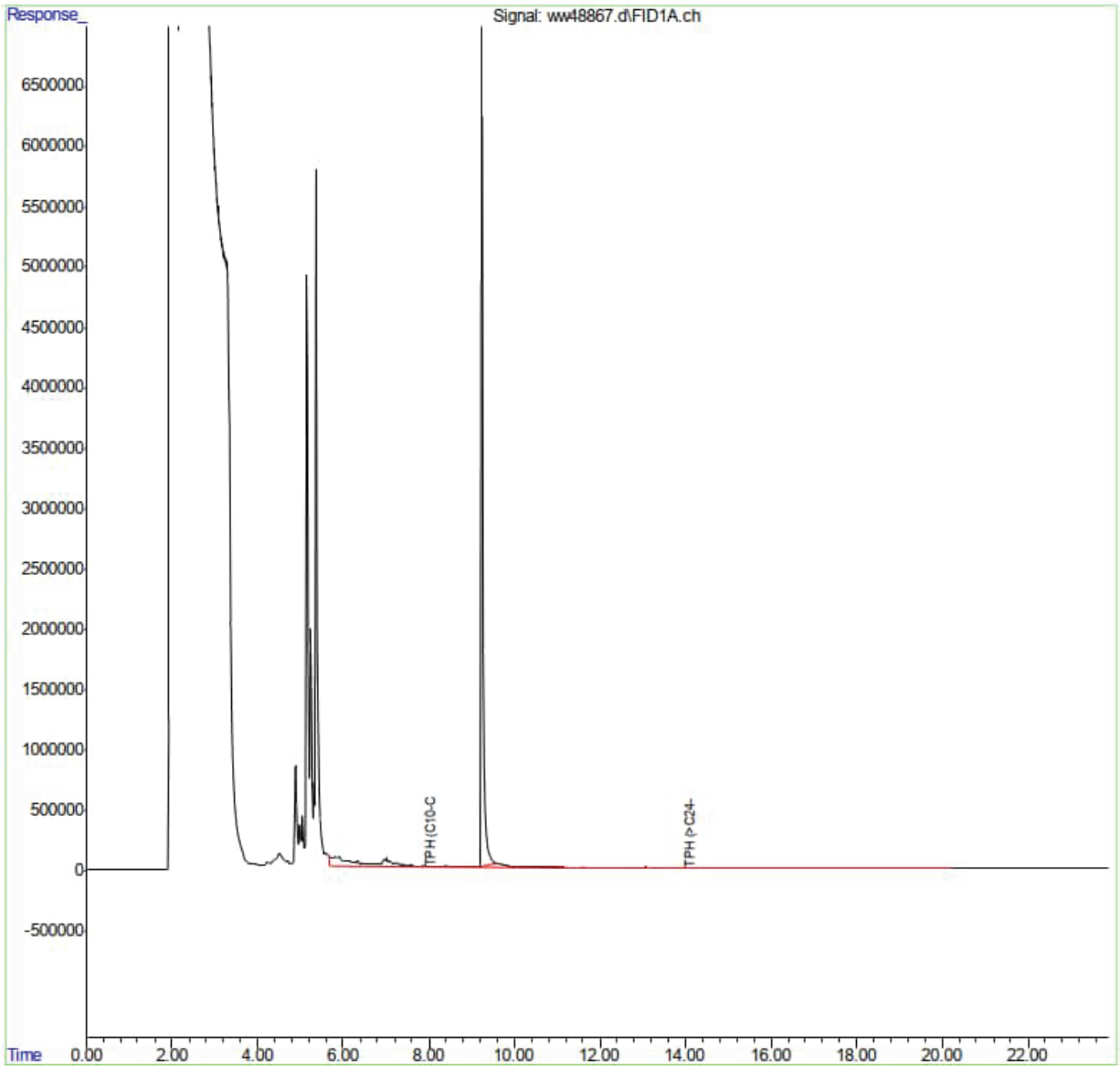


Method Blank Associated with SDG FC16545

Sample ID: RHMW01R-WGFD01LF-2406B, RHMW01R-WGN01LF-2406B, RHMW02-WGFD01LF-2406B, RHMW02-WGN01LF-2406B
Sample Date: 6/17/2024
Lab: (b) (4)

```
Quant Time: Jun 25 09:48:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

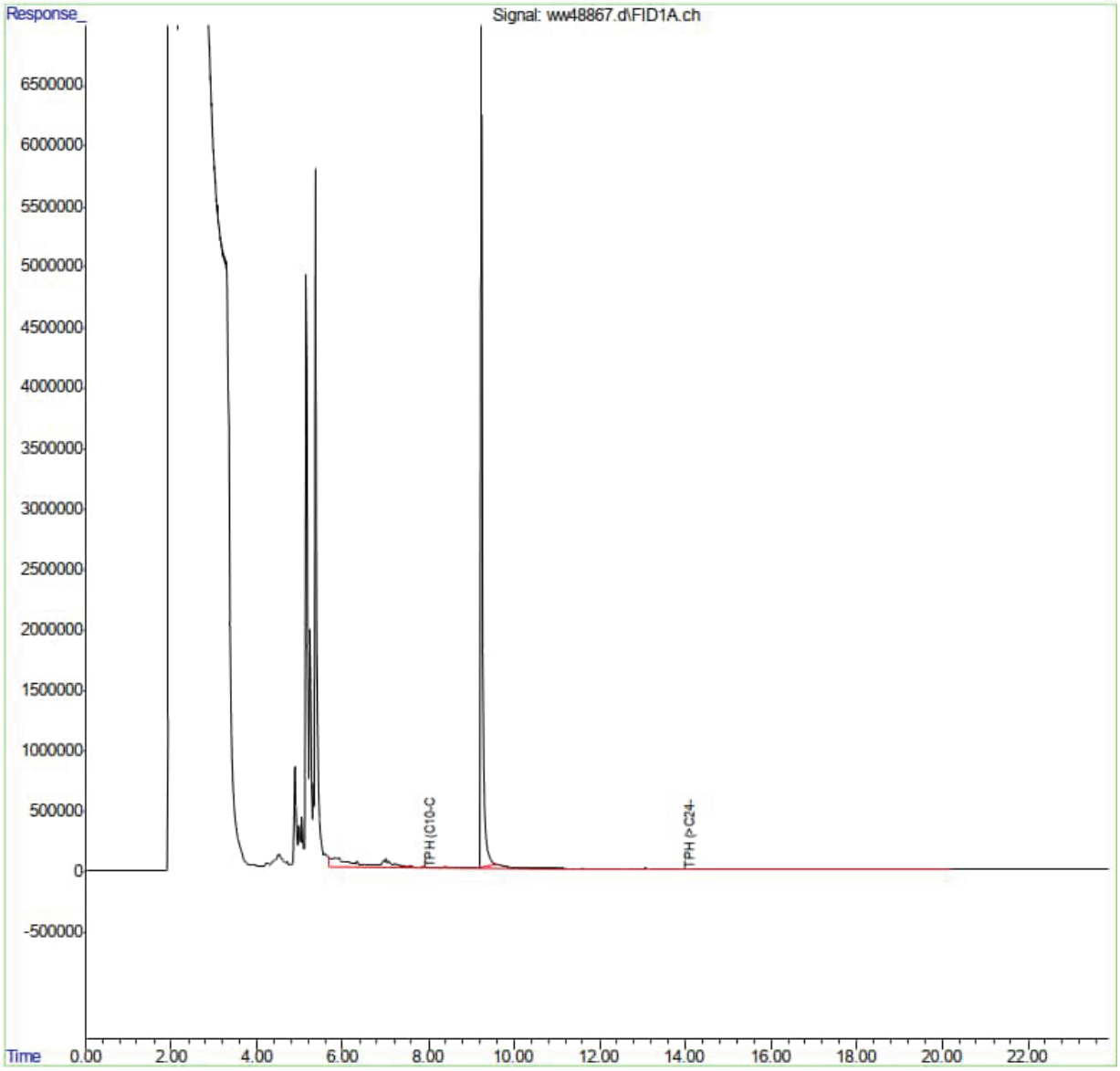


Method Blank Associated with SDG FC16624

Sample ID: RHMW03-WGN01LF-2406B
Sample Date: 6/19/2024
Lab: (b) (4)

```
Quant Time: Jun 25 09:48:01 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

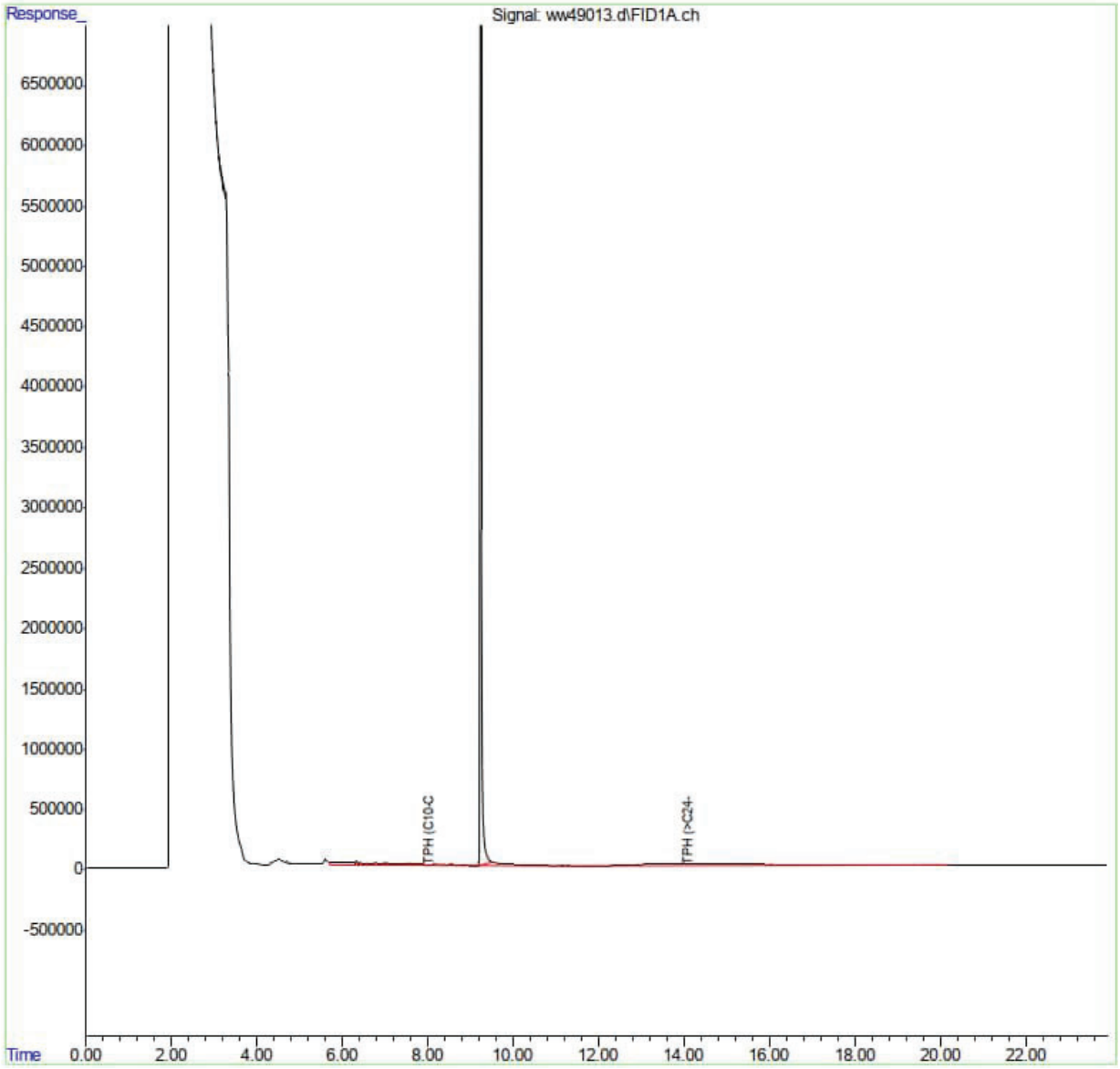


Method Blank Associated with SDG FC16725

Sample ID: NMW26-WGN01LF-2406B, RHMW17-WGFD01LF-2406B, RHMW17-WGN01LF-2406B
Sample Date: 6/24/2024
Lab: (b) (4)

```
Quant Time: Jul 01 10:23:05 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

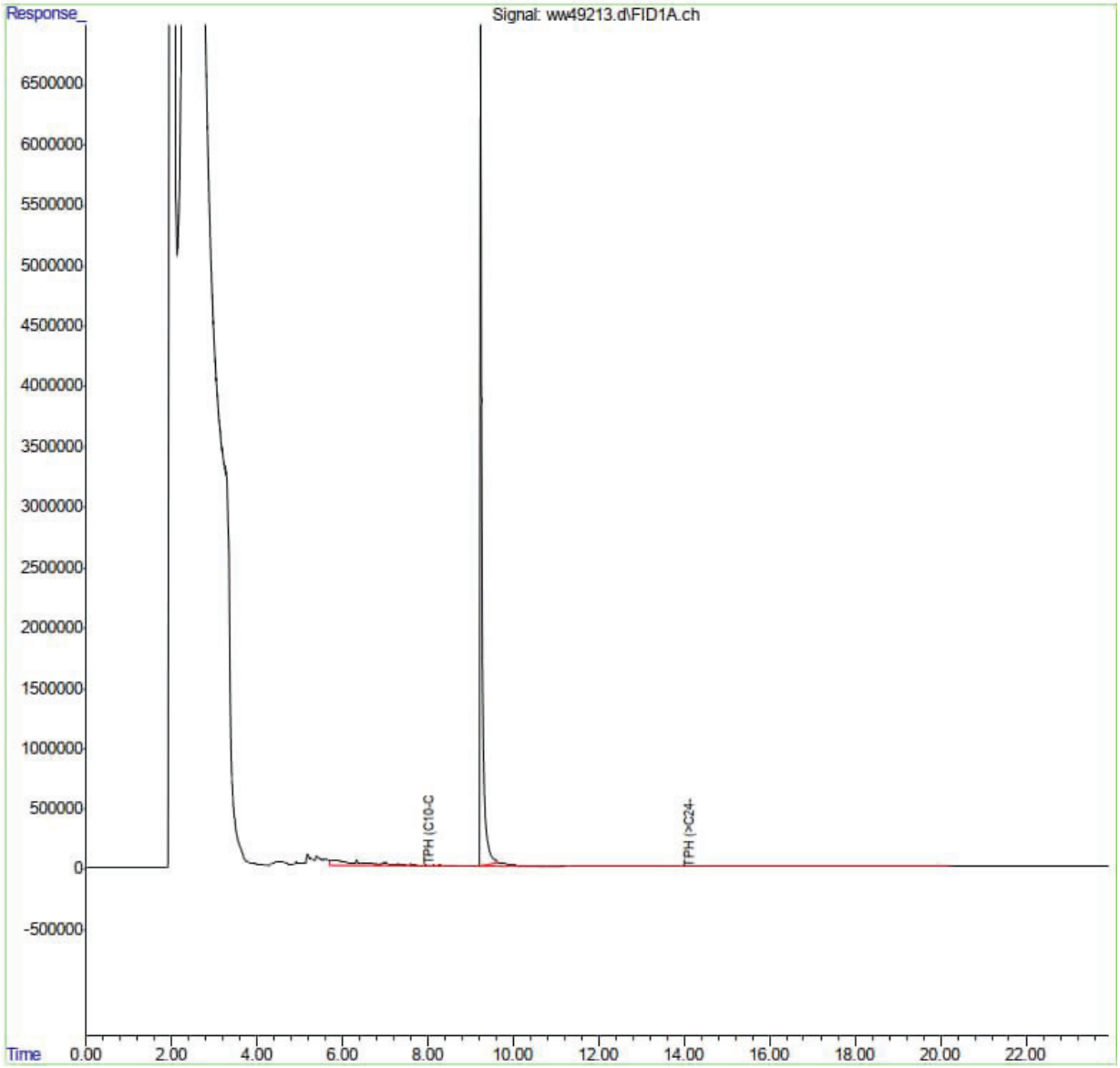


Method Blank Associated with SDG FC16926

Sample ID: RHMW01R-WGFD01LF-2407A, RHMW01R-WGN01LF-2407A, RHMW02-WGFD01LF-2407A, RHMW02-WGN01LF-2407A
Sample Date: 7/1/2024
Lab: [redacted]

```
Quant Time: Jul 08 10:25:09 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

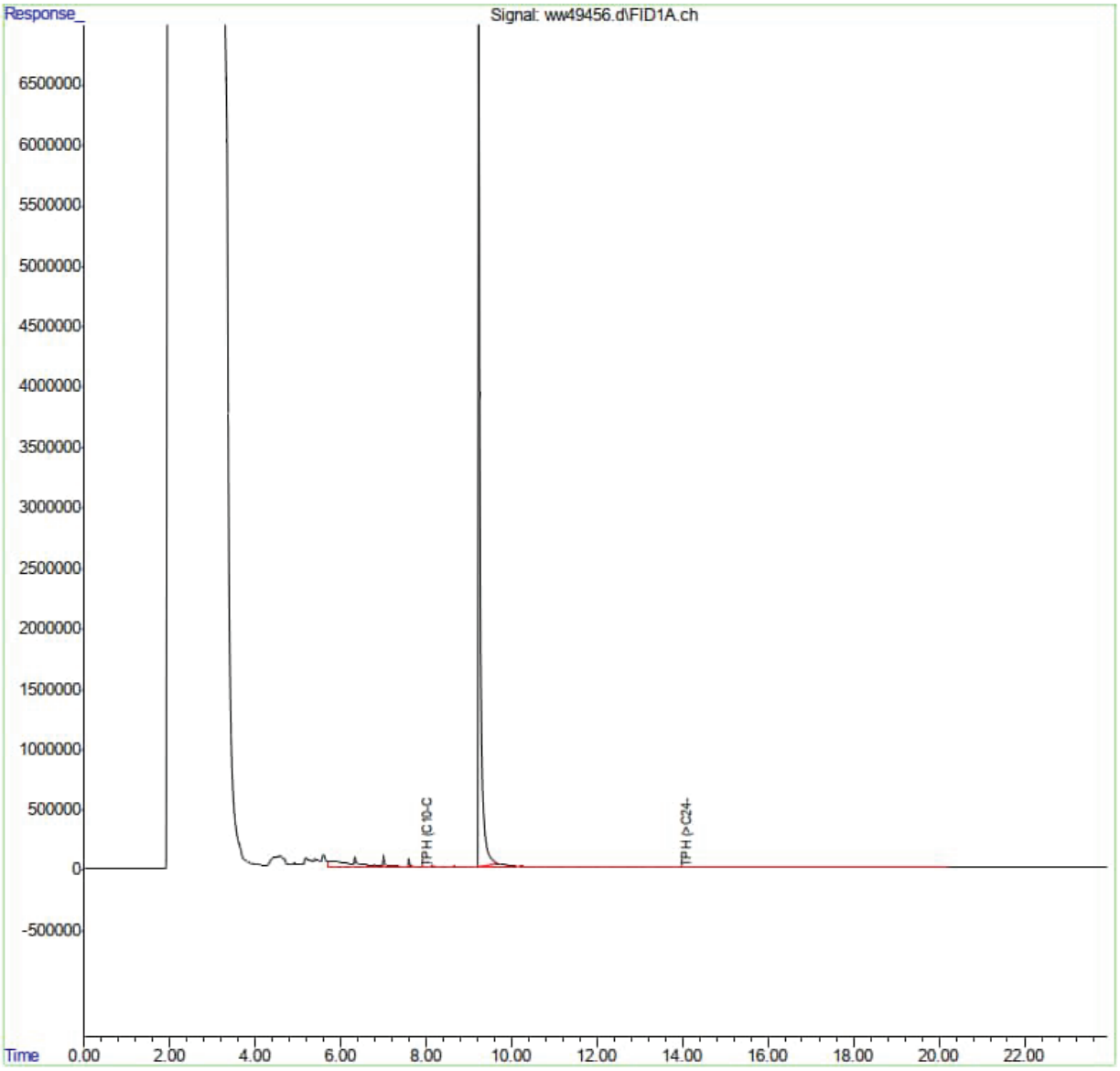


Method Blank Associated with SDG FC17165

Sample ID: NMW32-WGN01LF-2407A
Sample Date: 7/11/2024
Lab: (b) (4)

```
Quant Time: Jul 17 10:06:22 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

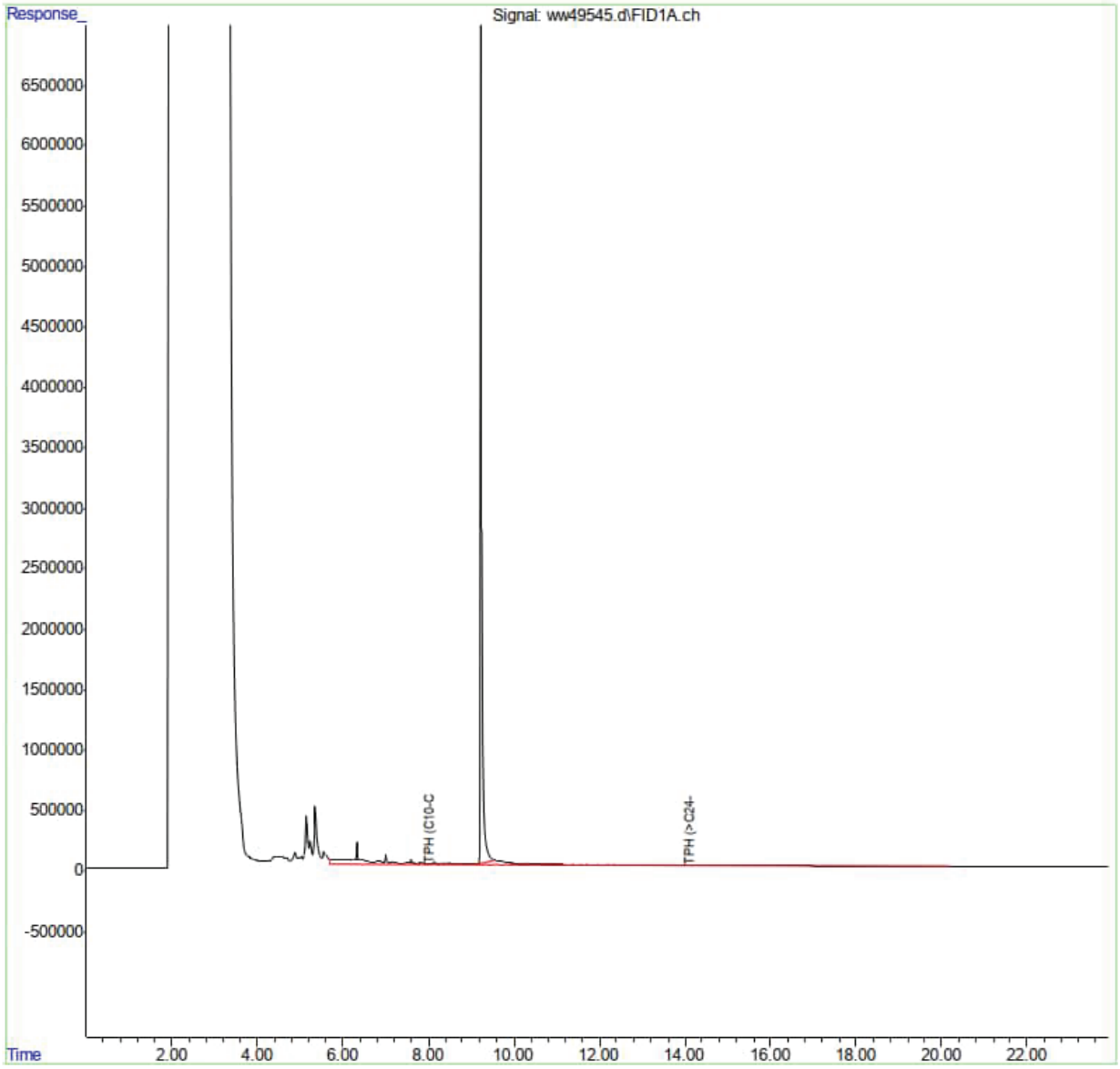


Method Blank Associated with SDG FC17231

Sample ID: RHMW01R-WGN01LF-2407B, RHMW01R-WGFD01LF-2407B, RHMW02-WGN01LF-2407B, RHMW02-WGFD01LF-2407B
Sample Date: 7/15/2024
Lab: (b) (4)

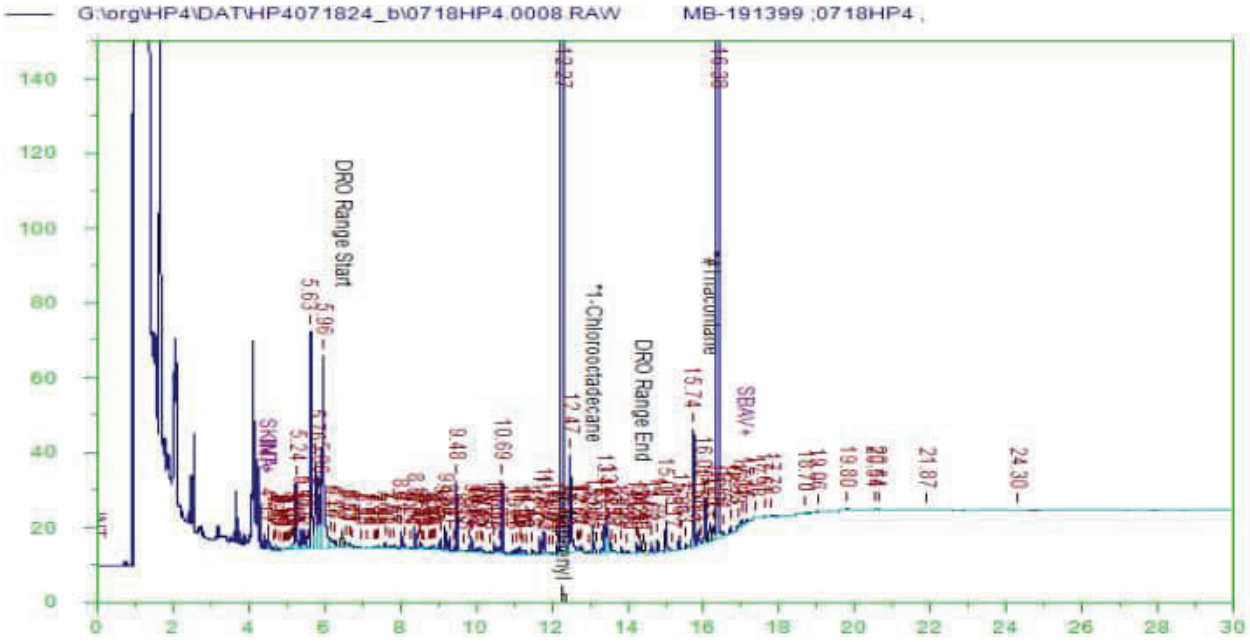
```
Quant Time: Jul 22 09:51:34 2024
Quant Method : C:\msdchem\2\methods\DRO_ORO2_091523_.M
Quant Title  : TPH by SW846 8015C
QLast Update : Fri Sep 15 10:20:15 2023
Response via : Initial Calibration

Volume Inj.  :
Signal Phase : DB-5
Signal Info  : 0.25 mm
```

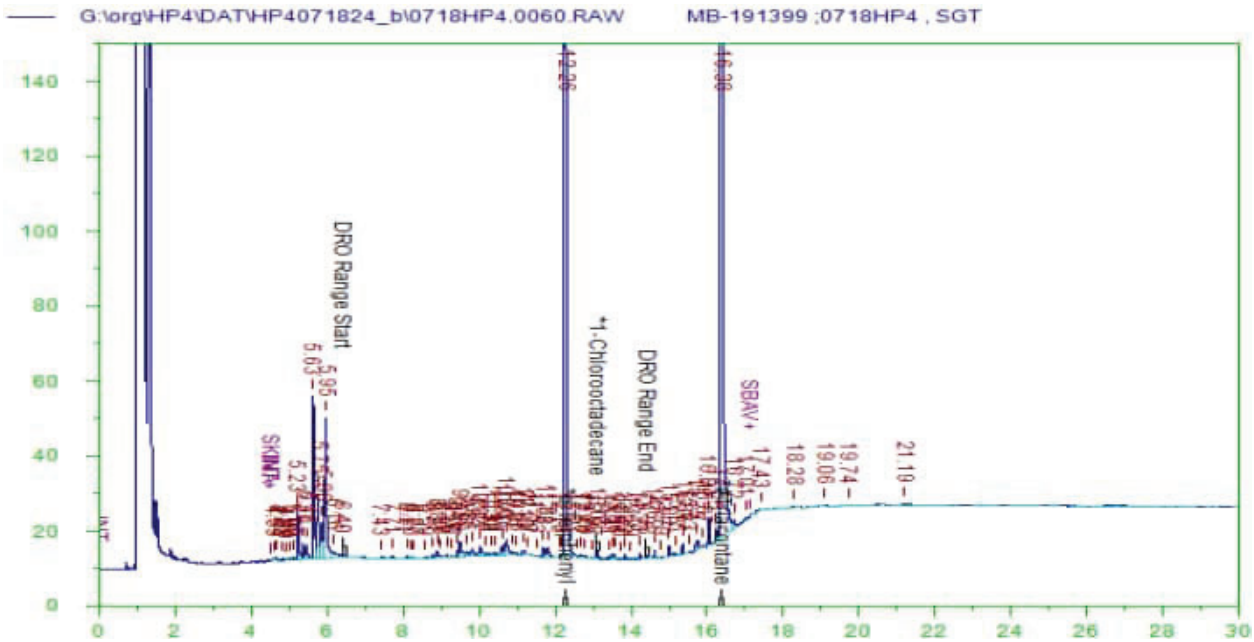


Method Blank Associated with SDG B24071277

Sample ID: RHMW01R-WGFD01LF-2407B, RHMW01R-WGN01LF-2407B, RHMW02-WGFD01LF-2407B, RHMW02-WGN01LF-2407B, RHMW08-WGN01LF-2407B
Sample Date: 7/15/2024
Lab: (b) (4)

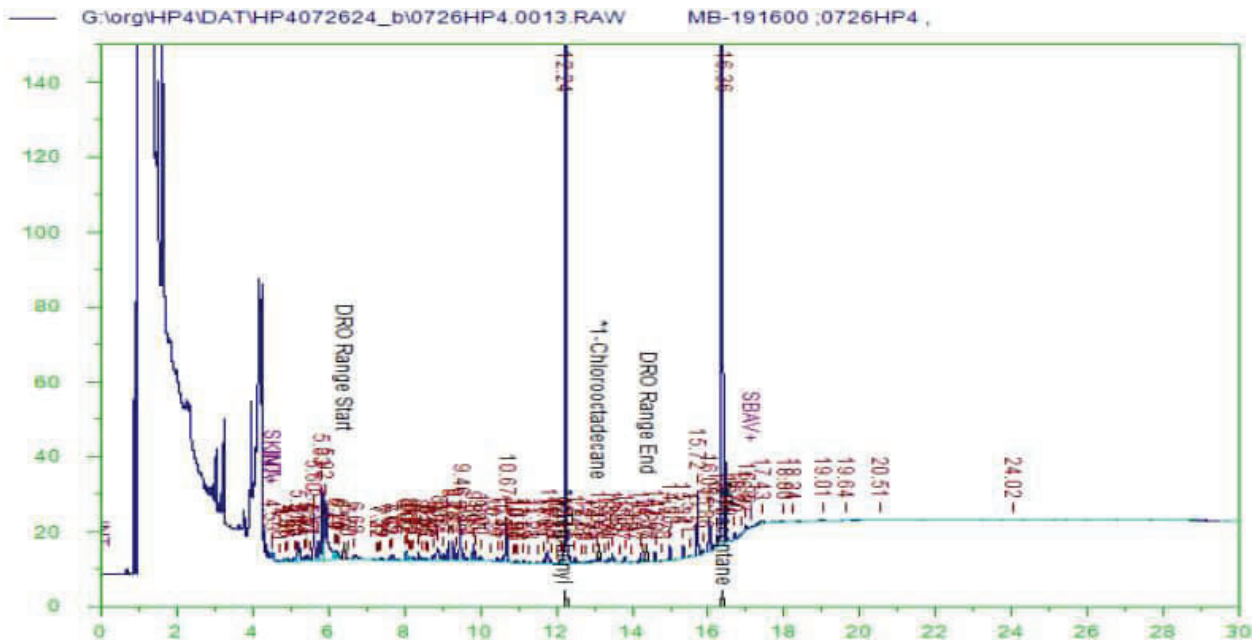


SGT

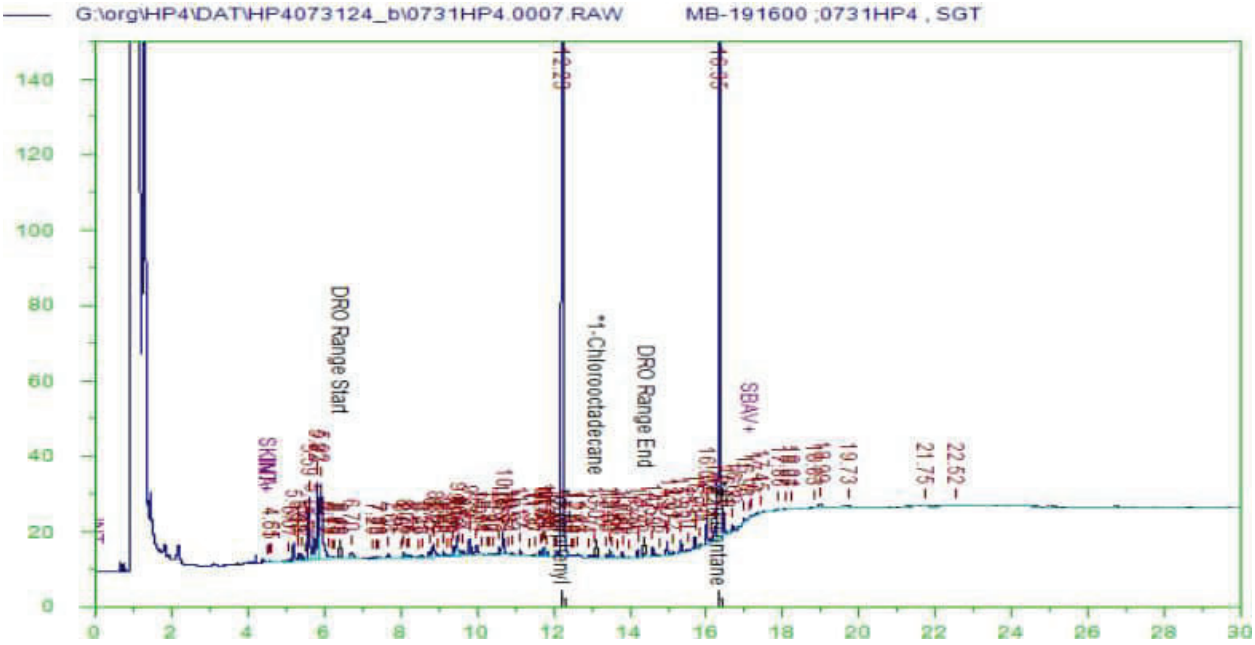


Method Blank Associated with SDG B24071406

Sample ID: RHMW03-WGN01LF-2407B, RHSF-PUMP-WGN01G-2407B
Sample Date: 7/16/2024
Lab: (b) (4)

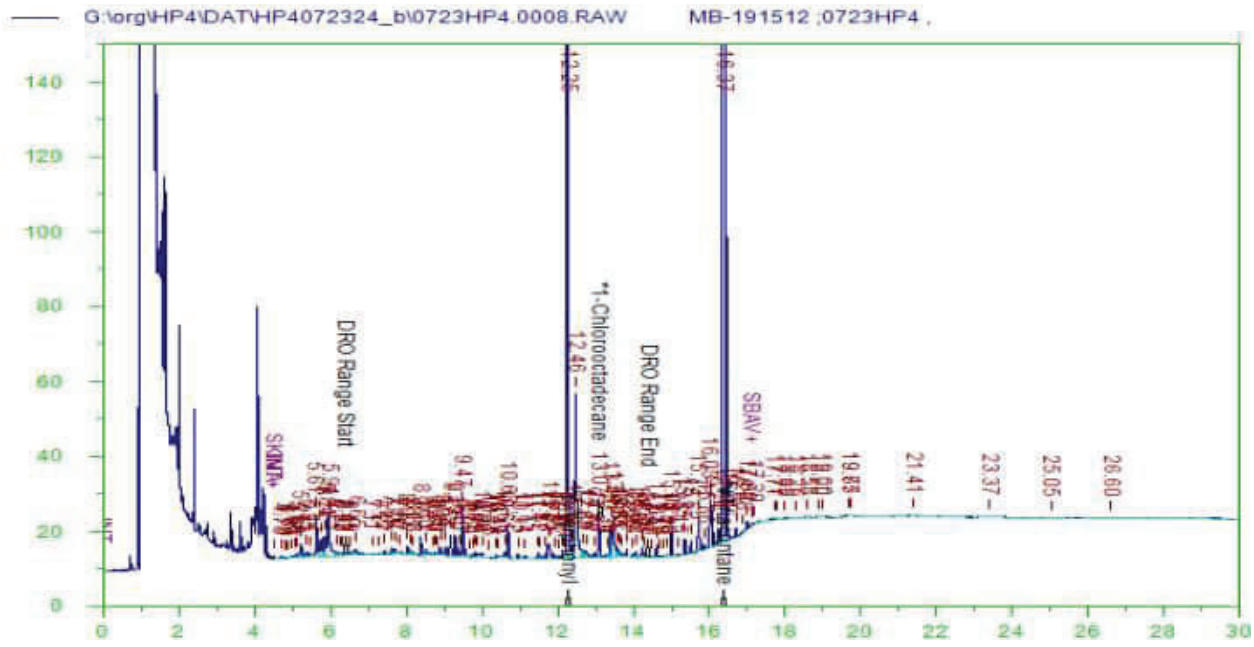


SGT

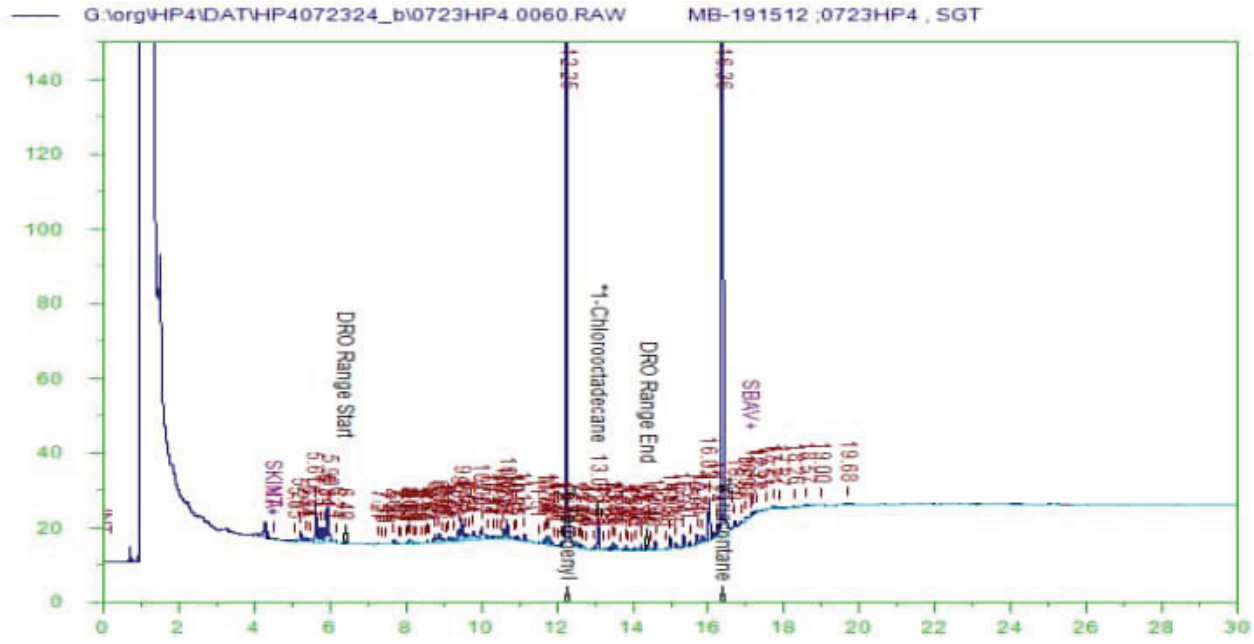


Method Blank Associated with SDG B24071688

Sample ID: RHP01-WGN01LF-2407B, RHP02-WGN01LF-2407B
Sample Date: 7/18/2024
Lab: (b) (4)

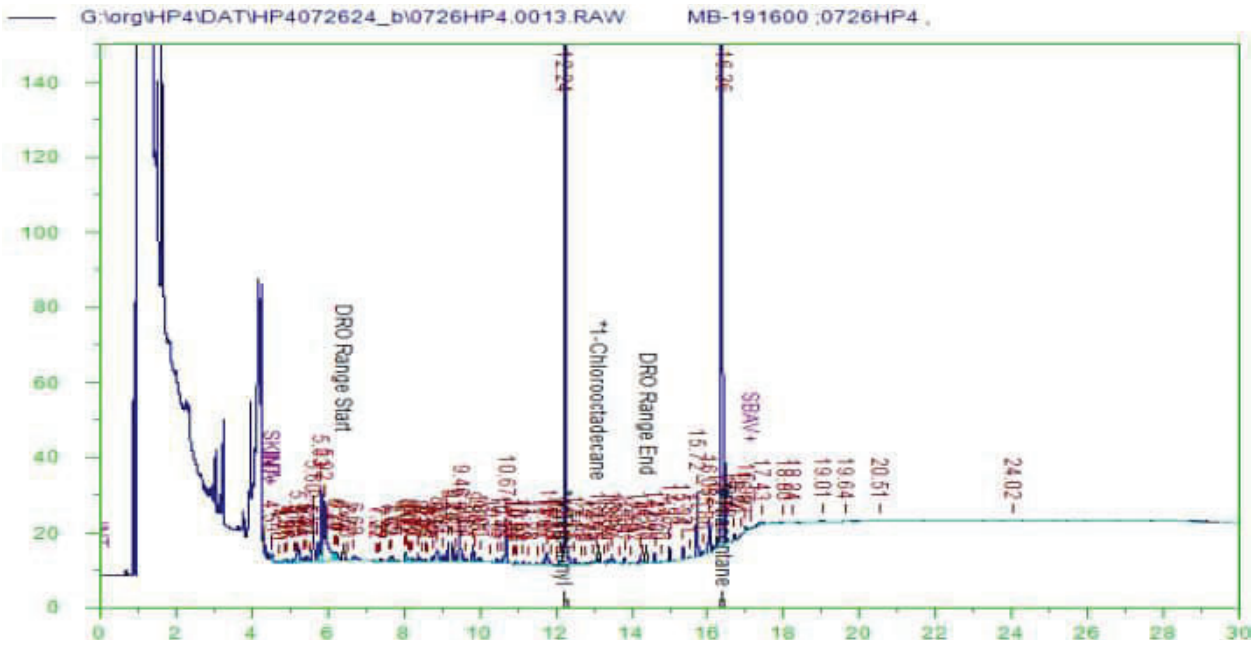


SGT

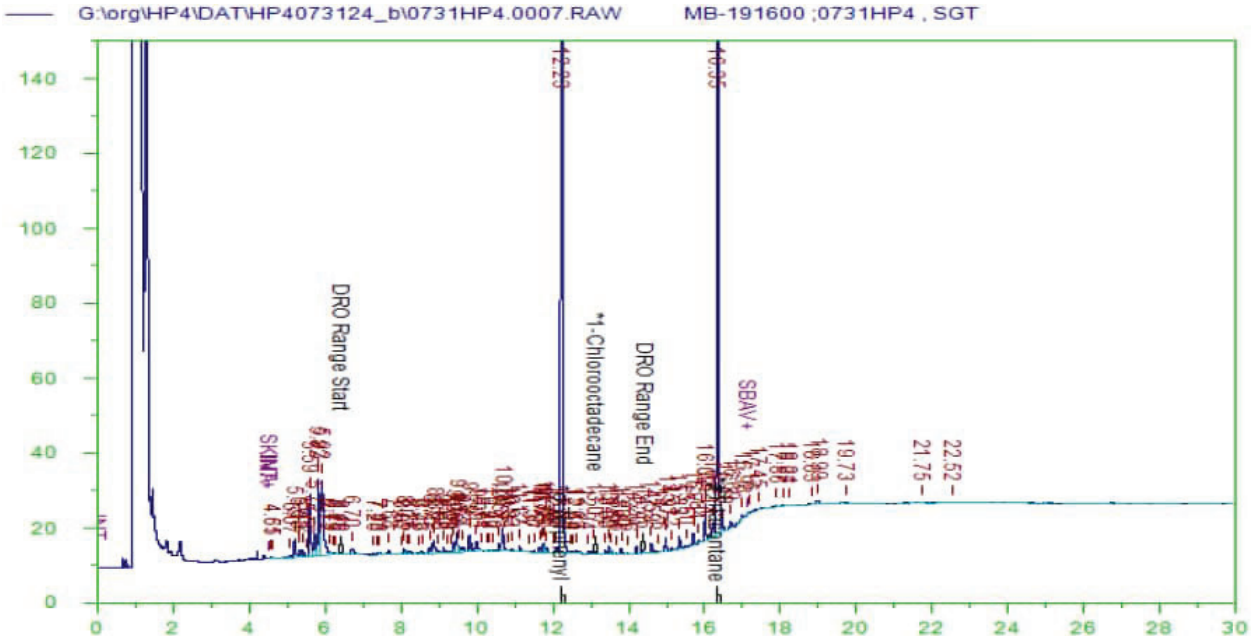


Method Blank Associated with SDG B24071879

Sample ID: RHMW17-WGFD01LF-2407B, RHMW21-WGN01LF-2407B
Sample Date: 7/22/2024
Lab: (b) (4)

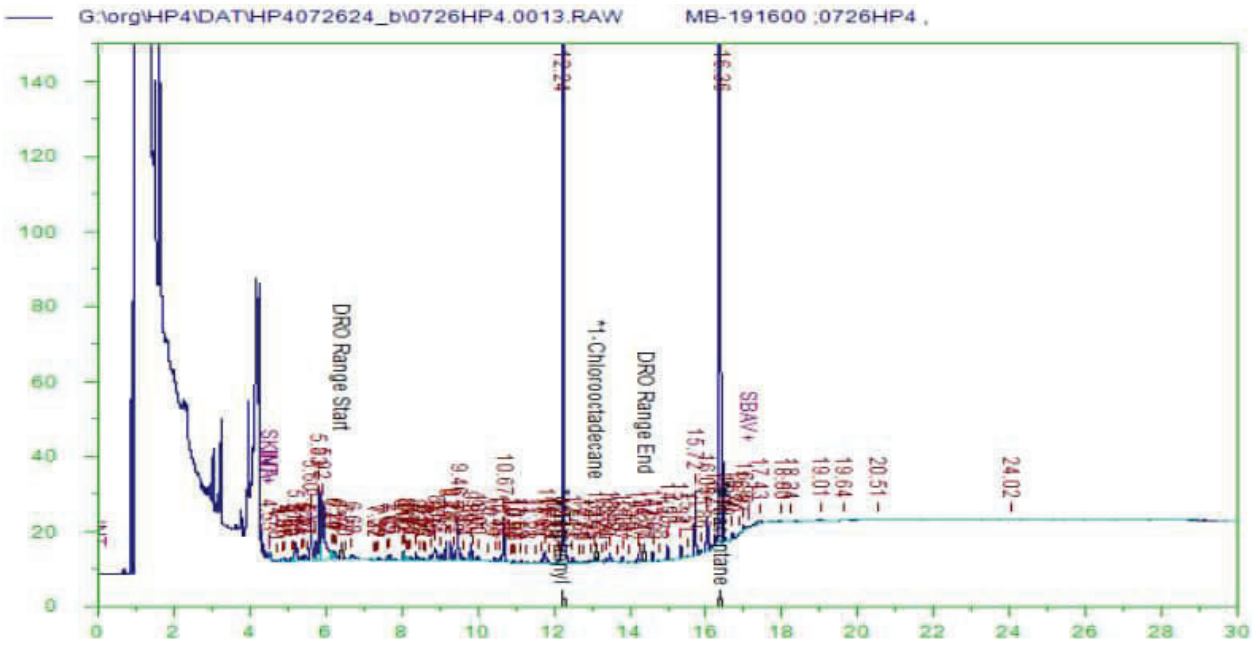


SGT

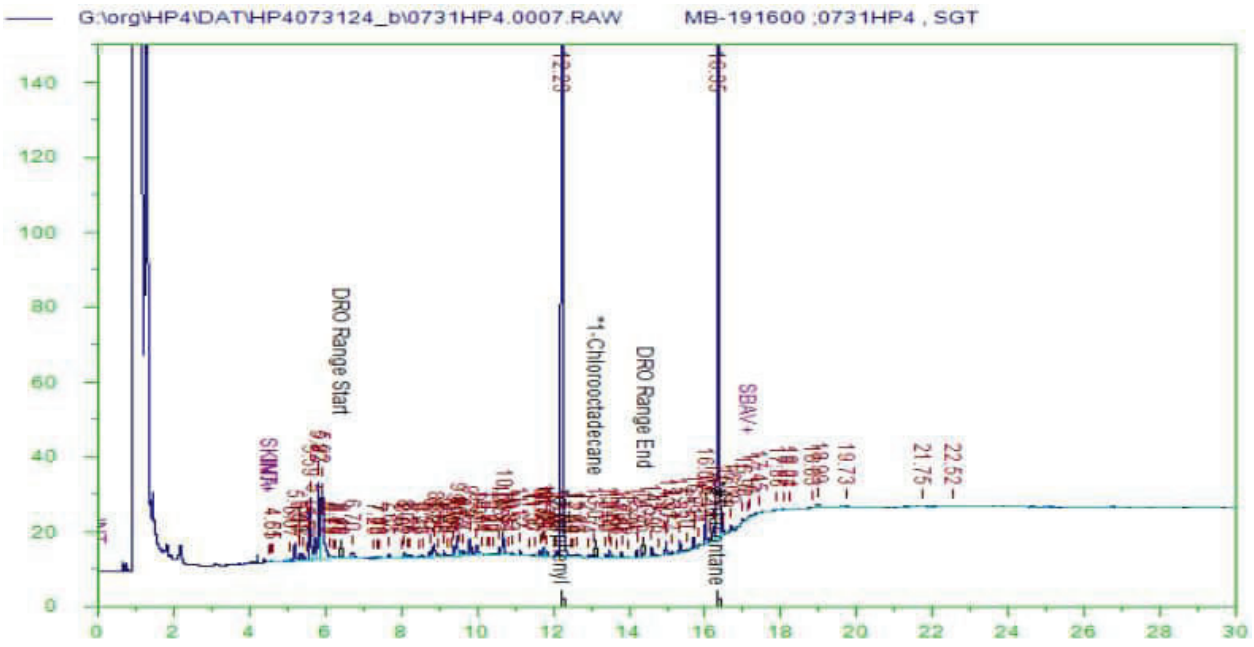


Method Blank Associated with SDG B24072012

Sample ID: RHP04B-WGN01LF-2407B
Sample Date: 7/23/2024
Lab: (b) (4)

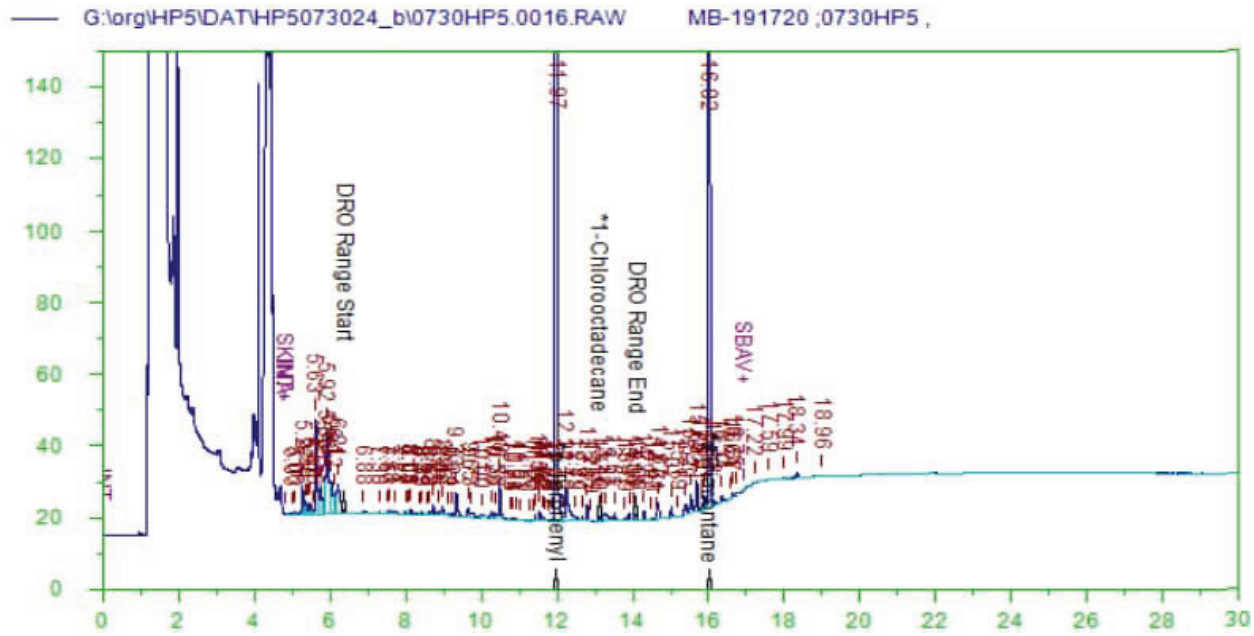


SGT

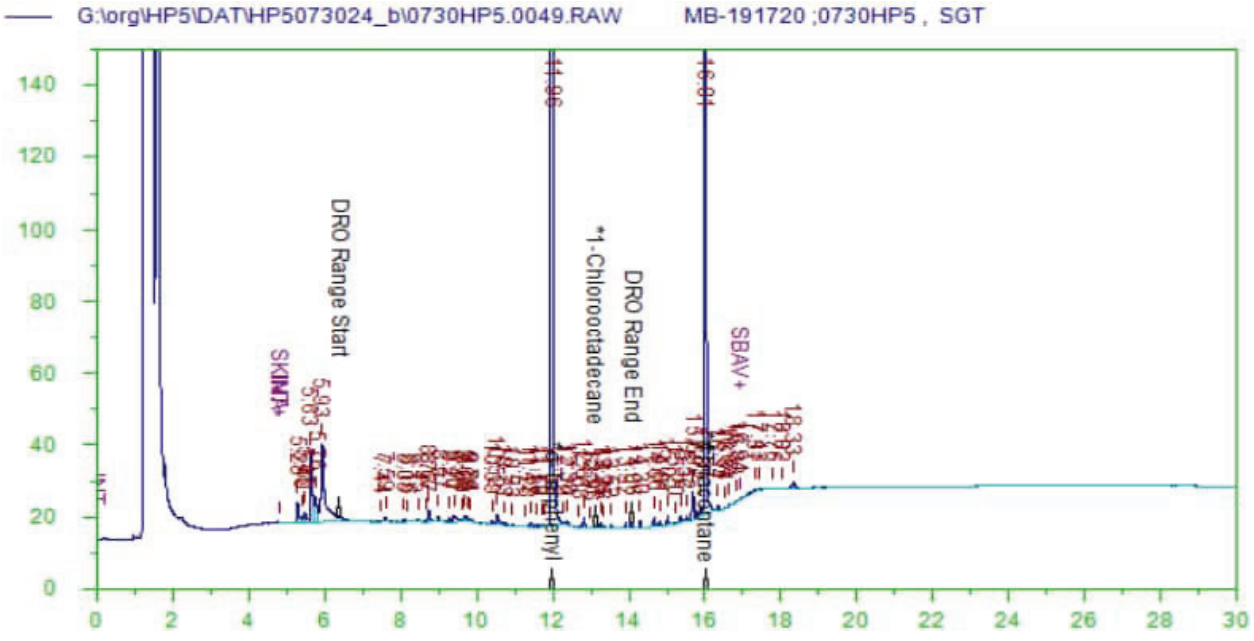


Method Blank Associated with SDG B24072275

Sample ID: RHMW18-WGN01LF-2407B
Sample Date: 7/25/2024
Lab: (b) (4)

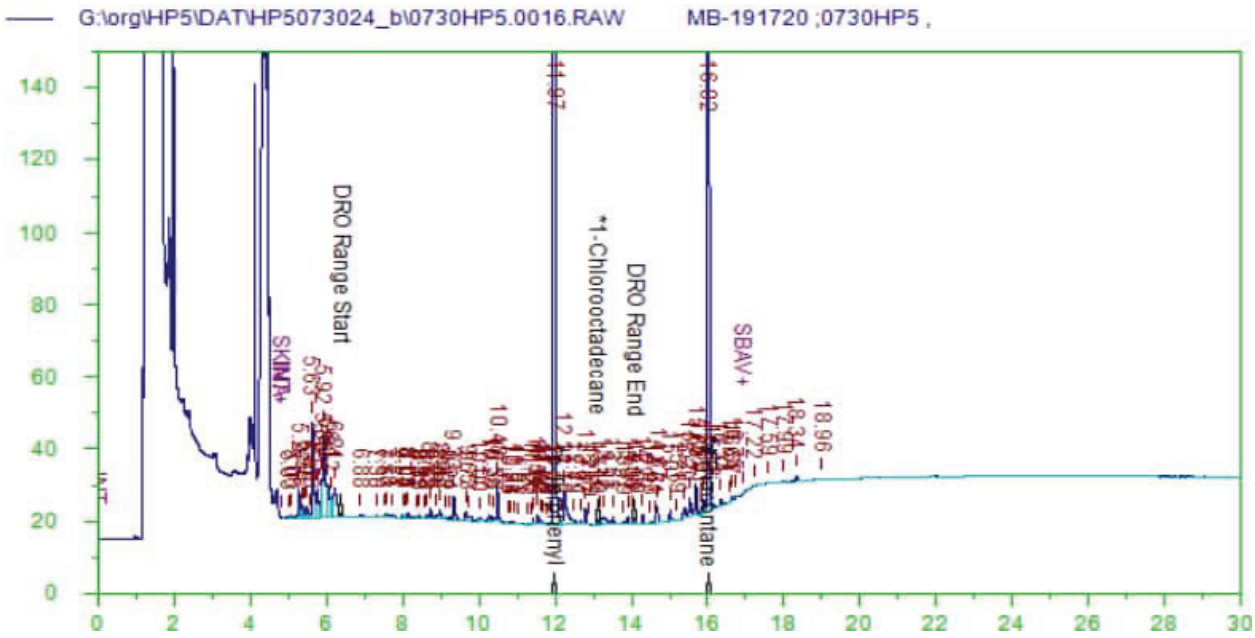


SGT

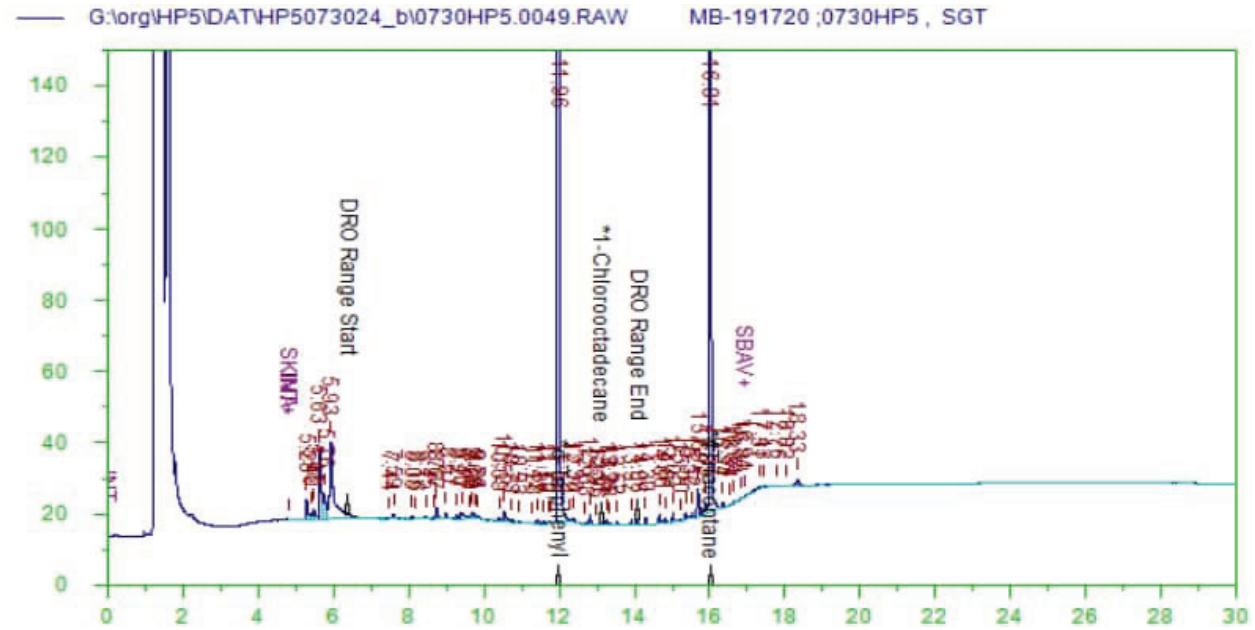


Method Blank Associated with SDG B24072301

Sample ID: NMW24-WGN01LF-2407B
Sample Date: 7/26/2024
Lab: (b) (4)



SGT

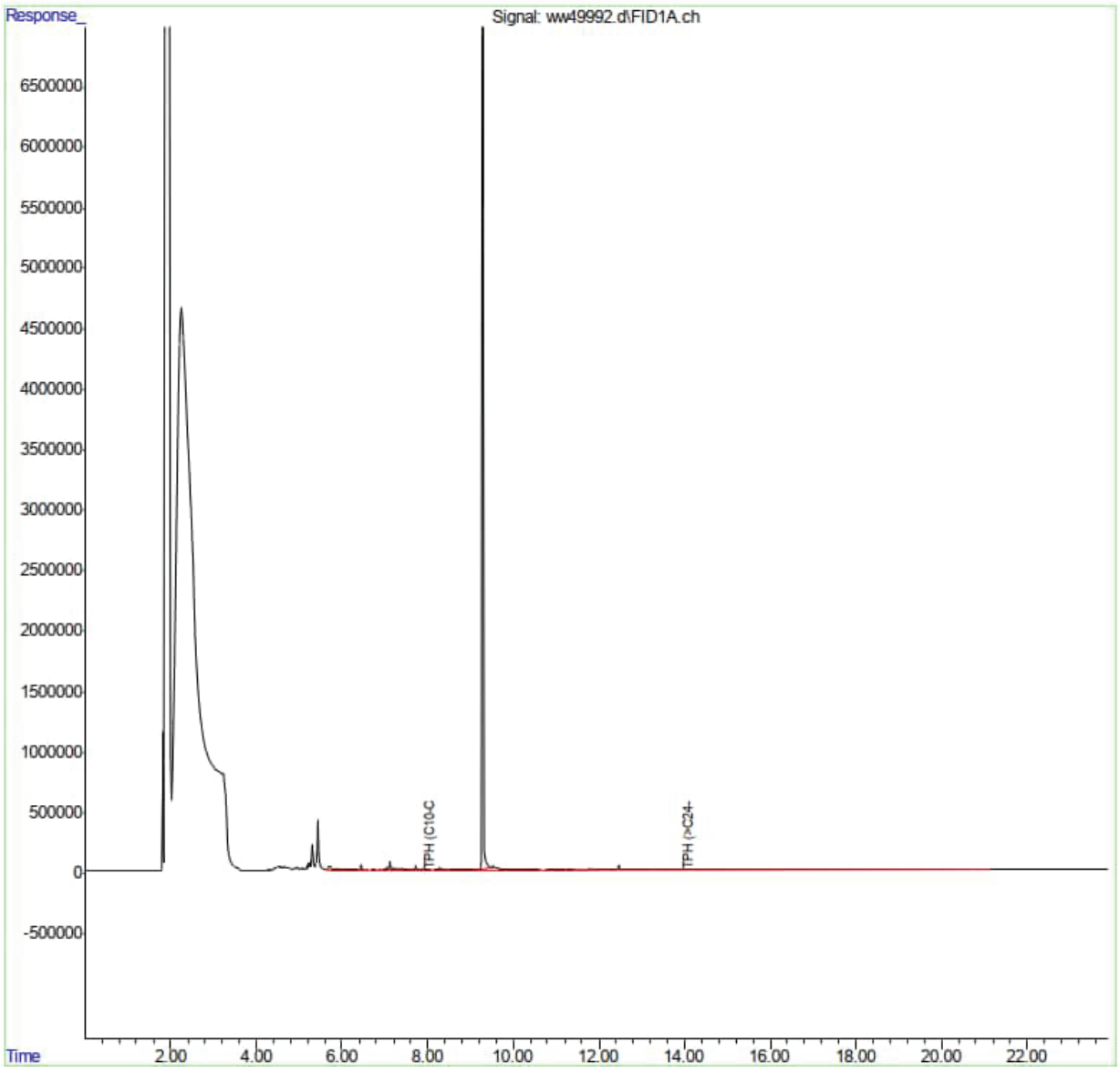


Method Blank Associated with SDG FC17737

Sample ID: RHMW01R-WGFD01LF-2408A, RHMW01R-WGN01LF-2408A, RHMW02-WGFD01LF-2408A, RHMW02-WGN01LF-2408A, RHMW21-WGN01LF-2408A
Sample Date: 8/5/2024
Lab: (b) (4)

```
Quant Time: Aug 12 15:14:05 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
```

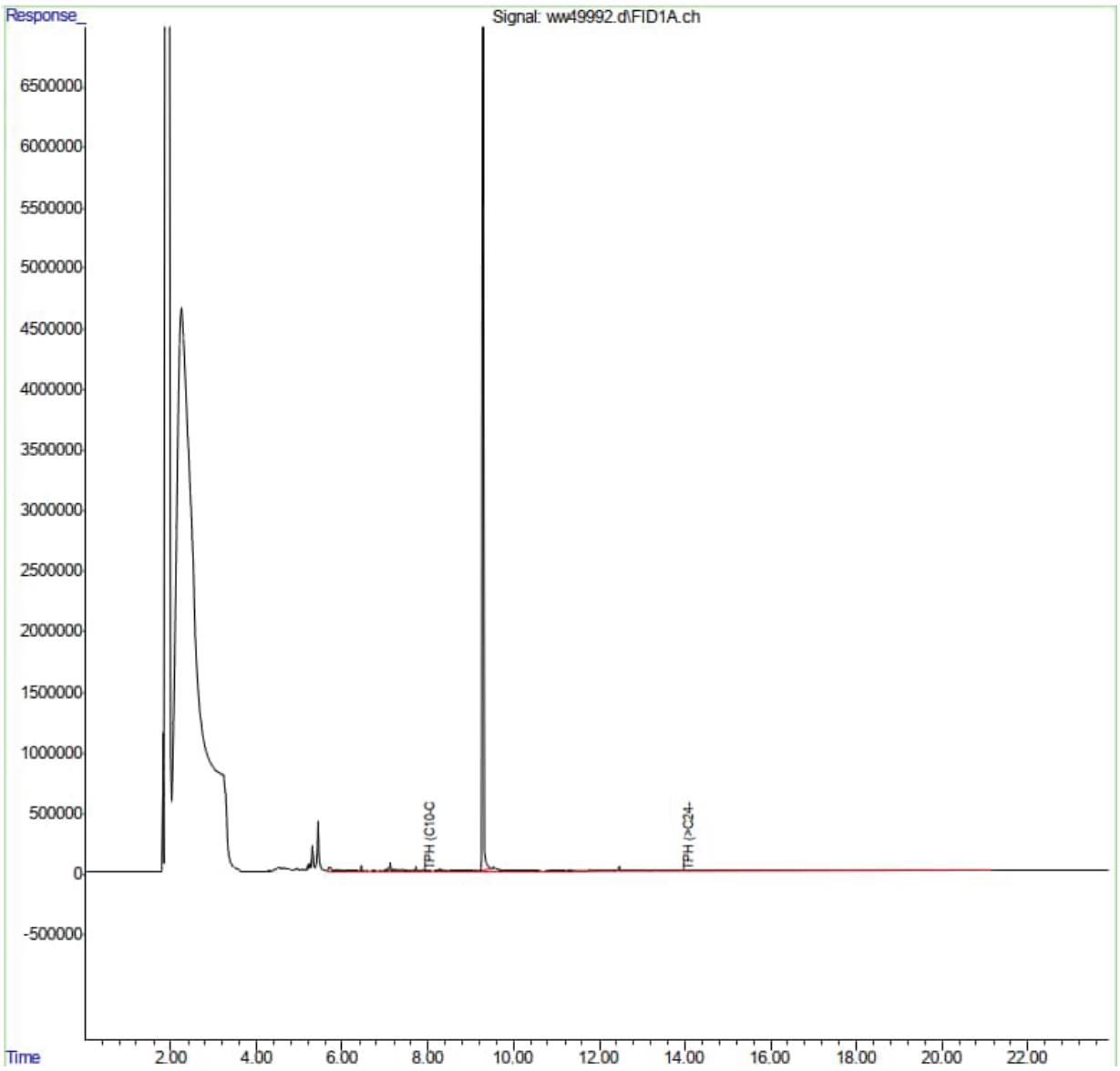


Method Blank Associated with SDG FC17772

Sample ID: RHMW03-WGN01LF-2408A, RHP08-WGFD01LF-2408A, RHSF-PUMP-WGN01G-2408A
Sample Date: 8/6/2024
Lab: (b) (4)

```
Quant Time: Aug 12 15:14:05 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
```

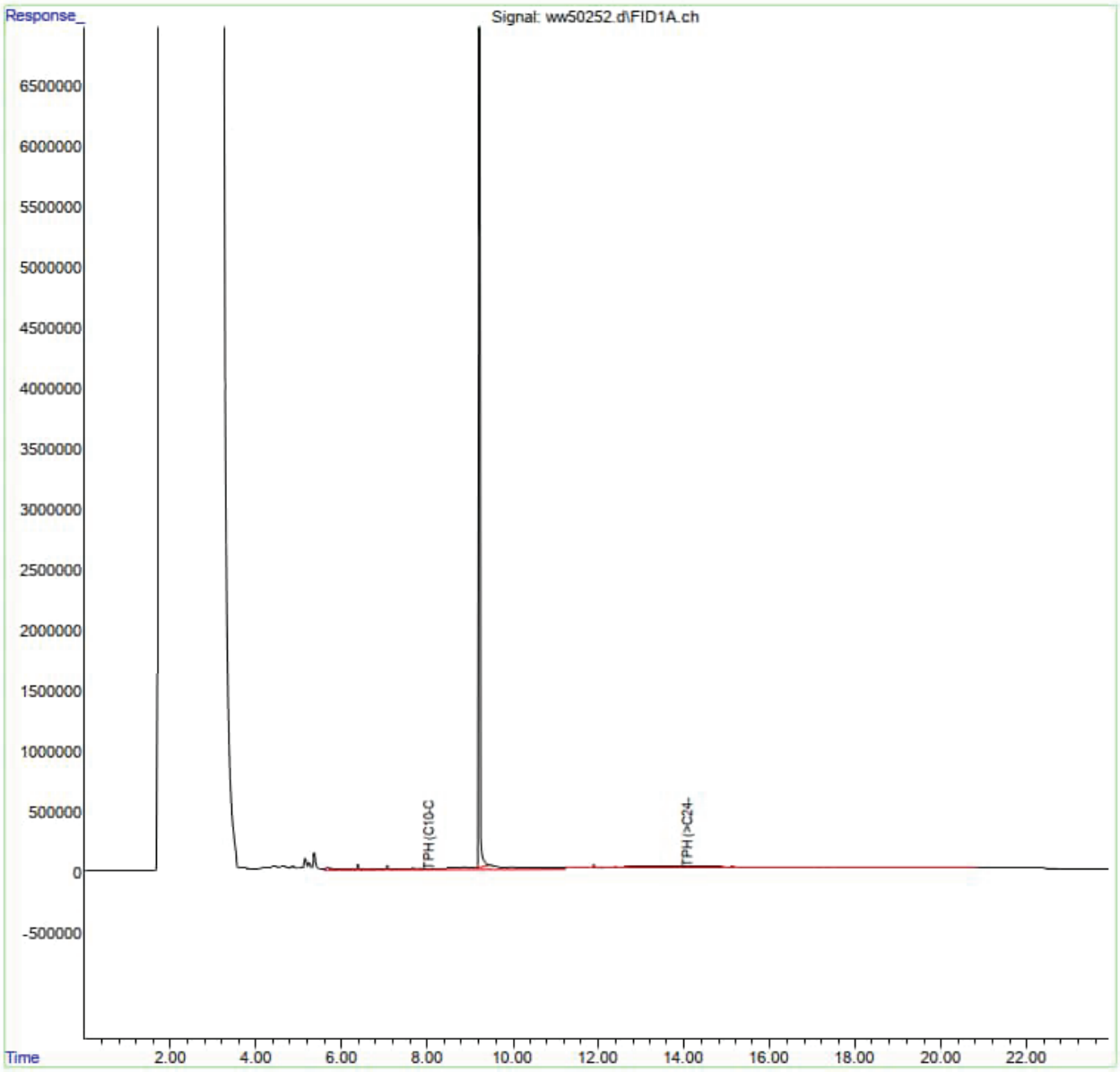


Method Blank Associated with SDG FC18142

Sample ID: RHMW14-03-WGN01G-2408B
Sample Date: 8/19/2024
Lab: (b) (4)

```
Quant Time: Aug 24 12:02:26 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
```

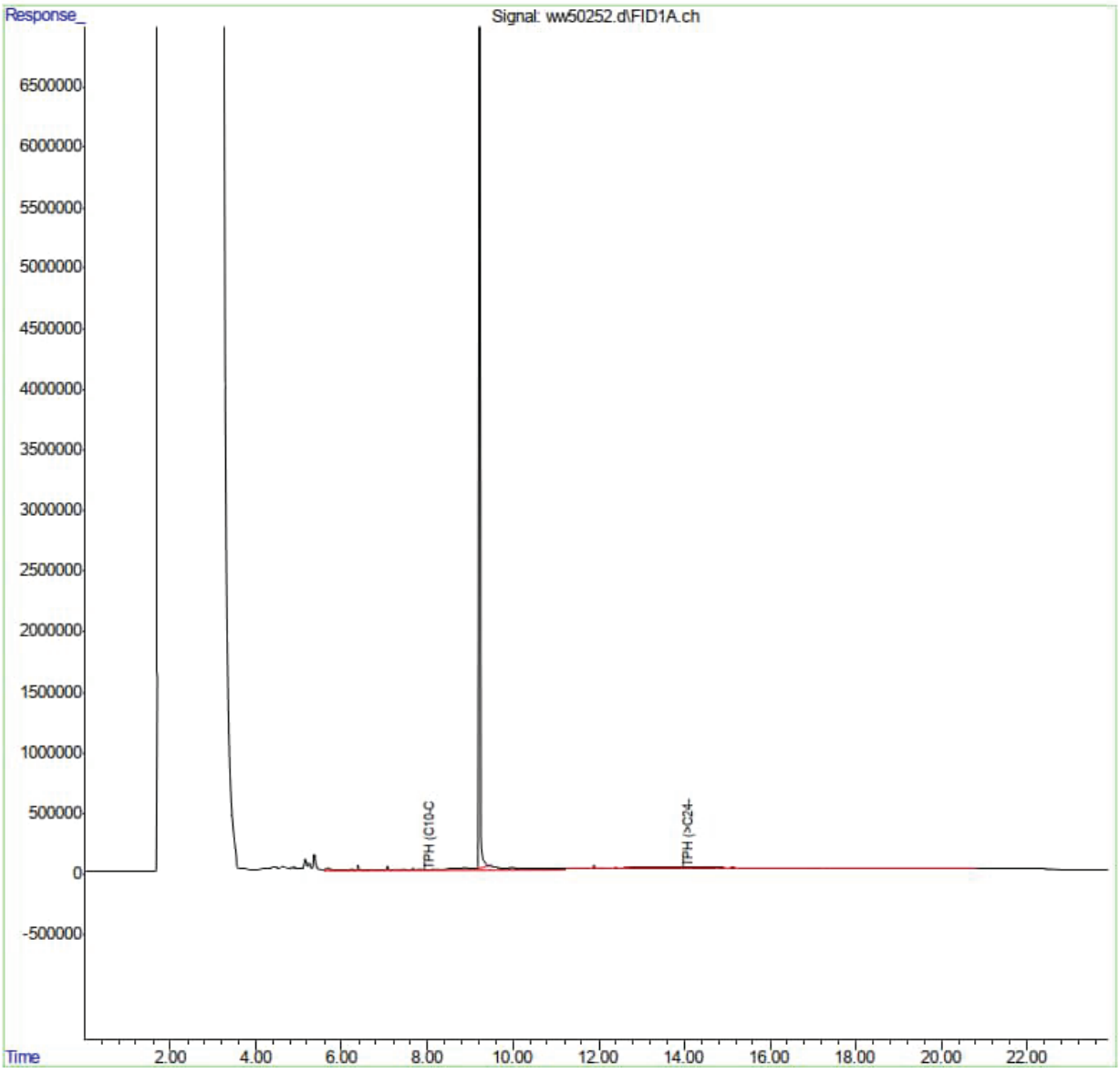


Method Blank Associated with SDG FC18177

Sample ID: RHMW03-WGN01LF-2408B
Sample Date: 8/20/2024
Lab: (b) (4)

```
Quant Time: Aug 24 12:02:26 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
```

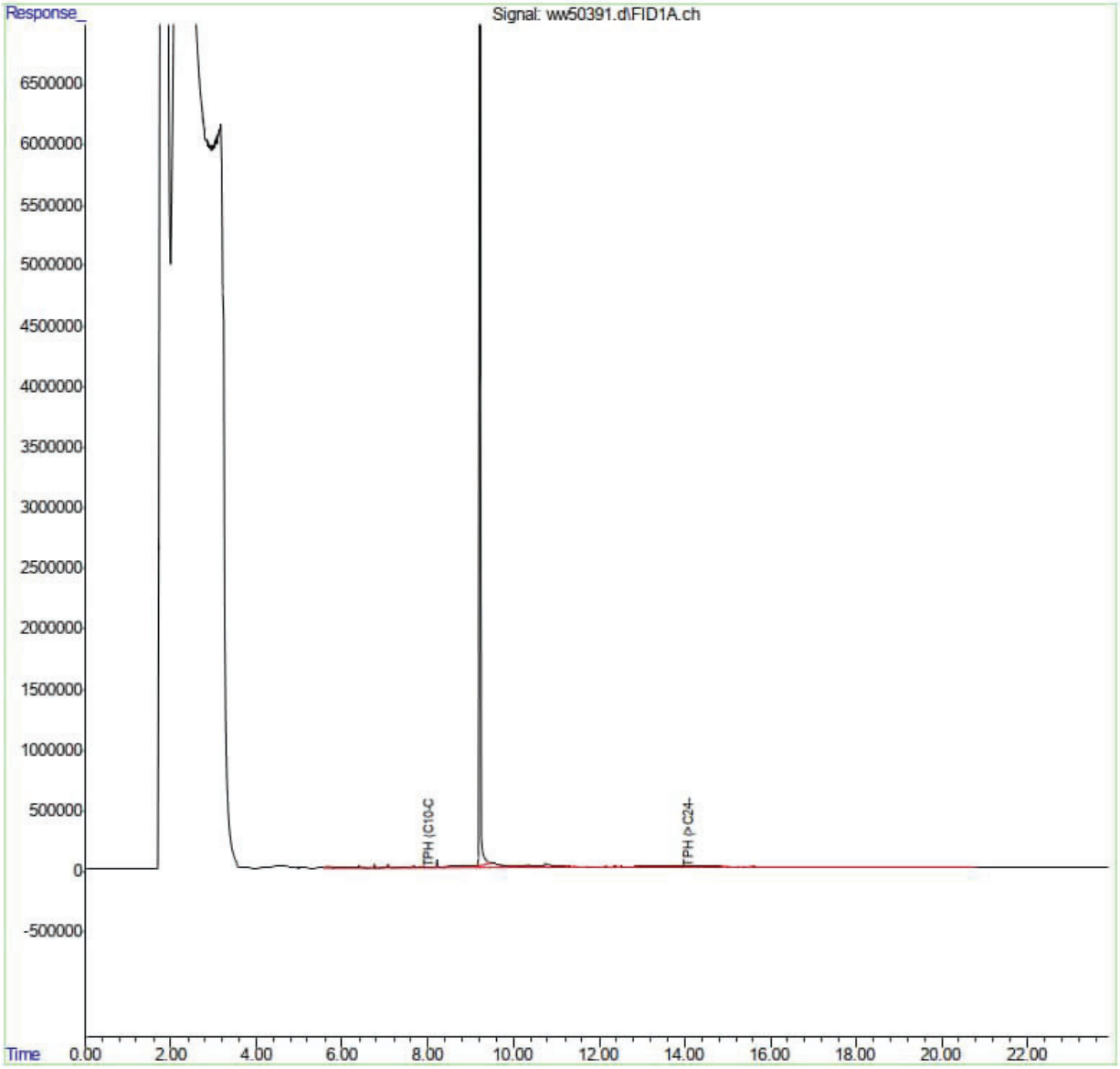


Method Blank Associated with SDG FC18287

Sample ID: RHMW01R-WGFD01LF-2408B, RHMW01R-WGN01LF-2408B, RHMW02-WGFD01LF-2408B, RHMW02-WGN01LF-2408B, RHMW06-WGN01LF-2408B, RHMW21-WGN01LF-2408B
Sample Date: 8/22/2024
Lab: (b) (4)

```
Quant Time: Aug 27 14:13:02 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
```

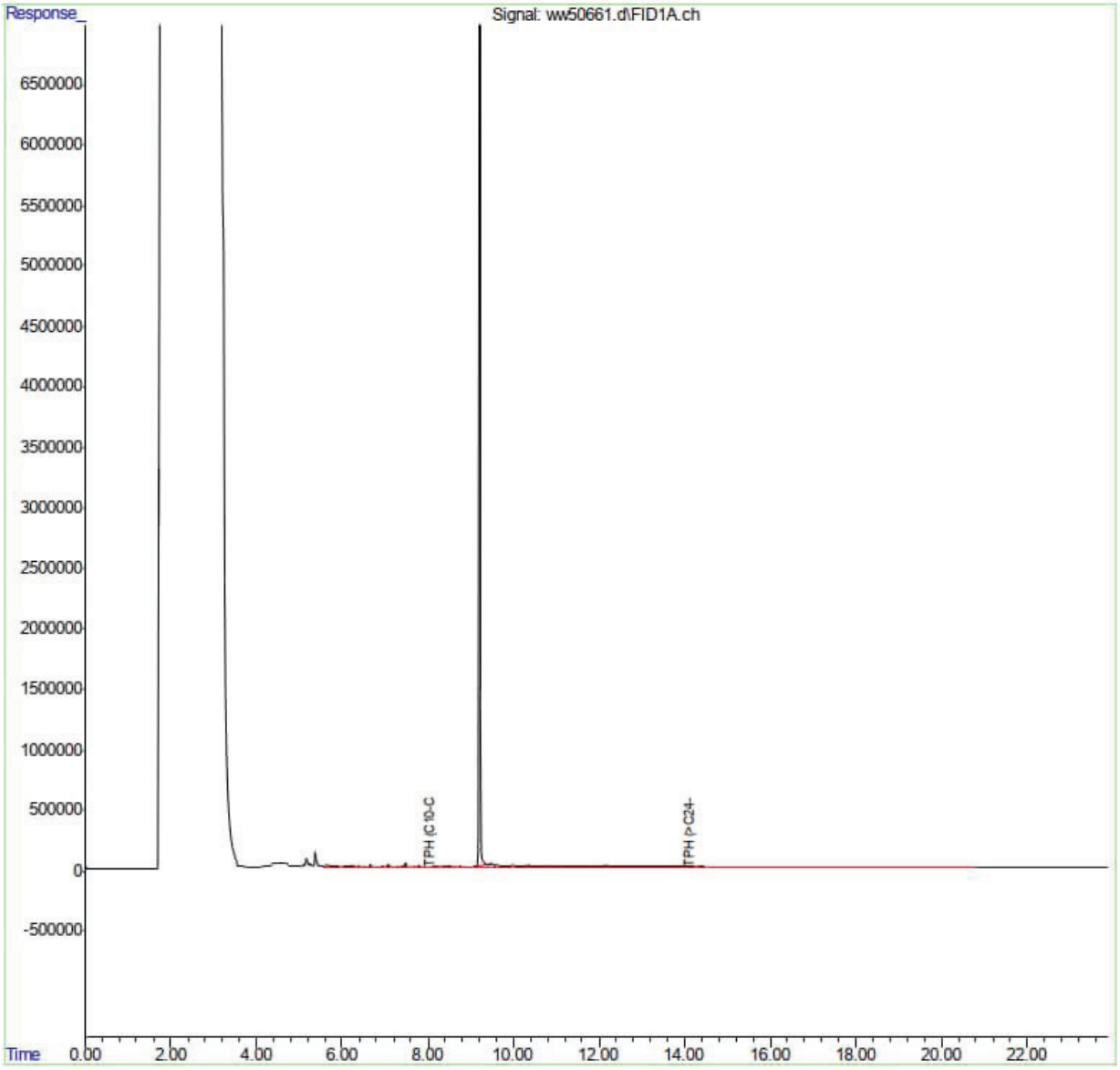


Method Blank Associated with SDG FC18543

Sample ID: RHMW01R-WGFD01LF-2409A, RHMW01R-WGN01LF-2409A, RHMW02-WGFD01LF-2409A, RHMW02-WGN01LF-2409A, RHMW03-WGN01LF-2409A
Sample Date: 9/3/2024
Lab: (b) (4)

```
Quant Time: Sep 06 17:10:24 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
```

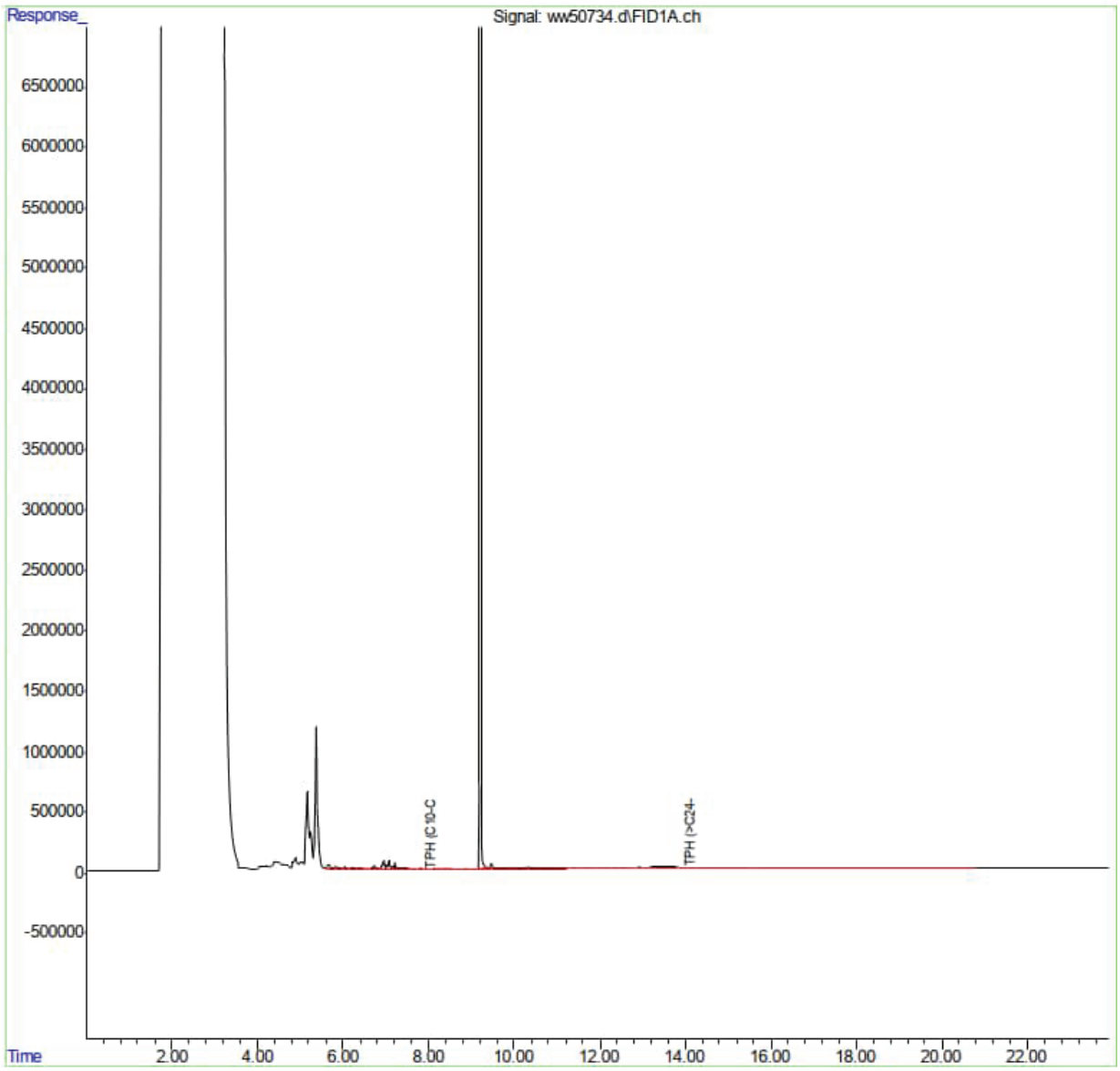


Method Blank Associated with SDG FC18599

Sample ID: RHMW21-WGN01LF-2409A
Sample Date: 9/4/2024
Lab: (b) (4)

```
Quant Time: Sep 11 10:35:29 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
```

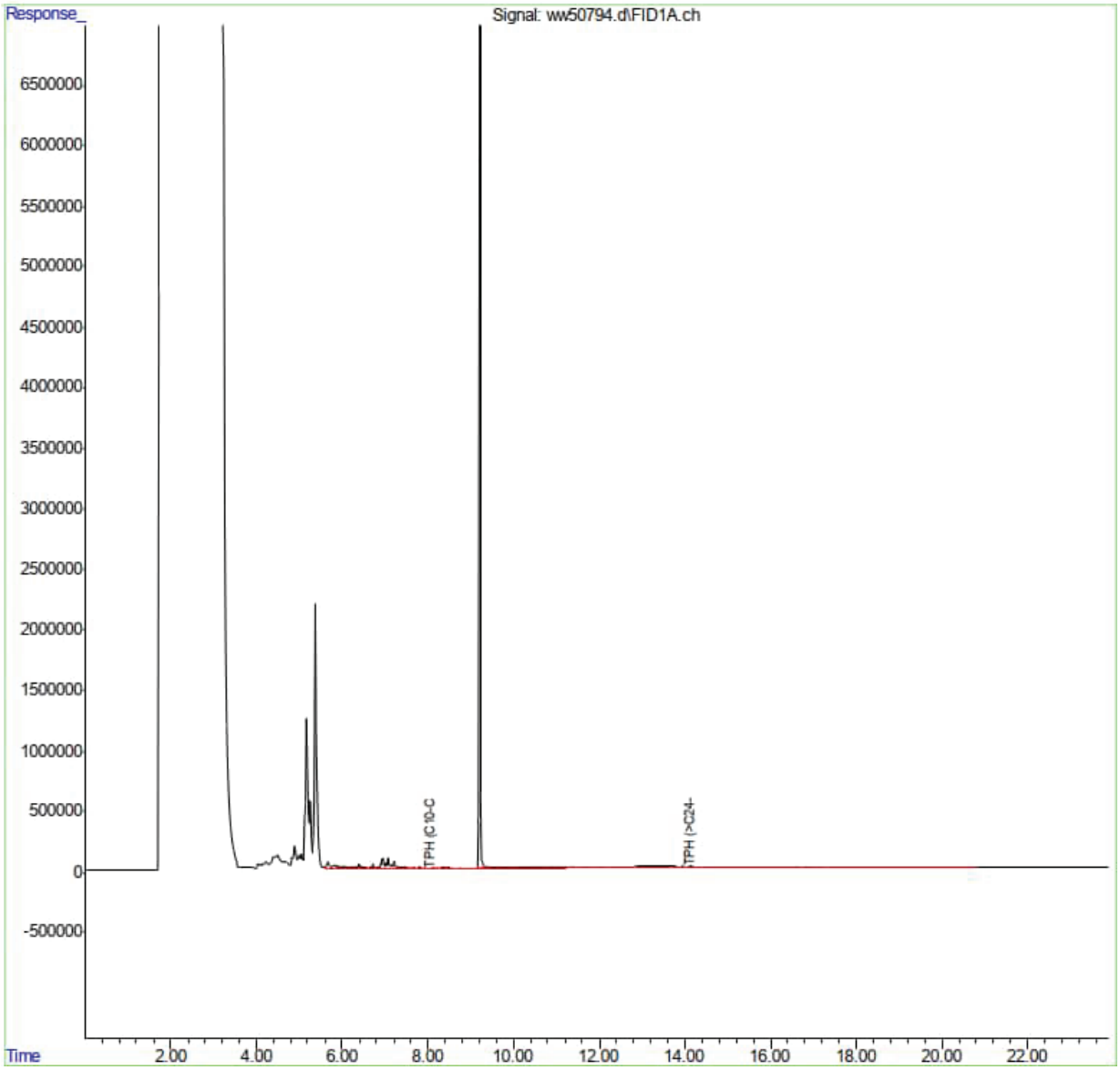


Method Blank Associated with SDG FC18707

Sample ID: RHP08-WGFD01LF-2409A, RHP08-WGN01LF-2409A
Sample Date: 9/9/2024
Lab: (b) (4)

```
Quant Time: Sep 12 15:35:07 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
```

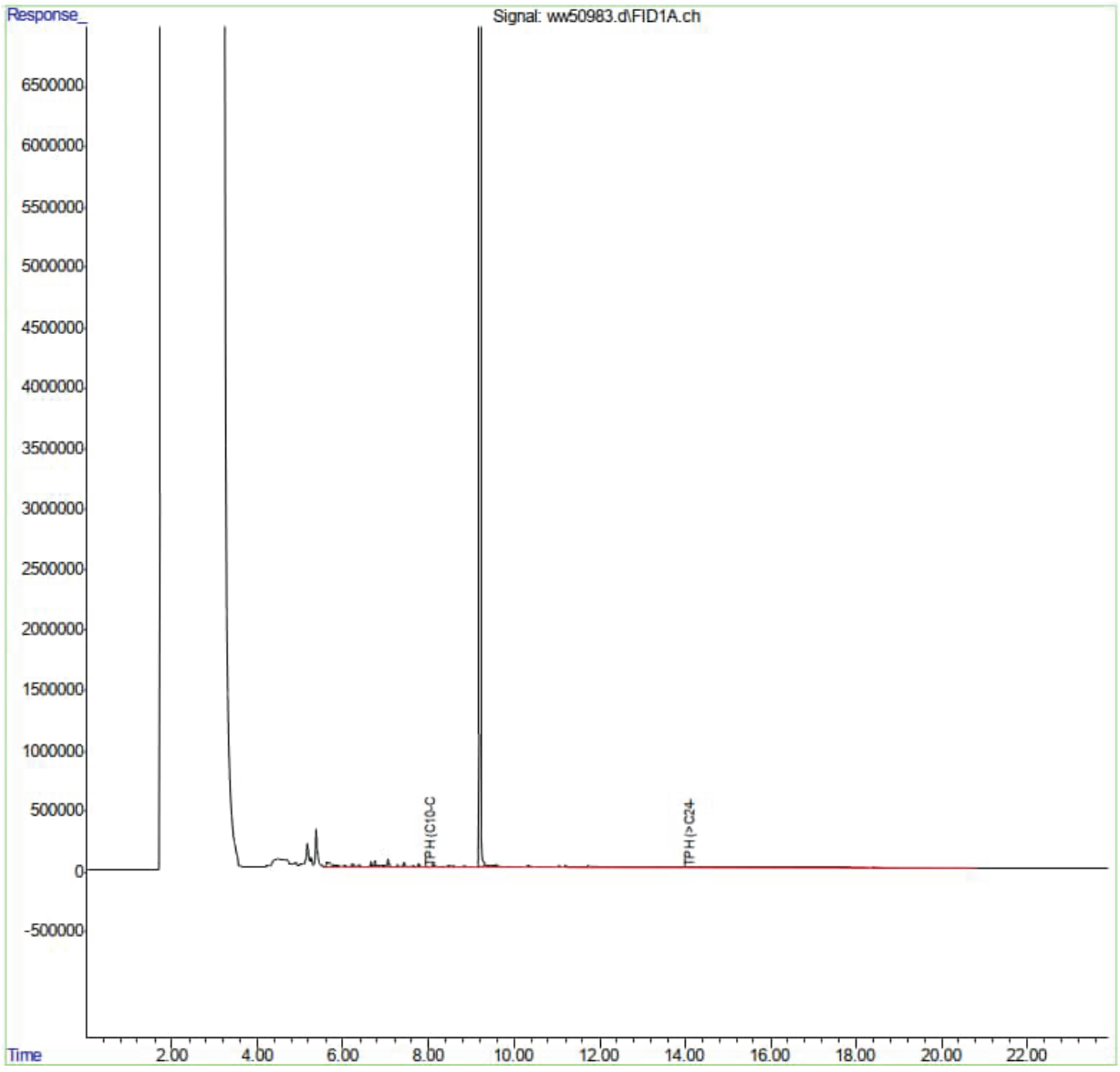


Method Blank Associated with SDG FC18893

Sample ID: RHMW01R-WGFD01LF-2409B, RHMW01R-WGN01LF-2409B
Sample Date: 9/16/2024
Lab: (b) (4)

```
Quant Time: Sep 23 09:53:32 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
```



Appendix B.5 – Natural Attenuation Parameters

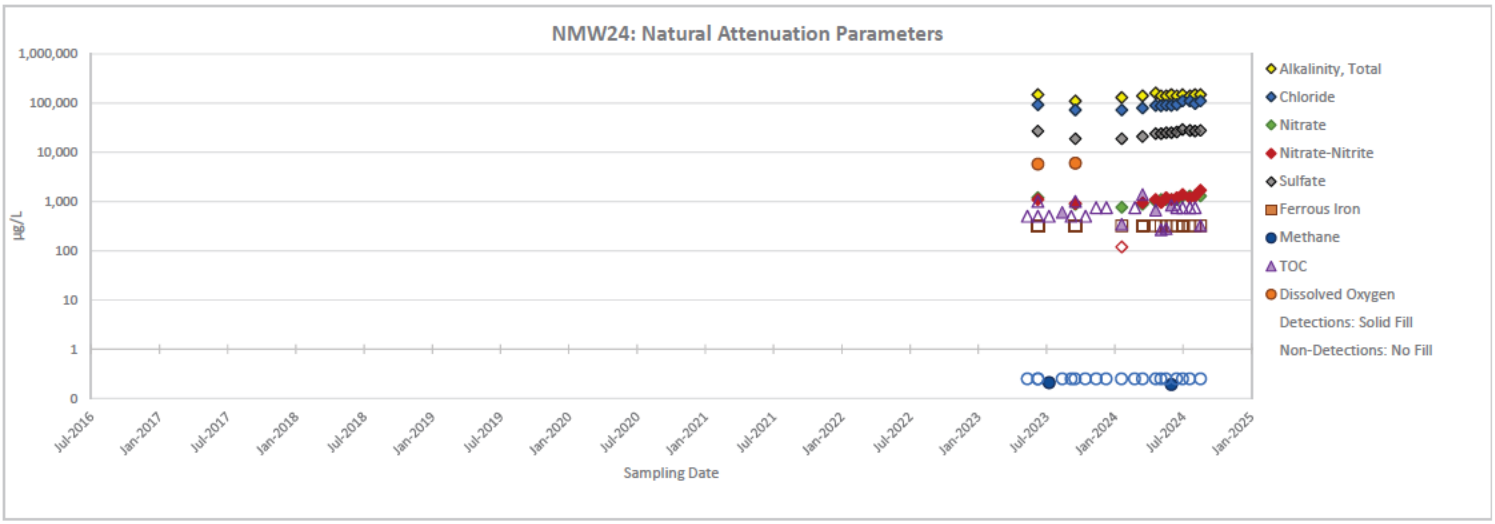
Red Hill Bulk Fuel Storage Facility
Appendix B.5: Cumulative Natural Attenuation Parameter Graphs
Data Legend

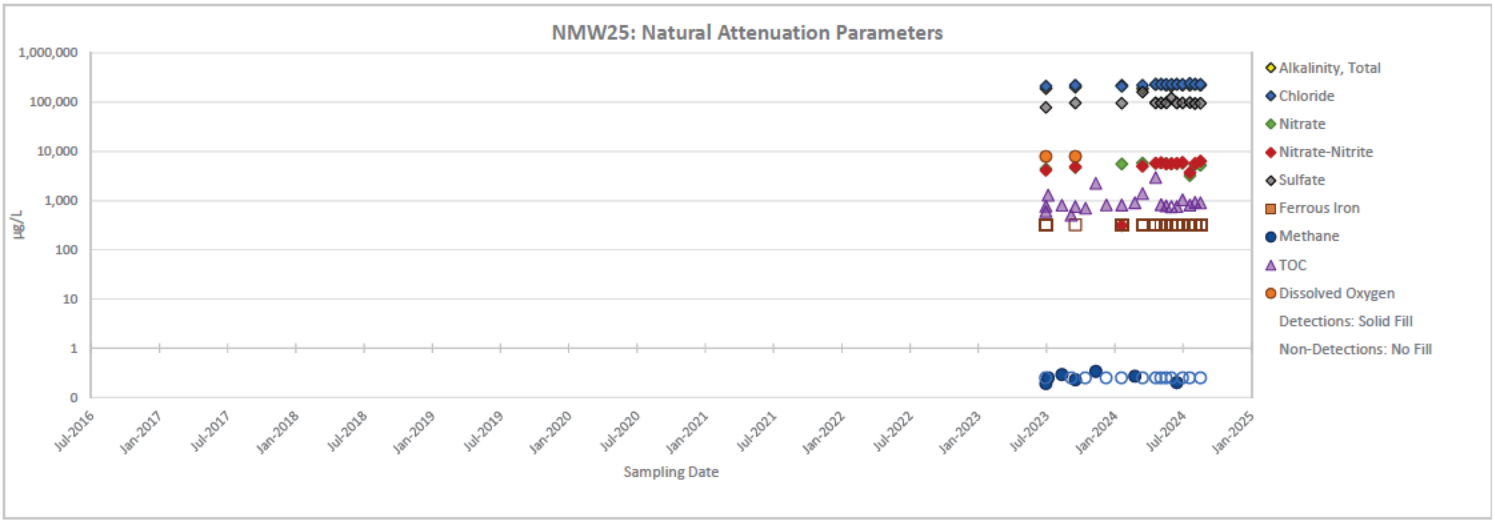
Footnotes

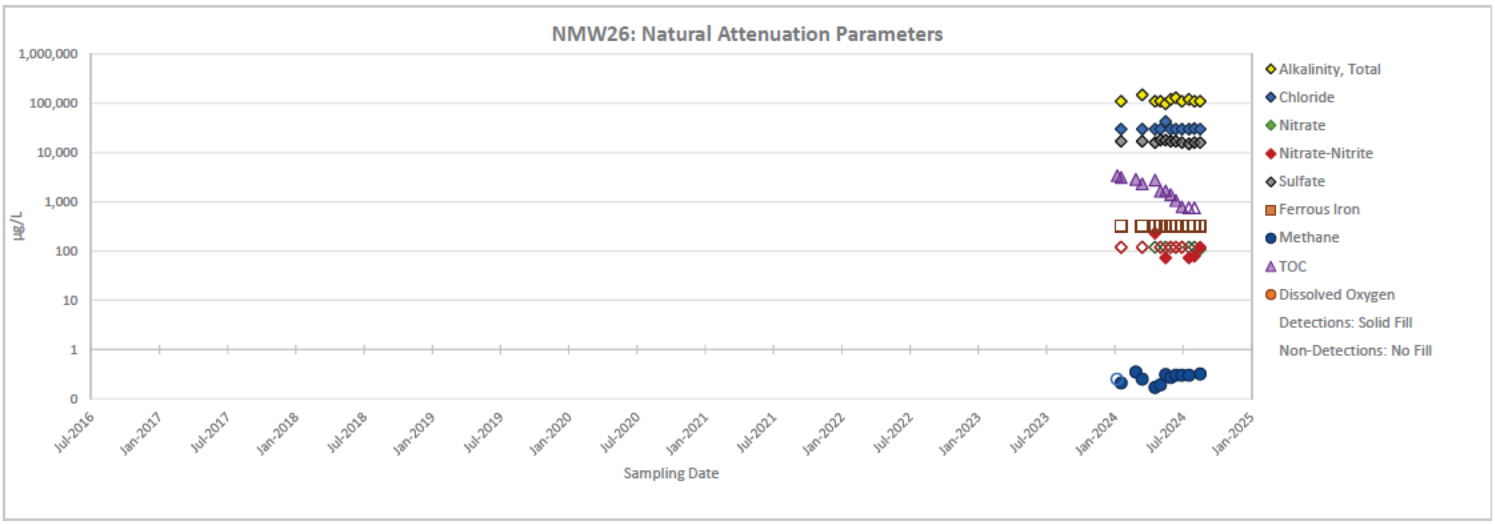
Detects are generally displayed as closed markers with color in fill. Non-detects are displayed without color in fill.

Plotted values include Normal and Field Duplicate sample types.

All results are reported in ug/L

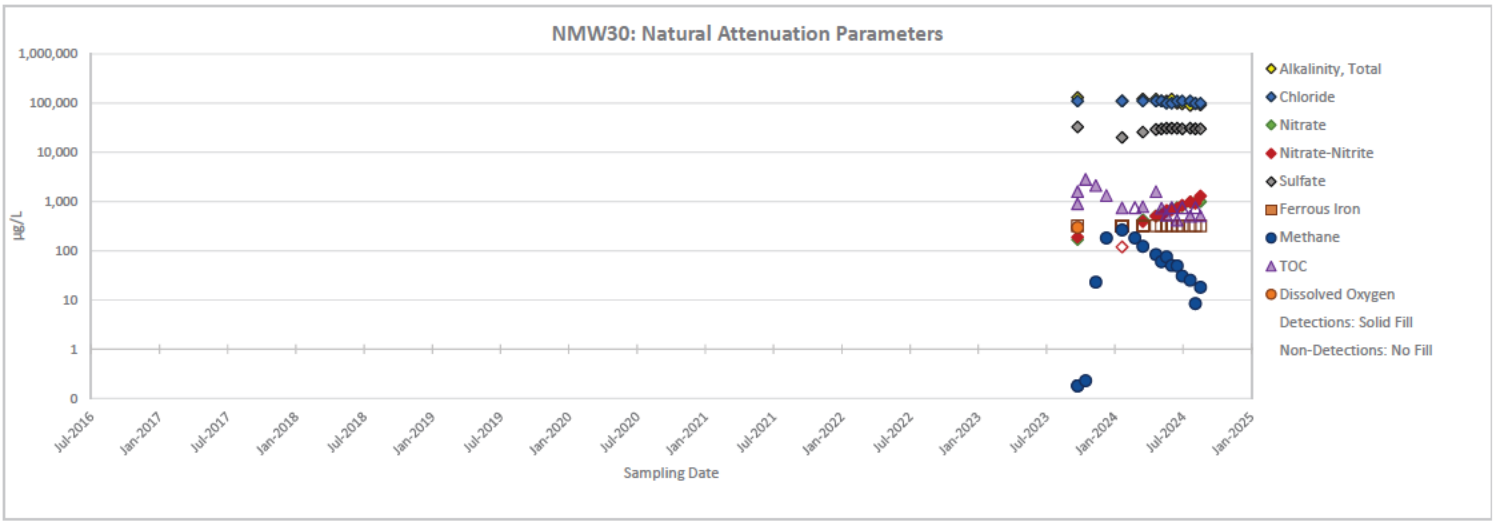


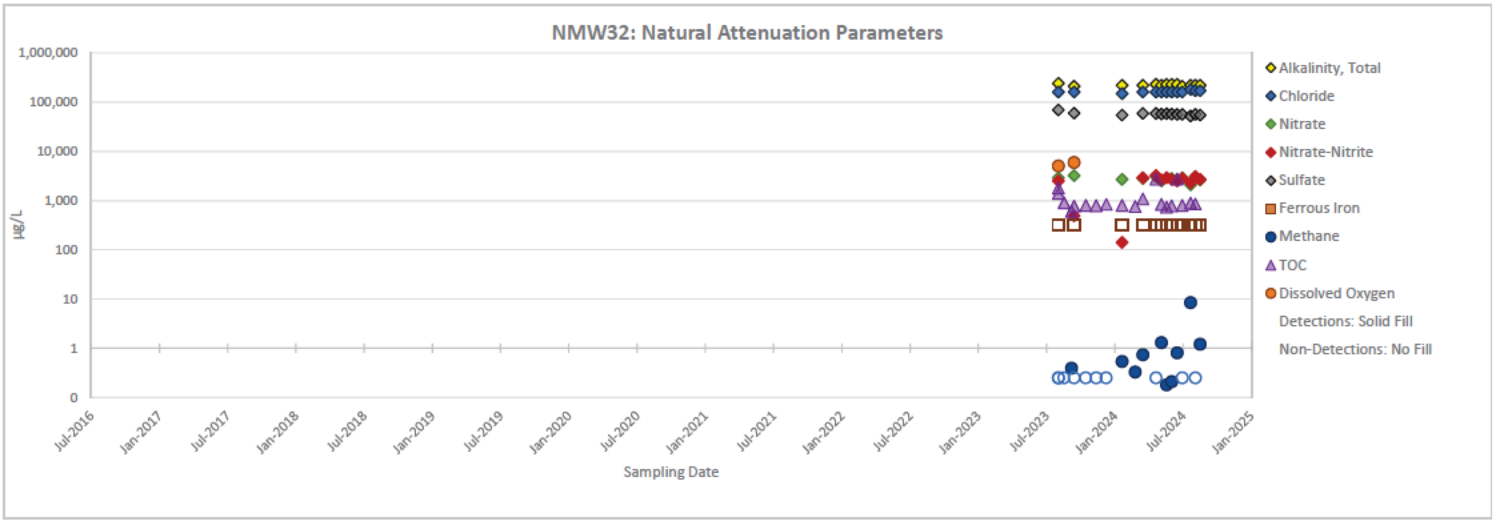


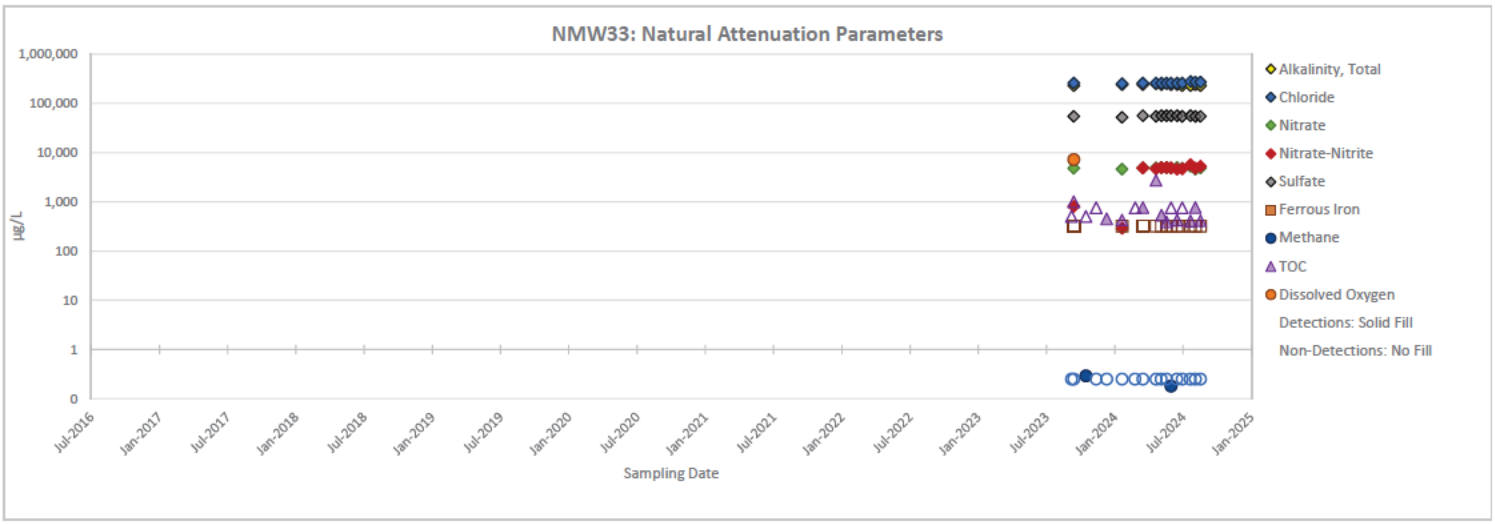


Note: See Data Legend

DISCLAIMER: Includes Preliminary Data Undergoing Validation - Subject to Change.

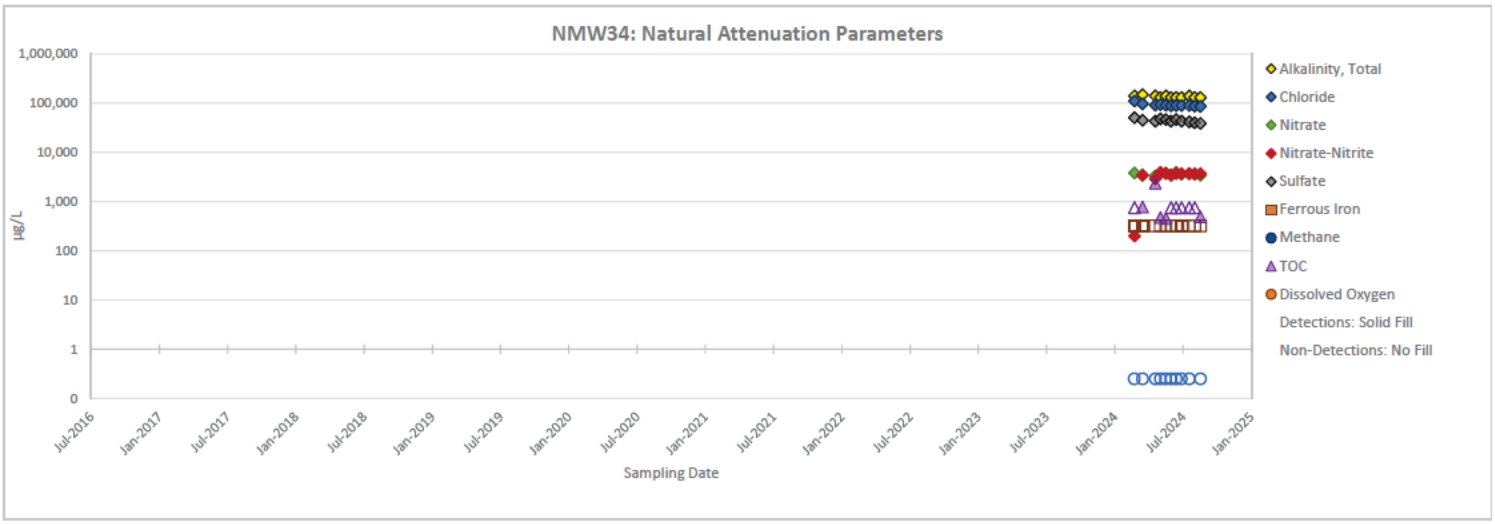






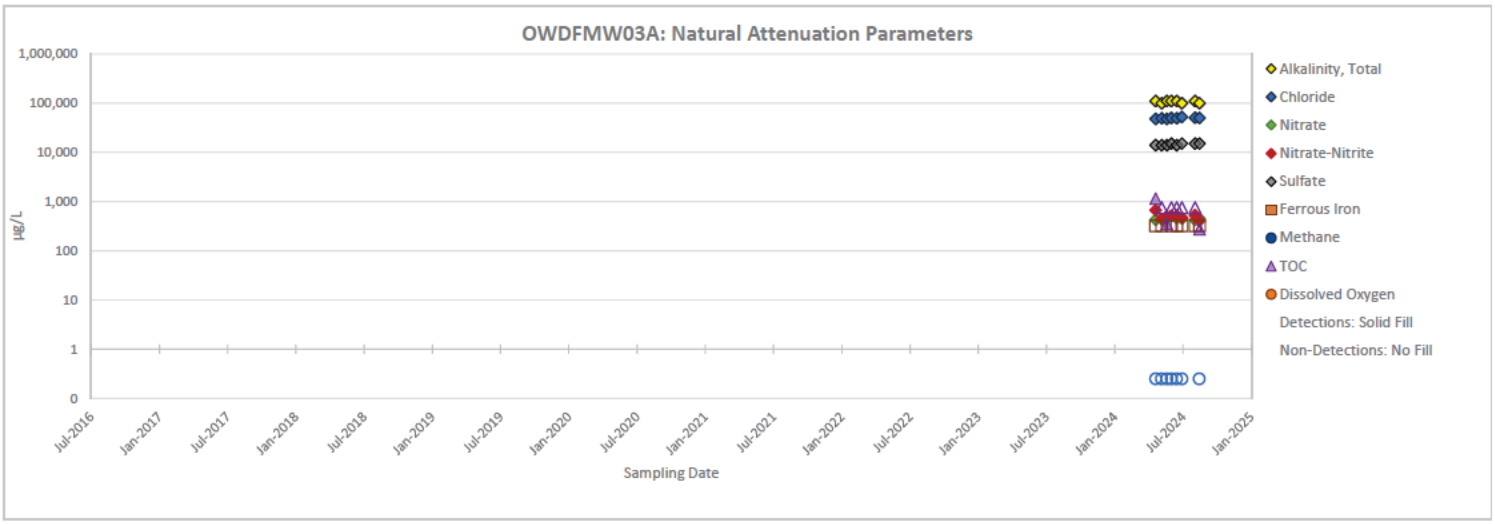
Note: See Data Legend

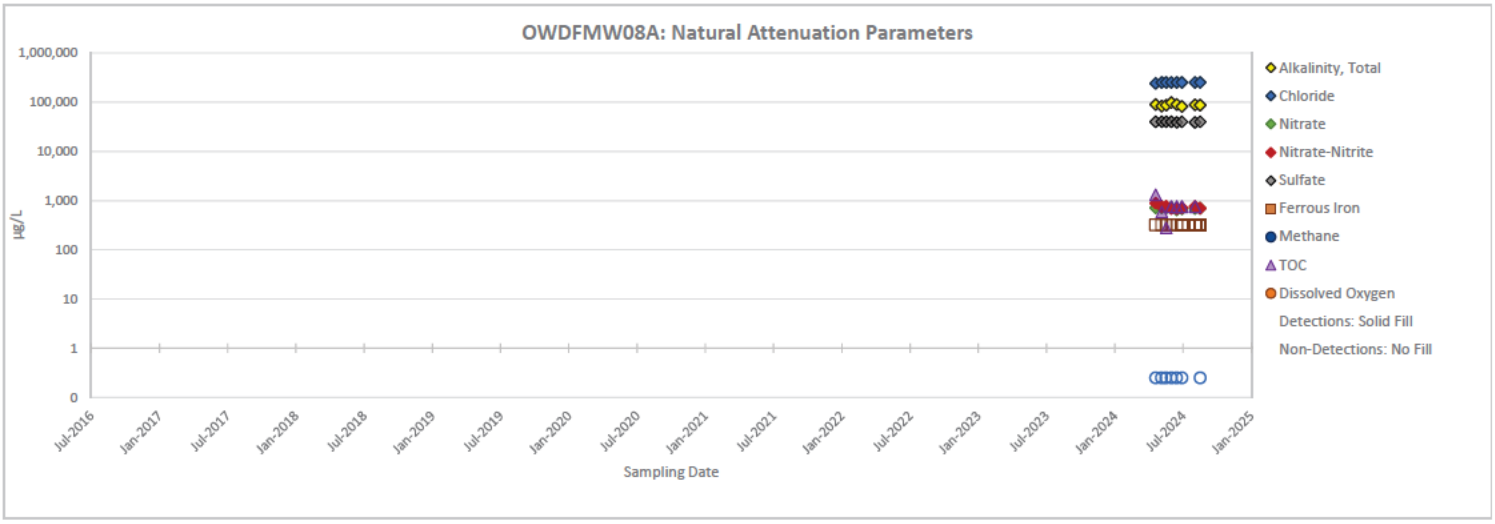
DISCLAIMER: Includes Preliminary Data Undergoing Validation - Subject to Change.

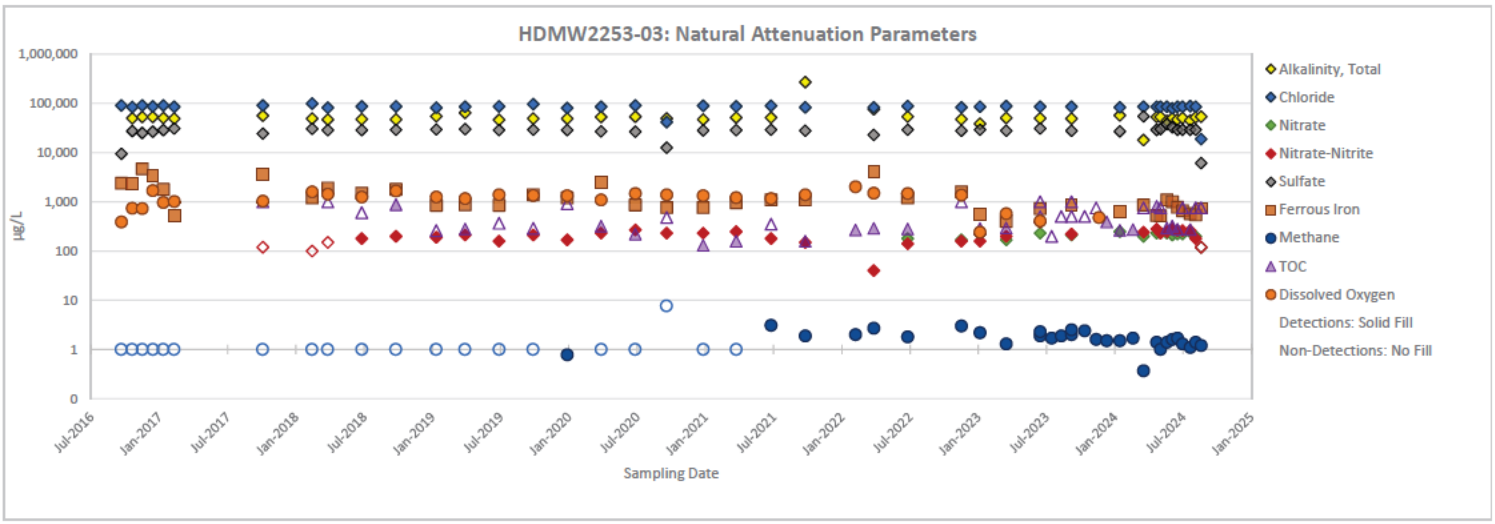


Note: See Data Legend

DISCLAIMER: Includes Preliminary Data Undergoing Validation - Subject to Change.

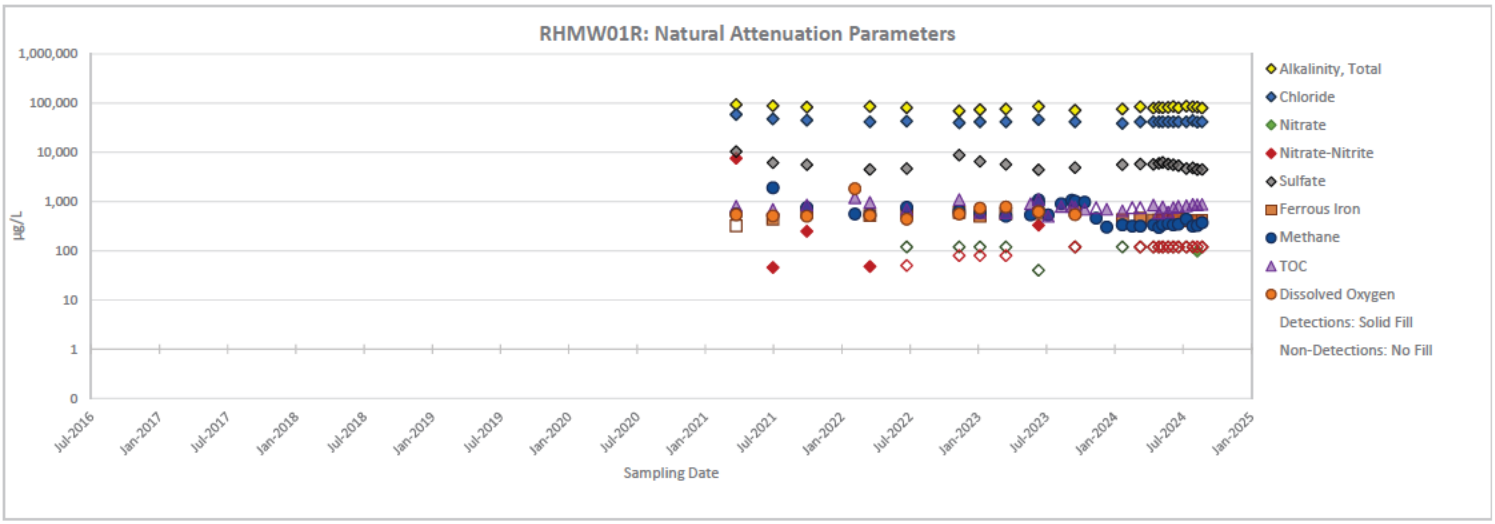


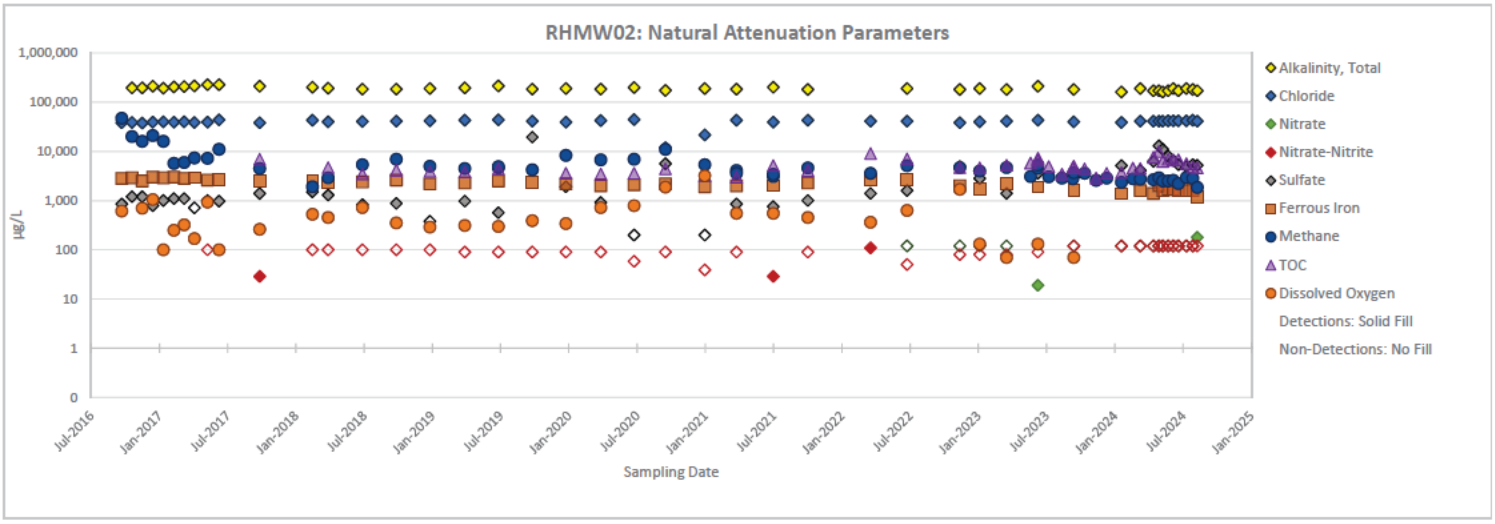


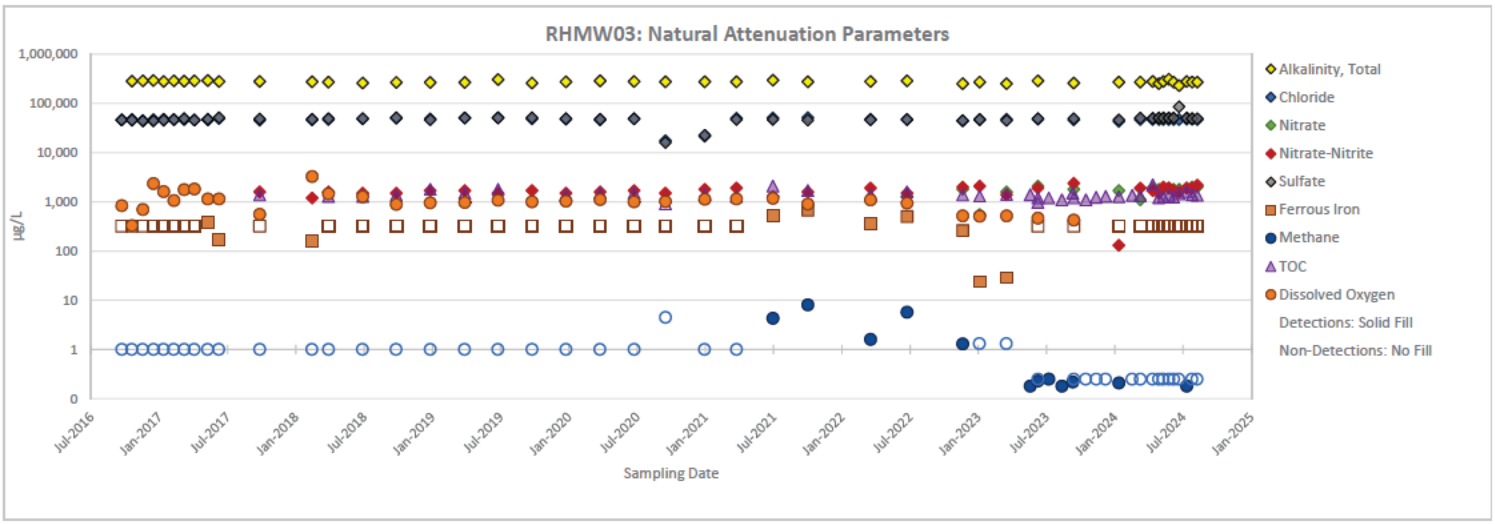


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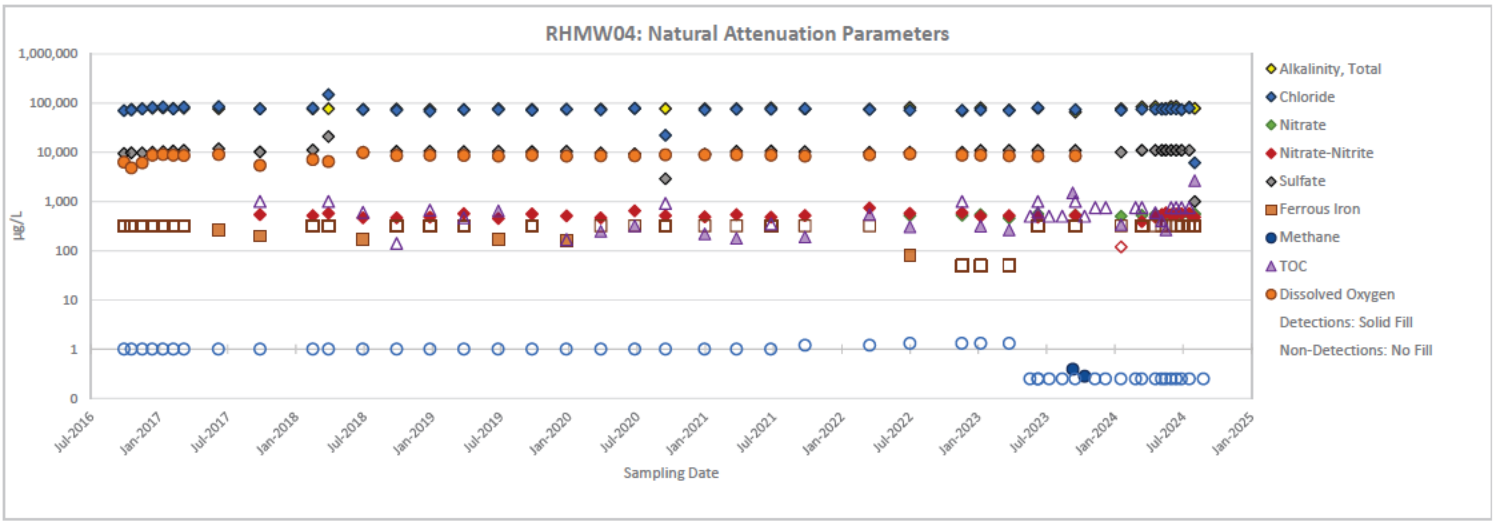


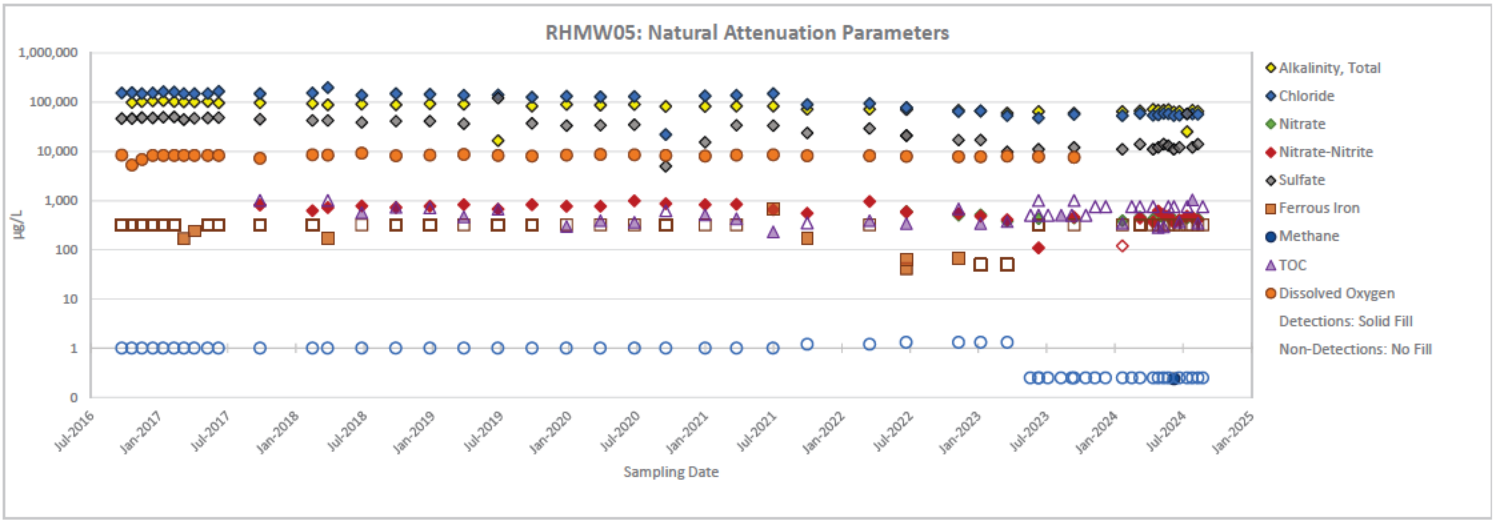


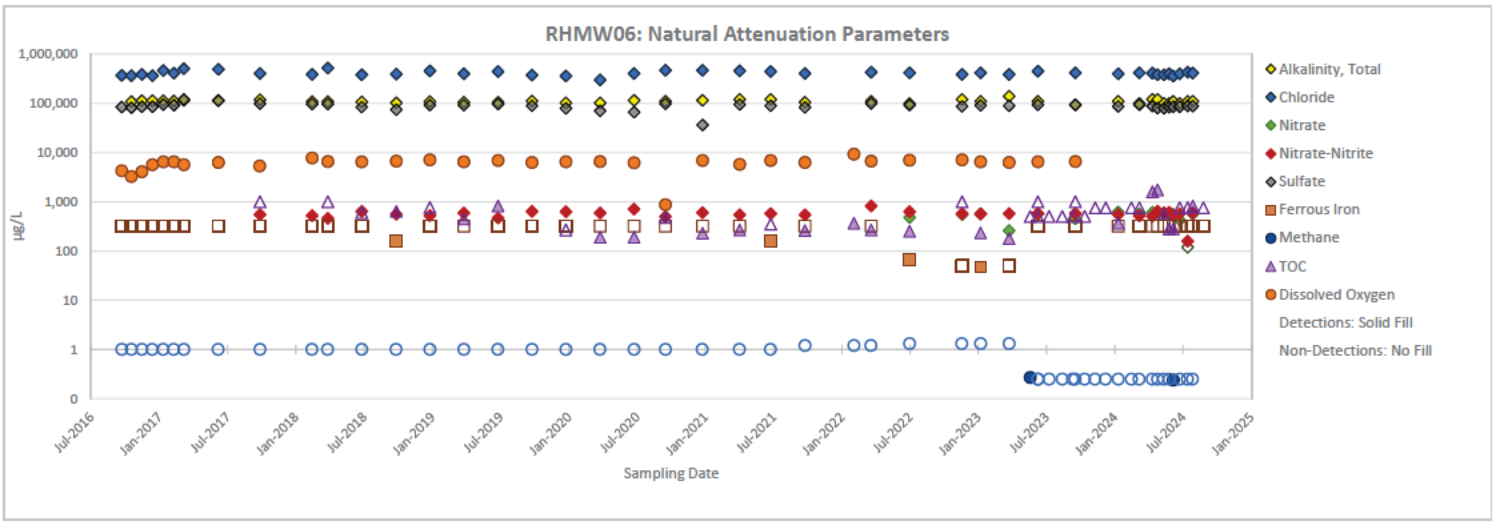


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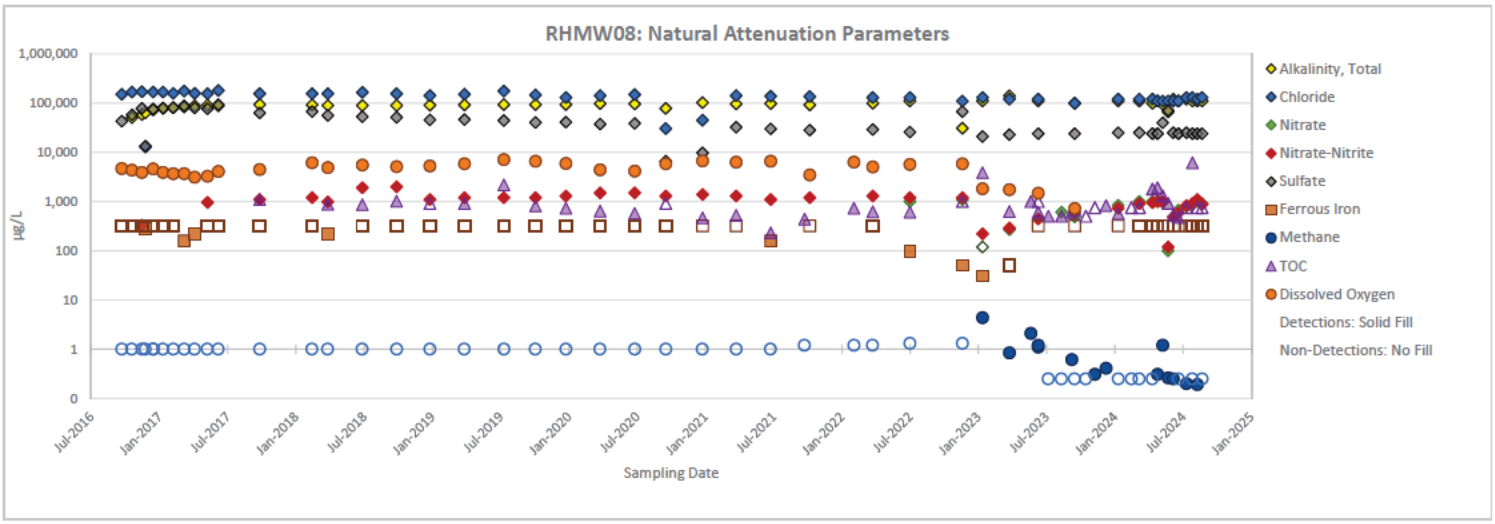


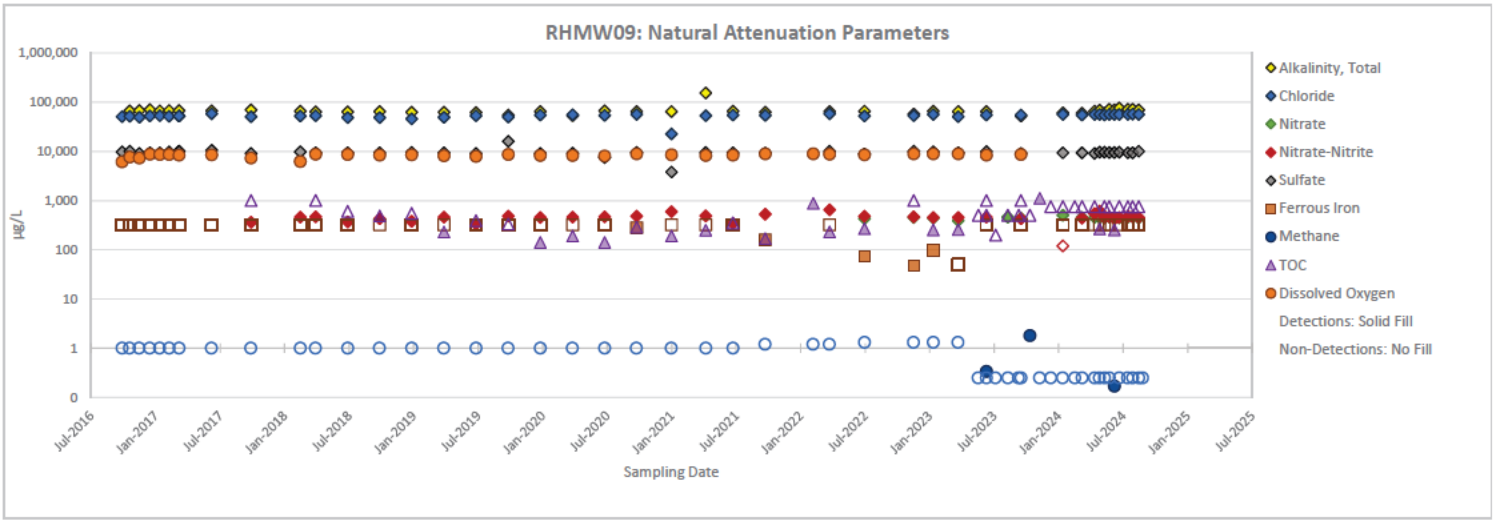


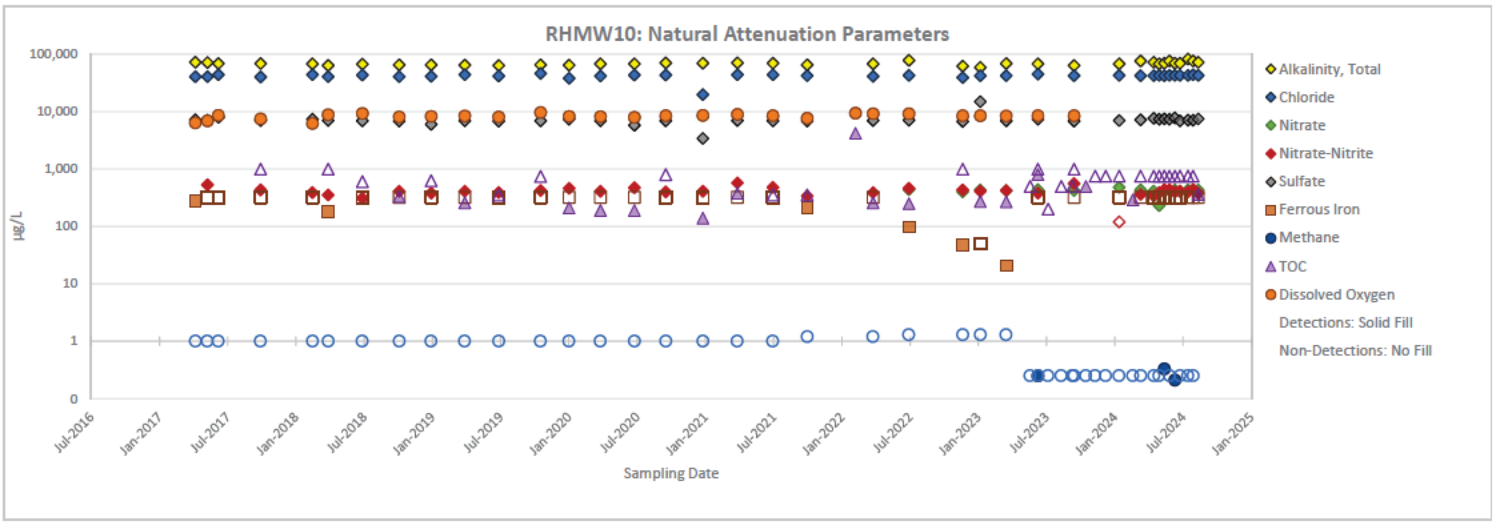


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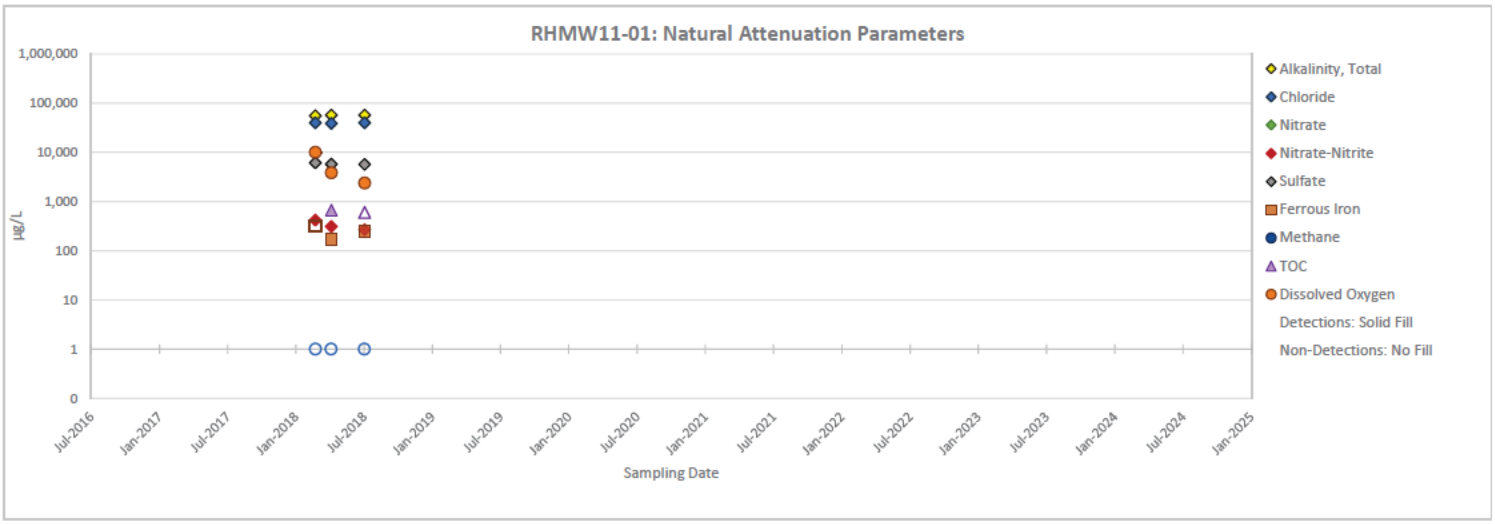


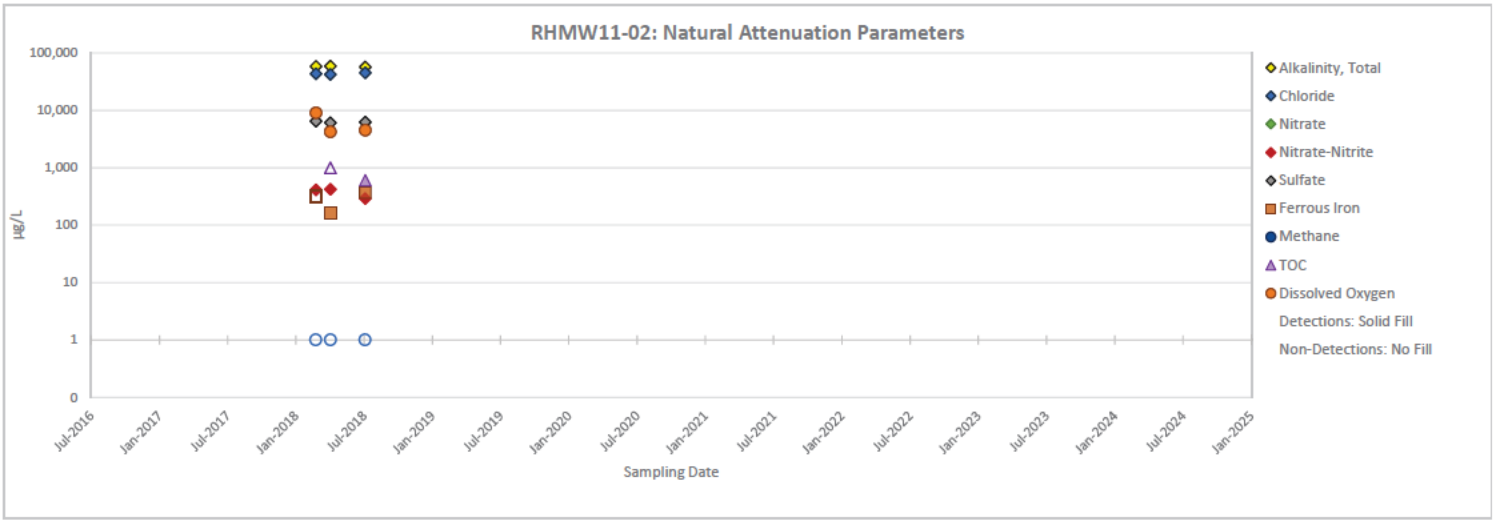


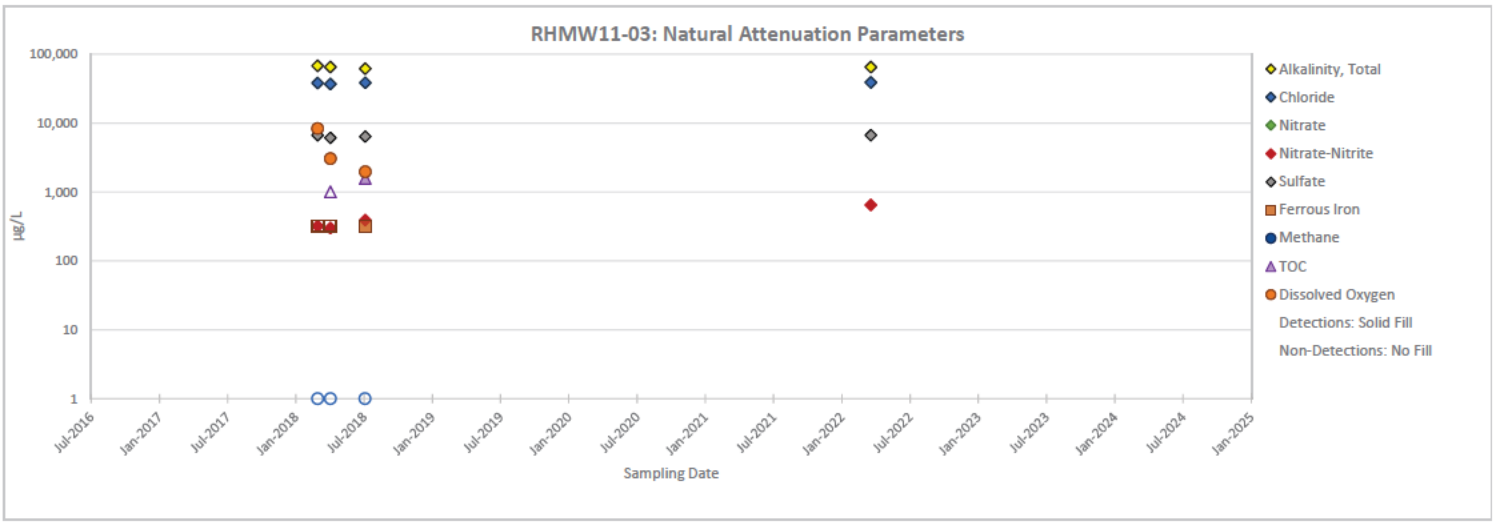


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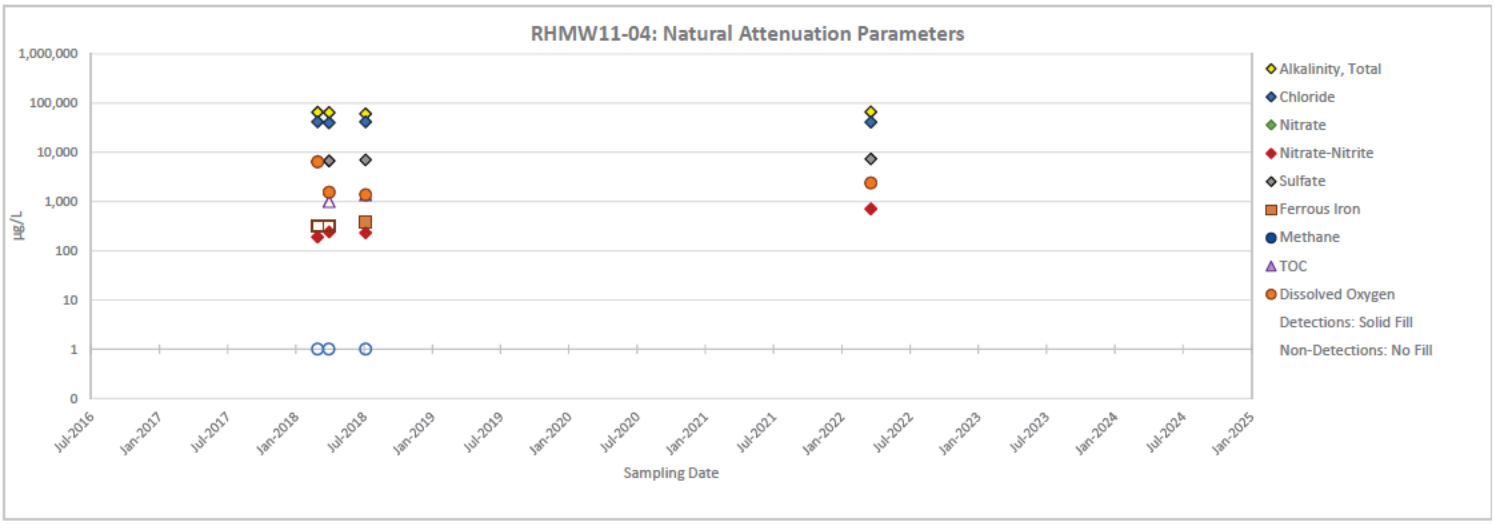


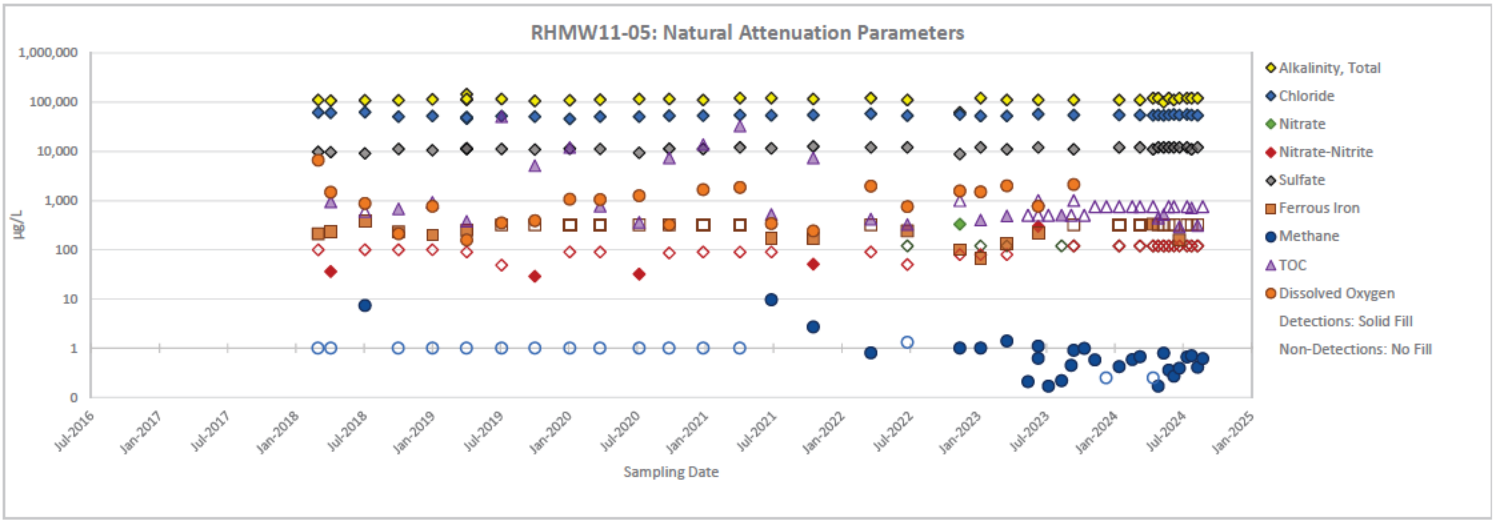


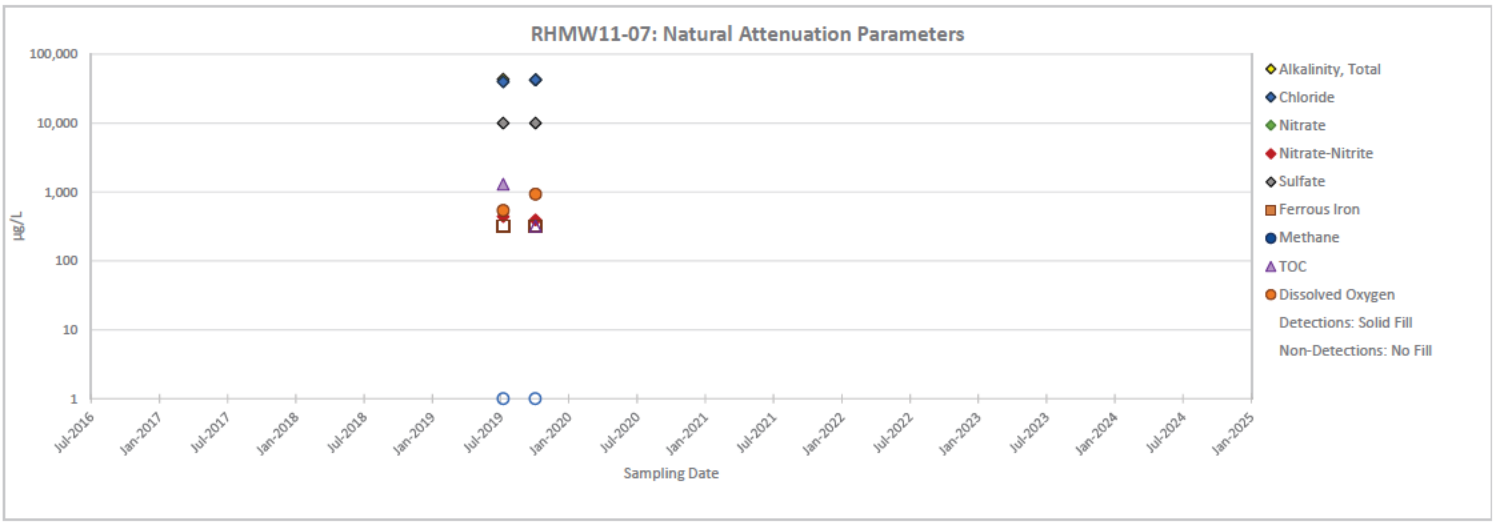


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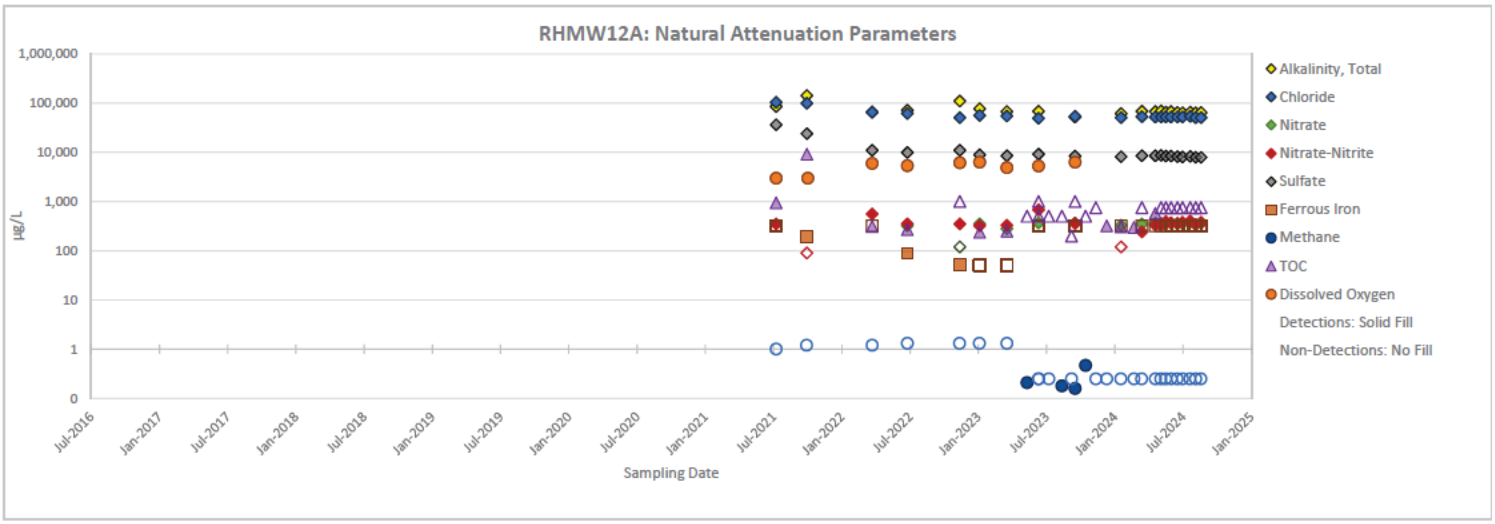


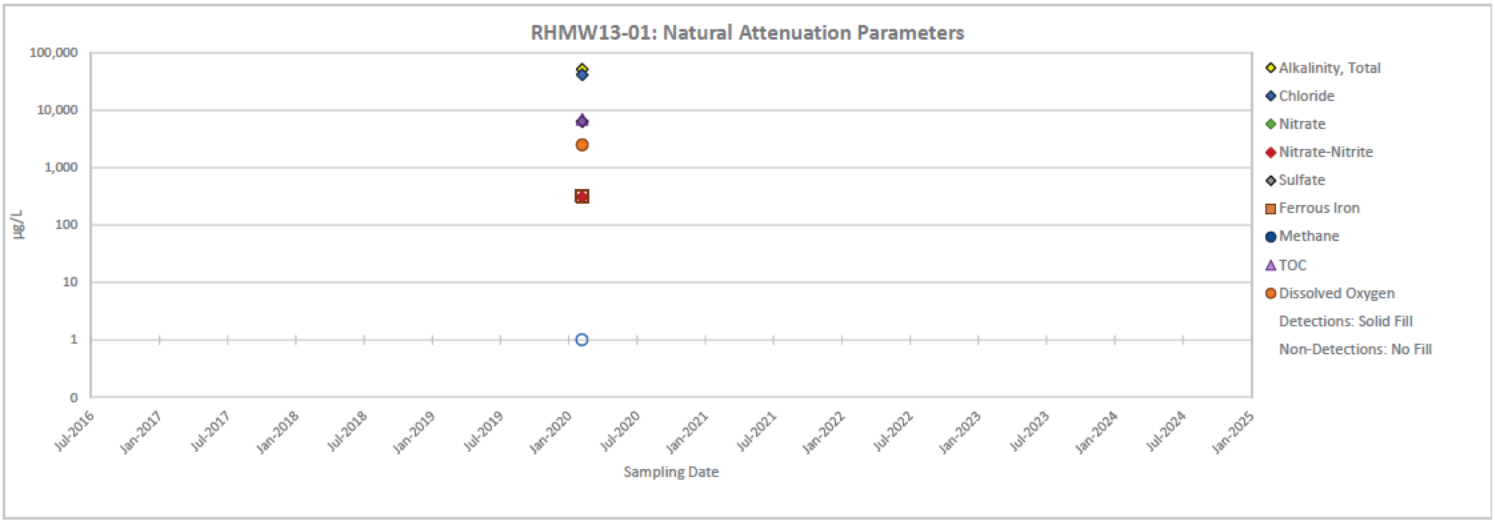


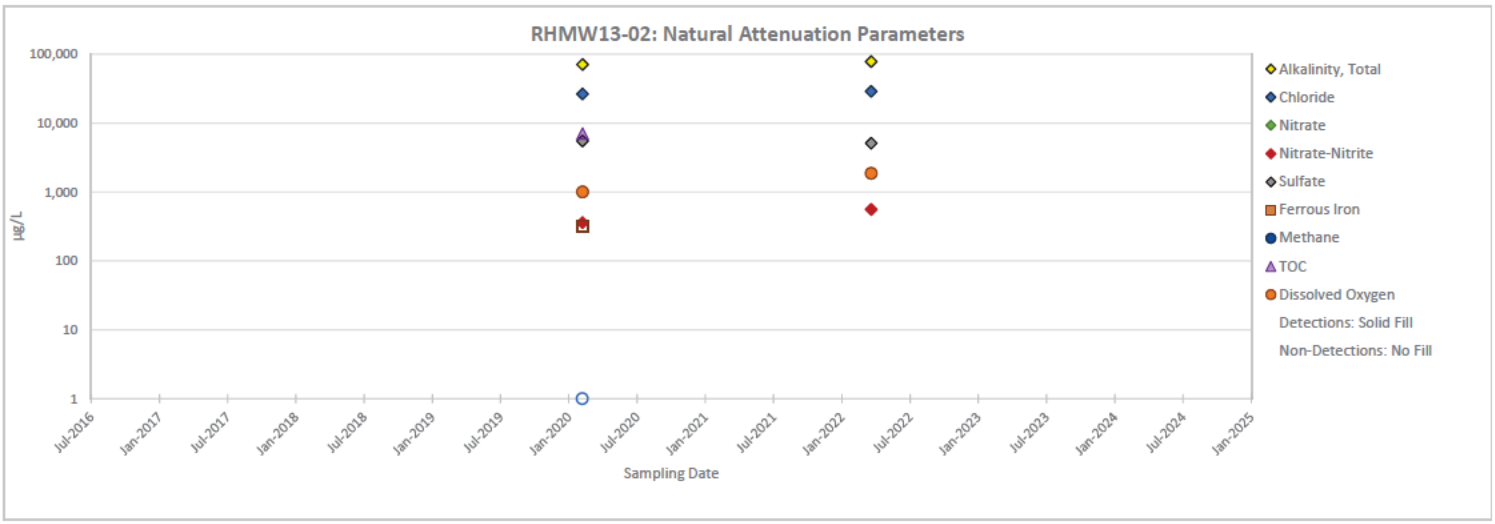


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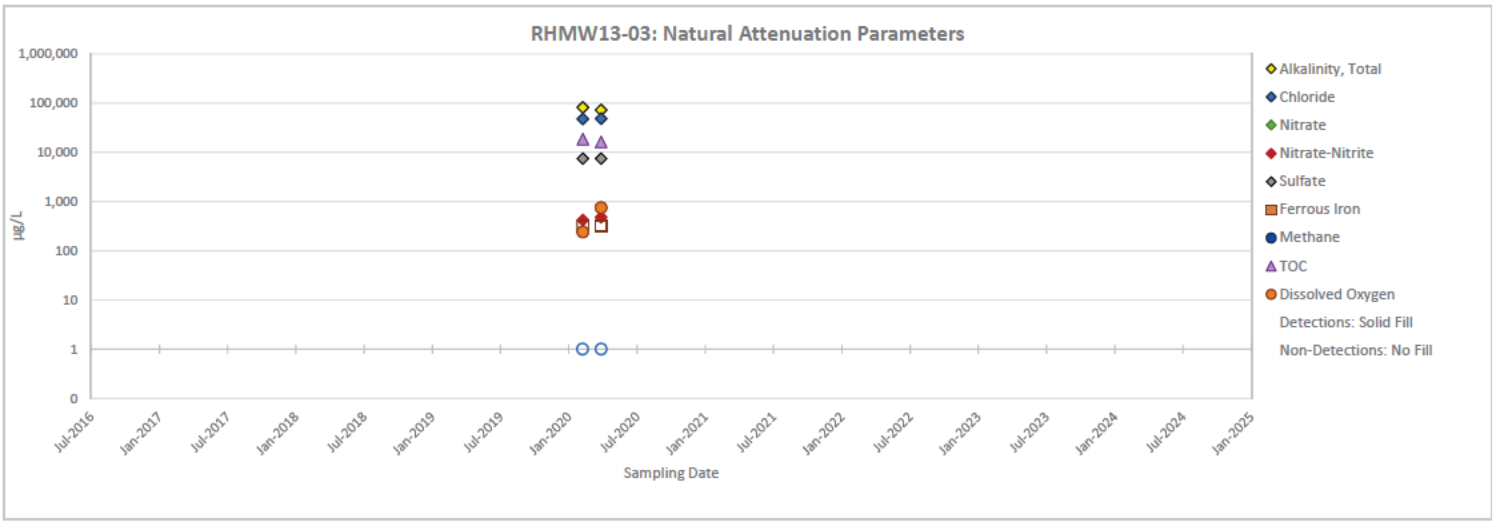


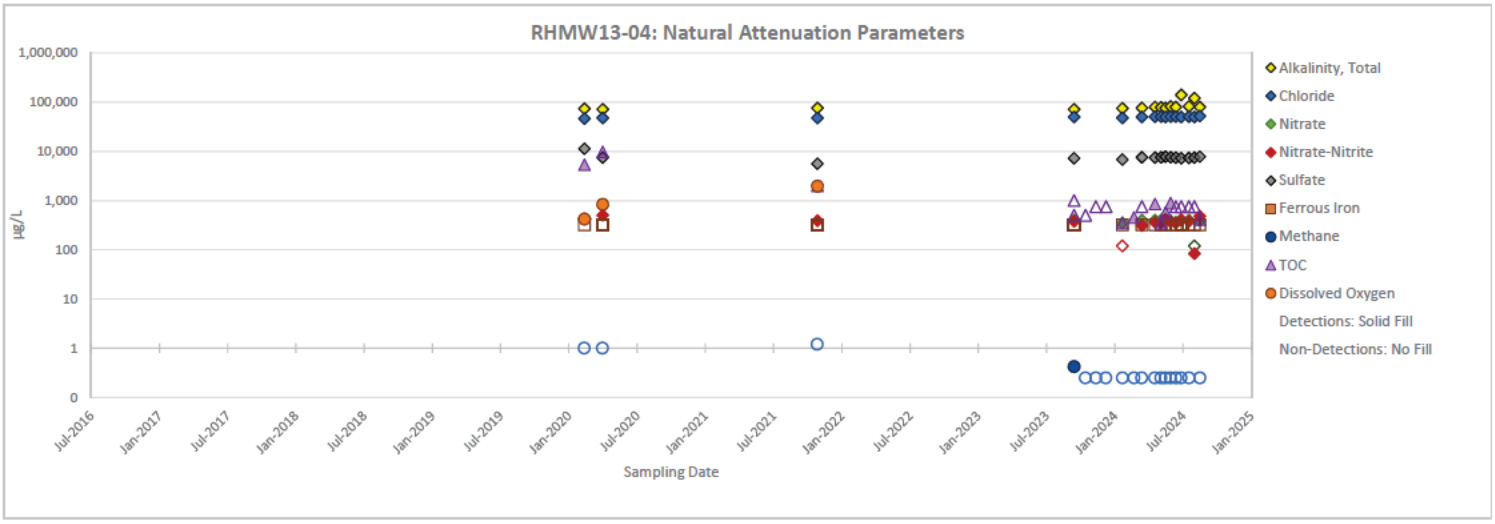


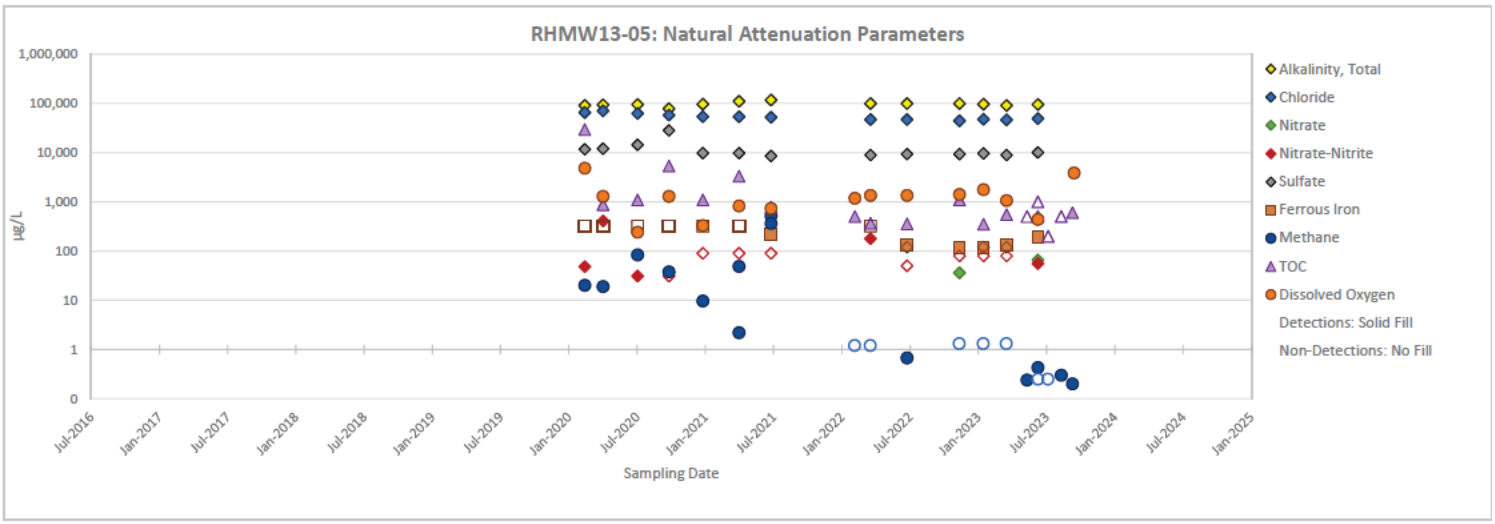


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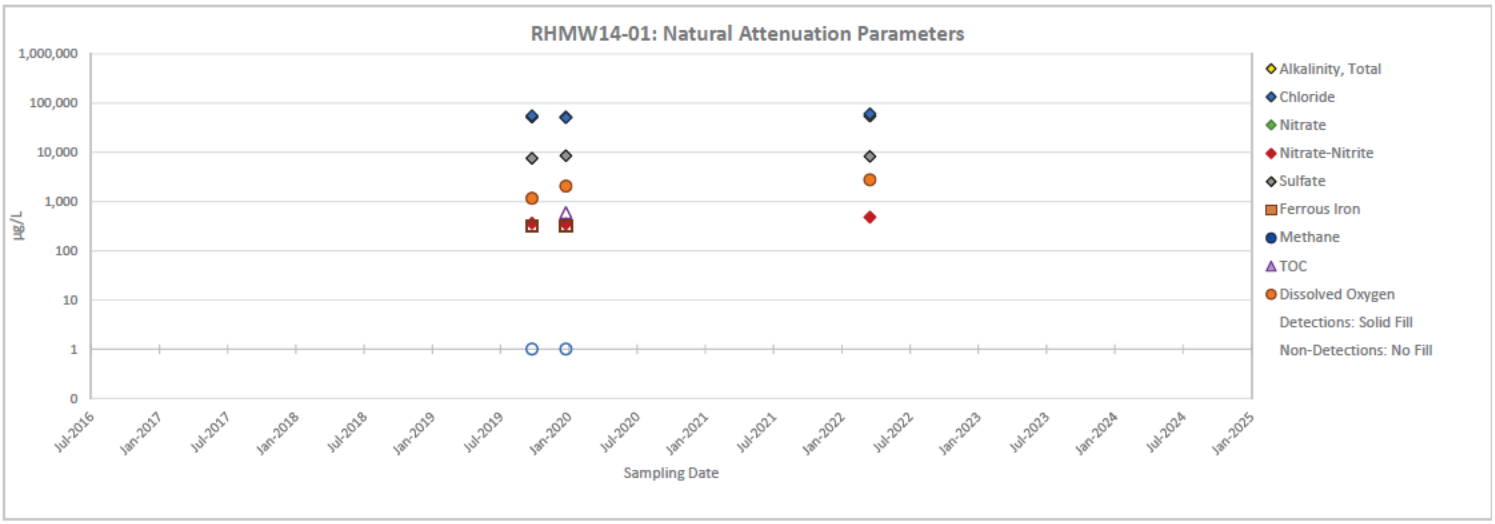


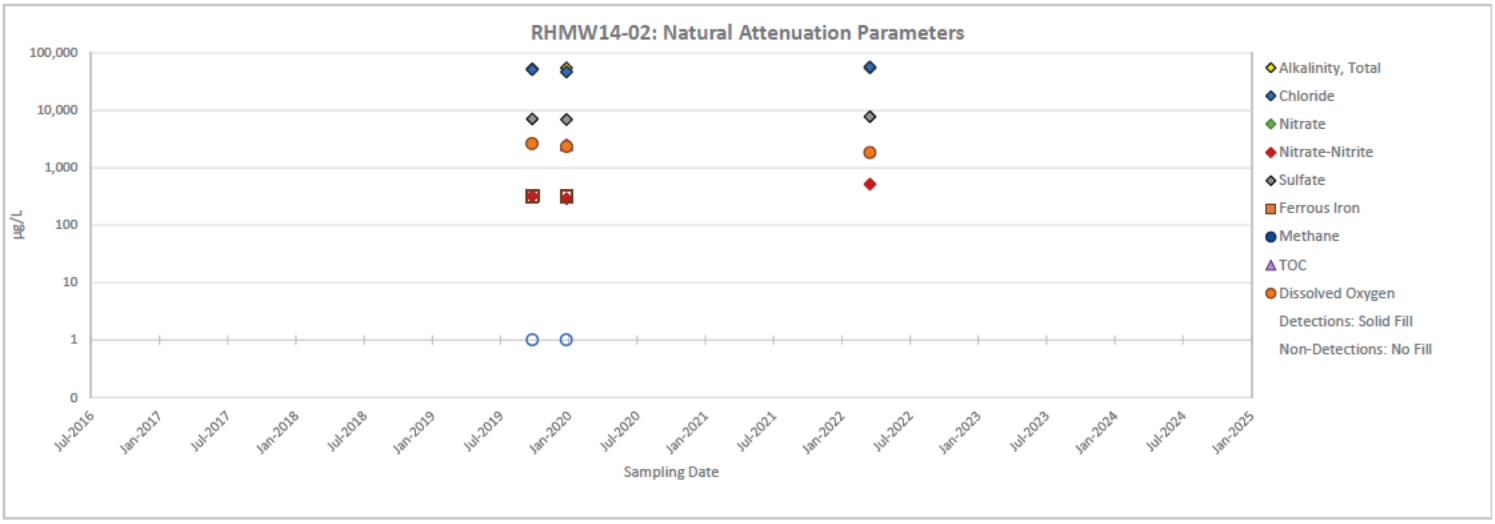


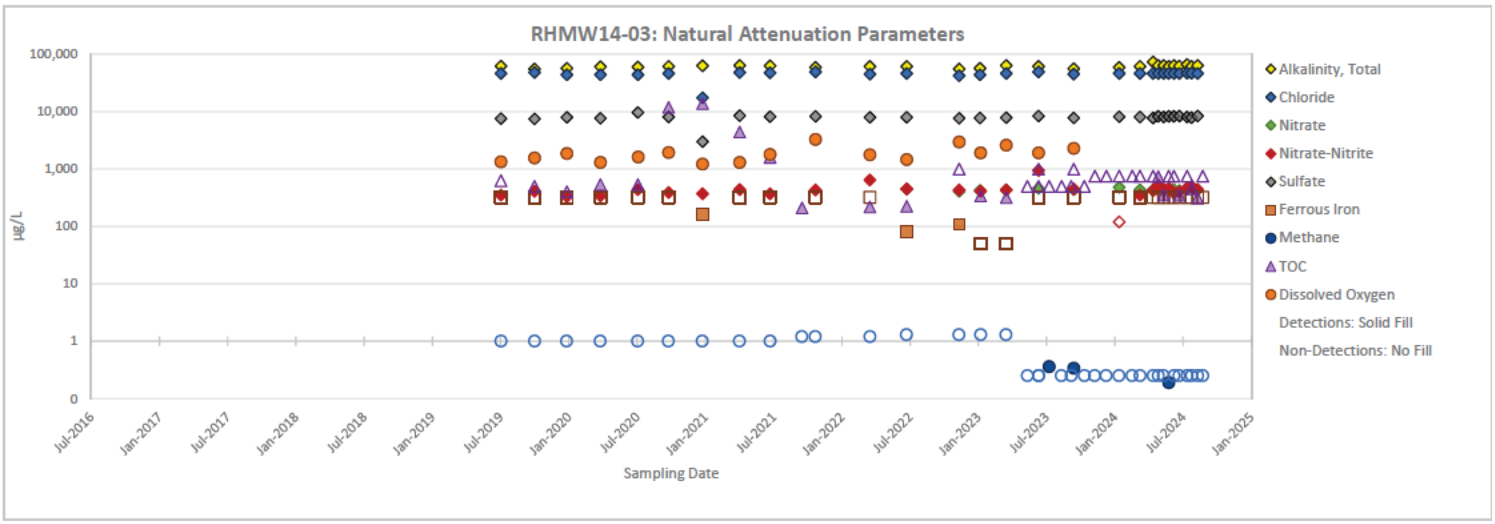


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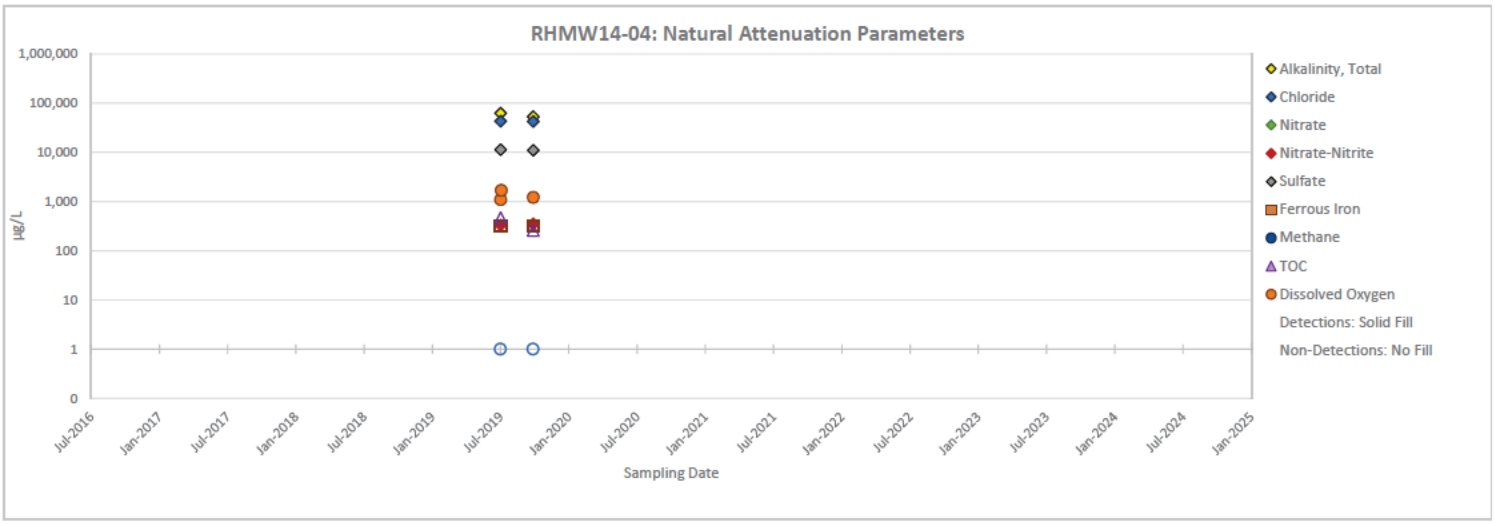


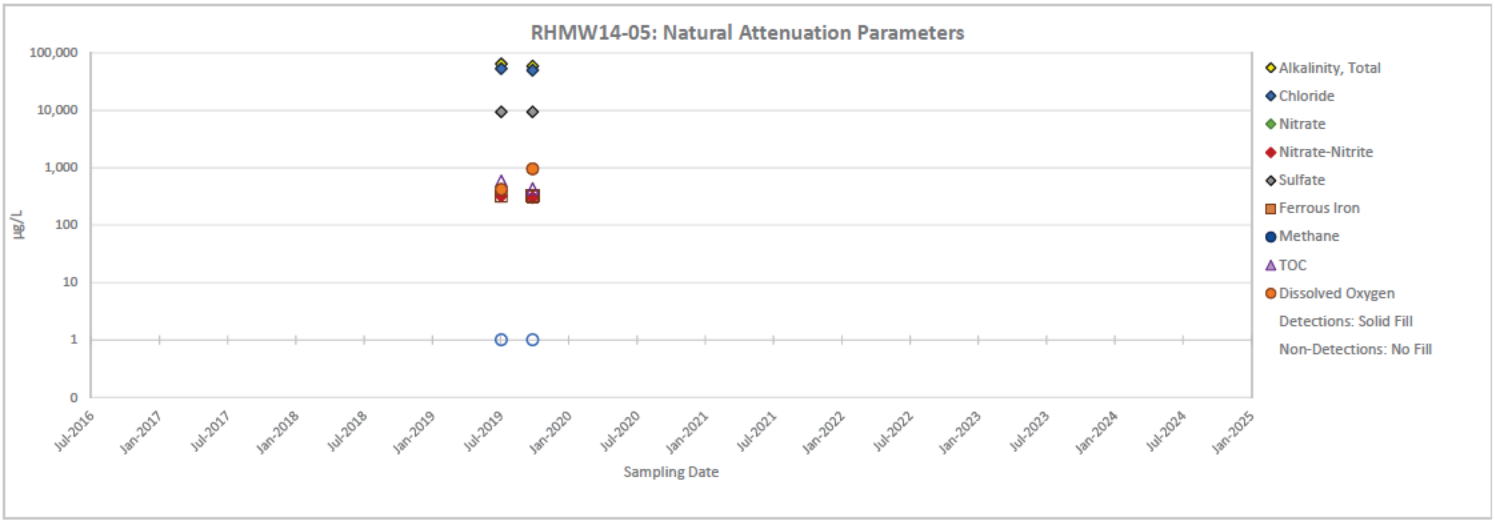


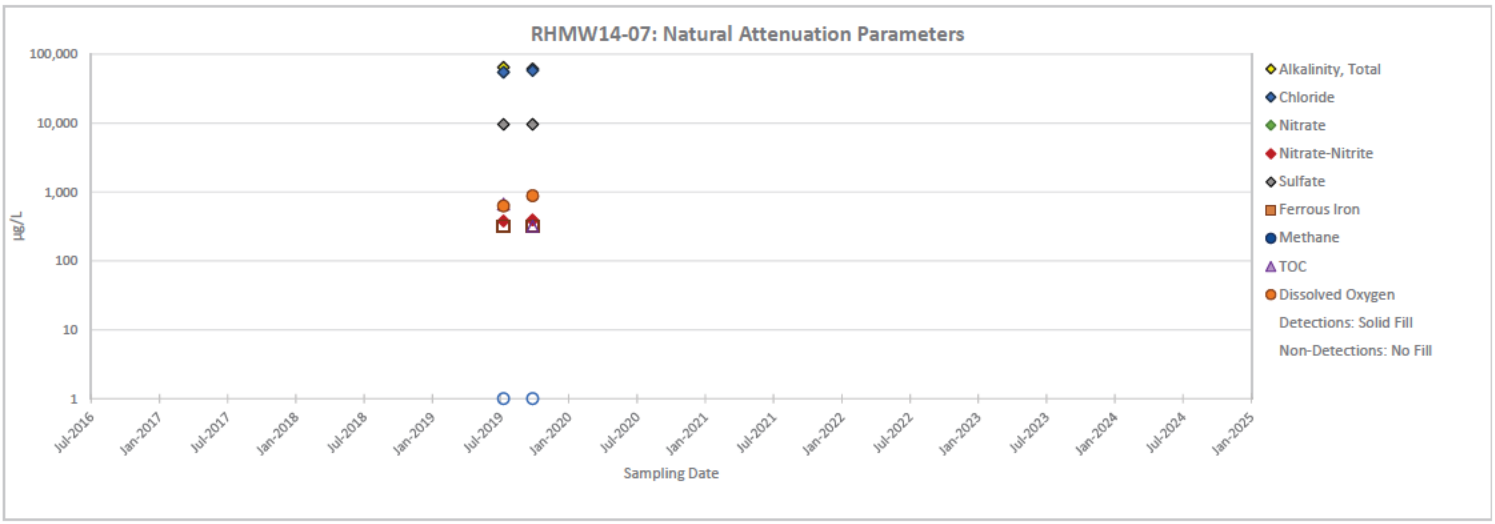


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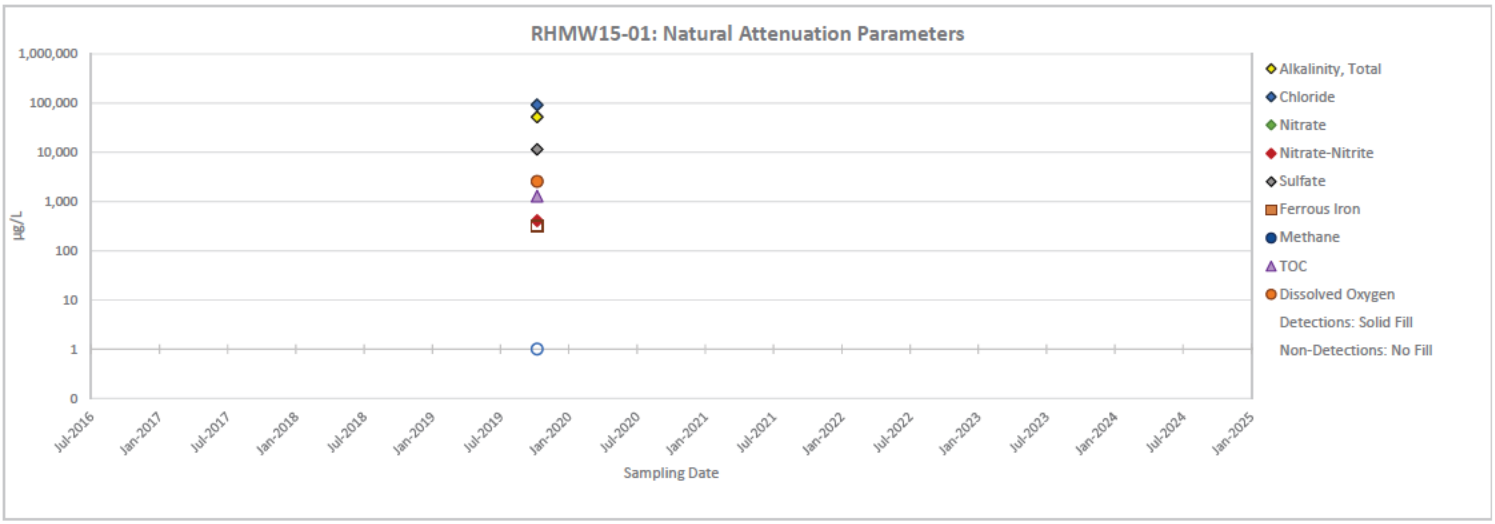


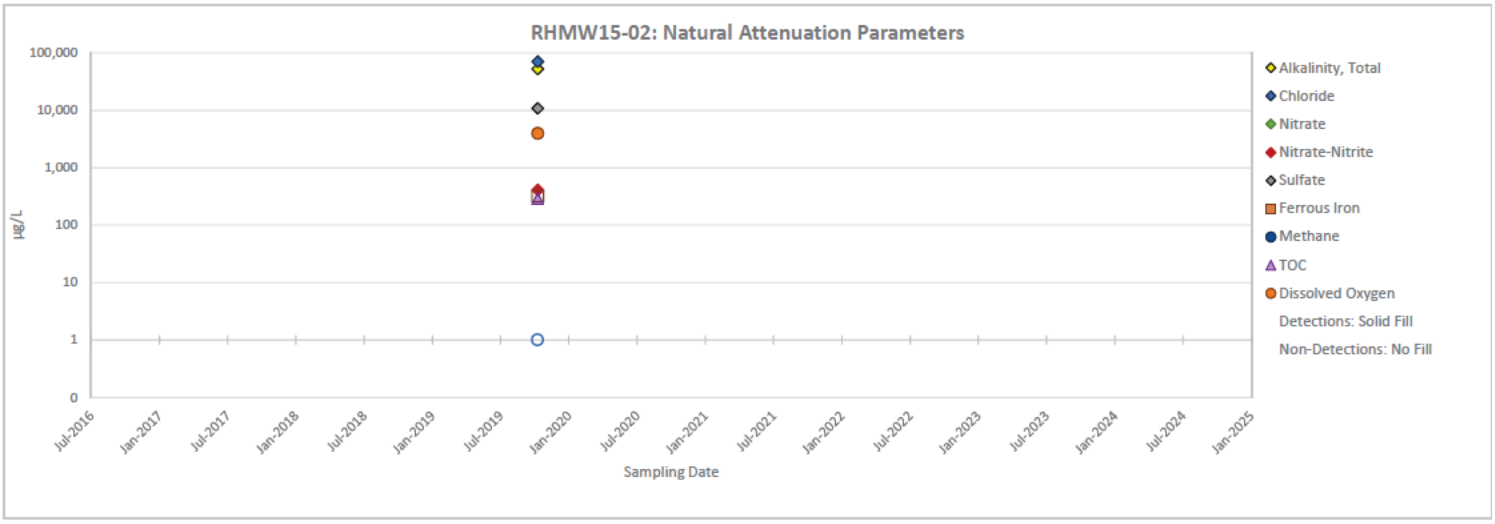


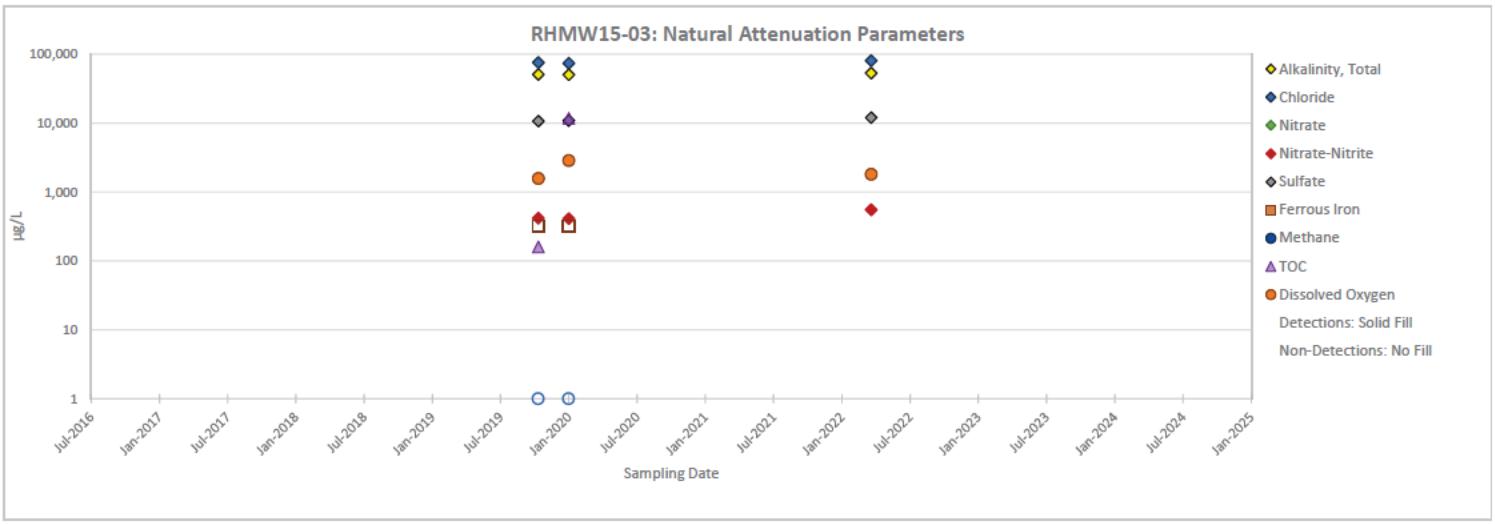


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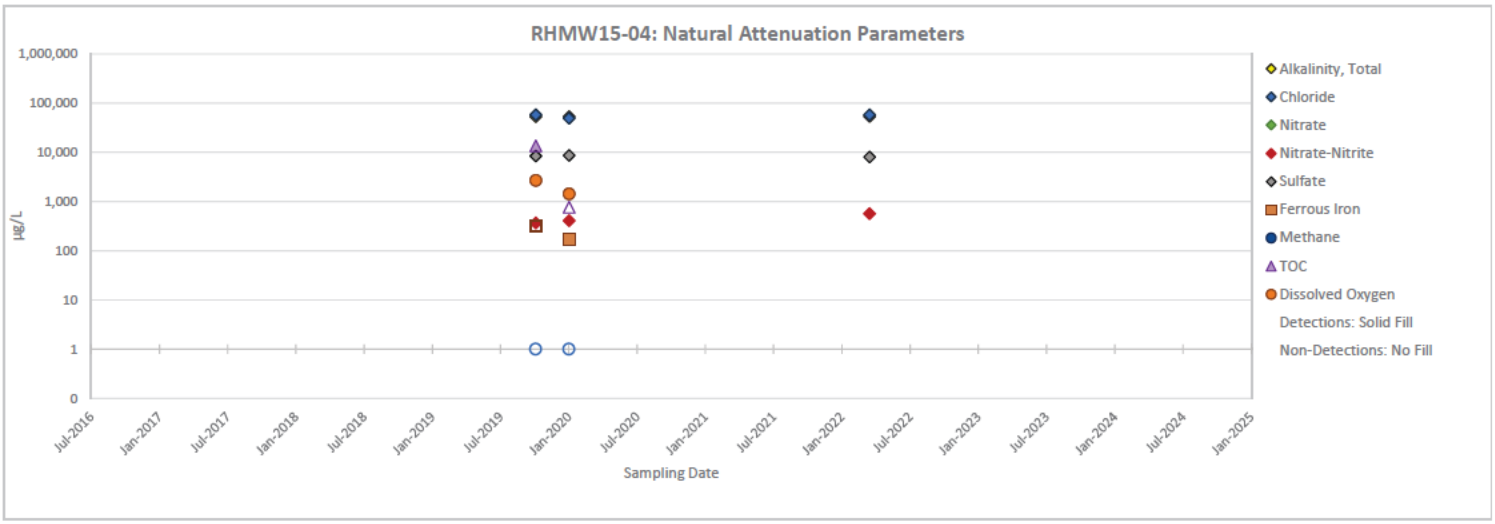


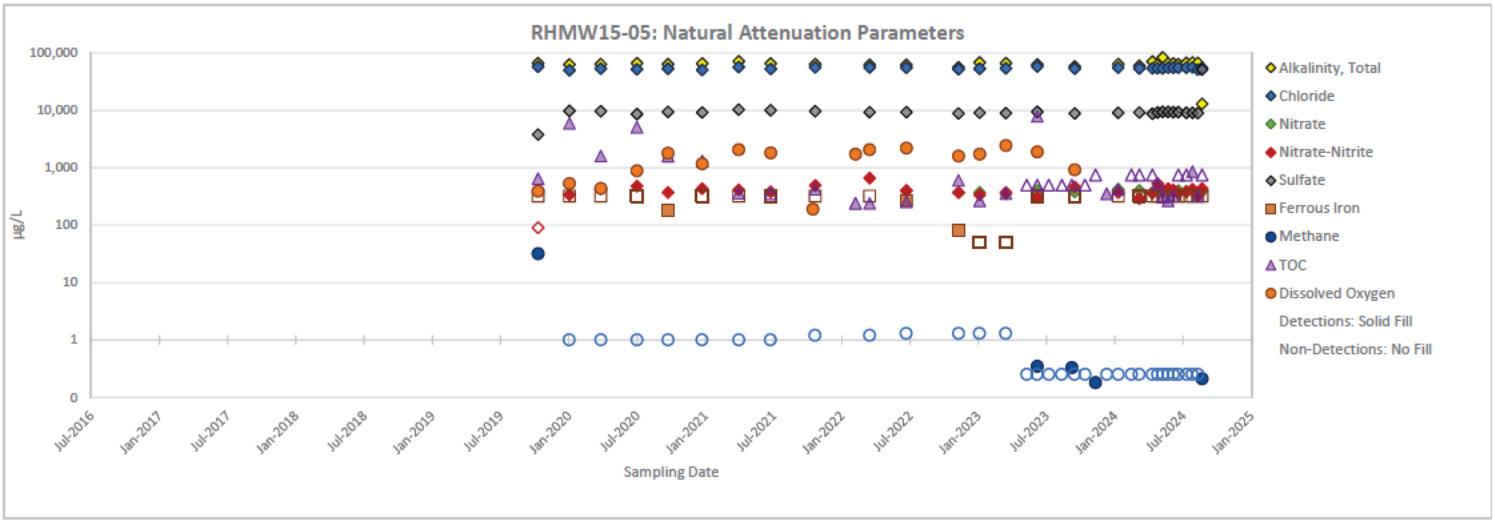


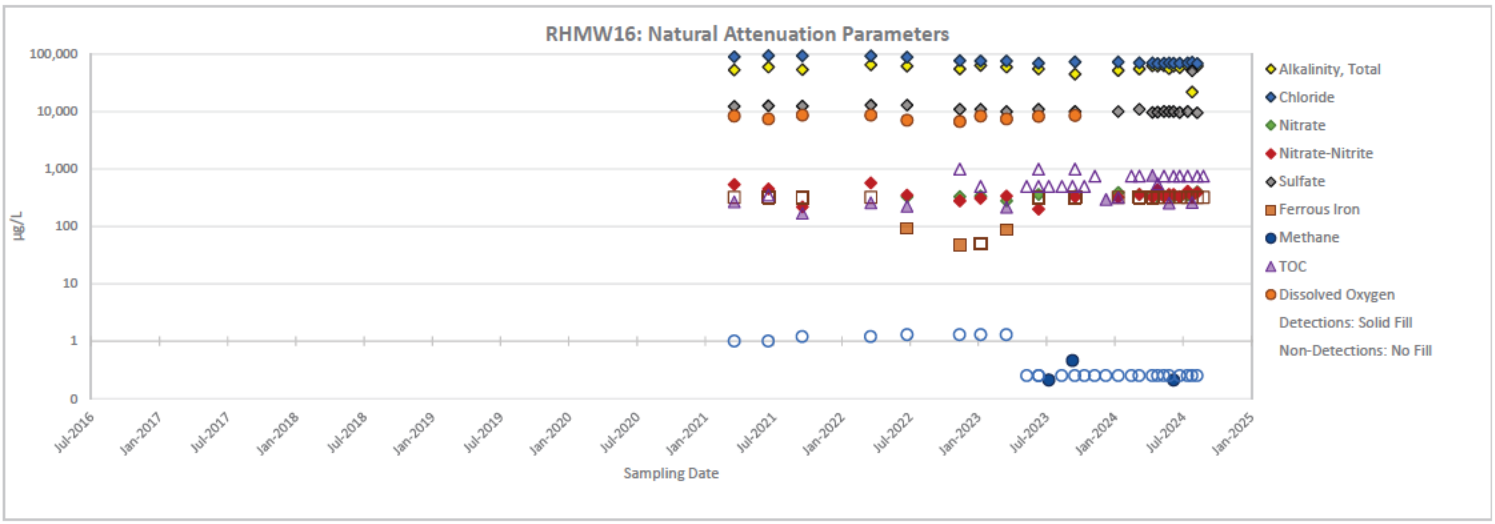


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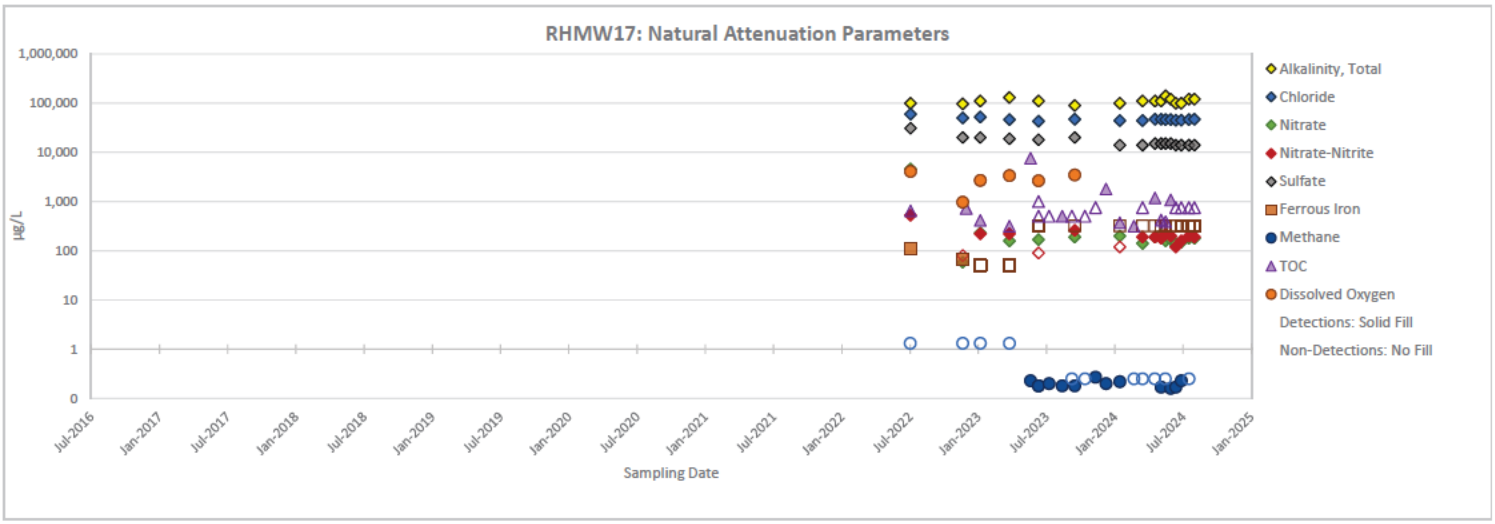


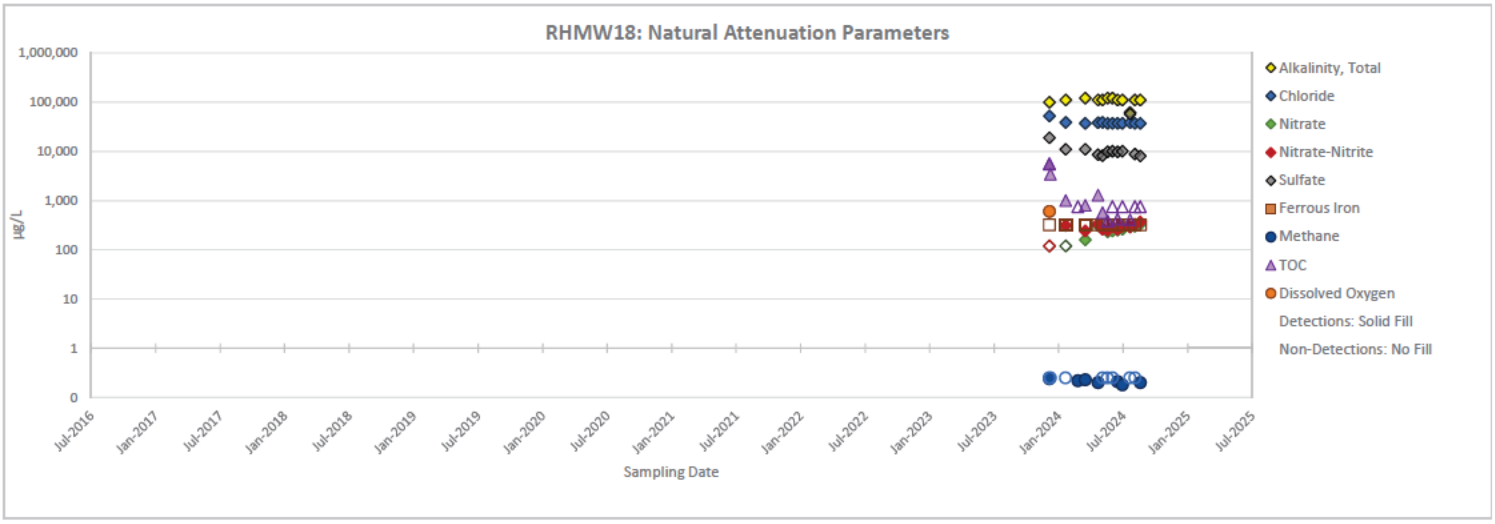


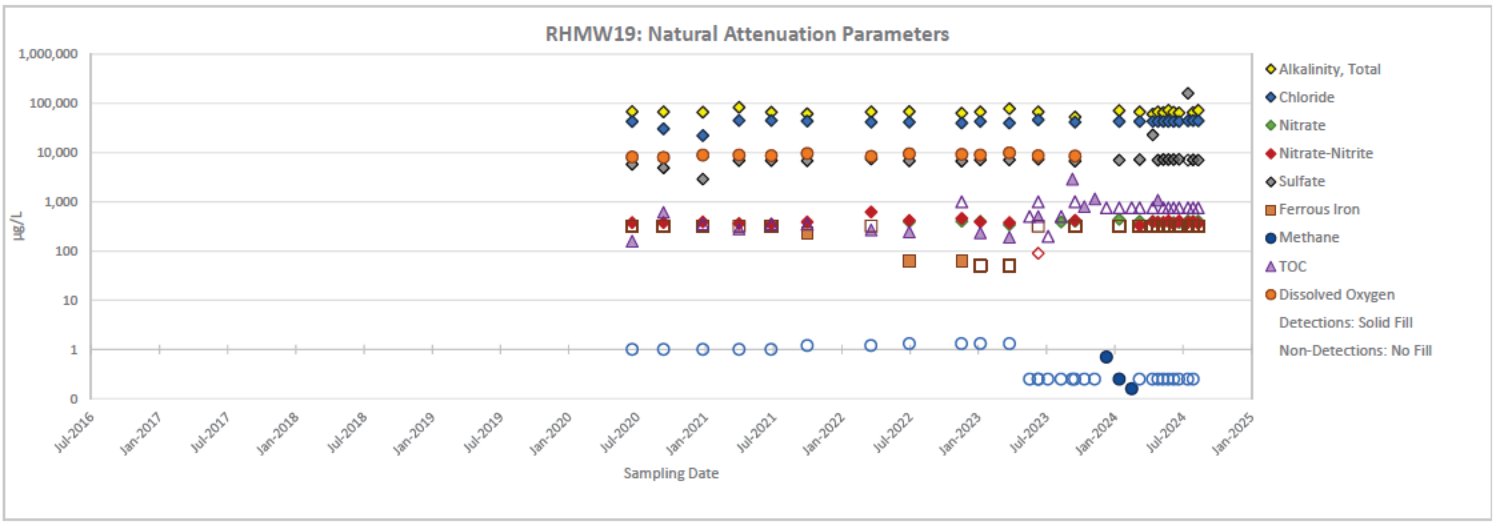


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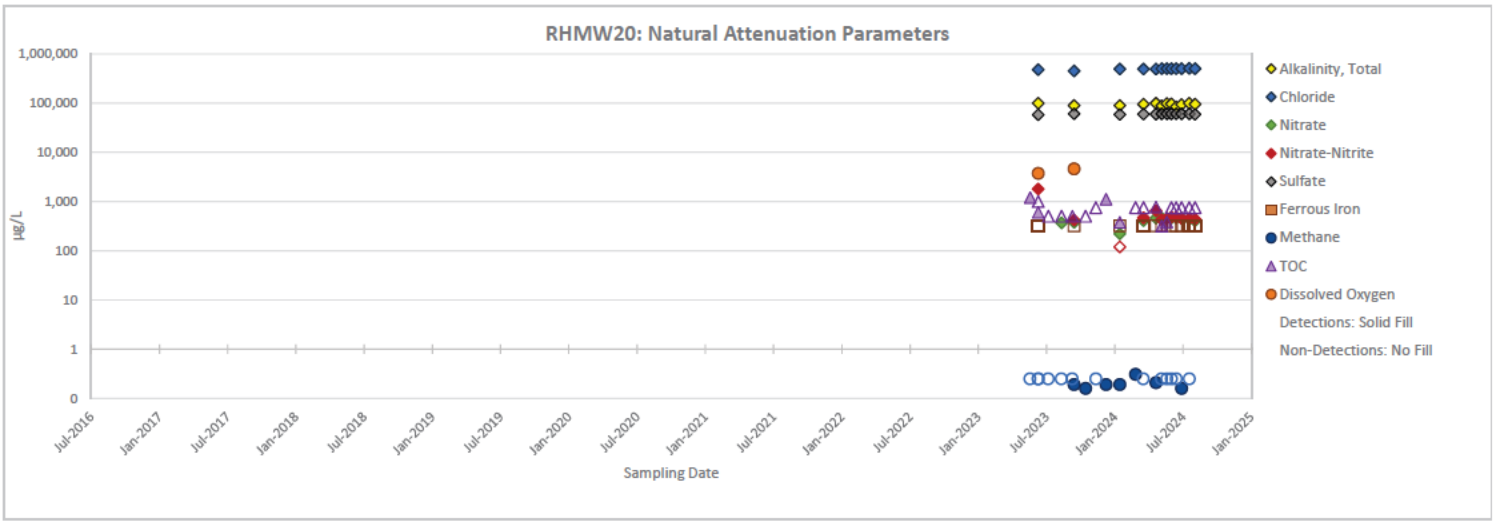


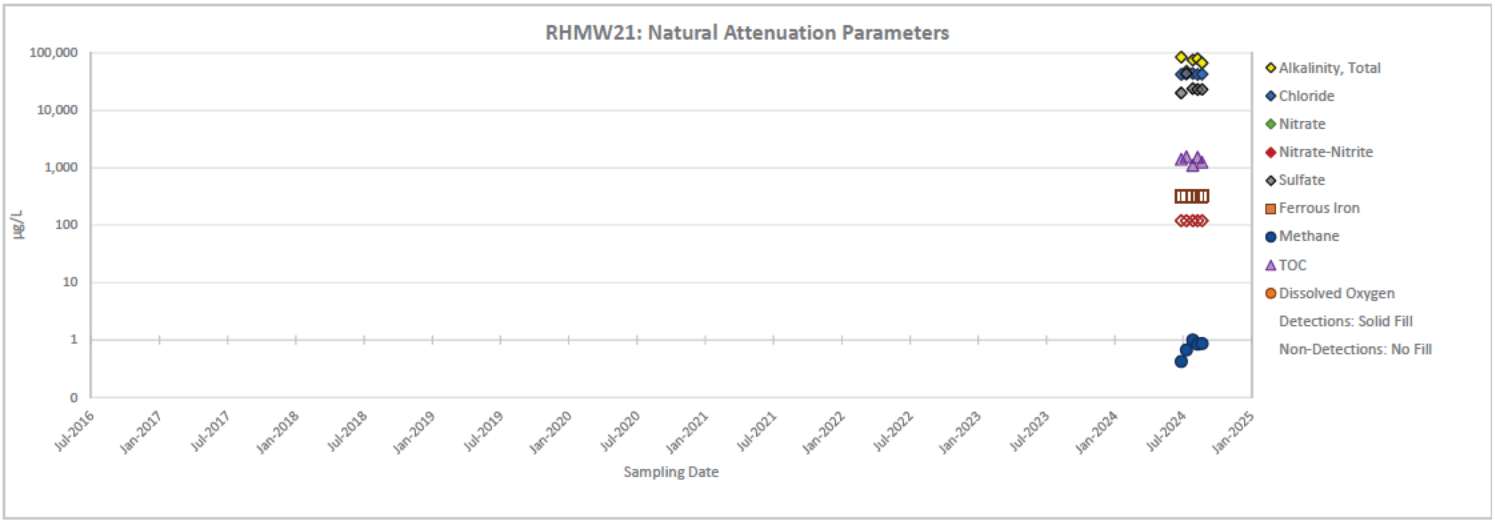


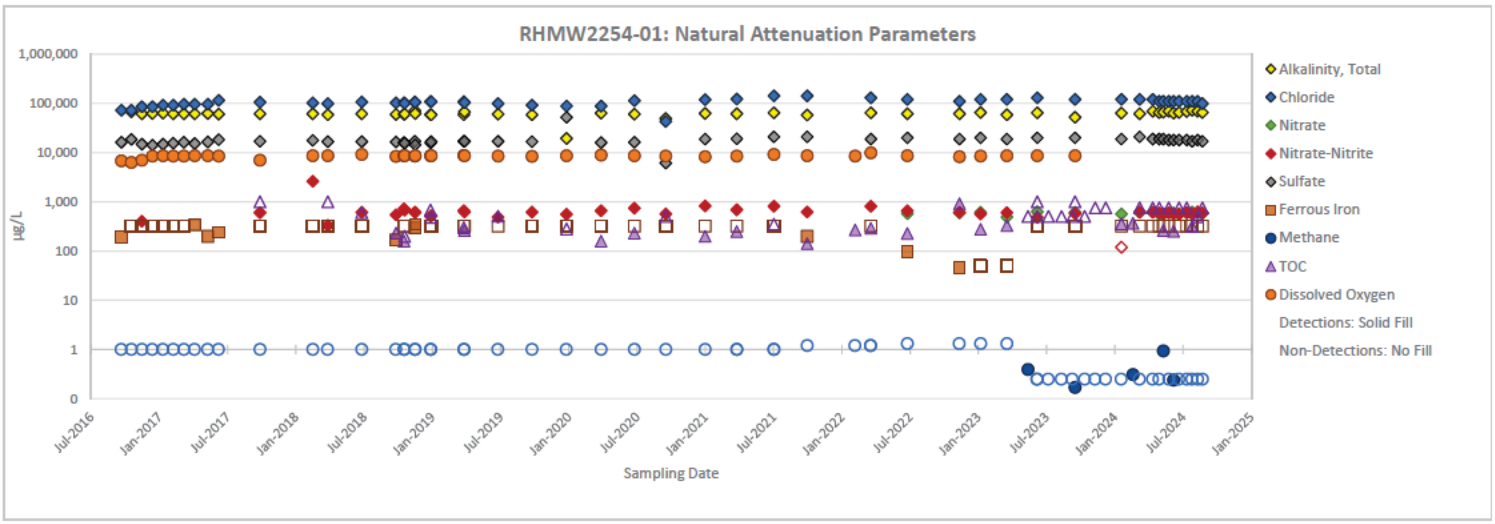


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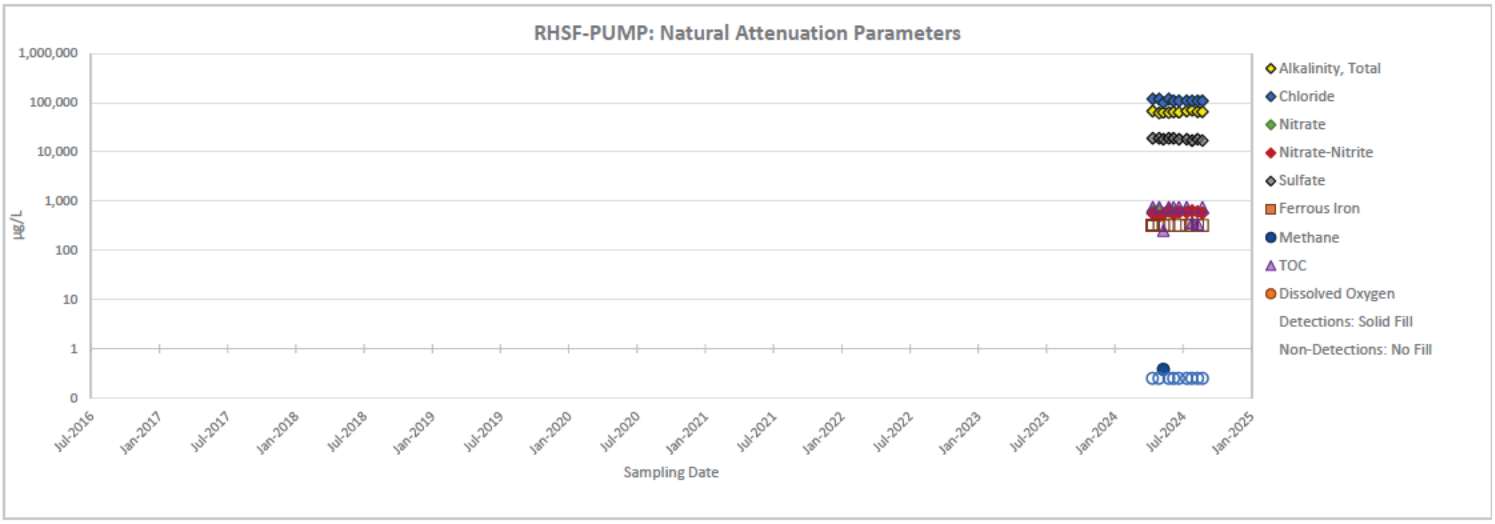






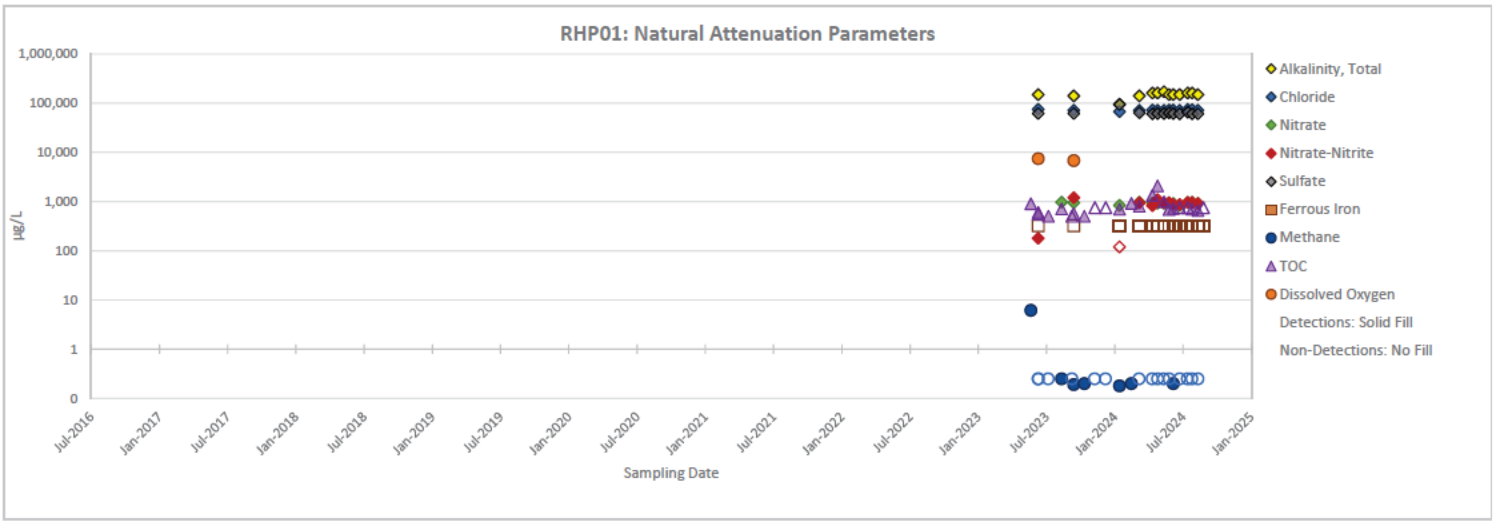
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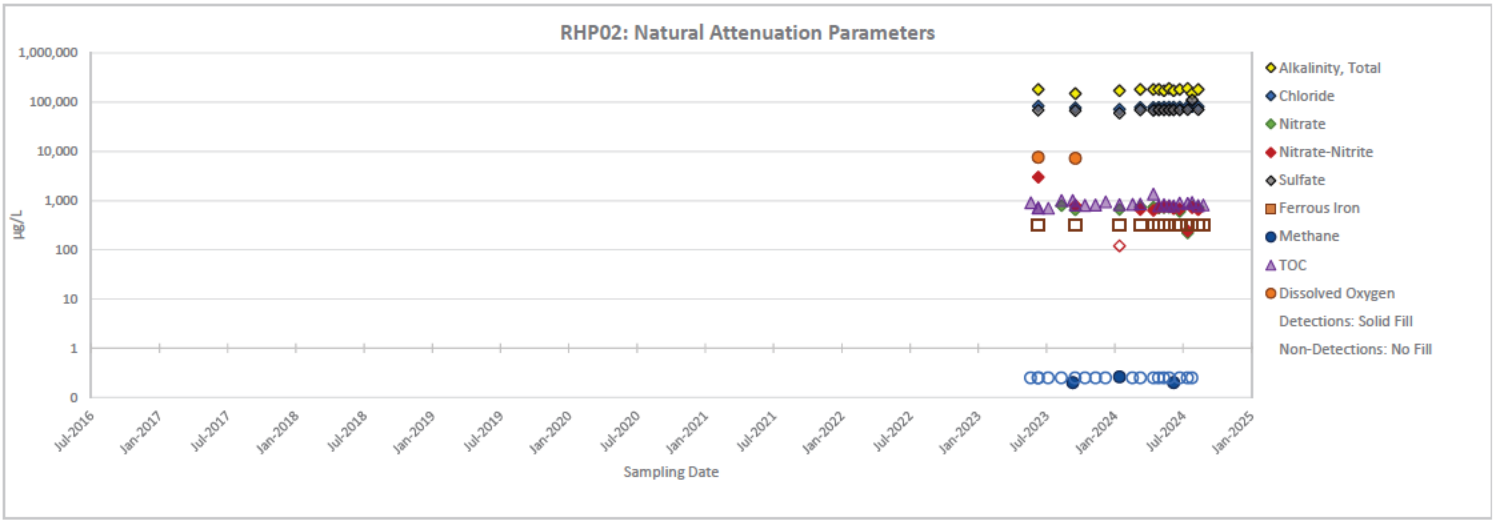
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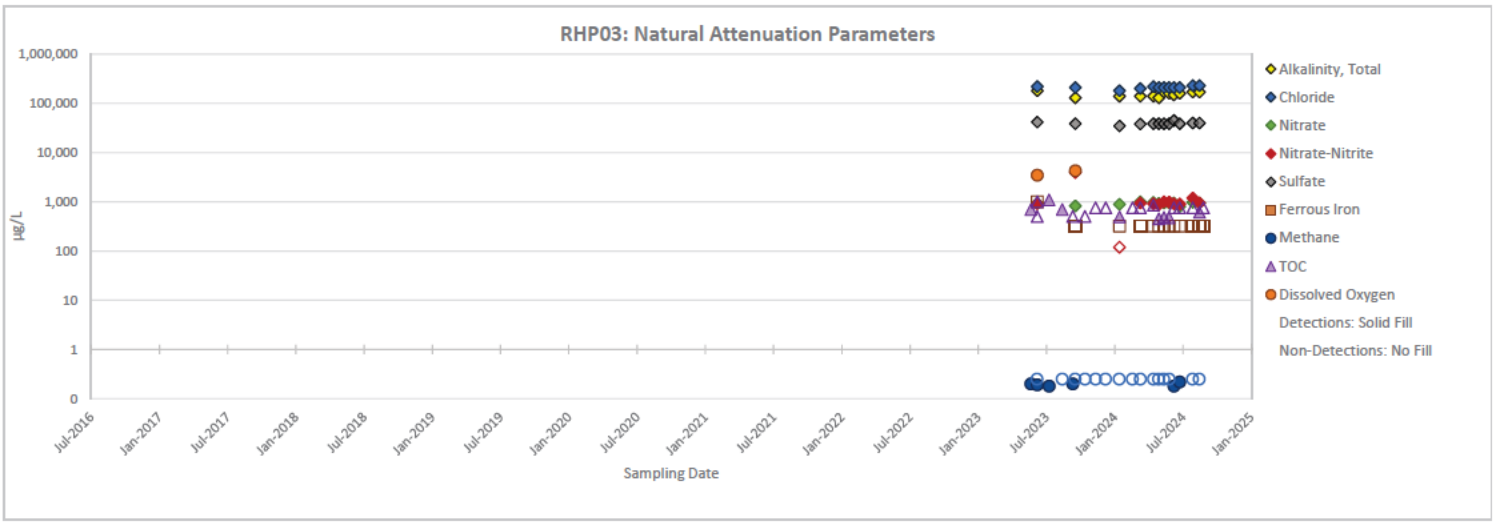


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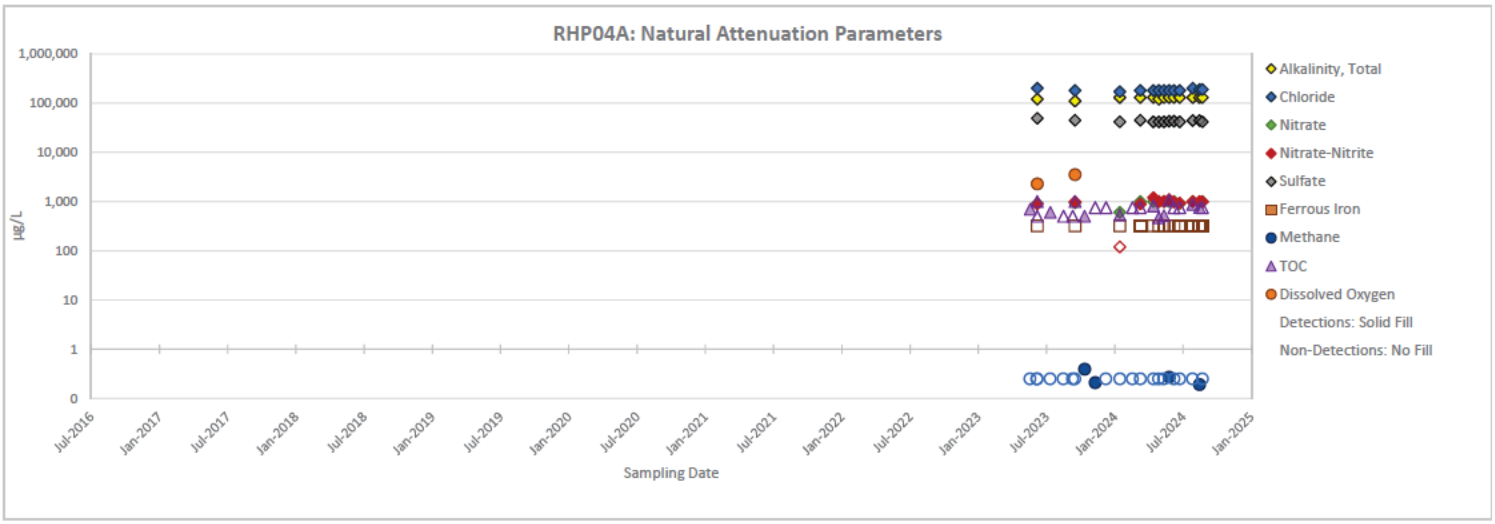


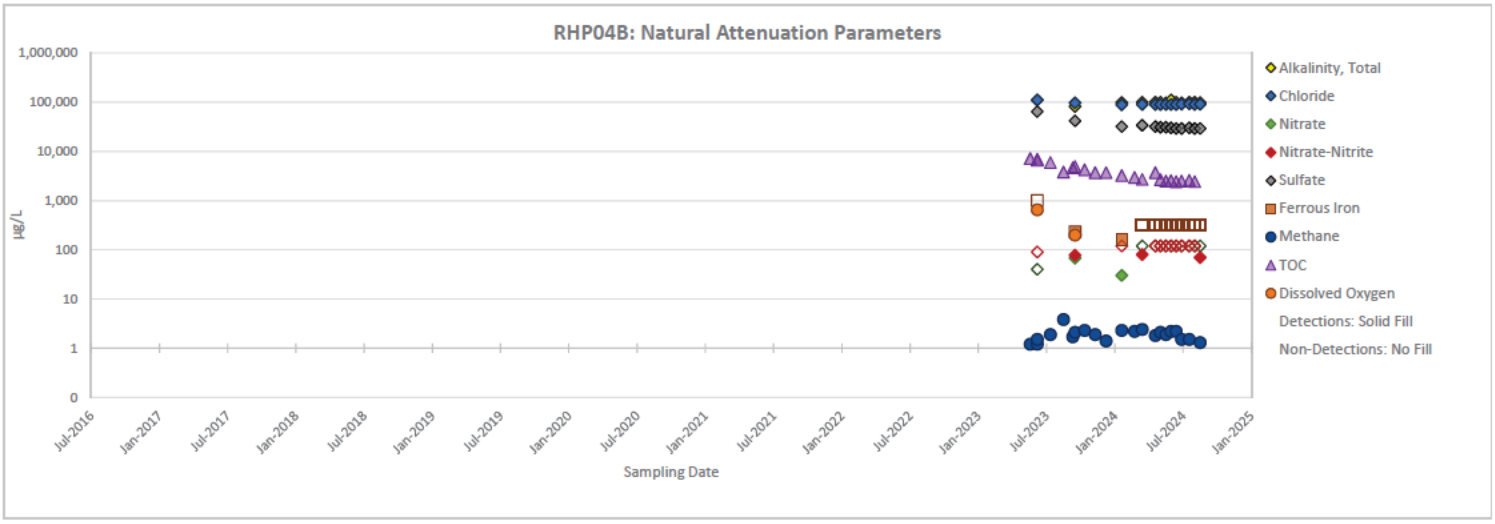


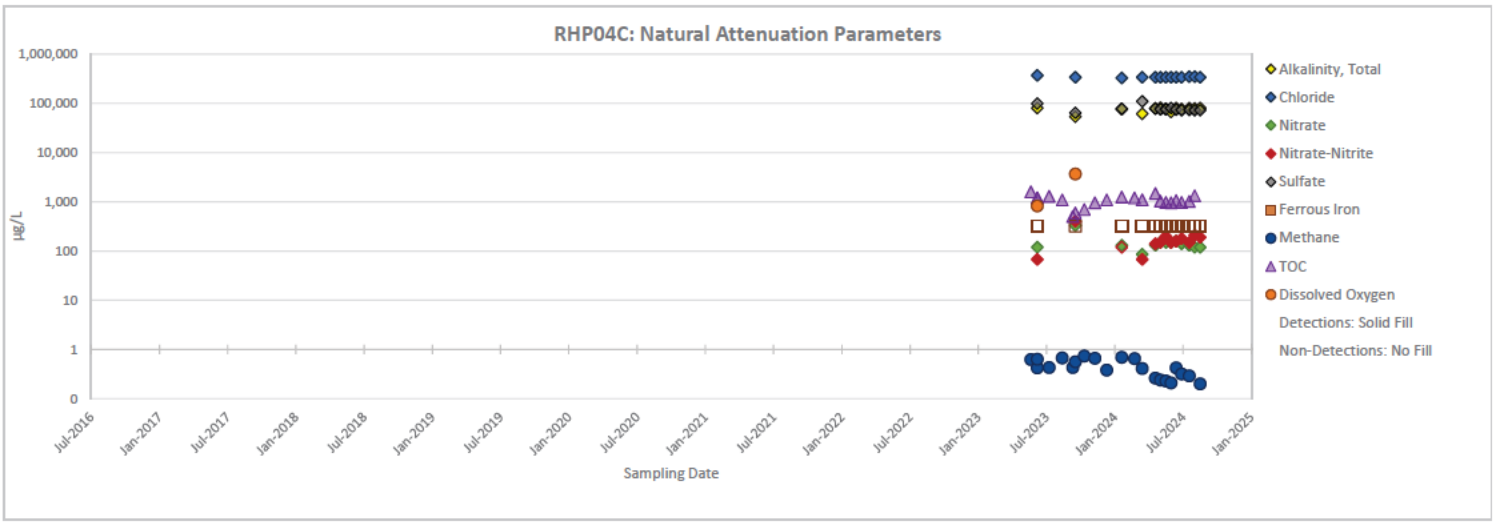


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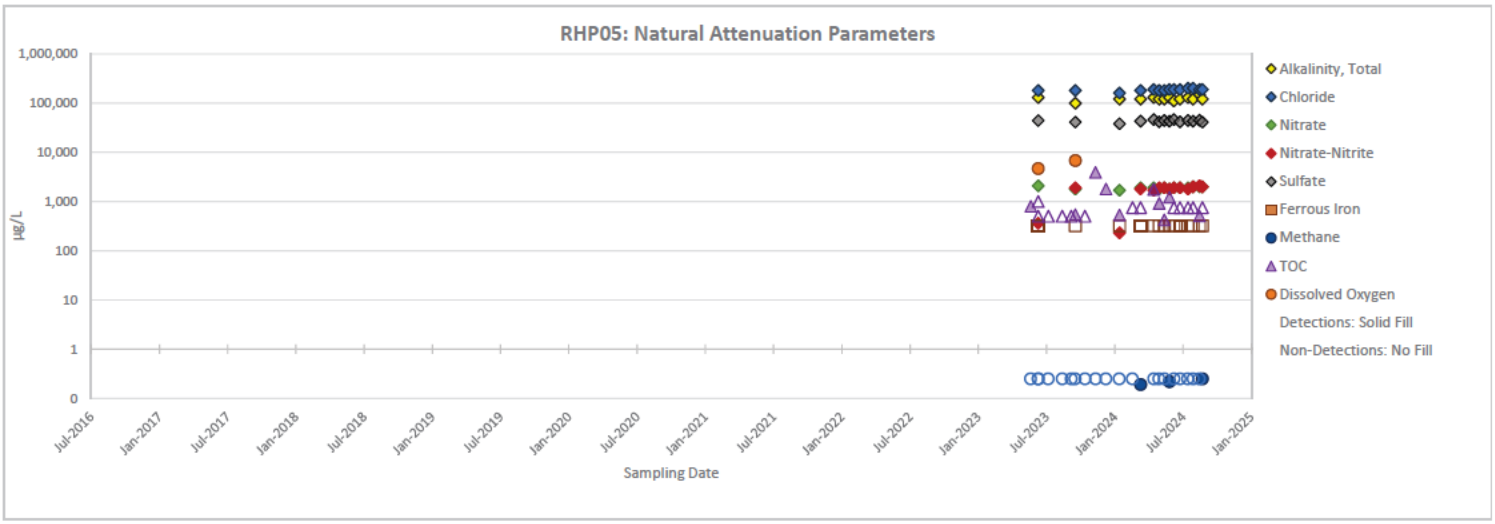


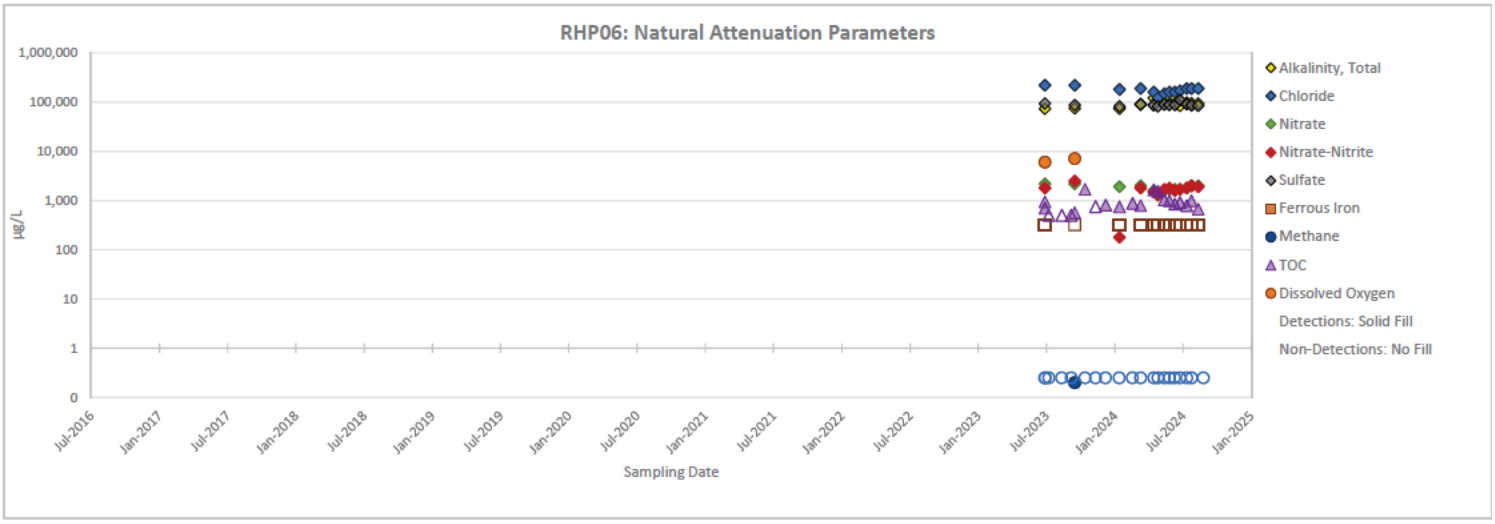


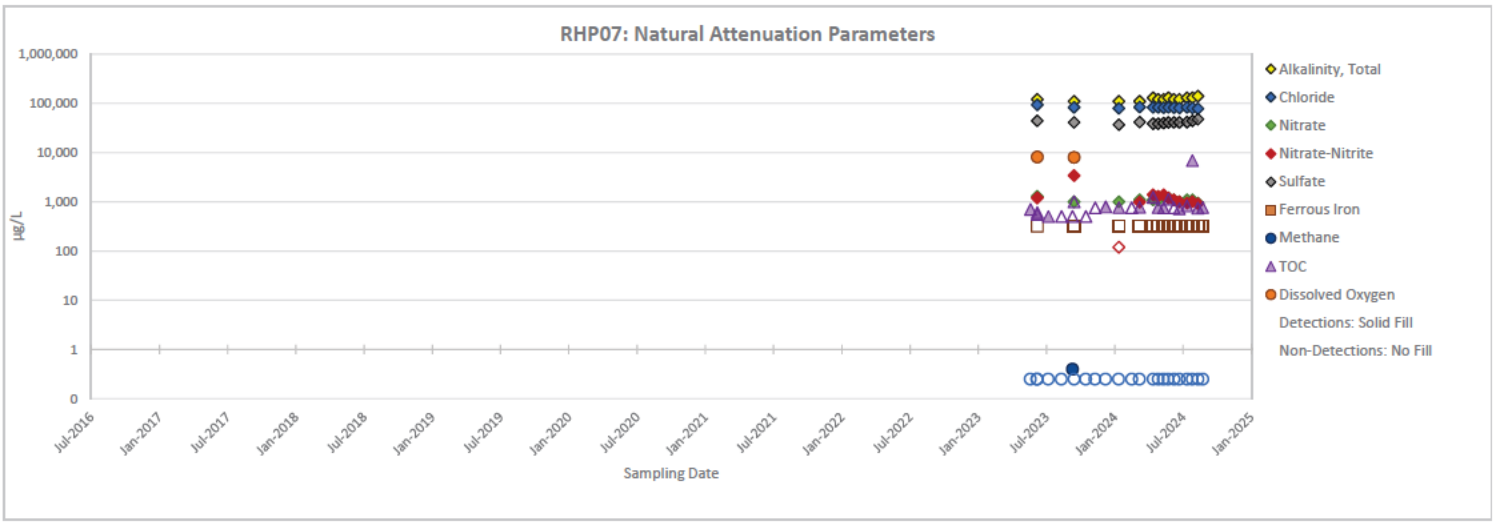


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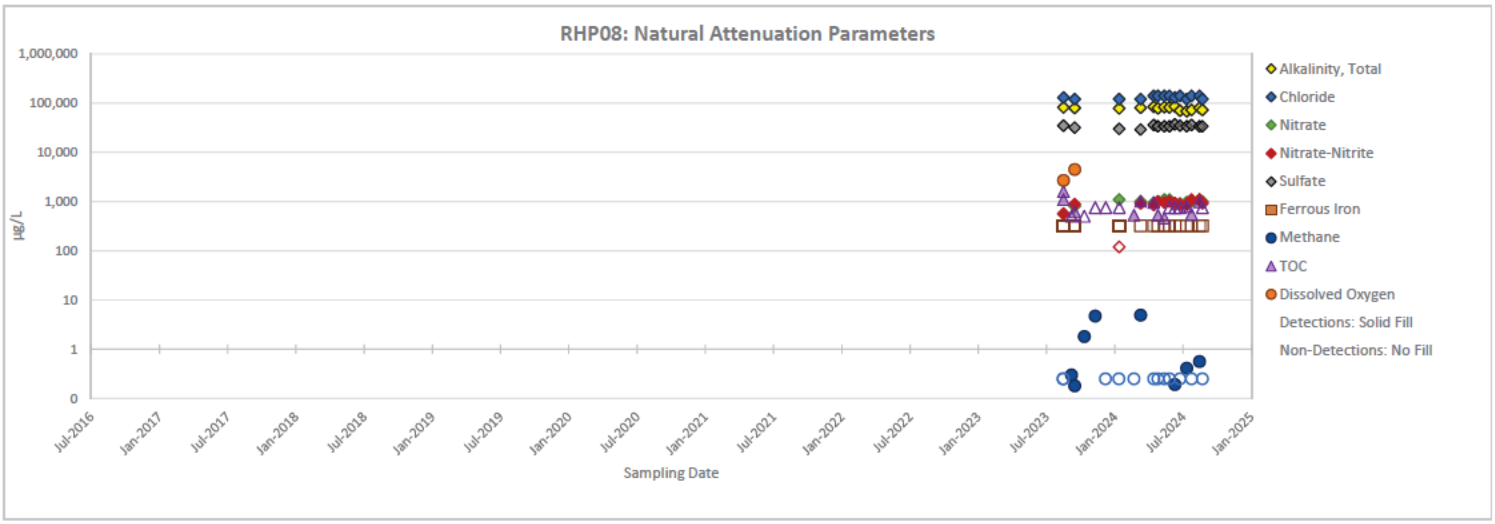


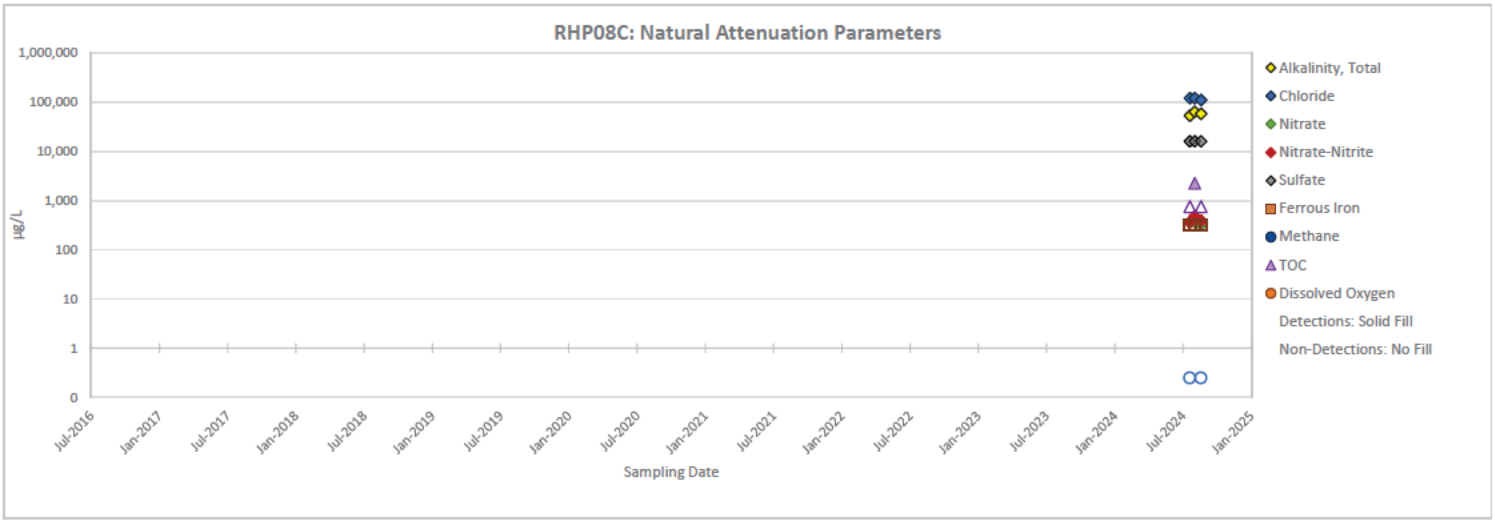




Note: See Data Legend

DISCLAIMER: Includes Preliminary Data Undergoing Validation - Subject to Change.





Note: See Data Legend

DISCLAIMER: Includes Preliminary Data Undergoing Validation - Subject to Change.

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 https://synectics.net. Appendix E provides database navigation tips.

Below-Tank Sampling Locations:

- Laboratory Report, SDG 512382, Level 4, July 2024
- Laboratory Report, SDG 514118, Level 4, August 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 https://synectics.net. 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
June 2024 Monthly Sampling							
RHMW01R	RHMW01R-WGFD01B-2406B	FC16545	6/17/2024	(b) (4)	Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW01R	RHMW01R-WGFD01LF-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW01R	RHMW01R-WGN01B-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW01R	RHMW01R-WGN01LF-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW02	RHMW02-WGFD01B-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW02	RHMW02-WGFD01LF-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW02	RHMW02-WGN01B-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW02	RHMW02-WGN01LF-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW08	RHMW08-WGN01B-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW08	RHMW08-WGN01LF-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHMW15-05	RHMW15-05-WGN01G-2406B	FC16545	6/17/2024		Laboratory Report, SDG FC16545, Level 2	Laboratory Report, SDG FC16545, Level 4	Data Validation Report, Level 2B, SDG FC16545, Revision
RHP07	RHP07-WGN01LF-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHP07	RHP07-WGN01B-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW19	RHMW19-WGN01LF-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW19	RHMW19-WGN01B-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW09	RHMW09-WGN01B-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW05	RHMW05-WGN01LF-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW05	RHMW05-WGN01B-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW09	RHMW09-WGN01LF-2406B	FC16584	6/18/2024		Laboratory Report, SDG FC16584, Level 2, Revision 1	Laboratory Report, SDG FC16584, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16584, Revision
RHMW2254-01	RHMW2254-01-WGN01B-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHMW03	RHMW03-WGN01B-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHMW03	RHMW03-WGN01LF-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHMW11-05	RHMW11-05-WGN01G-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHMW14-03	RHMW14-03-WGN01G-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHMW2254-01	RHMW2254-01-WGN01LF-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHSF-PUMP	RHSF-PUMP-WGFD01G-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHSF-PUMP	RHSF-PUMP-WGN01G-2406B	FC16624	6/19/2024		Laboratory Report, SDG FC16624, Level 2, Revision 1	Laboratory Report, SDG FC16624, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16624, Revision
RHP03	RHP03-WGN01B-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP02	RHP02-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP04A	RHP04A-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP03	RHP03-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP02	RHP02-WGN01B-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP04A	RHP04A-WGN01B-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP01	RHP01-WGN01B-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHMW06	RHMW06-WGN01B-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHP01	RHP01-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHMW16	RHMW16-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHMW06	RHMW06-WGN01LF-2406B	FC16667	6/20/2024		Laboratory Report, SDG FC16667, Level 2, Revision 1	Laboratory Report, SDG FC16667, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16667
RHMW10	RHMW10-WGN01LF-2406B	1243112	6/21/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243112
RHP05	RHP05-WGN01LF-2406B	1243112	6/21/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243113
RHP06	RHP06-WGN01LF-2406B	1243112	6/21/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243114
RHP08	RHP08-WGN01LF-2406B	1243112	6/21/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243115
RHP05	RHP05-WGN01B-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16682
RHP08	RHP08-WGN01B-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16683
RHP08	RHP08-WGFD01LF-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16684
RHP08	RHP08-WGFD01B-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16685
RHP06	RHP06-WGN01LF-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16686
RHMW10	RHMW10-WGN01B-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16687
RHP05	RHP05-WGN01LF-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16688
RHMW10	RHMW10-WGN01LF-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16689
RHP08	RHP08-WGN01LF-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16690
RHP06	RHP06-WGN01B-2406B	FC16682	6/21/2024		Laboratory Report, SDG FC16682, Level 2	Laboratory Report, SDG FC16682, Level 4	Data Validation Report, Level 2B, SDG FC16691
RHMW17	RHMW17-WGN01LF-2406B	1243112	6/24/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243112
RHMW13-04	RHMW13-04-WGN01G-2406B	1243112	6/24/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243113
NMW26	NMW26-WGN01LF-2406B	1243112	6/24/2024		Laboratory Report, SDG 1243112, Level 2	Laboratory Report, SDG 1243112, Level 4	Data Validation Report, Level S2BVEM, SDG 1243114
NMW26	NMW26-WGN01LF-2406B	24F0252	6/24/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHMW13-04	RHMW13-04-WGN01G-2406B	24F0252	6/24/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHMW17	RHMW17-WGN01LF-2406B	24F0252	6/24/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHMW17	RHMW17-WGN01B-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
RHMW17	RHMW17-WGN01LF-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
RHMW17	RHMW17-WGFD01B-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
RHMW17	RHMW17-WGFD01LF-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
NMW26	NMW26-WGN01LF-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
NMW26	NMW26-WGN01B-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725
RHMW13-04	RHMW13-04-WGN01G-2406B	FC16725	6/24/2024		Laboratory Report, SDG FC16725, Level 2, Revision 1	Laboratory Report, SDG FC16725, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16725

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
RHP04B	RHP04B-WGN01LF-2406B	1243133	6/25/2024	(b) (4)	Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
NMW33	NMW33-WGN01LF-2406B	1243133	6/25/2024		Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
NMW34	NMW34-WGN01LF-2406B	1243133	6/25/2024		Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
RHMW04	RHMW04-WGN01LF-2406B	1243133	6/25/2024		Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
RHMW12A	RHMW12A-WGN01LF-2406B	1243133	6/25/2024		Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
RHP04C	RHP04C-WGN01LF-2406B	1243133	6/25/2024		Laboratory Report, SDG 1243133, Level 2	Laboratory Report, SDG 1243133, Level 4	Data Validation Report, Level S2BVEM, SDG 1243133
RHP04B	RHP04B-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHP04C	RHP04C-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHMW12A	RHMW12A-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
RHMW04	RHMW04-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
NMW34	NMW34-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
NMW33	NMW33-WGN01LF-2406B	24F0252	6/25/2024		Laboratory Report, SDG 24F0252, Level 2	Laboratory Report, SDG 24F0252, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0252
NMW33	NMW33-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
NMW34	NMW34-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
RHMW04	RHMW04-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
RHMW12A	RHMW12A-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
RHP04B	RHP04B-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
RHP04C	RHP04C-WGN01LF-2406B	580-141495-1	6/25/2024		Laboratory Report, SDG 580-141495-1, Level 2	Laboratory Report, SDG 580-141495-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141495-1
RHP04C	RHP04C-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
RHP04B	RHP04B-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
RHMW12A	RHMW12A-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
RHMW04	RHMW04-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
NMW33	NMW33-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
NMW34	NMW34-WGN01LF-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
NMW34	NMW34-WGN01B-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
NMW33	NMW33-WGN01B-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
RHMW04	RHMW04-WGN01B-2406B	FC16768	6/25/2024		Laboratory Report, SDG FC16768, Level 2, Revision 1	Laboratory Report, SDG FC16768, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16768
RHMW20	RHMW20-WGN01LF-2406B	1243149	6/26/2024		Laboratory Report, SDG 1243149, Level 2	Laboratory Report, SDG 1243149, Level 4	Data Validation Report, Level S2BVEM, SDG 1243149
OWDFMW08A	OWDFMW08A-WGN01LF-2406B	1243149	6/26/2024		Laboratory Report, SDG 1243149, Level 2	Laboratory Report, SDG 1243149, Level 4	Data Validation Report, Level S2BVEM, SDG 1243149
NMW24	NMW24-WGN01LF-2406B	1243149	6/26/2024		Laboratory Report, SDG 1243149, Level 2	Laboratory Report, SDG 1243149, Level 4	Data Validation Report, Level S2BVEM, SDG 1243149
NMW25	NMW25-WGN01LF-2406B	1243149	6/26/2024		Laboratory Report, SDG 1243149, Level 2	Laboratory Report, SDG 1243149, Level 4	Data Validation Report, Level S2BVEM, SDG 1243149
OWDFMW03A	OWDFMW03A-WGN01LF-2406B	1243149	6/26/2024		Laboratory Report, SDG 1243149, Level 2	Laboratory Report, SDG 1243149, Level 4	Data Validation Report, Level S2BVEM, SDG 1243149
NMW24	NMW24-WGN01LF-2406B	24F0261	6/26/2024		Laboratory Report, SDG 24F0261, Level 2	Laboratory Report, SDG 24F0261, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0261
NMW25	NMW25-WGN01LF-2406B	24F0261	6/26/2024		Laboratory Report, SDG 24F0261, Level 2	Laboratory Report, SDG 24F0261, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0261
OWDFMW03A	OWDFMW03A-WGN01LF-2406B	24F0261	6/26/2024		Laboratory Report, SDG 24F0261, Level 2	Laboratory Report, SDG 24F0261, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0261
OWDFMW08A	OWDFMW08A-WGN01LF-2406B	24F0261	6/26/2024		Laboratory Report, SDG 24F0261, Level 2	Laboratory Report, SDG 24F0261, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0261
RHMW20	RHMW20-WGN01LF-2406B	24F0261	6/26/2024		Laboratory Report, SDG 24F0261, Level 2	Laboratory Report, SDG 24F0261, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0261
NMW24	NMW24-WGN01LF-2406B	580-141527-1	6/26/2024		Laboratory Report, SDG 580-141527-1, Level 2	Laboratory Report, SDG 580-141527-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141527-1
NMW25	NMW25-WGN01LF-2406B	580-141527-1	6/26/2024		Laboratory Report, SDG 580-141527-1, Level 2	Laboratory Report, SDG 580-141527-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141527-1
OWDFMW03A	OWDFMW03A-WGN01LF-2406B	580-141527-1	6/26/2024		Laboratory Report, SDG 580-141527-1, Level 2	Laboratory Report, SDG 580-141527-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141527-1
OWDFMW08A	OWDFMW08A-WGN01LF-2406B	580-141527-1	6/26/2024		Laboratory Report, SDG 580-141527-1, Level 2	Laboratory Report, SDG 580-141527-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141527-1
RHMW20	RHMW20-WGN01LF-2406B	580-141527-1	6/26/2024		Laboratory Report, SDG 580-141527-1, Level 2	Laboratory Report, SDG 580-141527-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141527-1
RHMW20	RHMW20-WGN01B-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
RHMW20	RHMW20-WGN01LF-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
OWDFMW08A	OWDFMW08A-WGN01LF-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
OWDFMW03A	OWDFMW03A-WGN01LF-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
NMW25	NMW25-WGN01B-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
NMW24	NMW24-WGN01LF-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
NMW24	NMW24-WGN01B-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
NMW25	NMW25-WGN01LF-2406B	FC16817	6/26/2024		Laboratory Report, SDG FC16817, Level 2, Revision 1	Laboratory Report, SDG FC16817, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16817, Revision
NMW30	NMW30-WGN01LF-2406B	1243190	6/27/2024		Laboratory Report, SDG 1243190, Level 2	Laboratory Report, SDG 1243190, Level 4	Data Validation Report, Level S2BVEM, SDG 1243190
NMW32	NMW32-WGN01LF-2406B	1243190	6/27/2024		Laboratory Report, SDG 1243190, Level 2	Laboratory Report, SDG 1243190, Level 4	Data Validation Report, Level S2BVEM, SDG 1243190
RHMW18	RHMW18-WGN01LF-2406B	1243190	6/27/2024		Laboratory Report, SDG 1243190, Level 2	Laboratory Report, SDG 1243190, Level 4	Data Validation Report, Level S2BVEM, SDG 1243190
NMW30	NMW30-WGN01LF-2406B	24F0281	6/27/2024		Laboratory Report, SDG 24F0281, Level 2	Laboratory Report, SDG 24F0281, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0281
NMW32	NMW32-WGN01LF-2406B	24F0281	6/27/2024		Laboratory Report, SDG 24F0281, Level 2	Laboratory Report, SDG 24F0281, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0281
RHMW18	RHMW18-WGN01LF-2406B	24F0281	6/27/2024		Laboratory Report, SDG 24F0281, Level 2	Laboratory Report, SDG 24F0281, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0281
NMW30	NMW30-WGN01LF-2406B	580-141582-1	6/27/2024		Laboratory Report, SDG 580-141582-1, Level 2	Laboratory Report, SDG 580-141582-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141582-1
NMW32	NMW32-WGN01LF-2406B	580-141582-1	6/27/2024		Laboratory Report, SDG 580-141582-1, Level 2	Laboratory Report, SDG 580-141582-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141582-1
RHMW18	RHMW18-WGN01LF-2406B	580-141582-1	6/27/2024		Laboratory Report, SDG 580-141582-1, Level 2	Laboratory Report, SDG 580-141582-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141582-1
RHMW18	RHMW18-WGN01LF-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
NMW32	NMW32-WGN01LF-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
RHMW18	RHMW18-WGN01B-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
NMW30	NMW30-WGN01LF-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
NMW30	NMW30-WGN01B-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
NMW32	NMW32-WGN01B-2406B	FC16872	6/27/2024		Laboratory Report, SDG FC16872, Level 2, Revision 1	Laboratory Report, SDG FC16872, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16872
HDMW2253-03	HDMW2253-03-WGN01LF-2406B	1243279	6/28/2024		Laboratory Report, SDG 1243279, Level 2	Laboratory Report, SDG 1243279, Level 4	Data Validation Report, Level S2BVEM, SDG 1243279

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-2406B	24F0295	6/28/2024	(b) (4)	Laboratory Report, SDG 24F0295, Level 2	Laboratory Report, SDG 24F0295, Level 4	Data Validation Report, Level S2BVEM, SDG 24F0295
HDMW2253-03	HDMW2253-03-WGN01LF-2406B	580-141637-1	6/28/2024		Laboratory Report, SDG 580-141637-1, Level 2	Laboratory Report, SDG 580-141637-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141637-1
HDMW2253-03	HDMW2253-03-WGN01LF-2406B	FC16877	6/28/2024		Laboratory Report, SDG FC16877 Level 2 Revision 2	Laboratory Report, SDG FC16877 Level 4 Revision 2	Data Validation Report, Level 2B, SDG FC16877
July 2024 Monthly and Quarterly Sampling							
RHP01	RHP01-WGN01LF-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW15-05	RHMW15-05-WGN01G-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW08	RHMW08-WGN01LF-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW06	RHMW06-WGN01LF-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW01R	RHMW01R-WGN01LF-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW02	RHMW02-WGN01LF-2407A	1243280	7/1/2024		Laboratory Report, SDG 1243280, Level 2	Laboratory Report, SDG 1243280, Level 4	Data Validation Report, Level S4VEM, SDG 1243280
RHMW15-05	RHMW15-05-WGN01G-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW01R	RHMW01R-WGN01LF-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW02	RHMW02-WGN01LF-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW06	RHMW06-WGN01LF-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW08	RHMW08-WGN01LF-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHP01	RHP01-WGN01LF-2407A	24G0014	7/1/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW15-05	RHMW15-05-WGN01G-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHMW08	RHMW08-WGN01LF-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHP01	RHP01-WGN01LF-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHMW02	RHMW02-WGN01LF-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHMW01R	RHMW01R-WGN01LF-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHMW06	RHMW06-WGN01LF-2407A	580-141677-1	7/1/2024		Laboratory Report, SDG 580-141677-1, Level 2	Laboratory Report, SDG 580-141677-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-141677-1
RHP01	RHP01-WGN01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHP01	RHP01-WGN01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW15-05	RHMW15-05-WGN01G-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW08	RHMW08-WGN01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW08	RHMW08-WGN01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW06	RHMW06-WGN01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW06	RHMW06-WGN01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW02	RHMW02-WGN01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW02	RHMW02-WGN01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW02	RHMW02-WGFD01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW02	RHMW02-WGFD01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW01R	RHMW01R-WGN01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW01R	RHMW01R-WGN01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW01R	RHMW01R-WGFD01LF-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHMW01R	RHMW01R-WGFD01B-2407A	FC16926	7/1/2024		Laboratory Report, SDG FC16926, Level 2, Revision 1	Laboratory Report, SDG FC16926, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC16926
RHSF-PUMP	RHSF-PUMP-WGN01G-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHP02	RHP02-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHMW19	RHMW19-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHMW2254-01	RHMW2254-01-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHMW09	RHMW09-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHMW03	RHMW03-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHMW16	RHMW16-WGN01LF-2407A	1243346	7/2/2024		Laboratory Report, SDG 1243346, Level 2	Laboratory Report, SDG 1243346, Level 4	Data Validation Report, Level S2BVEM, SDG 1243346
RHSF-PUMP	RHSF-PUMP-WGN01G-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW03	RHMW03-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW09	RHMW09-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW16	RHMW16-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW19	RHMW19-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHMW2254-01	RHMW2254-01-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHP02	RHP02-WGN01LF-2407A	24G0014	7/2/2024		Laboratory Report, SDG 24G0014, Level 2	Laboratory Report, SDG 24G0014, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0014
RHSF-PUMP	RHSF-PUMP-WGN01G-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHP02	RHP02-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHMW2254-01	RHMW2254-01-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHMW09	RHMW09-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHMW16	RHMW16-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHMW03	RHMW03-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHMW19	RHMW19-WGN01LF-2407A	580-141742-1	7/2/2024		Laboratory Report, SDG 580-141742-1, Level 2	Laboratory Report, SDG 580-141742-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141742-1
RHP02	RHP02-WGN01B-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHP02	RHP02-WGN01LF-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW2254-01	RHMW2254-01-WGN01LF-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHSF-PUMP	RHSF-PUMP-WGN01G-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHSF-PUMP	RHSF-PUMP-WGFD01G-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
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RHMW03	RHMW03-WGN01B-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW19	RHMW19-WGN01B-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950

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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
RHMW16	RHMW16-WGN01LF-2407A	FC16950	7/2/2024	(b) (4)	Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW09	RHMW09-WGN01LF-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW09	RHMW09-WGN01B-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW03	RHMW03-WGN01LF-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW19	RHMW19-WGN01LF-2407A	FC16950	7/2/2024		Laboratory Report, SDG FC16950, Level 2, Revision 2	Laboratory Report, SDG FC16950, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC16950
RHMW05	RHMW05-WGN01LF-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHMW11-05	RHMW11-05-WGN01G-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHMW14-03	RHMW14-03-WGN01G-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP03	RHP03-WGN01LF-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP04A	RHP04A-WGN01LF-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP05	RHP05-WGN01LF-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP07	RHP07-WGN01LF-2407A	1243449	7/3/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP07	RHP07-WGN01LF-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHP05	RHP05-WGN01LF-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHP04A	RHP04A-WGN01LF-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHP03	RHP03-WGN01LF-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW11-05	RHMW11-05-WGN01G-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW05	RHMW05-WGN01LF-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW14-03	RHMW14-03-WGN01G-2407A	24G0029	7/3/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW05	RHMW05-WGN01LF-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHMW11-05	RHMW11-05-WGN01G-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHMW14-03	RHMW14-03-WGN01G-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHP03	RHP03-WGN01LF-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHP04A	RHP04A-WGN01LF-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHP05	RHP05-WGN01LF-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHP07	RHP07-WGN01LF-2407A	580-141789-1	7/3/2024		Laboratory Report, SDG 580-141789-1, Level 2,	Laboratory Report, SDG 580-141789-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-141789-1
RHP07	RHP07-WGN01LF-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP07	RHP07-WGN01B-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP05	RHP05-WGN01LF-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP05	RHP05-WGN01B-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP04A	RHP04A-WGN01LF-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP04A	RHP04A-WGN01B-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP03	RHP03-WGN01B-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHMW14-03	RHMW14-03-WGN01G-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHMW11-05	RHMW11-05-WGN01G-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHMW05	RHMW05-WGN01LF-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHMW05	RHMW05-WGN01B-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHP03	RHP03-WGN01LF-2407A	FC16969	7/3/2024		Laboratory Report, SDG FC16969, Level 2	Laboratory Report, SDG FC16969, Level 4	Data Validation Report, Level 2B, SDG FC16969
RHMW10	RHMW10-WGN01LF-2407A	1243449	7/5/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP06	RHP06-WGN01LF-2407A	1243449	7/5/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP08	RHP08-WGN01LF-2407A	1243449	7/5/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHP08	RHP08-WGN01LF-2407A	24G0029	7/5/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW10	RHMW10-WGN01LF-2407A	24G0029	7/5/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHP06	RHP06-WGN01LF-2407A	24G0029	7/5/2024		Laboratory Report, SDG 24G0029, Level 2	Laboratory Report, SDG 24G0029, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0029
RHMW10	RHMW10-WGN01LF-2407A	580-141818-1	7/5/2024		Laboratory Report, SDG 580-141818-1, Level 2	Laboratory Report, SDG 580-141818-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141818-1
RHP06	RHP06-WGN01LF-2407A	580-141818-1	7/5/2024		Laboratory Report, SDG 580-141818-1, Level 2	Laboratory Report, SDG 580-141818-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141818-1
RHP08	RHP08-WGN01LF-2407A	580-141818-1	7/5/2024		Laboratory Report, SDG 580-141818-1, Level 2	Laboratory Report, SDG 580-141818-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141818-1
RHP08	RHP08-WGFD01LF-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHP08	RHP08-WGN01LF-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHP08	RHP08-WGN01B-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHP08	RHP08-WGFD01B-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHP06	RHP06-WGN01B-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHMW10	RHMW10-WGN01LF-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHMW10	RHMW10-WGN01B-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
RHP06	RHP06-WGN01LF-2407A	FC16987	7/5/2024		Laboratory Report, SDG FC16987, Level 2, Revision 1	Laboratory Report, SDG FC16987, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC16987
NMW26	NMW26-WGN01LF-2407A	1243449	7/8/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHMW13-04	RHMW13-04-WGN01G-2407A	1243449	7/8/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
RHMW17	RHMW17-WGN01LF-2407A	1243449	7/8/2024		Laboratory Report, SDG 1243449, Level 2	Laboratory Report, SDG 1243449, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 1243449
NMW26	NMW26-WGN01LF-2407A	24G0047	7/8/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
RHMW13-04	RHMW13-04-WGN01G-2407A	24G0047	7/8/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
RHMW17	RHMW17-WGN01LF-2407A	24G0047	7/8/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
NMW26	NMW26-WGN01LF-2407A	580-141848-1	7/8/2024		Laboratory Report, SDG 580-141848-1, Level 2	Laboratory Report, SDG 580-141848-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141848-1
RHMW13-04	RHMW13-04-WGN01G-2407A	580-141848-1	7/8/2024		Laboratory Report, SDG 580-141848-1, Level 2	Laboratory Report, SDG 580-141848-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141848-1
RHMW17	RHMW17-WGN01LF-2407A	580-141848-1	7/8/2024		Laboratory Report, SDG 580-141848-1, Level 2	Laboratory Report, SDG 580-141848-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141848-1
RHMW17	RHMW17-WGFD01LF-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
RHMW17	RHMW17-WGN01B-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision

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
RHMW17	RHMW17-WGFD01B-2407A	FC17087	7/8/2024	(b) (4)	Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
RHMW17	RHMW17-WGN01LF-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
NMW26	NMW26-WGN01LF-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
NMW26	NMW26-WGN01B-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
RHMW13-04	RHMW13-04-WGN01G-2407A	FC17087	7/8/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
NMW34	NMW34-WGN01LF-2407A	1243475	7/9/2024		Laboratory Report, SDG 1243475, Level 2	Laboratory Report, SDG 1243475, Level 4	Data Validation Report, Level S2BVEM, SDG 1243475
RHMW04	RHMW04-WGN01LF-2407A	1243475	7/9/2024		Laboratory Report, SDG 1243475, Level 2	Laboratory Report, SDG 1243475, Level 4	Data Validation Report, Level S2BVEM, SDG 1243475
RHMW20	RHMW20-WGN01LF-2407A	1243475	7/9/2024		Laboratory Report, SDG 1243475, Level 2	Laboratory Report, SDG 1243475, Level 4	Data Validation Report, Level S2BVEM, SDG 1243475
RHP04B	RHP04B-WGN01LF-2407A	1243475	7/9/2024		Laboratory Report, SDG 1243475, Level 2	Laboratory Report, SDG 1243475, Level 4	Data Validation Report, Level S2BVEM, SDG 1243475
RHP04C	RHP04C-WGN01LF-2407A	1243475	7/9/2024		Laboratory Report, SDG 1243475, Level 2	Laboratory Report, SDG 1243475, Level 4	Data Validation Report, Level S2BVEM, SDG 1243475
RHP04C	RHP04C-WGN01LF-2407A	24G0047	7/9/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
RHP04B	RHP04B-WGN01LF-2407A	24G0047	7/9/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
NMW34	NMW34-WGN01LF-2407A	24G0047	7/9/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
RHMW20	RHMW20-WGN01LF-2407A	24G0047	7/9/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
RHMW04	RHMW04-WGN01LF-2407A	24G0067	7/9/2024		Laboratory Report, SDG 24G0047, Level 2	Laboratory Report, SDG 24G0047, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0047
NMW34	NMW34-WGN01LF-2407A	580-141892-1	7/9/2024		Laboratory Report, SDG 580-141892-1, Level 2	Laboratory Report, SDG 580-141892-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141892-1
RHMW04	RHMW04-WGN01LF-2407A	580-141892-1	7/9/2024		Laboratory Report, SDG 580-141892-1, Level 2	Laboratory Report, SDG 580-141892-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141892-1
RHMW20	RHMW20-WGN01LF-2407A	580-141892-1	7/9/2024		Laboratory Report, SDG 580-141892-1, Level 2	Laboratory Report, SDG 580-141892-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141892-1
RHP04B	RHP04B-WGN01LF-2407A	580-141892-1	7/9/2024		Laboratory Report, SDG 580-141892-1, Level 2	Laboratory Report, SDG 580-141892-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141892-1
RHP04C	RHP04C-WGN01LF-2407A	580-141892-1	7/9/2024		Laboratory Report, SDG 580-141892-1, Level 2	Laboratory Report, SDG 580-141892-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141892-1
RHMW20	RHMW20-WGN01LF-2407A	FC17087	7/9/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
RHP04B	RHP04B-WGN01LF-2407A	FC17087	7/9/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
RHP04C	RHP04C-WGN01LF-2407A	FC17087	7/9/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
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NMW34	NMW34-WGN01LF-2407A	FC17087	7/9/2024		Laboratory Report, SDG FC17087, Level 2, Revision 2	Laboratory Report, SDG FC17087, Level 4, Revision 2	Data Validation Report, Level 2B, SDG FC17087, Revision
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NMW24	NMW24-WGN01LF-2407A	1243524	7/10/2024		Laboratory Report, SDG 1243524, Level 2	Laboratory Report, SDG 1243524, Level 4	Data Validation Report, Level S2BVEM, SDG 1243524
NMW25	NMW25-WGN01LF-2407A	1243524	7/10/2024		Laboratory Report, SDG 1243524, Level 2	Laboratory Report, SDG 1243524, Level 4	Data Validation Report, Level S2BVEM, SDG 1243524
OWDFMW03A	OWDFMW03A-WGN01LF-2407A	1243524	7/10/2024		Laboratory Report, SDG 1243524, Level 2	Laboratory Report, SDG 1243524, Level 4	Data Validation Report, Level S2BVEM, SDG 1243524
OWDFMW08A	OWDFMW08A-WGN01LF-2407A	1243524	7/10/2024		Laboratory Report, SDG 1243524, Level 2	Laboratory Report, SDG 1243524, Level 4	Data Validation Report, Level S2BVEM, SDG 1243524
OWDFMW08A	OWDFMW08A-WGN01LF-2407A	24G0067	7/10/2024		Laboratory Report, SDG 24G0067, Level 2	Laboratory Report, SDG 24G0067, Level 4	Data Validation Report, Level S4VEM, SDG 24G0067
OWDFMW03A	OWDFMW03A-WGN01LF-2407A	24G0067	7/10/2024		Laboratory Report, SDG 24G0067, Level 2	Laboratory Report, SDG 24G0067, Level 4	Data Validation Report, Level S4VEM, SDG 24G0067
NMW25	NMW25-WGN01LF-2407A	24G0067	7/10/2024		Laboratory Report, SDG 24G0067, Level 2	Laboratory Report, SDG 24G0067, Level 4	Data Validation Report, Level S4VEM, SDG 24G0067
NMW24	NMW24-WGN01LF-2407A	24G0067	7/10/2024		Laboratory Report, SDG 24G0067, Level 2	Laboratory Report, SDG 24G0067, Level 4	Data Validation Report, Level S4VEM, SDG 24G0067
NMW24	NMW24-WGN01LF-2407A	580-141951-1	7/10/2024		Laboratory Report, SDG 580-141951-1, Level 2	Laboratory Report, SDG 580-141951-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141951-1
NMW25	NMW25-WGN01LF-2407A	580-141951-1	7/10/2024		Laboratory Report, SDG 580-141951-1, Level 2	Laboratory Report, SDG 580-141951-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141951-1
OWDFMW03A	OWDFMW03A-WGN01LF-2407A	580-141951-1	7/10/2024		Laboratory Report, SDG 580-141951-1, Level 2	Laboratory Report, SDG 580-141951-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141951-1
OWDFMW08A	OWDFMW08A-WGN01LF-2407A	580-141951-1	7/10/2024		Laboratory Report, SDG 580-141951-1, Level 2	Laboratory Report, SDG 580-141951-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141951-1
OWDFMW03A	OWDFMW03A-WGN01LF-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
NMW25	NMW25-WGN01LF-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
OWDFMW08A	OWDFMW08A-WGN01LF-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
NMW24	NMW24-WGN01LF-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
NMW24	NMW24-WGN01B-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
NMW25	NMW25-WGN01B-2407A	FC17124	7/10/2024		Laboratory Report, SDG FC17124, Level 2	Laboratory Report, SDG FC17124, Level 4	Data Validation Report, Level 2B, SDG FC17124, Revision
NMW30	NMW30-WGN01LF-2407A	1243571	7/11/2024		Laboratory Report, SDG 1243571, Level 2	Laboratory Report, SDG 1243571, Level 4	Data Validation Report, Level S2BVEM, SDG 1243571
NMW32	NMW32-WGN01LF-2407A	1243571	7/11/2024		Laboratory Report, SDG 1243571, Level 2	Laboratory Report, SDG 1243571, Level 4	Data Validation Report, Level S2BVEM, SDG 1243571
NMW33	NMW33-WGN01LF-2407A	1243571	7/11/2024		Laboratory Report, SDG 1243571, Level 2	Laboratory Report, SDG 1243571, Level 4	Data Validation Report, Level S2BVEM, SDG 1243571
RHMW18	RHMW18-WGN01LF-2407A	1243571	7/11/2024		Laboratory Report, SDG 1243571, Level 2	Laboratory Report, SDG 1243571, Level 4	Data Validation Report, Level S2BVEM, SDG 1243571
NMW33	NMW33-WGN01LF-2407A	24G0105	7/11/2024		Laboratory Report, SDG 24G0105, Level 2	Laboratory Report, SDG 24G0105, Level 4,	Data Validation Report, Level S2BVEM, SDG 24G0105
RHMW18	RHMW18-WGN01LF-2407A	24G0105	7/11/2024		Laboratory Report, SDG 24G0105, Level 2	Laboratory Report, SDG 24G0105, Level 4,	Data Validation Report, Level S2BVEM, SDG 24G0105
NMW32	NMW32-WGN01LF-2407A	24G0105	7/11/2024		Laboratory Report, SDG 24G0105, Level 2	Laboratory Report, SDG 24G0105, Level 4,	Data Validation Report, Level S2BVEM, SDG 24G0105
NMW30	NMW30-WGN01LF-2407A	24G0117	7/11/2024		Laboratory Report, SDG 24G0105, Level 2	Laboratory Report, SDG 24G0105, Level 4,	Data Validation Report, Level S2BVEM, SDG 24G0105
NMW30	NMW30-WGN01LF-2407A	580-141989-1	7/11/2024		Laboratory Report, SDG 580-141989-1, Level 2	Laboratory Report, SDG 580-141989-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141989-1
NMW32	NMW32-WGN01LF-2407A	580-141989-1	7/11/2024		Laboratory Report, SDG 580-141989-1, Level 2	Laboratory Report, SDG 580-141989-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141989-1
NMW33	NMW33-WGN01LF-2407A	580-141989-1	7/11/2024		Laboratory Report, SDG 580-141989-1, Level 2	Laboratory Report, SDG 580-141989-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141989-1
RHMW18	RHMW18-WGN01LF-2407A	580-141989-1	7/11/2024		Laboratory Report, SDG 580-141989-1, Level 2	Laboratory Report, SDG 580-141989-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-141989-1
NMW33	NMW33-WGN01LF-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
RHMW18	RHMW18-WGN01LF-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
RHMW18	RHMW18-WGN01B-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
NMW33	NMW33-WGN01B-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
NMW32	NMW32-WGN01LF-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
NMW32	NMW32-WGN01B-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
NMW30	NMW30-WGN01LF-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165
NMW30	NMW30-WGN01B-2407A	FC17165	7/11/2024		Laboratory Report, SDG FC17165, Level 2, Revision 1	Laboratory Report, SDG FC17165, Level 4, Revision 1,	Data Validation Report, Level 2B, SDG FC17165

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-2407A	1243639	7/12/2024	(b) (4)	Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
RHMW12A	RHMW12A-WGN01LF-2407A	1243639	7/12/2024		Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
HDMW2253-03	HDMW2253-03-WGN01LF-2407A	24G0117	7/12/2024		Laboratory Report, SDG 24G0117, Level 2	Laboratory Report, SDG 24G0117, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0117
RHMW12A	RHMW12A-WGN01LF-2407A	24G0117	7/12/2024		Laboratory Report, SDG 24G0117, Level 2	Laboratory Report, SDG 24G0117, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0117
RHMW12A	RHMW12A-WGN01LF-2407A	580-142027-1	7/12/2024		Laboratory Report, SDG 580-142027-1, Level 2	Laboratory Report, SDG 580-142027-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142027-1
HDMW2253-03	HDMW2253-03-WGN01LF-2407A	580-142027-1	7/12/2024		Laboratory Report, SDG 580-142027-1, Level 2	Laboratory Report, SDG 580-142027-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142027-1
HDMW2253-03	HDMW2253-03-WGN01LF-2407A	FC17167	7/12/2024		Laboratory Report, SDG FC17167, Level 2	Laboratory Report, SDG FC17167, Level 4	Data Validation Report, Level 2B, SDG FC17167
RHMW12A	RHMW12A-WGN01LF-2407A	FC17167	7/12/2024		Laboratory Report, SDG FC17167, Level 2	Laboratory Report, SDG FC17167, Level 4	Data Validation Report, Level 2B, SDG FC17167
RHMW01R	RHMW01R-WGN01LF-2407B	1243639	7/15/2024		Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
RHMW02	RHMW02-WGN01LF-2407B	1243639	7/15/2024		Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
RHMW08	RHMW08-WGN01LF-2407B	1243639	7/15/2024		Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
RHMW15-05	RHMW15-05-WGN01G-2407B	1243673	7/15/2024		Laboratory Report, SDG 1243639, Level 2	Laboratory Report, SDG 1243639, Level 4	Data Validation Report, Level S2BVEM, SDG 1243639
RHMW08	RHMW08-WGN01LF-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW02	RHMW02-WGN01LF-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW15-05	RHMW15-05-WGN01G-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW01R	RHMW01R-WGN01LF-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW01R	RHMW01R-WGFD01LF-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW02	RHMW02-WGFD01LF-2407B	24G0137	7/15/2024		Laboratory Report, SDG 24G0137, Level 2	Laboratory Report, SDG 24G0137, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0137
RHMW01R	RHMW01R-WGN01LF-2407B	580-142059-1	7/15/2024		Laboratory Report, SDG 580-142059-1, Level 2	Laboratory Report, SDG 580-142059-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142059-1
RHMW02	RHMW02-WGN01LF-2407B	580-142059-1	7/15/2024		Laboratory Report, SDG 580-142059-1, Level 2	Laboratory Report, SDG 580-142059-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142059-2
RHMW08	RHMW08-WGN01LF-2407B	580-142059-1	7/15/2024		Laboratory Report, SDG 580-142059-1, Level 2	Laboratory Report, SDG 580-142059-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142059-3
RHMW15-05	RHMW15-05-WGN01G-2407B	580-142059-1	7/15/2024		Laboratory Report, SDG 580-142059-1, Level 2	Laboratory Report, SDG 580-142059-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142059-4
RHMW08	RHMW08-WGN01LF-2407B	B24071277	7/15/2024		Laboratory Report, SDG B24071277, Level 2, Revision 1	Laboratory Report, SDG B24071277, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG B24071277
RHMW08	RHMW08-WGN01LF-2407B	FC17570	7/15/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW02	RHMW02-WGN01LF-2407B	FC17570	7/15/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW01R	RHMW01R-WGN01LF-2407B	B24071277	7/15/2024		Laboratory Report, SDG B24071277, Level 2, Revision 1	Laboratory Report, SDG B24071277, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG B24071277
RHMW01R	RHMW01R-WGN01LF-2407B	FC17570	7/15/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW01R	RHMW01R-WGFD01LF-2407B	B24071277	7/15/2024		Laboratory Report, SDG B24071277, Level 2, Revision 1	Laboratory Report, SDG B24071277, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG B24071277
RHMW01R	RHMW01R-WGFD01LF-2407B	FC17570	7/15/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW02	RHMW02-WGFD01LF-2407B	B24071277	7/15/2024		Laboratory Report, SDG B24071277, Level 2, Revision 1	Laboratory Report, SDG B24071277, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG B24071277
RHMW02	RHMW02-WGFD01LF-2407B	FC17570	7/15/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW15-05	RHMW15-05-WGN01G-2407B	B24071406	7/15/2024		Laboratory Report, SDG B24071277, Level 2, Revision 1	Laboratory Report, SDG B24071277, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG B24071277
RHMW02	RHMW02-WGN01B-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW08	RHMW08-WGN01LF-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW15-05	RHMW15-05-WGN01G-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW02	RHMW02-WGN01LF-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW02	RHMW02-WGFD01LF-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW08	RHMW08-WGN01B-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW01R	RHMW01R-WGN01LF-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW01R	RHMW01R-WGN01B-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW01R	RHMW01R-WGFD01LF-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW01R	RHMW01R-WGFD01B-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW02	RHMW02-WGFD01B-2407B	FC17231	7/15/2024		Laboratory Report, SDG FC17231, Level 2	Laboratory Report, SDG FC17231, Level 4	Data Validation Report, Level 2B, SDG FC17231
RHMW03	RHMW03-WGN01LF-2407B	1243673	7/16/2024		Laboratory Report, SDG 1243673, Level 2	Laboratory Report, SDG 1243673, Level 4	Data Validation Report, Level S4VEM, SDG 1243673
RHMW09	RHMW09-WGN01LF-2407B	1243673	7/16/2024		Laboratory Report, SDG 1243673, Level 2	Laboratory Report, SDG 1243673, Level 4	Data Validation Report, Level S4VEM, SDG 1243673
RHMW19	RHMW19-WGN01LF-2407B	1243673	7/16/2024		Laboratory Report, SDG 1243673, Level 2	Laboratory Report, SDG 1243673, Level 4	Data Validation Report, Level S4VEM, SDG 1243673
RHMW2254-01	RHMW2254-01-WGN01LF-2407B	1243673	7/16/2024		Laboratory Report, SDG 1243673, Level 2	Laboratory Report, SDG 1243673, Level 4	Data Validation Report, Level S4VEM, SDG 1243673
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	1243673	7/16/2024		Laboratory Report, SDG 1243673, Level 2	Laboratory Report, SDG 1243673, Level 4	Data Validation Report, Level S4VEM, SDG 1243673
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHSF-PUMP	RHSF-PUMP-WGFD01G-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHMW2254-01	RHMW2254-01-WGN01LF-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHMW09	RHMW09-WGN01LF-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHMW03	RHMW03-WGN01LF-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHMW19	RHMW19-WGN01LF-2407B	24G0153	7/16/2024		Laboratory Report, SDG 24G0153, Level 2	Laboratory Report, SDG 24G0153, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0153
RHMW03	RHMW03-WGN01LF-2407B	580-142099-1	7/16/2024		Laboratory Report, SDG 580-142099-1, Level 2	Laboratory Report, SDG 580-142099-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142099-1
RHMW09	RHMW09-WGN01LF-2407B	580-142099-1	7/16/2024		Laboratory Report, SDG 580-142099-1, Level 2	Laboratory Report, SDG 580-142099-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142099-1
RHMW19	RHMW19-WGN01LF-2407B	580-142099-1	7/16/2024		Laboratory Report, SDG 580-142099-1, Level 2	Laboratory Report, SDG 580-142099-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142099-1
RHMW2254-01	RHMW2254-01-WGN01LF-2407B	580-142099-1	7/16/2024		Laboratory Report, SDG 580-142099-1, Level 2	Laboratory Report, SDG 580-142099-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142099-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	580-142099-1	7/16/2024		Laboratory Report, SDG 580-142099-1, Level 2	Laboratory Report, SDG 580-142099-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142099-1
RHSF-PUMP	RHSF-PUMP-WGFD01G-2407B	B24071406	7/16/2024		Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	B24071406	7/16/2024		Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	FC17570	7/16/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW2254-01	RHMW2254-01-WGN01LF-2407B	B24071406	7/16/2024		Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406
RHMW03	RHMW03-WGN01LF-2407B	B24071406	7/16/2024		Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406
RHMW03	RHMW03-WGN01LF-2407B	FC17570	7/16/2024		Laboratory Report, SDG FC17570, Level 2, Revision 1	Laboratory Report, SDG FC17570, Level 4, Revision 1	—
RHMW09	RHMW09-WGN01LF-2407B	B24071406	7/16/2024		Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406

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
RHMW19	RHMW19-WGN01LF-2407B	B24071406	7/16/2024	(b) (4)	Laboratory Report, SDG B24071406, Level 2, Revision 1	Laboratory Report, SDG B24071406, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG B24071406
RHMW03	RHMW03-WGN01B-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW03	RHMW03-WGN01LF-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW09	RHMW09-WGN01B-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW09	RHMW09-WGN01LF-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW19	RHMW19-WGN01B-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW19	RHMW19-WGN01LF-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW2254-01	RHMW2254-01-WGN01B-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW2254-01	RHMW2254-01-WGN01LF-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHSF-PUMP	RHSF-PUMP-WGFD01G-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHSF-PUMP	RHSF-PUMP-WGN01G-2407B	FC17269	7/16/2024		Laboratory Report, SDG FC17269, Level 2	Laboratory Report, SDG FC17269, Level 4	Data Validation Report, Level 2B, SDG FC17269
RHMW05	RHMW05-WGN01LF-2407B	1243721	7/17/2024		Laboratory Report, SDG 1243721, Level 2	Laboratory Report, SDG 1243721, Level 4	Data Validation Report, Level S2BVEM, SDG 1243721
RHMW11-05	RHMW11-05-WGN01G-2407B	1243721	7/17/2024		Laboratory Report, SDG 1243721, Level 2	Laboratory Report, SDG 1243721, Level 4	Data Validation Report, Level S2BVEM, SDG 1243721
RHMW14-03	RHMW14-03-WGN01G-2407B	1243721	7/17/2024		Laboratory Report, SDG 1243721, Level 2	Laboratory Report, SDG 1243721, Level 4	Data Validation Report, Level S2BVEM, SDG 1243721
RHP07	RHP07-WGN01LF-2407B	1243721	7/17/2024		Laboratory Report, SDG 1243721, Level 2	Laboratory Report, SDG 1243721, Level 4	Data Validation Report, Level S2BVEM, SDG 1243721
RHP07	RHP07-WGN01LF-2407B	24G0172	7/17/2024		Laboratory Report, SDG 24G0172, Level 2	Laboratory Report, SDG 24G0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0172
RHMW14-03	RHMW14-03-WGN01G-2407B	24G0172	7/17/2024		Laboratory Report, SDG 24G0172, Level 2	Laboratory Report, SDG 24G0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0172
RHMW11-05	RHMW11-05-WGN01G-2407B	24G0172	7/17/2024		Laboratory Report, SDG 24G0172, Level 2	Laboratory Report, SDG 24G0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0172
RHMW05	RHMW05-WGN01LF-2407B	24G0172	7/17/2024		Laboratory Report, SDG 24G0172, Level 2	Laboratory Report, SDG 24G0172, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0172
RHMW05	RHMW05-WGN01LF-2407B	580-142138-1	7/17/2024		Laboratory Report, SDG 580-142138-1, Level 2	Laboratory Report, SDG 580-142138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142138-1
RHMW11-05	RHMW11-05-WGN01G-2407B	580-142138-1	7/17/2024		Laboratory Report, SDG 580-142138-1, Level 2	Laboratory Report, SDG 580-142138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142138-1
RHMW14-03	RHMW14-03-WGN01G-2407B	580-142138-1	7/17/2024		Laboratory Report, SDG 580-142138-1, Level 2	Laboratory Report, SDG 580-142138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142138-1
RHP07	RHP07-WGN01LF-2407B	580-142138-1	7/17/2024		Laboratory Report, SDG 580-142138-1, Level 2	Laboratory Report, SDG 580-142138-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142138-1
RHP07	RHP07-WGN01LF-2407B	B24071480	7/17/2024		Laboratory Report, SDG B24071480, Level 2	Laboratory Report, SDG B24071480, Level 4	Data Validation Report, Level S2BVEM, SDG B24071480
RHMW14-03	RHMW14-03-WGN01G-2407B	B24071480	7/17/2024		Laboratory Report, SDG B24071480, Level 2	Laboratory Report, SDG B24071480, Level 4	Data Validation Report, Level S2BVEM, SDG B24071480
RHMW05	RHMW05-WGN01LF-2407B	B24071480	7/17/2024		Laboratory Report, SDG B24071480, Level 2	Laboratory Report, SDG B24071480, Level 4	Data Validation Report, Level S2BVEM, SDG B24071480
RHMW11-05	RHMW11-05-WGN01G-2407B	B24071480	7/17/2024		Laboratory Report, SDG B24071480, Level 2	Laboratory Report, SDG B24071480, Level 4	Data Validation Report, Level S2BVEM, SDG B24071480
RHMW05	RHMW05-WGN01B-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHMW05	RHMW05-WGN01LF-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHMW11-05	RHMW11-05-WGN01G-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHMW14-03	RHMW14-03-WGN01G-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHP07	RHP07-WGN01B-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHP07	RHP07-WGN01LF-2407B	FC17307	7/17/2024		Laboratory Report, SDG FC17307, Level 2, Revision 1	Laboratory Report, SDG FC17307, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17307
RHP03	RHP03-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHP04A	RHP04A-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHP02	RHP02-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHMW16	RHMW16-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHP01	RHP01-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHMW06	RHMW06-WGN01LF-2407B	1243769	7/18/2024		Laboratory Report, SDG 1243769, Level 2	Laboratory Report, SDG 1243769, Level 4	Data Validation Report, Level S2BVEM, SDG 1243769
RHMW06	RHMW06-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHMW16	RHMW16-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP01	RHP01-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP02	RHP02-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP03	RHP03-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP04A	RHP04A-WGN01LF-2407B	24G0175	7/18/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHMW06	RHMW06-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHMW16	RHMW16-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHP01	RHP01-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHP02	RHP02-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHP03	RHP03-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHP04A	RHP04A-WGN01LF-2407B	580-142179-1	7/18/2024		Laboratory Report, SDG 580-142179-1, Level 2	Laboratory Report, SDG 580-142179-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142179-1
RHP04A	RHP04A-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP03	RHP03-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP02	RHP02-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP02	RHP02-WGN01LF-2407B	FC17817	7/18/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
RHMW16	RHMW16-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHMW06	RHMW06-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP01	RHP01-WGN01LF-2407B	B24071688	7/18/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP01	RHP01-WGN01LF-2407B	FC17817	7/18/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
RHP04A	RHP04A-WGN01LF-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP04A	RHP04A-WGN01B-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP03	RHP03-WGN01LF-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP03	RHP03-WGN01B-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP02	RHP02-WGN01B-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP02	RHP02-WGN01LF-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP01	RHP01-WGN01B-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371

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
RHMW16	RHMW16-WGN01LF-2407B	FC17371	7/18/2024	(b) (4)	Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHMW06	RHMW06-WGN01LF-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHMW06	RHMW06-WGN01B-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHP01	RHP01-WGN01LF-2407B	FC17371	7/18/2024		Laboratory Report, SDG FC17371, Level 2, Revision 1	Laboratory Report, SDG FC17371, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17371
RHMW10	RHMW10-WGN01LF-2407B	1243828	7/19/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHP05	RHP05-WGN01LF-2407B	1243828	7/19/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHP06	RHP06-WGN01LF-2407B	1243828	7/19/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHP08	RHP08-WGN01LF-2407B	1243828	7/19/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHP08	RHP08-WGN01LF-2407B	24G0175	7/19/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP08	RHP08-WGFD01LF-2407B	24G0175	7/19/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHMW10	RHMW10-WGN01LF-2407B	24G0175	7/19/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP05	RHP05-WGN01LF-2407B	24G0175	7/19/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHP06	RHP06-WGN01LF-2407B	24G0175	7/19/2024		Laboratory Report, SDG 24G0175, Level 2	Laboratory Report, SDG 24G0175, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0175
RHMW10	RHMW10-WGN01LF-2407B	580-142246-1	7/19/2024		Laboratory Report, SDG 580-142246-1, Level 2	Laboratory Report, SDG 580-142246-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142246-1
RHP05	RHP05-WGN01LF-2407B	580-142246-1	7/19/2024		Laboratory Report, SDG 580-142246-1, Level 2	Laboratory Report, SDG 580-142246-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142246-1
RHP06	RHP06-WGN01LF-2407B	580-142246-1	7/19/2024		Laboratory Report, SDG 580-142246-1, Level 2	Laboratory Report, SDG 580-142246-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142246-1
RHP08	RHP08-WGN01LF-2407B	580-142246-1	7/19/2024		Laboratory Report, SDG 580-142246-1, Level 2	Laboratory Report, SDG 580-142246-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142246-1
RHMW10	RHMW10-WGN01LF-2407B	B24071688	7/19/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP05	RHP05-WGN01LF-2407B	B24071688	7/19/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP06	RHP06-WGN01LF-2407B	B24071688	7/19/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP08	RHP08-WGFD01LF-2407B	B24071688	7/19/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP08	RHP08-WGN01LF-2407B	B24071688	7/19/2024		Laboratory Report, SDG B24071688, Level 2, Revision 1	Laboratory Report, SDG B24071688, Level 4	Data Validation Report, Level S2BVEM, SDG B24071688
RHP08	RHP08-WGN01LF-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP08	RHP08-WGFD01LF-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP08	RHP08-WGFD01B-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP06	RHP06-WGN01LF-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP08	RHP08-WGN01B-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP05	RHP05-WGN01LF-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP05	RHP05-WGN01B-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHMW10	RHMW10-WGN01LF-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHP06	RHP06-WGN01B-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHMW10	RHMW10-WGN01B-2407B	FC17308	7/19/2024		Laboratory Report, SDG FC17308, Level 2, Revision 1	Laboratory Report, SDG FC17308, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17308, Revision
RHMW13-04	RHMW13-04-WGN01G-2407B	1243828	7/22/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHMW17	RHMW17-WGN01LF-2407B	1243828	7/22/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHMW21	RHMW21-WGN01LF-2407B	1243828	7/22/2024		Laboratory Report, SDG 1243828, Level 2	Laboratory Report, SDG 1243828, Level 4	Data Validation Report, Level S2BVEM, SDG 1243828
RHMW17	RHMW17-WGN01LF-2407B	24G0184	7/22/2024		Laboratory Report, SDG 24G0184, Level 2	Laboratory Report, SDG 24G0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0184
RHMW21	RHMW21-WGN01LF-2407B	24G0184	7/22/2024		Laboratory Report, SDG 24G0184, Level 2	Laboratory Report, SDG 24G0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0184
RHMW17	RHMW17-WGFD01LF-2407B	24G0184	7/22/2024		Laboratory Report, SDG 24G0184, Level 2	Laboratory Report, SDG 24G0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0184
RHMW13-04	RHMW13-04-WGN01G-2407B	24G0206	7/22/2024		Laboratory Report, SDG 24G0184, Level 2	Laboratory Report, SDG 24G0184, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0184
RHMW13-04	RHMW13-04-WGN01G-2407B	580-142298-1	7/22/2024		Laboratory Report, SDG 580-142298-1, Level 2	Laboratory Report, SDG 580-142298-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142298-1
RHMW17	RHMW17-WGN01LF-2407B	580-142298-1	7/22/2024		Laboratory Report, SDG 580-142298-1, Level 2	Laboratory Report, SDG 580-142298-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142298-1
RHMW21	RHMW21-WGN01LF-2407B	580-142298-1	7/22/2024		Laboratory Report, SDG 580-142298-1, Level 2	Laboratory Report, SDG 580-142298-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142298-1
RHMW13-04	RHMW13-04-WGN01G-2407B	B24071879	7/22/2024		Laboratory Report, SDG B24071879, Level 2, Revision	Laboratory Report, SDG B24071879, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24071879
RHMW17	RHMW17-WGFD01LF-2407B	B24071879	7/22/2024		Laboratory Report, SDG B24071879, Level 2, Revision	Laboratory Report, SDG B24071879, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24071879
RHMW17	RHMW17-WGFD01LF-2407B	FC17817	7/22/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
RHMW17	RHMW17-WGN01LF-2407B	B24071879	7/22/2024		Laboratory Report, SDG B24071879, Level 2, Revision	Laboratory Report, SDG B24071879, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24071879
RHMW21	RHMW21-WGN01LF-2407B	B24071879	7/22/2024		Laboratory Report, SDG B24071879, Level 2, Revision	Laboratory Report, SDG B24071879, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24071879
RHMW21	RHMW21-WGN01LF-2407B	FC17817	7/22/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
RHMW21	RHMW21-WGN01LF-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW21	RHMW21-WGN01B-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW17	RHMW17-WGN01LF-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW17	RHMW17-WGN01B-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW17	RHMW17-WGFD01B-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW13-04	RHMW13-04-WGN01G-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
RHMW17	RHMW17-WGFD01LF-2407B	FC17379	7/22/2024		Laboratory Report, SDG FC17379, Level 2, Revision 1	Laboratory Report, SDG FC17379, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17379
NMW34	NMW34-WGN01LF-2407B	1243878	7/23/2024		Laboratory Report, SDG 1243878, Level 2,	Laboratory Report, SDG 1243878, Level 4	Data Validation Report, Level S2BVEM, SDG 1243878
RHMW04	RHMW04-WGN01LF-2407B	1243878	7/23/2024		Laboratory Report, SDG 1243878, Level 2,	Laboratory Report, SDG 1243878, Level 4	Data Validation Report, Level S2BVEM, SDG 1243878
RHMW20	RHMW20-WGN01LF-2407B	1243878	7/23/2024		Laboratory Report, SDG 1243878, Level 2,	Laboratory Report, SDG 1243878, Level 4	Data Validation Report, Level S2BVEM, SDG 1243878
RHP04B	RHP04B-WGN01LF-2407B	1243878	7/23/2024		Laboratory Report, SDG 1243878, Level 2,	Laboratory Report, SDG 1243878, Level 4	Data Validation Report, Level S2BVEM, SDG 1243878
RHP04C	RHP04C-WGN01LF-2407B	1243878	7/23/2024		Laboratory Report, SDG 1243878, Level 2,	Laboratory Report, SDG 1243878, Level 4	Data Validation Report, Level S2BVEM, SDG 1243878
RHP04C	RHP04C-WGN01LF-2407B	24G0206	7/23/2024		Laboratory Report, SDG 24G0206, Level 2	Laboratory Report, SDG 24G0206, Level 4	Data Validation Report, Level S4VEM, SDG 24G0206
RHP04B	RHP04B-WGN01LF-2407B	24G0206	7/23/2024		Laboratory Report, SDG 24G0206, Level 2	Laboratory Report, SDG 24G0206, Level 4	Data Validation Report, Level S4VEM, SDG 24G0206
RHMW04	RHMW04-WGN01LF-2407B	24G0206	7/23/2024		Laboratory Report, SDG 24G0206, Level 2	Laboratory Report, SDG 24G0206, Level 4	Data Validation Report, Level S4VEM, SDG 24G0206
NMW34	NMW34-WGN01LF-2407B	24G0206	7/23/2024		Laboratory Report, SDG 24G0206, Level 2	Laboratory Report, SDG 24G0206, Level 4	Data Validation Report, Level S4VEM, SDG 24G0206
RHMW20	RHMW20-WGN01LF-2407B	24G0206	7/23/2024		Laboratory Report, SDG 24G0206, Level 2	Laboratory Report, SDG 24G0206, Level 4	Data Validation Report, Level S4VEM, SDG 24G0206
NMW34	NMW34-WGN01LF-2407B	580-142335-1	7/23/2024		Laboratory Report, SDG 580-142335-1, Level 2, Revision 1	Laboratory Report, SDG 580-142335-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142335-1

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
RHMW04	RHMW04-WGN01LF-2407B	580-142335-1	7/23/2024	(b) (4)	Laboratory Report, SDG 580-142335-1, Level 2, Revision 1	Laboratory Report, SDG 580-142335-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142335-1
RHMW20	RHMW20-WGN01LF-2407B	580-142335-1	7/23/2024		Laboratory Report, SDG 580-142335-1, Level 2, Revision 1	Laboratory Report, SDG 580-142335-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142335-1
RHP04B	RHP04B-WGN01LF-2407B	580-142335-1	7/23/2024		Laboratory Report, SDG 580-142335-1, Level 2, Revision 1	Laboratory Report, SDG 580-142335-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142335-1
RHP04C	RHP04C-WGN01LF-2407B	580-142335-1	7/23/2024		Laboratory Report, SDG 580-142335-1, Level 2, Revision 1	Laboratory Report, SDG 580-142335-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142335-1
RHP04C	RHP04C-WGN01LF-2407B	B24072012	7/23/2024		Laboratory Report, SDG B24072012, Level 2	Laboratory Report, SDG B24072012, Level 4	Data Validation Report, Level S2BVEM, SDG B24072012
RHP04B	RHP04B-WGN01LF-2407B	B24072012	7/23/2024		Laboratory Report, SDG B24072012, Level 2	Laboratory Report, SDG B24072012, Level 4	Data Validation Report, Level S2BVEM, SDG B24072012
RHP04B	RHP04B-WGN01LF-2407B	FC17817	7/23/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
NMW34	NMW34-WGN01LF-2407B	B24072012	7/23/2024		Laboratory Report, SDG B24072012, Level 2	Laboratory Report, SDG B24072012, Level 4	Data Validation Report, Level S2BVEM, SDG B24072012
RHMW04	RHMW04-WGN01LF-2407B	B24072012	7/23/2024		Laboratory Report, SDG B24072012, Level 2	Laboratory Report, SDG B24072012, Level 4	Data Validation Report, Level S2BVEM, SDG B24072012
RHMW20	RHMW20-WGN01LF-2407B	B24072012	7/23/2024		Laboratory Report, SDG B24072012, Level 2	Laboratory Report, SDG B24072012, Level 4	Data Validation Report, Level S2BVEM, SDG B24072012
RHP04C	RHP04C-WGN01LF-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
RHMW20	RHMW20-WGN01LF-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
RHMW20	RHMW20-WGN01B-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
RHP04B	RHP04B-WGN01LF-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
RHMW04	RHMW04-WGN01B-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
NMW34	NMW34-WGN01LF-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
NMW34	NMW34-WGN01B-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
RHMW04	RHMW04-WGN01LF-2407B	FC17424	7/23/2024		Laboratory Report, SDG FC17424, Level 2, Revision 1,	Laboratory Report, SDG FC17424, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC17424
NMW26	NMW26-WGN01LF-2407B	1243925	7/24/2024		Laboratory Report, SDG 1243925, Level 2	Laboratory Report, SDG 1243925, Level 4	Data Validation Report, Level S2BVEM, SDG 1243925
OWDFMW03A	OWDFMW03A-WGN01LF-2407B	1243925	7/24/2024		Laboratory Report, SDG 1243925, Level 2	Laboratory Report, SDG 1243925, Level 4	Data Validation Report, Level S2BVEM, SDG 1243925
OWDFMW08A	OWDFMW08A-WGN01LF-2407B	1243925	7/24/2024		Laboratory Report, SDG 1243925, Level 2	Laboratory Report, SDG 1243925, Level 4	Data Validation Report, Level S2BVEM, SDG 1243925
NMW26	NMW26-WGN01LF-2407B	24G0217	7/24/2024		Laboratory Report, SDG 24G0217, Level 2	Laboratory Report, SDG 24G0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0217
OWDFMW03A	OWDFMW03A-WGN01LF-2407B	24G0217	7/24/2024		Laboratory Report, SDG 24G0217, Level 2	Laboratory Report, SDG 24G0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0217
OWDFMW08A	OWDFMW08A-WGN01LF-2407B	24G0217	7/24/2024		Laboratory Report, SDG 24G0217, Level 2	Laboratory Report, SDG 24G0217, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0217
OWDFMW08A	OWDFMW08A-WGN01LF-2407B	580-142367-1	7/24/2024		Laboratory Report, SDG 580-142367-1, Level 2, Revision 1	Laboratory Report, SDG 580-142367-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142367-1
NMW26	NMW26-WGN01LF-2407B	580-142367-1	7/24/2024		Laboratory Report, SDG 580-142367-1, Level 2, Revision 1	Laboratory Report, SDG 580-142367-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142367-1
OWDFMW03A	OWDFMW03A-WGN01LF-2407B	580-142367-1	7/24/2024		Laboratory Report, SDG 580-142367-1, Level 2, Revision 1	Laboratory Report, SDG 580-142367-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142367-1
NMW26	NMW26-WGN01LF-2407B	B24072118	7/24/2024		Laboratory Report, SDG B24072118, Level 2,	Laboratory Report, SDG B24072118, Level 4	Data Validation Report, Level S2BVEM, SDG B24072118
OWDFMW03A	OWDFMW03A-WGN01LF-2407B	B24072118	7/24/2024		Laboratory Report, SDG B24072118, Level 2,	Laboratory Report, SDG B24072118, Level 4	Data Validation Report, Level S2BVEM, SDG B24072118
OWDFMW08A	OWDFMW08A-WGN01LF-2407B	B24072118	7/24/2024		Laboratory Report, SDG B24072118, Level 2,	Laboratory Report, SDG B24072118, Level 4	Data Validation Report, Level S2BVEM, SDG B24072118
NMW26	NMW26-WGN01B-2407B	FC17481	7/24/2024		Laboratory Report, SDG FC17481, Level 2	Laboratory Report, SDG FC17481, Level 4	Data Validation Report, Level 2B, SDG FC17481
NMW26	NMW26-WGN01LF-2407B	FC17481	7/24/2024		Laboratory Report, SDG FC17481, Level 2	Laboratory Report, SDG FC17481, Level 4	Data Validation Report, Level 2B, SDG FC17481
OWDFMW03A	OWDFMW03A-WGN01LF-2407B	FC17481	7/24/2024		Laboratory Report, SDG FC17481, Level 2	Laboratory Report, SDG FC17481, Level 4	Data Validation Report, Level 2B, SDG FC17481
OWDFMW08A	OWDFMW08A-WGN01LF-2407B	FC17481	7/24/2024		Laboratory Report, SDG FC17481, Level 2	Laboratory Report, SDG FC17481, Level 4	Data Validation Report, Level 2B, SDG FC17481
RHMW18	RHMW18-WGN01LF-2407B	1243950	7/25/2024		Laboratory Report, SDG 1243950, Level 2	Laboratory Report, SDG 1243950, Level 4	Data Validation Report, Level S2BVEM, SDG 1243950
NMW33	NMW33-WGN01LF-2407B	1243950	7/25/2024		Laboratory Report, SDG 1243950, Level 2	Laboratory Report, SDG 1243950, Level 4	Data Validation Report, Level S2BVEM, SDG 1243950
NMW30	NMW30-WGN01LF-2407B	1243950	7/25/2024		Laboratory Report, SDG 1243950, Level 2	Laboratory Report, SDG 1243950, Level 4	Data Validation Report, Level S2BVEM, SDG 1243950
NMW32	NMW32-WGN01LF-2407B	1243950	7/25/2024		Laboratory Report, SDG 1243950, Level 2	Laboratory Report, SDG 1243950, Level 4	Data Validation Report, Level S2BVEM, SDG 1243950
NMW30	NMW30-WGN01LF-2407B	24G0231	7/25/2024		Laboratory Report, SDG 24G0231, Level 2	Laboratory Report, SDG 24G0231, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0231
NMW32	NMW32-WGN01LF-2407B	24G0231	7/25/2024		Laboratory Report, SDG 24G0231, Level 2	Laboratory Report, SDG 24G0231, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0231
NMW33	NMW33-WGN01LF-2407B	24G0231	7/25/2024		Laboratory Report, SDG 24G0231, Level 2	Laboratory Report, SDG 24G0231, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0231
RHMW18	RHMW18-WGN01LF-2407B	24G0254	7/25/2024		Laboratory Report, SDG 24G0254, Level 2	Laboratory Report, SDG 24G0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0254
RHMW18	RHMW18-WGN01LF-2407B	580-142404-1	7/25/2024		Laboratory Report, SDG 580-142404-1, Level 2	Laboratory Report, SDG 580-142404-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142404-1
NMW33	NMW33-WGN01LF-2407B	580-142404-1	7/25/2024		Laboratory Report, SDG 580-142404-1, Level 2	Laboratory Report, SDG 580-142404-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142404-1
NMW30	NMW30-WGN01LF-2407B	580-142404-1	7/25/2024		Laboratory Report, SDG 580-142404-1, Level 2	Laboratory Report, SDG 580-142404-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142404-1
NMW32	NMW32-WGN01LF-2407B	580-142404-1	7/25/2024		Laboratory Report, SDG 580-142404-1, Level 2	Laboratory Report, SDG 580-142404-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142404-1
NMW30	NMW30-WGN01LF-2407B	B24072275	7/25/2024		Laboratory Report, SDG B24072275, Level 2, Revision	Laboratory Report, SDG B24072275, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072275
NMW32	NMW32-WGN01LF-2407B	B24072275	7/25/2024		Laboratory Report, SDG B24072275, Level 2, Revision	Laboratory Report, SDG B24072275, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072275
NMW33	NMW33-WGN01LF-2407B	B24072275	7/25/2024		Laboratory Report, SDG B24072275, Level 2, Revision	Laboratory Report, SDG B24072275, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072275
RHMW18	RHMW18-WGN01LF-2407B	B24072275	7/25/2024		Laboratory Report, SDG B24072275, Level 2, Revision	Laboratory Report, SDG B24072275, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072275
RHMW18	RHMW18-WGN01LF-2407B	FC17817	7/25/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
NMW32	NMW32-WGN01LF-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW30	NMW30-WGN01B-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW30	NMW30-WGN01LF-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW32	NMW32-WGN01B-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW33	NMW33-WGN01B-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW33	NMW33-WGN01LF-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
RHMW18	RHMW18-WGN01B-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
RHMW18	RHMW18-WGN01LF-2407B	FC17546	7/25/2024		Laboratory Report, SDG FC17546, Level 2	Laboratory Report, SDG FC17546, Level 4	Data Validation Report, Level 2B, SDG FC17546
NMW25	NMW25-WGN01LF-2407B	1244063	7/26/2024		Laboratory Report, SDG 1244063, Level 2	Laboratory Report, SDG 1244063, Level 4	Data Validation Report, Level S2BVEM, SDG 1244063
RHMW12A	RHMW12A-WGN01LF-2407B	1244063	7/26/2024		Laboratory Report, SDG 1244063, Level 2	Laboratory Report, SDG 1244063, Level 4	Data Validation Report, Level S2BVEM, SDG 1244063
HDMW2253-03	HDMW2253-03-WGN01LF-2407B	1244063	7/26/2024		Laboratory Report, SDG 1244063, Level 2	Laboratory Report, SDG 1244063, Level 4	Data Validation Report, Level S2BVEM, SDG 1244063
NMW24	NMW24-WGN01LF-2407B	1244063	7/26/2024		Laboratory Report, SDG 1244063, Level 2	Laboratory Report, SDG 1244063, Level 4	Data Validation Report, Level S2BVEM, SDG 1244063
RHMW12A	RHMW12A-WGN01LF-2407B	24G0254	7/26/2024		Laboratory Report, SDG 24G0254, Level 2	Laboratory Report, SDG 24G0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0254
NMW25	NMW25-WGN01LF-2407B	24G0254	7/26/2024		Laboratory Report, SDG 24G0254, Level 2	Laboratory Report, SDG 24G0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0254
NMW24	NMW24-WGN01LF-2407B	24G0254	7/26/2024		Laboratory Report, SDG 24G0254, Level 2	Laboratory Report, SDG 24G0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0254

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-2407B	24G0254	7/26/2024	(b) (4)	Laboratory Report, SDG 24G0254, Level 2	Laboratory Report, SDG 24G0254, Level 4	Data Validation Report, Level S2BVEM, SDG 24G0254
HDMW2253-03	HDMW2253-03-WGN01LF-2407B	580-142445-1	7/26/2024		Laboratory Report, SDG 580-142445-1, Level 2	Laboratory Report, SDG 580-142445-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142445-1
NMW24	NMW24-WGN01LF-2407B	580-142445-1	7/26/2024		Laboratory Report, SDG 580-142445-1, Level 2	Laboratory Report, SDG 580-142445-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142445-1
NMW25	NMW25-WGN01LF-2407B	580-142445-1	7/26/2024		Laboratory Report, SDG 580-142445-1, Level 2	Laboratory Report, SDG 580-142445-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142445-1
RHMW12A	RHMW12A-WGN01LF-2407B	580-142445-1	7/26/2024		Laboratory Report, SDG 580-142445-1, Level 2	Laboratory Report, SDG 580-142445-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142445-1
RHMW12A	RHMW12A-WGN01LF-2407B	B24072301	7/26/2024		Laboratory Report, SDG B24072301, Level 2, Revision	Laboratory Report, SDG B24072301, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072301
HDMW2253-03	HDMW2253-03-WGN01LF-2407B	B24072301	7/26/2024		Laboratory Report, SDG B24072301, Level 2, Revision	Laboratory Report, SDG B24072301, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072301
NMW24	NMW24-WGN01LF-2407B	B24072301	7/26/2024		Laboratory Report, SDG B24072301, Level 2, Revision	Laboratory Report, SDG B24072301, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072301
NMW24	NMW24-WGN01LF-2407B	FC17817	7/26/2024		Laboratory Report, SDG FC17817 Level 2	Laboratory Report, SDG FC17817 Level 4	—
NMW25	NMW25-WGN01LF-2407B	B24072301	7/26/2024		Laboratory Report, SDG B24072301, Level 2, Revision	Laboratory Report, SDG B24072301, Level 4, Revision	Data Validation Report, Level S2BVEM, SDG B24072301
NMW25	NMW25-WGN01LF-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
NMW25	NMW25-WGN01B-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
RHMW12A	RHMW12A-WGN01LF-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
NMW24	NMW24-WGN01B-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
HDMW2253-03	HDMW2253-03-WGN01LF-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
NMW24	NMW24-WGN01LF-2407B	FC17560	7/26/2024		Laboratory Report, SDG FC17560, Level 2, Revision 1	Laboratory Report, SDG FC17560, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC17560
August 2024 Monthly and Quarterly Sampling							
RHMW21	RHMW21-WGN01LF-2408A	1244198	8/5/2024		Laboratory Report, SDG 1244198, Level 2	Laboratory Report, SDG 1244198, Level 4	Data Validation Report, Level S4VEM, SDG 1244198
RHMW15-05	RHMW15-05-WGN01G-2408A	1244198	8/5/2024		Laboratory Report, SDG 1244198, Level 2	Laboratory Report, SDG 1244198, Level 4	Data Validation Report, Level S4VEM, SDG 1244198
RHMW01R	RHMW01R-WGN01LF-2408A	1244198	8/5/2024		Laboratory Report, SDG 1244198, Level 2	Laboratory Report, SDG 1244198, Level 4	Data Validation Report, Level S4VEM, SDG 1244198
RHMW02	RHMW02-WGN01LF-2408A	1244198	8/5/2024		Laboratory Report, SDG 1244198, Level 2	Laboratory Report, SDG 1244198, Level 4	Data Validation Report, Level S4VEM, SDG 1244198
RHMW08	RHMW08-WGN01LF-2408A	1244198	8/5/2024		Laboratory Report, SDG 1244198, Level 2	Laboratory Report, SDG 1244198, Level 4	Data Validation Report, Level S4VEM, SDG 1244198
RHMW01R	RHMW01R-WGN01LF-2408A	24H0029	8/5/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW02	RHMW02-WGN01LF-2408A	24H0029	8/5/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW08	RHMW08-WGN01LF-2408A	24H0029	8/5/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW15-05	RHMW15-05-WGN01G-2408A	24H0029	8/5/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW21	RHMW21-WGN01LF-2408A	24H0029	8/5/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW15-05	RHMW15-05-WGN01G-2408A	580-142687-1	8/5/2024		Laboratory Report, SDG 580-142687-1, Level 2	Laboratory Report, SDG 580-142687-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142687-1
RHMW01R	RHMW01R-WGN01LF-2408A	580-142687-1	8/5/2024		Laboratory Report, SDG 580-142687-1, Level 2	Laboratory Report, SDG 580-142687-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142687-1
RHMW02	RHMW02-WGN01LF-2408A	580-142687-1	8/5/2024		Laboratory Report, SDG 580-142687-1, Level 2	Laboratory Report, SDG 580-142687-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142687-1
RHMW08	RHMW08-WGN01LF-2408A	580-142687-1	8/5/2024		Laboratory Report, SDG 580-142687-1, Level 2	Laboratory Report, SDG 580-142687-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142687-1
RHMW21	RHMW21-WGN01LF-2408A	580-142687-1	8/5/2024		Laboratory Report, SDG 580-142687-1, Level 2	Laboratory Report, SDG 580-142687-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142687-1
RHMW08	RHMW08-WGN01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW15-05	RHMW15-05-WGN01G-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW08	RHMW08-WGN01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW21	RHMW21-WGN01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW21	RHMW21-WGN01LF-2408A	FC18391	8/5/2024		Laboratory Report, SDG FC18391 Level 2, Revision 1	Laboratory Report, SDG FC18391 Level 4, Revision 1	—
RHMW21	RHMW21-WGN01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW02	RHMW02-WGN01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW02	RHMW02-WGN01LF-2408A	FC18391	8/5/2024		Laboratory Report, SDG FC18391 Level 2, Revision 1	Laboratory Report, SDG FC18391 Level 4, Revision 1	—
RHMW02	RHMW02-WGFD01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW02	RHMW02-WGN01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW02	RHMW02-WGFD01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW01R	RHMW01R-WGN01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW01R	RHMW01R-WGN01LF-2408A	FC18391	8/5/2024		Laboratory Report, SDG FC18391 Level 2, Revision 1	Laboratory Report, SDG FC18391 Level 4, Revision 1	—
RHMW01R	RHMW01R-WGN01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW01R	RHMW01R-WGFD01LF-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHMW01R	RHMW01R-WGFD01B-2408A	FC17737	8/5/2024		Laboratory Report, SDG FC17737, Level 2	Laboratory Report, SDG FC17737, Level 4	Data Validation Report, Level 4, SDG FC17737
RHSF-PUMP	RHSF-PUMP-WGN01G-2408A	1244294	8/6/2024		Laboratory Report, SDG 1244294, Level 2	Laboratory Report, SDG 1244294, Level 4	Data Validation Report, Level S2BVEM, SDG 1244294
RHP08	RHP08-WGN01LF-2408A	1244294	8/6/2024		Laboratory Report, SDG 1244294, Level 2	Laboratory Report, SDG 1244294, Level 4	Data Validation Report, Level S2BVEM, SDG 1244294
RHP06	RHP06-WGN01LF-2408A	1244294	8/6/2024		Laboratory Report, SDG 1244294, Level 2	Laboratory Report, SDG 1244294, Level 4	Data Validation Report, Level S2BVEM, SDG 1244294
RHMW2254-01	RHMW2254-01-WGN01LF-2408A	1244294	8/6/2024		Laboratory Report, SDG 1244294, Level 2	Laboratory Report, SDG 1244294, Level 4	Data Validation Report, Level S2BVEM, SDG 1244294
RHMW03	RHMW03-WGN01LF-2408A	1244294	8/6/2024		Laboratory Report, SDG 1244294, Level 2	Laboratory Report, SDG 1244294, Level 4	Data Validation Report, Level S2BVEM, SDG 1244294
RHMW03	RHMW03-WGN01LF-2408A	24H0029	8/6/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHP06	RHP06-WGN01LF-2408A	24H0029	8/6/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHP08	RHP08-WGN01LF-2408A	24H0029	8/6/2024		Laboratory Report, SDG 24H0029, Level 2	Laboratory Report, SDG 24H0029, Level 4	Data Validation Report, Level S4VEM, SDG 24H0029
RHMW2254-01	RHMW2254-01-WGN01LF-2408A	24H0044	8/6/2024		Laboratory Report, SDG 24H0044, Level 2	Laboratory Report, SDG 24H0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0044
RHSF-PUMP	RHSF-PUMP-WGN01G-2408A	24H0044	8/6/2024		Laboratory Report, SDG 24H0044, Level 2	Laboratory Report, SDG 24H0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0044
RHSF-PUMP	RHSF-PUMP-WGN01G-2408A	580-142721-1	8/6/2024		Laboratory Report, SDG 580-142721-1, Level 2	Laboratory Report, SDG 580-142721-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142721-1
RHP08	RHP08-WGN01LF-2408A	580-142721-1	8/6/2024		Laboratory Report, SDG 580-142721-1, Level 2	Laboratory Report, SDG 580-142721-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142721-1
RHP06	RHP06-WGN01LF-2408A	580-142721-1	8/6/2024		Laboratory Report, SDG 580-142721-1, Level 2	Laboratory Report, SDG 580-142721-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142721-1
RHMW2254-01	RHMW2254-01-WGN01LF-2408A	580-142721-1	8/6/2024		Laboratory Report, SDG 580-142721-1, Level 2	Laboratory Report, SDG 580-142721-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142721-1
RHMW03	RHMW03-WGN01LF-2408A	580-142721-1	8/6/2024		Laboratory Report, SDG 580-142721-1, Level 2	Laboratory Report, SDG 580-142721-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142721-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHSF-PUMP	RHSF-PUMP-WGFD01G-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP08	RHP08-WGN01LF-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772

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
RHP08	RHP08-WGN01B-2408A	FC17772	8/6/2024	(b) (4)	Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP08	RHP08-WGFD01B-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP08	RHP08-WGFD01LF-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP08	RHP08-WGFD01LF-2408A	FC18391	8/6/2024		Laboratory Report, SDG FC18391 Level 2, Revision 1	Laboratory Report, SDG FC18391 Level 4, Revision 1	—
RHP06	RHP06-WGN01B-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHMW2254-01	RHMW2254-01-WGN01LF-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHMW2254-01	RHMW2254-01-WGN01B-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHMW03	RHMW03-WGN01LF-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHMW03	RHMW03-WGN01LF-2408A	FC18391	8/6/2024		Laboratory Report, SDG FC18391 Level 2, Revision 1	Laboratory Report, SDG FC18391 Level 4, Revision 1	—
RHMW03	RHMW03-WGN01B-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP06	RHP06-WGN01LF-2408A	FC17772	8/6/2024		Laboratory Report, SDG FC17772, Level 2	Laboratory Report, SDG FC17772, Level 4	Data Validation Report, Level 2B, SDG FC17772
RHP07	RHP07-WGN01LF-2408A	1244295	8/7/2024		Laboratory Report, SDG 1244295, Level 2	Laboratory Report, SDG 1244295, Level 4	Data Validation Report, Level S2BVEM, SDG 1244295
RHMW05	RHMW05-WGN01LF-2408A	1244295	8/7/2024		Laboratory Report, SDG 1244295, Level 2	Laboratory Report, SDG 1244295, Level 4	Data Validation Report, Level S2BVEM, SDG 1244295
RHMW11-05	RHMW11-05-WGN01G-2408A	1244295	8/7/2024		Laboratory Report, SDG 1244295, Level 2	Laboratory Report, SDG 1244295, Level 4	Data Validation Report, Level S2BVEM, SDG 1244295
RHMW14-03	RHMW14-03-WGN01G-2408A	1244295	8/7/2024		Laboratory Report, SDG 1244295, Level 2	Laboratory Report, SDG 1244295, Level 4	Data Validation Report, Level S2BVEM, SDG 1244295
RHP07	RHP07-WGN01LF-2408A	24H0044	8/7/2024		Laboratory Report, SDG 24H0044, Level 2	Laboratory Report, SDG 24H0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0044
RHMW05	RHMW05-WGN01LF-2408A	24H0044	8/7/2024		Laboratory Report, SDG 24H0044, Level 2	Laboratory Report, SDG 24H0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0044
RHMW14-03	RHMW14-03-WGN01G-2408A	24H0044	8/7/2024		Laboratory Report, SDG 24H0044, Level 2	Laboratory Report, SDG 24H0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0044
RHMW11-05	RHMW11-05-WGN01G-2408A	24H0054	8/7/2024		Laboratory Report, SDG 24H0054, Level 2	Laboratory Report, SDG 24H0054, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0054
RHMW05	RHMW05-WGN01LF-2408A	580-142762-1	8/7/2024		Laboratory Report, SDG 580-142762-1, Level 2, Revision 1	Laboratory Report, SDG 580-142762-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142762-1
RHMW11-05	RHMW11-05-WGN01G-2408A	580-142762-1	8/7/2024		Laboratory Report, SDG 580-142762-1, Level 2, Revision 1	Laboratory Report, SDG 580-142762-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142762-1
RHMW14-03	RHMW14-03-WGN01G-2408A	580-142762-1	8/7/2024		Laboratory Report, SDG 580-142762-1, Level 2, Revision 1	Laboratory Report, SDG 580-142762-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142762-1
RHP07	RHP07-WGN01LF-2408A	580-142762-1	8/7/2024		Laboratory Report, SDG 580-142762-1, Level 2, Revision 1	Laboratory Report, SDG 580-142762-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142762-1
RHP07	RHP07-WGN01LF-2408A	FC17828	8/7/2024		Laboratory Report, SDG FC17828, Level 2	Laboratory Report, SDG FC17828, Level 4	Data Validation Report, Level 2B, SDG FC17828
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RHMW14-03	RHMW14-03-WGN01G-2408A	FC17828	8/7/2024		Laboratory Report, SDG FC17828, Level 2	Laboratory Report, SDG FC17828, Level 4	Data Validation Report, Level 2B, SDG FC17828
RHMW11-05	RHMW11-05-WGN01G-2408A	FC17828	8/7/2024		Laboratory Report, SDG FC17828, Level 2	Laboratory Report, SDG FC17828, Level 4	Data Validation Report, Level 2B, SDG FC17828
RHMW05	RHMW05-WGN01LF-2408A	FC17828	8/7/2024		Laboratory Report, SDG FC17828, Level 2	Laboratory Report, SDG FC17828, Level 4	Data Validation Report, Level 2B, SDG FC17828
RHMW05	RHMW05-WGN01B-2408A	FC17828	8/7/2024		Laboratory Report, SDG FC17828, Level 2	Laboratory Report, SDG FC17828, Level 4	Data Validation Report, Level 2B, SDG FC17828
RHMW06	RHMW06-WGN01LF-2408A	1244333	8/8/2024		Laboratory Report, SDG 1244333, Level 2	Laboratory Report, SDG 1244333, Level 4	Data Validation Report, Level S2BVEM, SDG 1244333
RHMW16	RHMW16-WGN01LF-2408A	1244333	8/8/2024		Laboratory Report, SDG 1244333, Level 2	Laboratory Report, SDG 1244333, Level 4	Data Validation Report, Level S2BVEM, SDG 1244333
RHP01	RHP01-WGN01LF-2408A	1244333	8/8/2024		Laboratory Report, SDG 1244333, Level 2	Laboratory Report, SDG 1244333, Level 4	Data Validation Report, Level S2BVEM, SDG 1244333
RHP02	RHP02-WGN01LF-2408A	1244333	8/8/2024		Laboratory Report, SDG 1244333, Level 2	Laboratory Report, SDG 1244333, Level 4	Data Validation Report, Level S2BVEM, SDG 1244333
RHP02	RHP02-WGN01LF-2408A	24H0054	8/8/2024		Laboratory Report, SDG 24H0054, Level 2	Laboratory Report, SDG 24H0054, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0054
RHP01	RHP01-WGN01LF-2408A	24H0054	8/8/2024		Laboratory Report, SDG 24H0054, Level 2	Laboratory Report, SDG 24H0054, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0054
RHMW16	RHMW16-WGN01LF-2408A	24H0054	8/8/2024		Laboratory Report, SDG 24H0054, Level 2	Laboratory Report, SDG 24H0054, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0054
RHMW06	RHMW06-WGN01LF-2408A	24H0054	8/8/2024		Laboratory Report, SDG 24H0054, Level 2	Laboratory Report, SDG 24H0054, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0054
RHMW06	RHMW06-WGN01LF-2408A	580-142805-1	8/8/2024		Laboratory Report, SDG 580-142805-1, Level 2	Laboratory Report, SDG 580-142805-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142805-1
RHMW16	RHMW16-WGN01LF-2408A	580-142805-1	8/8/2024		Laboratory Report, SDG 580-142805-1, Level 2	Laboratory Report, SDG 580-142805-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142805-1
RHP01	RHP01-WGN01LF-2408A	580-142805-1	8/8/2024		Laboratory Report, SDG 580-142805-1, Level 2	Laboratory Report, SDG 580-142805-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142805-1
RHP02	RHP02-WGN01LF-2408A	580-142805-1	8/8/2024		Laboratory Report, SDG 580-142805-1, Level 2	Laboratory Report, SDG 580-142805-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142805-1
RHP02	RHP02-WGN01LF-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHMW06	RHMW06-WGN01B-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHMW06	RHMW06-WGN01LF-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHMW16	RHMW16-WGN01LF-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHP01	RHP01-WGN01B-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHP01	RHP01-WGN01LF-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHP02	RHP02-WGN01B-2408A	FC17870	8/8/2024		Laboratory Report, SDG FC17870, Level 2	Laboratory Report, SDG FC17870, Level 4	Data Validation Report, Level 2B, SDG FC17870
RHMW19	RHMW19-WGN01LF-2408A	1244418	8/9/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
RHP05	RHP05-WGN01LF-2408A	1244418	8/9/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
RHMW09	RHMW09-WGN01LF-2408A	1244418	8/9/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
RHMW10	RHMW10-WGN01LF-2408A	1244418	8/9/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
RHP05	RHP05-WGN01LF-2408A	24H0060	8/9/2024		Laboratory Report, SDG 24H0060, Level 2	Laboratory Report, SDG 24H0060, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0060
RHMW19	RHMW19-WGN01LF-2408A	24H0060	8/9/2024		Laboratory Report, SDG 24H0060, Level 2	Laboratory Report, SDG 24H0060, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0060
RHMW10	RHMW10-WGN01LF-2408A	24H0060	8/9/2024		Laboratory Report, SDG 24H0060, Level 2	Laboratory Report, SDG 24H0060, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0060
RHMW09	RHMW09-WGN01LF-2408A	24H0060	8/9/2024		Laboratory Report, SDG 24H0060, Level 2	Laboratory Report, SDG 24H0060, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0060
RHMW09	RHMW09-WGN01LF-2408A	580-142844-1	8/9/2024		Laboratory Report, SDG 580-142844-1, Level 2, Revision 1	Laboratory Report, SDG 580-142844-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142844-1
RHMW10	RHMW10-WGN01LF-2408A	580-142844-1	8/9/2024		Laboratory Report, SDG 580-142844-1, Level 2, Revision 1	Laboratory Report, SDG 580-142844-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142844-1
RHMW19	RHMW19-WGN01LF-2408A	580-142844-1	8/9/2024		Laboratory Report, SDG 580-142844-1, Level 2, Revision 1	Laboratory Report, SDG 580-142844-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142844-1
RHP05	RHP05-WGN01LF-2408A	580-142844-1	8/9/2024		Laboratory Report, SDG 580-142844-1, Level 2, Revision 1	Laboratory Report, SDG 580-142844-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-142844-1
RHP05	RHP05-WGN01LF-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHP05	RHP05-WGN01B-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW19	RHMW19-WGN01LF-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW19	RHMW19-WGN01B-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW10	RHMW10-WGN01B-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW09	RHMW09-WGN01LF-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872

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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
RHMW09	RHMW09-WGN01B-2408A	FC17872	8/9/2024	(b) (4)	Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW10	RHMW10-WGN01LF-2408A	FC17872	8/9/2024		Laboratory Report, SDG FC17872, Level 2	Laboratory Report, SDG FC17872, Level 4	Data Validation Report, Level 2B, SDG FC17872
RHMW13-04	RHMW13-04-WGN01G-2408A	1244418	8/12/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
NMW26	NMW26-WGN01LF-2408A	1244418	8/12/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
RHMW17	RHMW17-WGN01LF-2408A	1244418	8/12/2024		Laboratory Report, SDG 1244418, Level 2	Laboratory Report, SDG 1244418, Level 4	Data Validation Report, Level S2BVEM, SDG 1244418
NMW26	NMW26-WGN01LF-2408A	24H0065	8/12/2024		Laboratory Report, SDG 24H0065, Level 2	Laboratory Report, SDG 24H0065, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0065
RHMW13-04	RHMW13-04-WGN01G-2408A	24H0077	8/12/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
RHMW17	RHMW17-WGN01LF-2408A	24H0077	8/12/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
NMW26	NMW26-WGN01LF-2408A	580-142878-1	8/12/2024		Laboratory Report, SDG 580-142878-1, Level 2	Laboratory Report, SDG 580-142878-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142878-1
RHMW13-04	RHMW13-04-WGN01G-2408A	580-142878-1	8/12/2024		Laboratory Report, SDG 580-142878-1, Level 2	Laboratory Report, SDG 580-142878-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142878-1
RHMW17	RHMW17-WGN01LF-2408A	580-142878-1	8/12/2024		Laboratory Report, SDG 580-142878-1, Level 2	Laboratory Report, SDG 580-142878-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142878-1
RHMW17	RHMW17-WGN01LF-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
RHMW17	RHMW17-WGN01B-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
RHMW17	RHMW17-WGFD01LF-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
RHMW17	RHMW17-WGFD01B-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
RHMW13-04	RHMW13-04-WGN01G-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
NMW26	NMW26-WGN01LF-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
NMW26	NMW26-WGN01B-2408A	FC17919	8/12/2024		Laboratory Report, SDG FC17919, Level 2	Laboratory Report, SDG FC17919, Level 4	Data Validation Report, Level 2B, SDG FC17919
NMW34	NMW34-WGN01LF-2408A	1244440	8/13/2024		Laboratory Report, SDG 1244440, Level 2	Laboratory Report, SDG 1244440, Level 4	Data Validation Report, Level S2BVEM, SDG 1244440
RHMW04	RHMW04-WGN01LF-2408A	1244440	8/13/2024		Laboratory Report, SDG 1244440, Level 2	Laboratory Report, SDG 1244440, Level 4	Data Validation Report, Level S2BVEM, SDG 1244440
RHMW20	RHMW20-WGN01LF-2408A	1244440	8/13/2024		Laboratory Report, SDG 1244440, Level 2	Laboratory Report, SDG 1244440, Level 4	Data Validation Report, Level S2BVEM, SDG 1244440
RHP04B	RHP04B-WGN01LF-2408A	1244440	8/13/2024		Laboratory Report, SDG 1244440, Level 2	Laboratory Report, SDG 1244440, Level 4	Data Validation Report, Level S2BVEM, SDG 1244440
RHP04C	RHP04C-WGN01LF-2408A	1244440	8/13/2024		Laboratory Report, SDG 1244440, Level 2	Laboratory Report, SDG 1244440, Level 4	Data Validation Report, Level S2BVEM, SDG 1244440
RHP04B	RHP04B-WGN01LF-2408A	24H0077	8/13/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
RHMW20	RHMW20-WGN01LF-2408A	24H0077	8/13/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
RHMW04	RHMW04-WGN01LF-2408A	24H0077	8/13/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
NMW34	NMW34-WGN01LF-2408A	24H0077	8/13/2024		Laboratory Report, SDG 24H0077, Level 2	Laboratory Report, SDG 24H0077, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0077
RHP04C	RHP04C-WGN01LF-2408A	24H0087	8/13/2024		Laboratory Report, SDG 24H0087, Level 2	Laboratory Report, SDG 24H0087, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0087
NMW34	NMW34-WGN01LF-2408A	580-142912-1	8/13/2024		Laboratory Report, SDG 580-142912-1, Level 2	Laboratory Report, SDG 580-142912-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142912-1
RHMW04	RHMW04-WGN01LF-2408A	580-142912-1	8/13/2024		Laboratory Report, SDG 580-142912-1, Level 2	Laboratory Report, SDG 580-142912-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142912-1
RHMW20	RHMW20-WGN01LF-2408A	580-142912-1	8/13/2024		Laboratory Report, SDG 580-142912-1, Level 2	Laboratory Report, SDG 580-142912-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142912-1
RHP04B	RHP04B-WGN01LF-2408A	580-142912-1	8/13/2024		Laboratory Report, SDG 580-142912-1, Level 2	Laboratory Report, SDG 580-142912-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142912-1
RHP04C	RHP04C-WGN01LF-2408A	580-142912-1	8/13/2024		Laboratory Report, SDG 580-142912-1, Level 2	Laboratory Report, SDG 580-142912-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-142912-1
RHP04C	RHP04C-WGN01LF-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHP04B	RHP04B-WGN01LF-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHMW20	RHMW20-WGN01LF-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHMW20	RHMW20-WGN01B-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
NMW34	NMW34-WGN01LF-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHMW04	RHMW04-WGN01B-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
NMW34	NMW34-WGN01B-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHMW04	RHMW04-WGN01LF-2408A	FC17965	8/13/2024		Laboratory Report, SDG FC17965, Level 2	Laboratory Report, SDG FC17965, Level 4	Data Validation Report, Level 2B, SDG FC17965
RHP08C	RHP08C-WGN01LF-2408A	1244480	8/14/2024		Laboratory Report, SDG 1244480, Level 2	Laboratory Report, SDG 1244480, Level 4	Data Validation Report, Level S2BVEM, SDG 1244480
NMW24	NMW24-WGN01LF-2408A	1244480	8/14/2024		Laboratory Report, SDG 1244480, Level 2	Laboratory Report, SDG 1244480, Level 4	Data Validation Report, Level S2BVEM, SDG 1244480
NMW25	NMW25-WGN01LF-2408A	1244480	8/14/2024		Laboratory Report, SDG 1244480, Level 2	Laboratory Report, SDG 1244480, Level 4	Data Validation Report, Level S2BVEM, SDG 1244480
NMW25	NMW25-WGN01LF-2408A	24H0087	8/14/2024		Laboratory Report, SDG 24H0087, Level 2	Laboratory Report, SDG 24H0087, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0087
NMW24	NMW24-WGN01LF-2408A	24H0087	8/14/2024		Laboratory Report, SDG 24H0087, Level 2	Laboratory Report, SDG 24H0087, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0087
RHP08C	RHP08C-WGN01LF-2408A	24H0104	8/14/2024		Laboratory Report, SDG 24H0087, Level 2	Laboratory Report, SDG 24H0087, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0087
NMW24	NMW24-WGN01LF-2408A	580-142947-1	8/14/2024		Laboratory Report, SDG 580-142947-1, Level 2	Laboratory Report, SDG 580-142947-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-142947-1
NMW25	NMW25-WGN01LF-2408A	580-142947-1	8/14/2024		Laboratory Report, SDG 580-142947-1, Level 2	Laboratory Report, SDG 580-142947-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-142947-1
RHP08C	RHP08C-WGN01LF-2408A	580-142947-1	8/14/2024		Laboratory Report, SDG 580-142947-1, Level 2	Laboratory Report, SDG 580-142947-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-142947-1
RHP08C	RHP08C-WGN01LF-2408A	B24081444	8/14/2024		Laboratory Report, SDG B24081444, Level 2	Laboratory Report, SDG B24081444, Level 4	Data Validation Report, Level S2BVEM, SDG B24081444,
NMW24	NMW24-WGN01B-2408A	FC18016	8/14/2024		Laboratory Report, SDG FC18016, Level 2	Laboratory Report, SDG FC18016, Level 4	Data Validation Report, Level 4, SDG FC18016
NMW24	NMW24-WGN01LF-2408A	FC18016	8/14/2024		Laboratory Report, SDG FC18016, Level 2	Laboratory Report, SDG FC18016, Level 4	Data Validation Report, Level 4, SDG FC18016
NMW25	NMW25-WGN01B-2408A	FC18016	8/14/2024		Laboratory Report, SDG FC18016, Level 2	Laboratory Report, SDG FC18016, Level 4	Data Validation Report, Level 4, SDG FC18016
NMW25	NMW25-WGN01LF-2408A	FC18016	8/14/2024		Laboratory Report, SDG FC18016, Level 2	Laboratory Report, SDG FC18016, Level 4	Data Validation Report, Level 4, SDG FC18016
RHP08C	RHP08C-WGN01LF-2408A	FC18016	8/14/2024		Laboratory Report, SDG FC18016, Level 2	Laboratory Report, SDG FC18016, Level 4	Data Validation Report, Level 4, SDG FC18016
HDMW2253-03	HDMW2253-03-WGN01LF-2408A	1244520	8/15/2024		Laboratory Report, SDG 1244520, Level 2	Laboratory Report, SDG 1244520, Level 4	Data Validation Report, Level S2BVEM, SDG 1244520,
NMW30	NMW30-WGN01LF-2408A	1244520	8/15/2024		Laboratory Report, SDG 1244520, Level 2	Laboratory Report, SDG 1244520, Level 4	Data Validation Report, Level S2BVEM, SDG 1244520,
RHMW12A	RHMW12A-WGN01LF-2408A	1244520	8/15/2024		Laboratory Report, SDG 1244520, Level 2	Laboratory Report, SDG 1244520, Level 4	Data Validation Report, Level S2BVEM, SDG 1244520,
RHMW18	RHMW18-WGN01LF-2408A	1244520	8/15/2024		Laboratory Report, SDG 1244520, Level 2	Laboratory Report, SDG 1244520, Level 4	Data Validation Report, Level S2BVEM, SDG 1244520,
NMW30	NMW30-WGN01LF-2408A	24H0104	8/15/2024		Laboratory Report, SDG 24H0104, Level 2	Laboratory Report, SDG 24H0104, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0104
RHMW12A	RHMW12A-WGN01LF-2408A	24H0104	8/15/2024		Laboratory Report, SDG 24H0104, Level 2	Laboratory Report, SDG 24H0104, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0104
HDMW2253-03	HDMW2253-03-WGN01LF-2408A	24H0104	8/15/2024		Laboratory Report, SDG 24H0104, Level 2	Laboratory Report, SDG 24H0104, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0104
RHMW18	RHMW18-WGN01LF-2408A	24H0109	8/15/2024		Laboratory Report, SDG 24H0109, Level 2	Laboratory Report, SDG 24H0109, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0109
RHMW18	RHMW18-WGN01LF-2408A	580-142944-1	8/15/2024		Laboratory Report, SDG 580-142944-1, Level 2	Laboratory Report, SDG 580-142944-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142944-1
RHMW12A	RHMW12A-WGN01LF-2408A	580-142944-1	8/15/2024		Laboratory Report, SDG 580-142944-1, Level 2	Laboratory Report, SDG 580-142944-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142944-1

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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
HDMW2253-03	HDMW2253-03-WGN01LF-2408A	580-142944-1	8/15/2024	(b) (4)	Laboratory Report, SDG 580-142944-1, Level 2	Laboratory Report, SDG 580-142944-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142944-1
NMW30	NMW30-WGN01LF-2408A	580-142944-1	8/15/2024		Laboratory Report, SDG 580-142944-1, Level 2	Laboratory Report, SDG 580-142944-1, Level 4	Data Validation Report, Level S4VEM, SDG 580-142944-1
HDMW2253-03	HDMW2253-03-WGN01LF-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
NMW30	NMW30-WGN01B-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
NMW30	NMW30-WGN01LF-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
RHMW12A	RHMW12A-WGN01LF-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
RHMW18	RHMW18-WGN01B-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
RHMW18	RHMW18-WGN01LF-2408A	FC18072	8/15/2024		Laboratory Report, SDG FC18072, Level 2	Laboratory Report, SDG FC18072, Level 4	Data Validation Report, Level 2B, SDG FC18072
NMW33	NMW33-WGN01LF-2408A	1244605	8/16/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
NMW32	NMW32-WGN01LF-2408A	1244605	8/16/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
NMW32	NMW32-WGN01LF-2408A	24H0109	8/16/2024		Laboratory Report, SDG 24H0109, Level 2	Laboratory Report, SDG 24H0109, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0109
NMW33	NMW33-WGN01LF-2408A	24H0109	8/16/2024		Laboratory Report, SDG 24H0109, Level 2	Laboratory Report, SDG 24H0109, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0109
NMW32	NMW32-WGN01LF-2408A	580-143030-1	8/16/2024		Laboratory Report, SDG 580-143030-1, Level 2	Laboratory Report, SDG 580-143030-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143030-1
NMW33	NMW33-WGN01LF-2408A	580-143030-1	8/16/2024		Laboratory Report, SDG 580-143030-1, Level 2	Laboratory Report, SDG 580-143030-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143030-1
NMW33	NMW33-WGN01LF-2408A	FC18089	8/16/2024		Laboratory Report, SDG FC18089, Level 2	Laboratory Report, SDG FC18089, Level 4	Data Validation Report, Level 2B, SDG FC18089
NMW32	NMW32-WGN01B-2408A	FC18089	8/16/2024		Laboratory Report, SDG FC18089, Level 2	Laboratory Report, SDG FC18089, Level 4	Data Validation Report, Level 2B, SDG FC18089
NMW32	NMW32-WGN01LF-2408A	FC18089	8/16/2024		Laboratory Report, SDG FC18089, Level 2	Laboratory Report, SDG FC18089, Level 4	Data Validation Report, Level 2B, SDG FC18089
NMW33	NMW33-WGN01B-2408A	FC18089	8/16/2024		Laboratory Report, SDG FC18089, Level 2	Laboratory Report, SDG FC18089, Level 4	Data Validation Report, Level 2B, SDG FC18089
RHP08	RHP08-WGN01LF-2408B	1244605	8/19/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
RHP06	RHP06-WGN01LF-2408B	1244605	8/19/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
RHMW11-05	RHMW11-05-WGN01G-2408B	1244605	8/19/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
RHMW14-03	RHMW14-03-WGN01G-2408B	1244605	8/19/2024		Laboratory Report, SDG 1244605, Level 2	Laboratory Report, SDG 1244605, Level 4	Data Validation Report, Level S4VEM, SDG 1244605
RHMW14-03	RHMW14-03-WGN01G-2408B	24H0114	8/19/2024		Laboratory Report, SDG 24H0114, Level 2	Laboratory Report, SDG 24H0114, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0114
RHP06	RHP06-WGN01LF-2408B	24H0114	8/19/2024		Laboratory Report, SDG 24H0114, Level 2	Laboratory Report, SDG 24H0114, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0114
RHP08	RHP08-WGN01LF-2408B	24H0114	8/19/2024		Laboratory Report, SDG 24H0114, Level 2	Laboratory Report, SDG 24H0114, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0114
RHMW11-05	RHMW11-05-WGN01G-2408B	24H0130	8/19/2024		Laboratory Report, SDG 24H0130, Level 2	Laboratory Report, SDG 24H0130, Level 4	Data Validation Report, Level S4VEM, SDG 24H0130
RHMW11-05	RHMW11-05-WGN01G-2408B	580-143072-1	8/19/2024		Laboratory Report, SDG 580-143072-1, Level 2	Laboratory Report, SDG 580-143072-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-143072-1
RHMW14-03	RHMW14-03-WGN01G-2408B	580-143072-1	8/19/2024		Laboratory Report, SDG 580-143072-1, Level 2	Laboratory Report, SDG 580-143072-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-143072-1
RHP06	RHP06-WGN01LF-2408B	580-143072-1	8/19/2024		Laboratory Report, SDG 580-143072-1, Level 2	Laboratory Report, SDG 580-143072-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-143072-1
RHP08	RHP08-WGN01LF-2408B	580-143072-1	8/19/2024		Laboratory Report, SDG 580-143072-1, Level 2	Laboratory Report, SDG 580-143072-1, Level 4,	Data Validation Report, Level S2BVEM, SDG 580-143072-1
RHP08	RHP08-WGFD01LF-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHP08	RHP08-WGN01LF-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHP08	RHP08-WGFD01B-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHP08	RHP08-WGN01B-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHP06	RHP06-WGN01B-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHMW14-03	RHMW14-03-WGN01G-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHMW11-05	RHMW11-05-WGN01G-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHP06	RHP06-WGN01LF-2408B	FC18142	8/19/2024		Laboratory Report, SDG FC18142, Level 2, Revision 1	Laboratory Report, SDG FC18142, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18142,
RHSF-PUMP	RHSF-PUMP-WGN01G-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHP02	RHP02-WGN01LF-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHP01	RHP01-WGN01LF-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHMW03	RHMW03-WGN01LF-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHMW16	RHMW16-WGN01LF-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHMW2254-01	RHMW2254-01-WGN01LF-2408B	1244651	8/20/2024		Laboratory Report, SDG 1244651, Level 2	Laboratory Report, SDG 1244651, Level 4	Data Validation Report, Level S4VEM, SDG 1244651
RHMW03	RHMW03-WGN01LF-2408B	24H0130	8/20/2024		Laboratory Report, SDG 24H0130, Level 2	Laboratory Report, SDG 24H0130, Level 4	Data Validation Report, Level S4VEM, SDG 24H0130
RHMW16	RHMW16-WGN01LF-2408B	24H0130	8/20/2024		Laboratory Report, SDG 24H0130, Level 2	Laboratory Report, SDG 24H0130, Level 4	Data Validation Report, Level S4VEM, SDG 24H0130
RHP01	RHP01-WGN01LF-2408B	24H0130	8/20/2024		Laboratory Report, SDG 24H0130, Level 2	Laboratory Report, SDG 24H0130, Level 4	Data Validation Report, Level S4VEM, SDG 24H0130
RHP02	RHP02-WGN01LF-2408B	24H0130	8/20/2024		Laboratory Report, SDG 24H0130, Level 2	Laboratory Report, SDG 24H0130, Level 4	Data Validation Report, Level S4VEM, SDG 24H0130
RHMW2254-01	RHMW2254-01-WGN01LF-2408B	24H0141	8/20/2024		Laboratory Report, SDG 24H0141, Level 2	Laboratory Report, SDG 24H0141, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0141
RHSF-PUMP	RHSF-PUMP-WGN01G-2408B	24H0141	8/20/2024		Laboratory Report, SDG 24H0141, Level 2	Laboratory Report, SDG 24H0141, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0141
RHSF-PUMP	RHSF-PUMP-WGN01G-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHP02	RHP02-WGN01LF-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHP01	RHP01-WGN01LF-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHMW16	RHMW16-WGN01LF-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHMW03	RHMW03-WGN01LF-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHMW2254-01	RHMW2254-01-WGN01LF-2408B	580-143109-1	8/20/2024		Laboratory Report, SDG 580-143109-1, Level 2	Laboratory Report, SDG 580-143109-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143109-1
RHP02	RHP02-WGN01B-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHSF-PUMP	RHSF-PUMP-WGFD01G-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHSF-PUMP	RHSF-PUMP-WGN01G-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHP02	RHP02-WGN01LF-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHP01	RHP01-WGN01LF-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHMW03	RHMW03-WGN01LF-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHMW03	RHMW03-WGN01LF-2408B	FC18994	8/20/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
RHMW2254-01	RHMW2254-01-WGN01LF-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHMW2254-01	RHMW2254-01-WGN01B-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHMW16	RHMW16-WGN01LF-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177

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-WGN01B-2408B	FC18177	8/20/2024	(b) (4)	Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHP01	RHP01-WGN01B-2408B	FC18177	8/20/2024		Laboratory Report, SDG FC18177, Level 2	Laboratory Report, SDG FC18177, Level 4	Data Validation Report, Level 2B, SDG FC18177
RHMW05	RHMW05-WGN01LF-2408B	1244686	8/21/2024		Laboratory Report, SDG 1244686, Level 2	Laboratory Report, SDG 1244686, Level 4	Data Validation Report, Level S2BVEM, SDG 1244686,
RHMW08	RHMW08-WGN01LF-2408B	1244686	8/21/2024		Laboratory Report, SDG 1244686, Level 2	Laboratory Report, SDG 1244686, Level 4	Data Validation Report, Level S2BVEM, SDG 1244686,
RHMW15-05	RHMW15-05-WGN01G-2408B	1244686	8/21/2024		Laboratory Report, SDG 1244686, Level 2	Laboratory Report, SDG 1244686, Level 4	Data Validation Report, Level S2BVEM, SDG 1244686,
RHP07	RHP07-WGN01LF-2408B	1244686	8/21/2024		Laboratory Report, SDG 1244686, Level 2	Laboratory Report, SDG 1244686, Level 4	Data Validation Report, Level S2BVEM, SDG 1244686,
RHMW05	RHMW05-WGN01LF-2408B	24H0141	8/21/2024		Laboratory Report, SDG 24H0141, Level 2	Laboratory Report, SDG 24H0141, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0141
RHP07	RHP07-WGN01LF-2408B	24H0141	8/21/2024		Laboratory Report, SDG 24H0141, Level 2	Laboratory Report, SDG 24H0141, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0141
RHMW15-05	RHMW15-05-WGN01G-2408B	24H0157	8/21/2024		Laboratory Report, SDG 24H0157, Level 2	Laboratory Report, SDG 24H0157, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0157
RHMW08	RHMW08-WGN01LF-2408B	24H0157	8/21/2024		Laboratory Report, SDG 24H0157, Level 2	Laboratory Report, SDG 24H0157, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0157
RHP07	RHP07-WGN01LF-2408B	580-143167-1	8/21/2024		Laboratory Report, SDG 580-143167-1, Level 2	Laboratory Report, SDG 580-143167-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143167-1
RHMW15-05	RHMW15-05-WGN01G-2408B	580-143167-1	8/21/2024		Laboratory Report, SDG 580-143167-1, Level 2	Laboratory Report, SDG 580-143167-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143167-1
RHMW05	RHMW05-WGN01LF-2408B	580-143167-1	8/21/2024		Laboratory Report, SDG 580-143167-1, Level 2	Laboratory Report, SDG 580-143167-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143167-1
RHMW08	RHMW08-WGN01LF-2408B	580-143167-1	8/21/2024		Laboratory Report, SDG 580-143167-1, Level 2	Laboratory Report, SDG 580-143167-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143167-1
RHMW05	RHMW05-WGN01B-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHMW05	RHMW05-WGN01LF-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHMW08	RHMW08-WGN01B-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHMW08	RHMW08-WGN01LF-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHMW15-05	RHMW15-05-WGN01G-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHP07	RHP07-WGN01B-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHP07	RHP07-WGN01LF-2408B	FC18228	8/21/2024		Laboratory Report, SDG FC18228, Level 2	Laboratory Report, SDG FC18228, Level 4	Data Validation Report, Level 2B, SDG FC18228
RHMW01R	RHMW01R-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHMW02	RHMW02-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHMW06	RHMW06-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHMW21	RHMW21-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHP03	RHP03-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHP04A	RHP04A-WGN01LF-2408B	1244710	8/22/2024		Laboratory Report, SDG 1244710, Level 2	Laboratory Report, SDG 1244710, Level 4	Data Validation Report, Level S2BVEM, SDG 1244710
RHP03	RHP03-WGN01LF-2408B	24H0157	8/22/2024		Laboratory Report, SDG 24H0157, Level 2	Laboratory Report, SDG 24H0157, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0157
RHMW21	RHMW21-WGN01LF-2408B	24H0157	8/22/2024		Laboratory Report, SDG 24H0157, Level 2	Laboratory Report, SDG 24H0157, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0157
RHP04A	RHP04A-WGN01LF-2408B	24H0170	8/22/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW06	RHMW06-WGN01LF-2408B	24H0170	8/22/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW01R	RHMW01R-WGN01LF-2408B	24H0170	8/22/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW02	RHMW02-WGN01LF-2408B	24H0170	8/22/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW01R	RHMW01R-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHMW02	RHMW02-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHMW06	RHMW06-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHMW21	RHMW21-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHP03	RHP03-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHP04A	RHP04A-WGN01LF-2408B	580-143208-1	8/22/2024		Laboratory Report, SDG 580-143208-1, Level 2, Revision 1	Laboratory Report, SDG 580-143208-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143208-1
RHMW21	RHMW21-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW21	RHMW21-WGN01LF-2408B	FC18994	8/22/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
RHMW21	RHMW21-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHP03	RHP03-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW06	RHMW06-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW06	RHMW06-WGN01LF-2408B	FC18994	8/22/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
RHP04A	RHP04A-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHP04A	RHP04A-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHP03	RHP03-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW06	RHMW06-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW02	RHMW02-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW02	RHMW02-WGN01LF-2408B	FC18994	8/22/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
RHMW02	RHMW02-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW02	RHMW02-WGFD01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW02	RHMW02-WGFD01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW01R	RHMW01R-WGN01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW01R	RHMW01R-WGN01LF-2408B	FC18994	8/22/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
RHMW01R	RHMW01R-WGN01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW01R	RHMW01R-WGFD01LF-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHMW01R	RHMW01R-WGFD01B-2408B	FC18287	8/22/2024		Laboratory Report, SDG FC18287, Level 2	Laboratory Report, SDG FC18287, Level 4	Data Validation Report, Level 2B, SDG FC18287
RHP05	RHP05-WGN01LF-2408B	1244802	8/23/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW19	RHMW19-WGN01LF-2408B	1244802	8/23/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW10	RHMW10-WGN01LF-2408B	1244802	8/23/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW09	RHMW09-WGN01LF-2408B	1244802	8/23/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW09	RHMW09-WGN01LF-2408B	24H0170	8/23/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW10	RHMW10-WGN01LF-2408B	24H0170	8/23/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170
RHMW19	RHMW19-WGN01LF-2408B	24H0170	8/23/2024		Laboratory Report, SDG 24H0170, Level 2	Laboratory Report, SDG 24H0170, Level 4, Revision 0	Data Validation Report, Level S2BVEM, SDG 24H0170

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
RHP05	RHP05-WGN01LF-2408B	24H0185	8/23/2024	(b) (4)	Laboratory Report, SDG 24H0185, Level 2	Laboratory Report, SDG 24H0185, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0185
RHP05	RHP05-WGN01LF-2408B	580-143256-1	8/23/2024		Laboratory Report, SDG 580-143256-1, Level 2	Laboratory Report, SDG 580-143256-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143256-1
RHMW19	RHMW19-WGN01LF-2408B	580-143256-1	8/23/2024		Laboratory Report, SDG 580-143256-1, Level 2	Laboratory Report, SDG 580-143256-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143256-1
RHMW10	RHMW10-WGN01LF-2408B	580-143256-1	8/23/2024		Laboratory Report, SDG 580-143256-1, Level 2	Laboratory Report, SDG 580-143256-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143256-1
RHMW09	RHMW09-WGN01LF-2408B	580-143256-1	8/23/2024		Laboratory Report, SDG 580-143256-1, Level 2	Laboratory Report, SDG 580-143256-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143256-1
RHMW09	RHMW09-WGN01B-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHMW09	RHMW09-WGN01LF-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHMW10	RHMW10-WGN01B-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHMW10	RHMW10-WGN01LF-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHMW19	RHMW19-WGN01B-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHMW19	RHMW19-WGN01LF-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHP05	RHP05-WGN01B-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
RHP05	RHP05-WGN01LF-2408B	FC18309	8/23/2024		Laboratory Report, SDG FC18309, Level 2	Laboratory Report, SDG FC18309, Level 4	Data Validation Report, Level 2B, SDG FC18309
NMW26	NMW26-WGN01LF-2408B	1244802	8/26/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW13-04	RHMW13-04-WGN01G-2408B	1244802	8/26/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
RHMW17	RHMW17-WGN01LF-2408B	1244802	8/26/2024		Laboratory Report, SDG 1244802, Level 2	Laboratory Report, SDG 1244802, Level 4	Data Validation Report, Level S2BVEM, SDG 1244802
NMW26	NMW26-WGN01LF-2408B	24H0185	8/26/2024		Laboratory Report, SDG 24H0185, Level 2	Laboratory Report, SDG 24H0185, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0185
RHMW13-04	RHMW13-04-WGN01G-2408B	24H0193	8/26/2024		Laboratory Report, SDG 24H0193, Level 2	Laboratory Report, SDG 24H0193, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0193
RHMW17	RHMW17-WGN01LF-2408B	24H0193	8/26/2024		Laboratory Report, SDG 24H0193, Level 2	Laboratory Report, SDG 24H0193, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0193
RHMW13-04	RHMW13-04-WGN01G-2408B	580-143286-1	8/26/2024		Laboratory Report, SDG 580-143286-1, Level 2	Laboratory Report, SDG 580-143286-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143286-1
NMW26	NMW26-WGN01LF-2408B	580-143286-1	8/26/2024		Laboratory Report, SDG 580-143286-1, Level 2	Laboratory Report, SDG 580-143286-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143286-1
RHMW17	RHMW17-WGN01LF-2408B	580-143286-1	8/26/2024		Laboratory Report, SDG 580-143286-1, Level 2	Laboratory Report, SDG 580-143286-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143286-1
RHP08C	RHP08C-WGN01LF-2408B	1244805	8/27/2024		Laboratory Report, SDG 1244805, Level 2	Laboratory Report, SDG 1244805, Level 4	Data Validation Report, Level S2BVEM, SDG 1244805
RHP04C	RHP04C-WGN01LF-2408B	1244805	8/27/2024		Laboratory Report, SDG 1244805, Level 2	Laboratory Report, SDG 1244805, Level 4	Data Validation Report, Level S2BVEM, SDG 1244805
RHMW04	RHMW04-WGN01LF-2408B	1244805	8/27/2024		Laboratory Report, SDG 1244805, Level 2	Laboratory Report, SDG 1244805, Level 4	Data Validation Report, Level S2BVEM, SDG 1244805
RHP04B	RHP04B-WGN01LF-2408B	1244805	8/27/2024		Laboratory Report, SDG 1244805, Level 2	Laboratory Report, SDG 1244805, Level 4	Data Validation Report, Level S2BVEM, SDG 1244805
NMW34	NMW34-WGN01LF-2408B	1244805	8/27/2024		Laboratory Report, SDG 1244805, Level 2	Laboratory Report, SDG 1244805, Level 4	Data Validation Report, Level S2BVEM, SDG 1244805
NMW34	NMW34-WGN01LF-2408B	24H0193	8/27/2024		Laboratory Report, SDG 24H0193, Level 2	Laboratory Report, SDG 24H0193, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0193
RHMW04	RHMW04-WGN01LF-2408B	24H0193	8/27/2024		Laboratory Report, SDG 24H0193, Level 2	Laboratory Report, SDG 24H0193, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0193
RHP08C	RHP08C-WGN01LF-2408B	24H0193	8/27/2024		Laboratory Report, SDG 24H0193, Level 2	Laboratory Report, SDG 24H0193, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0193
RHP04B	RHP04B-WGN01LF-2408B	24H0207	8/27/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
RHP04C	RHP04C-WGN01LF-2408B	24H0207	8/27/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
RHP08C	RHP08C-WGN01LF-2408B	580-143311-1	8/27/2024		Laboratory Report, SDG 580-143311-1, Level 2, Revision 1	Laboratory Report, SDG 580-143311-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-143311-1
RHP04C	RHP04C-WGN01LF-2408B	580-143311-1	8/27/2024		Laboratory Report, SDG 580-143311-1, Level 2, Revision 1	Laboratory Report, SDG 580-143311-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-143311-1
RHP04B	RHP04B-WGN01LF-2408B	580-143311-1	8/27/2024		Laboratory Report, SDG 580-143311-1, Level 2, Revision 1	Laboratory Report, SDG 580-143311-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-143311-1
RHMW04	RHMW04-WGN01LF-2408B	580-143311-1	8/27/2024		Laboratory Report, SDG 580-143311-1, Level 2, Revision 1	Laboratory Report, SDG 580-143311-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-143311-1
NMW34	NMW34-WGN01LF-2408B	580-143311-1	8/27/2024		Laboratory Report, SDG 580-143311-1, Level 2, Revision 1	Laboratory Report, SDG 580-143311-1, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 580-143311-1
NMW24	NMW24-WGN01LF-2408B	1244837	8/28/2024		Laboratory Report, SDG 1244837, Level 2	Laboratory Report, SDG 1244837, Level 4	Data Validation Report, Level S2BVEM, SDG 1244837
NMW25	NMW25-WGN01LF-2408B	1244837	8/28/2024		Laboratory Report, SDG 1244837, Level 2	Laboratory Report, SDG 1244837, Level 4	Data Validation Report, Level S2BVEM, SDG 1244837
OWDFMW03A	OWDFMW03A-WGN01LF-2408B	1244837	8/28/2024		Laboratory Report, SDG 1244837, Level 2	Laboratory Report, SDG 1244837, Level 4	Data Validation Report, Level S2BVEM, SDG 1244837
OWDFMW08A	OWDFMW08A-WGN01LF-2408B	1244837	8/28/2024		Laboratory Report, SDG 1244837, Level 2	Laboratory Report, SDG 1244837, Level 4	Data Validation Report, Level S2BVEM, SDG 1244837
RHMW20	RHMW20-WGN01LF-2408B	1244837	8/28/2024		Laboratory Report, SDG 1244837, Level 2	Laboratory Report, SDG 1244837, Level 4	Data Validation Report, Level S2BVEM, SDG 1244837
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
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-WGN01LF-2408B	FC18994	8/28/2024		Laboratory Report, SDG FC18994 Level 2	Laboratory Report, SDG FC18994 Level 4	—
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
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
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
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
OWDFMW03A	OWDFMW03A-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
OWDFMW08A	OWDFMW08A-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
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
OWDFMW08A	OWDFMW08A-WGN01LF-2408B	24H0207	8/28/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
OWDFMW03A	OWDFMW03A-WGN01LF-2408B	24H0207	8/28/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
NMW24	NMW24-WGN01LF-2408B	24H0207	8/28/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
NMW25	NMW25-WGN01LF-2408B	24H0207	8/28/2024		Laboratory Report, SDG 24H0207, Level 2, Revision 1	Laboratory Report, SDG 24H0207, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24H0207
RHMW20	RHMW20-WGN01LF-2408B	24H0241	8/28/2024		Laboratory Report, SDG 24H0241, Level 2	Laboratory Report, SDG 24H0241, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0241
NMW24	NMW24-WGN01LF-2408B	580-143346-1	8/28/2024		Laboratory Report, SDG 580-143346-1, Level 2	Laboratory Report, SDG 580-143346-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143346-1
NMW25	NMW25-WGN01LF-2408B	580-143346-1	8/28/2024		Laboratory Report, SDG 580-143346-1, Level 2	Laboratory Report, SDG 580-143346-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143346-1
OWDFMW03A	OWDFMW03A-WGN01LF-2408B	580-143346-1	8/28/2024		Laboratory Report, SDG 580-143346-1, Level 2	Laboratory Report, SDG 580-143346-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143346-1
OWDFMW08A	OWDFMW08A-WGN01LF-2408B	580-143346-1	8/28/2024		Laboratory Report, SDG 580-143346-1, Level 2	Laboratory Report, SDG 580-143346-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143346-1
RHMW20	RHMW20-WGN01LF-2408B	580-143346-1	8/28/2024		Laboratory Report, SDG 580-143346-1, Level 2	Laboratory Report, SDG 580-143346-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143346-1
NMW30	NMW30-WGN01LF-2408B	1244876	8/29/2024		Laboratory Report, SDG 1244876, Level 2	Laboratory Report, SDG 1244876, Level 4	Data Validation Report, Level S2BVEM, SDG 1244876
NMW32	NMW32-WGN01LF-2408B	1244876	8/29/2024		Laboratory Report, SDG 1244876, Level 2	Laboratory Report, SDG 1244876, Level 4	Data Validation Report, Level S2BVEM, SDG 1244876
NMW33	NMW33-WGN01LF-2408B	1244876	8/29/2024		Laboratory Report, SDG 1244876, Level 2	Laboratory Report, SDG 1244876, Level 4	Data Validation Report, Level S2BVEM, SDG 1244876

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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
RHMW18	RHMW18-WGN01LF-2408B	1244876	8/29/2024	(b) (4)	Laboratory Report, SDG 1244876, Level 2	Laboratory Report, SDG 1244876, Level 4	Data Validation Report, Level S2BVEM, SDG 1244876
RHMW18	RHMW18-WGN01LF-2408B	24H0241	8/29/2024		Laboratory Report, SDG 24H0241, Level 2	Laboratory Report, SDG 24H0241, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0241
NMW30	NMW30-WGN01LF-2408B	24H0241	8/29/2024		Laboratory Report, SDG 24H0241, Level 2	Laboratory Report, SDG 24H0241, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0241
NMW32	NMW32-WGN01LF-2408B	24H0241	8/29/2024		Laboratory Report, SDG 24H0241, Level 2	Laboratory Report, SDG 24H0241, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0241
NMW33	NMW33-WGN01LF-2408B	24H0241	8/29/2024		Laboratory Report, SDG 24H0241, Level 2	Laboratory Report, SDG 24H0241, Level 4	Data Validation Report, Level S2BVEM, SDG 24H0241
RHMW18	RHMW18-WGN01LF-2408B	580-143402-1	8/29/2024		Laboratory Report, SDG 580-143402-1, Level 2	Laboratory Report, SDG 580-143402-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143402-1
NMW33	NMW33-WGN01LF-2408B	580-143402-1	8/29/2024		Laboratory Report, SDG 580-143402-1, Level 2	Laboratory Report, SDG 580-143402-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143402-1
NMW32	NMW32-WGN01LF-2408B	580-143402-1	8/29/2024		Laboratory Report, SDG 580-143402-1, Level 2	Laboratory Report, SDG 580-143402-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143402-1
NMW30	NMW30-WGN01LF-2408B	580-143402-1	8/29/2024		Laboratory Report, SDG 580-143402-1, Level 2	Laboratory Report, SDG 580-143402-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143402-1
RHMW18	RHMW18-WGN01B-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW33	NMW33-WGN01LF-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW33	NMW33-WGN01B-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
RHMW18	RHMW18-WGN01LF-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW32	NMW32-WGN01B-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW30	NMW30-WGN01LF-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW30	NMW30-WGN01B-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
NMW32	NMW32-WGN01LF-2408B	FC18496	8/29/2024		Laboratory Report, SDG FC18496, Level 2	Laboratory Report, SDG FC18496, Level 4	Data Validation Report, Level 2B, SDG FC18496
HDMW2253-03	HDMW2253-03-WGN01LF-2408B	1244990	8/30/2024		Laboratory Report, SDG 1244990, Level 2	Laboratory Report, SDG 1244990, Level 4	Data Validation Report, Level S2BVEM, SDG 1244990
RHMW12A	RHMW12A-WGN01LF-2408B	1244990	8/30/2024		Laboratory Report, SDG 1244990, Level 2	Laboratory Report, SDG 1244990, Level 4	Data Validation Report, Level S2BVEM, SDG 1244990
HDMW2253-03	HDMW2253-03-WGN01LF-2408B	24I0017	8/30/2024		Laboratory Report, SDG 24I0017, Level 2	Laboratory Report, SDG 24I0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0017
RHMW12A	RHMW12A-WGN01LF-2408B	24I0017	8/30/2024		Laboratory Report, SDG 24I0017, Level 2	Laboratory Report, SDG 24I0017, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0017
HDMW2253-03	HDMW2253-03-WGN01LF-2408B	580-143431-1	8/30/2024		Laboratory Report, SDG 580-143431-1, Level 2	Laboratory Report, SDG 580-143431-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143431-1
RHMW12A	RHMW12A-WGN01LF-2408B	580-143431-1	8/30/2024		Laboratory Report, SDG 580-143431-1, Level 2	Laboratory Report, SDG 580-143431-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143431-1
HDMW2253-03	HDMW2253-03-WGN01LF-2408B	FC18544	8/30/2024		Laboratory Report, SDG FC18544, Level 2	Laboratory Report, SDG FC18544, Level 4	Data Validation Report, Level 2B, SDG FC18544
RHMW12A	RHMW12A-WGN01LF-2408B	FC18544	8/30/2024		Laboratory Report, SDG FC18544, Level 2	Laboratory Report, SDG FC18544, Level 4	Data Validation Report, Level 2B, SDG FC18544
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RHMW08	RHMW08-WGN01LF-2409A	1244989	9/3/2024		Laboratory Report, SDG 1244989, Level 2	Laboratory Report, SDG 1244989, Level 4	Data Validation Report, Level S2BVEM, SDG 1244989
RHMW16	RHMW16-WGN01LF-2409A	1244989	9/3/2024		Laboratory Report, SDG 1244989, Level 2	Laboratory Report, SDG 1244989, Level 4	Data Validation Report, Level S2BVEM, SDG 1244989
RHMW02	RHMW02-WGN01LF-2409A	1244989	9/3/2024		Laboratory Report, SDG 1244989, Level 2	Laboratory Report, SDG 1244989, Level 4	Data Validation Report, Level S2BVEM, SDG 1244989
RHMW01R	RHMW01R-WGN01LF-2409A	1244989	9/3/2024		Laboratory Report, SDG 1244989, Level 2	Laboratory Report, SDG 1244989, Level 4	Data Validation Report, Level S2BVEM, SDG 1244989
RHMW03	RHMW03-WGN01LF-2409A	1244989	9/3/2024		Laboratory Report, SDG 1244989, Level 2	Laboratory Report, SDG 1244989, Level 4	Data Validation Report, Level S2BVEM, SDG 1244989
RHMW02	RHMW02-WGN01LF-2409A	24I0015	9/3/2024		Laboratory Report, SDG 24I0015, Level 2	Laboratory Report, SDG 24I0015, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0015
RHMW03	RHMW03-WGN01LF-2409A	24I0015	9/3/2024		Laboratory Report, SDG 24I0015, Level 2	Laboratory Report, SDG 24I0015, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0016
RHMW08	RHMW08-WGN01LF-2409A	24I0015	9/3/2024		Laboratory Report, SDG 24I0015, Level 2	Laboratory Report, SDG 24I0015, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0017
RHMW16	RHMW16-WGN01LF-2409A	24I0015	9/3/2024		Laboratory Report, SDG 24I0015, Level 2	Laboratory Report, SDG 24I0015, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0018
RHMW01R	RHMW01R-WGN01LF-2409A	24I0026	9/3/2024		Laboratory Report, SDG 24I0026, Level 2	Laboratory Report, SDG 24I0026, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0026
RHMW01R	RHMW01R-WGN01LF-2409A	580-143492-1	9/3/2024		Laboratory Report, SDG 580-143492-1, Level 2	Laboratory Report, SDG 580-143492-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143492-1
RHMW02	RHMW02-WGN01LF-2409A	580-143492-1	9/3/2024		Laboratory Report, SDG 580-143492-1, Level 2	Laboratory Report, SDG 580-143492-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143492-1
RHMW03	RHMW03-WGN01LF-2409A	580-143492-1	9/3/2024		Laboratory Report, SDG 580-143492-1, Level 2	Laboratory Report, SDG 580-143492-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143492-1
RHMW08	RHMW08-WGN01LF-2409A	580-143492-1	9/3/2024		Laboratory Report, SDG 580-143492-1, Level 2	Laboratory Report, SDG 580-143492-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143492-1
RHMW16	RHMW16-WGN01LF-2409A	580-143492-1	9/3/2024		Laboratory Report, SDG 580-143492-1, Level 2	Laboratory Report, SDG 580-143492-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143492-1
RHMW03	RHMW03-WGN01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW08	RHMW08-WGN01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW03	RHMW03-WGN01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW16	RHMW16-WGN01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW08	RHMW08-WGN01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW02	RHMW02-WGN01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW02	RHMW02-WGFD01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW02	RHMW02-WGN01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW02	RHMW02-WGFD01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW01R	RHMW01R-WGN01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW01R	RHMW01R-WGN01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW01R	RHMW01R-WGFD01LF-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHMW01R	RHMW01R-WGFD01B-2409A	FC18543	9/3/2024		Laboratory Report, SDG FC18543, Level 2	Laboratory Report, SDG FC18543, Level 4	Data Validation Report, Level 2B, SDG FC18543, Revision
RHSF-PUMP	RHSF-PUMP-WGN01G-2409A	1245062	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW2254-01	RHMW2254-01-WGN01LF-2409A	1245062	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW21	RHMW21-WGN01LF-2409A	1245062	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW14-03	RHMW14-03-WGN01G-2409A	1245062	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW11-05	RHMW11-05-WGN01G-2409A	1245062	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW14-03	RHMW14-03-WGN01G-2409A	24I0026	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW2254-01	RHMW2254-01-WGN01LF-2409A	24I0026	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHSF-PUMP	RHSF-PUMP-WGN01G-2409A	24I0026	9/4/2024		Laboratory Report, SDG 1245062, Level 2	Laboratory Report, SDG 1245062, Level 4	Data Validation Report, Level S4VEM, SDG 1245062
RHMW11-05	RHMW11-05-WGN01G-2409A	24I0044	9/4/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0044
RHMW21	RHMW21-WGN01LF-2409A	24I0044	9/4/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0044
RHSF-PUMP	RHSF-PUMP-WGN01G-2409A	580-143523-1	9/4/2024		Laboratory Report, SDG 580-143523-1, Level 2	Laboratory Report, SDG 580-143523-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143523-1
RHMW2254-01	RHMW2254-01-WGN01LF-2409A	580-143523-1	9/4/2024		Laboratory Report, SDG 580-143523-1, Level 2	Laboratory Report, SDG 580-143523-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143523-1

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
RHMW11-05	RHMW11-05-WGN01G-2409A	580-143523-1	9/4/2024	(b) (4)	Laboratory Report, SDG 580-143523-1, Level 2	Laboratory Report, SDG 580-143523-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143523-1
RHMW14-03	RHMW14-03-WGN01G-2409A	580-143523-1	9/4/2024		Laboratory Report, SDG 580-143523-1, Level 2	Laboratory Report, SDG 580-143523-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143523-1
RHMW21	RHMW21-WGN01LF-2409A	580-143523-1	9/4/2024		Laboratory Report, SDG 580-143523-1, Level 2	Laboratory Report, SDG 580-143523-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143523-1
RHMW14-03	RHMW14-03-WGN01G-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHMW21	RHMW21-WGN01B-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHMW21	RHMW21-WGN01LF-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHMW2254-01	RHMW2254-01-WGN01B-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHMW2254-01	RHMW2254-01-WGN01LF-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHSF-PUMP	RHSF-PUMP-WGFD01G-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHSF-PUMP	RHSF-PUMP-WGN01G-2409A	FC18599	9/4/2024		Laboratory Report, SDG FC18599, Level 2, Revision 1	Laboratory Report, SDG FC18599, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18599
RHMW11-05	RHMW11-05-WGN01G-2409A	FC18632	9/4/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHP07	RHP07-WGN01LF-2409A	1245065	9/5/2024		Laboratory Report, SDG 1245065, Level 2	Laboratory Report, SDG 1245065, Level 4	Data Validation Report, Level S2BVEM, SDG 1245065
RHMW05	RHMW05-WGN01LF-2409A	1245065	9/5/2024		Laboratory Report, SDG 1245065, Level 2	Laboratory Report, SDG 1245065, Level 4	Data Validation Report, Level S2BVEM, SDG 1245065
RHMW15-05	RHMW15-05-WGN01G-2409A	1245065	9/5/2024		Laboratory Report, SDG 1245065, Level 2	Laboratory Report, SDG 1245065, Level 4	Data Validation Report, Level S2BVEM, SDG 1245065
RHP01	RHP01-WGN01LF-2409A	1245065	9/5/2024		Laboratory Report, SDG 1245065, Level 2	Laboratory Report, SDG 1245065, Level 4	Data Validation Report, Level S2BVEM, SDG 1245065
RHP01	RHP01-WGN01LF-2409A	24I0044	9/5/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0044
RHP07	RHP07-WGN01LF-2409A	24I0044	9/5/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0045
RHMW05	RHMW05-WGN01LF-2409A	24I0044	9/5/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0046
RHMW15-05	RHMW15-05-WGN01G-2409A	24I0056	9/5/2024		Laboratory Report, SDG 24I0044, Level 2	Laboratory Report, SDG 24I0044, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0047
RHP07	RHP07-WGN01LF-2409A	580-143573-1	9/5/2024		Laboratory Report, SDG 580-143573-1, Level 2	Laboratory Report, SDG 580-143573-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143573-1
RHP01	RHP01-WGN01LF-2409A	580-143573-1	9/5/2024		Laboratory Report, SDG 580-143573-1, Level 2	Laboratory Report, SDG 580-143573-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143573-1
RHMW05	RHMW05-WGN01LF-2409A	580-143573-1	9/5/2024		Laboratory Report, SDG 580-143573-1, Level 2	Laboratory Report, SDG 580-143573-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143573-1
RHMW15-05	RHMW15-05-WGN01G-2409A	580-143573-1	9/5/2024		Laboratory Report, SDG 580-143573-1, Level 2	Laboratory Report, SDG 580-143573-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143573-1
RHMW05	RHMW05-WGN01B-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHMW05	RHMW05-WGN01LF-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHMW15-05	RHMW15-05-WGN01G-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHP01	RHP01-WGN01B-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHP01	RHP01-WGN01LF-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHP07	RHP07-WGN01B-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHP07	RHP07-WGN01LF-2409A	FC18632	9/5/2024		Laboratory Report, SDG FC18632, Level 2, Revision 1	Laboratory Report, SDG FC18632, Level 4, Revision 1	Data Validation Report, Level 4, SDG FC18632
RHMW10	RHMW10-WGN01LF-2409A	1245182	9/6/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHMW19	RHMW19-WGN01LF-2409A	1245182	9/6/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP02	RHP02-WGN01LF-2409A	1245182	9/6/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP06	RHP06-WGN01LF-2409A	1245182	9/6/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP06	RHP06-WGN01LF-2409A	24I0056	9/6/2024		Laboratory Report, SDG 24I0056, Level 2	Laboratory Report, SDG 24I0056, Level 4	Data Validation Report, Level S4VEM, SDG 24I0056
RHP02	RHP02-WGN01LF-2409A	24I0056	9/6/2024		Laboratory Report, SDG 24I0056, Level 2	Laboratory Report, SDG 24I0056, Level 4	Data Validation Report, Level S4VEM, SDG 24I0056
RHMW19	RHMW19-WGN01LF-2409A	24I0056	9/6/2024		Laboratory Report, SDG 24I0056, Level 2	Laboratory Report, SDG 24I0056, Level 4	Data Validation Report, Level S4VEM, SDG 24I0056
RHMW10	RHMW10-WGN01LF-2409A	24I0056	9/6/2024		Laboratory Report, SDG 24I0056, Level 2	Laboratory Report, SDG 24I0056, Level 4	Data Validation Report, Level S4VEM, SDG 24I0056
RHMW10	RHMW10-WGN01LF-2409A	580-143608-1	9/6/2024		Laboratory Report, SDG 580-143608-1, Level 2	Laboratory Report, SDG 580-143608-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143608-1
RHMW19	RHMW19-WGN01LF-2409A	580-143608-1	9/6/2024		Laboratory Report, SDG 580-143608-1, Level 2	Laboratory Report, SDG 580-143608-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143608-1
RHP02	RHP02-WGN01LF-2409A	580-143608-1	9/6/2024		Laboratory Report, SDG 580-143608-1, Level 2	Laboratory Report, SDG 580-143608-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143608-1
RHP06	RHP06-WGN01LF-2409A	580-143608-1	9/6/2024		Laboratory Report, SDG 580-143608-1, Level 2	Laboratory Report, SDG 580-143608-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143608-1
OWDFMW03A	OWDFMW03A-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHMW09	RHMW09-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP03	RHP03-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP04A	RHP04A-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP05	RHP05-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP08	RHP08-WGN01LF-2409A	1245182	9/9/2024		Laboratory Report, SDG 1245182, Level 2	Laboratory Report, SDG 1245182, Level 4	Data Validation Report, Level S2BVEM, SDG 1245182
RHP04A	RHP04A-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
RHP03	RHP03-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
RHP05	RHP05-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
OWDFMW03A	OWDFMW03A-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
RHMW09	RHMW09-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
RHP08	RHP08-WGN01LF-2409A	24I0077	9/9/2024		Laboratory Report, SDG 24I0077, Level 2, Revision 1	Laboratory Report, SDG 24I0077, Level 4, Revision 1	Data Validation Report, Level S2BVEM, SDG 24I0077
RHP05	RHP05-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
RHP08	RHP08-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
RHP03	RHP03-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
OWDFMW03A	OWDFMW03A-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
RHMW09	RHMW09-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
RHP04A	RHP04A-WGN01LF-2409A	580-143678-1	9/9/2024		Laboratory Report, SDG 580-143678-1, Level 2, Revision 1	Laboratory Report, SDG 580-143678-1, Level 4, Revision 1	Data Validation Report, Level S4VEM, SDG 580-143678-1
OWDFMW03A	OWDFMW03A-WGN01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHMW09	RHMW09-WGN01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHMW09	RHMW09-WGN01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP03	RHP03-WGN01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP03	RHP03-WGN01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP04A	RHP04A-WGN01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707

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
RHP04A	RHP04A-WGN01LF-2409A	FC18707	9/9/2024	(b) (4)	Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP05	RHP05-WGN01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP05	RHP05-WGN01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP08	RHP08-WGFD01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP08	RHP08-WGFD01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP08	RHP08-WGN01B-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHP08	RHP08-WGN01LF-2409A	FC18707	9/9/2024		Laboratory Report, SDG FC18707, Level 2	Laboratory Report, SDG FC18707, Level 4	Data Validation Report, Level 2B, SDG FC18707
RHMW13-04	RHMW13-04-WGN01G-2409A	1245223	9/10/2024		Laboratory Report, SDG 1245223, Level 2	Laboratory Report, SDG 1245223, Level 4	Data Validation Report, Level S2BVEM, SDG 1245223
RHMW13-04	RHMW13-04-WGN01G-2409A	24I0095	9/10/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
RHMW13-04	RHMW13-04-WGN01G-2409A	580-143713-1	9/10/2024		Laboratory Report, SDG 580-143713-1, Level 2	Laboratory Report, SDG 580-143713-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143713-1
RHMW13-04	RHMW13-04-WGN01G-2409A	FC18728	9/10/2024		Laboratory Report, SDG FC18728, Level 2, Revision 1	Laboratory Report, SDG FC18728, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18707
NMW26	NMW26-WGN01LF-2409A	24I0095	9/11/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
NMW32	NMW32-WGN01LF-2409A	24I0095	9/11/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
OWDFMW08A	OWDFMW08A-WGN01LF-2409A	24I0095	9/11/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
RHP04B	RHP04B-WGN01LF-2409A	24I0095	9/11/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
RHP04C	RHP04C-WGN01LF-2409A	24I0095	9/11/2024		Laboratory Report, SDG 24I0095, Level 2	Laboratory Report, SDG 24I0095, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0095
RHP04B	RHP04B-WGN01LF-2409A	580-143783-1	9/11/2024		Laboratory Report, SDG 580-143783-1, Level 2	Laboratory Report, SDG 580-143783-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143783-1
OWDFMW08A	OWDFMW08A-WGN01LF-2409A	580-143783-1	9/11/2024		Laboratory Report, SDG 580-143783-1, Level 2	Laboratory Report, SDG 580-143783-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143783-1
RHP04C	RHP04C-WGN01LF-2409A	580-143783-1	9/11/2024		Laboratory Report, SDG 580-143783-1, Level 2	Laboratory Report, SDG 580-143783-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143783-1
NMW26	NMW26-WGN01LF-2409A	580-143783-1	9/11/2024		Laboratory Report, SDG 580-143783-1, Level 2	Laboratory Report, SDG 580-143783-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143783-1
NMW32	NMW32-WGN01LF-2409A	580-143783-1	9/11/2024		Laboratory Report, SDG 580-143783-1, Level 2	Laboratory Report, SDG 580-143783-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143783-1
NMW26	NMW26-WGN01B-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
NMW26	NMW26-WGN01LF-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
NMW32	NMW32-WGN01B-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
NMW32	NMW32-WGN01LF-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
OWDFMW08A	OWDFMW08A-WGN01LF-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
RHP04B	RHP04B-WGN01LF-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
RHP04C	RHP04C-WGN01LF-2409A	FC18788	9/11/2024		Laboratory Report, SDG FC18788, Level 2, Revision 1	Laboratory Report, SDG FC18788, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18788
NMW33	NMW33-WGN01LF-2409A	1245281	9/12/2024		Laboratory Report, SDG 1245281, Level 2	Laboratory Report, SDG 1245281, Level 4	Data Validation Report, Level S2BVEM, SDG 1245281
NMW34	NMW34-WGN01LF-2409A	1245281	9/12/2024		Laboratory Report, SDG 1245281, Level 2	Laboratory Report, SDG 1245281, Level 4	Data Validation Report, Level S2BVEM, SDG 1245281
NMW25	NMW25-WGN01LF-2409A	1245281	9/12/2024		Laboratory Report, SDG 1245281, Level 2	Laboratory Report, SDG 1245281, Level 4	Data Validation Report, Level S2BVEM, SDG 1245281
NMW24	NMW24-WGN01LF-2409A	1245281	9/12/2024		Laboratory Report, SDG 1245281, Level 2	Laboratory Report, SDG 1245281, Level 4	Data Validation Report, Level S2BVEM, SDG 1245281
NMW30	NMW30-WGN01LF-2409A	1245281	9/12/2024		Laboratory Report, SDG 1245281, Level 2	Laboratory Report, SDG 1245281, Level 4	Data Validation Report, Level S2BVEM, SDG 1245281
NMW24	NMW24-WGN01LF-2409A	24I0106	9/12/2024		Laboratory Report, SDG 24I0106, Level 2	Laboratory Report, SDG 24I0106, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0106
NMW25	NMW25-WGN01LF-2409A	24I0106	9/12/2024		Laboratory Report, SDG 24I0106, Level 2	Laboratory Report, SDG 24I0106, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0106
NMW30	NMW30-WGN01LF-2409A	24I0106	9/12/2024		Laboratory Report, SDG 24I0106, Level 2	Laboratory Report, SDG 24I0106, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0106
NMW33	NMW33-WGN01LF-2409A	24I0106	9/12/2024		Laboratory Report, SDG 24I0106, Level 2	Laboratory Report, SDG 24I0106, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0106
NMW34	NMW34-WGN01LF-2409A	24I0106	9/12/2024		Laboratory Report, SDG 24I0106, Level 2	Laboratory Report, SDG 24I0106, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0106
NMW24	NMW24-WGN01LF-2409A	580-143831-1	9/12/2024		Laboratory Report, SDG 580-143831-1, Level 2	Laboratory Report, SDG 580-143831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143831-1
NMW25	NMW25-WGN01LF-2409A	580-143831-1	9/12/2024		Laboratory Report, SDG 580-143831-1, Level 2	Laboratory Report, SDG 580-143831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143831-1
NMW30	NMW30-WGN01LF-2409A	580-143831-1	9/12/2024		Laboratory Report, SDG 580-143831-1, Level 2	Laboratory Report, SDG 580-143831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143831-1
NMW33	NMW33-WGN01LF-2409A	580-143831-1	9/12/2024		Laboratory Report, SDG 580-143831-1, Level 2	Laboratory Report, SDG 580-143831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143831-1
NMW34	NMW34-WGN01LF-2409A	580-143831-1	9/12/2024		Laboratory Report, SDG 580-143831-1, Level 2	Laboratory Report, SDG 580-143831-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143831-1
NMW34	NMW34-WGN01LF-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW34	NMW34-WGN01B-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW33	NMW33-WGN01LF-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW33	NMW33-WGN01B-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW30	NMW30-WGN01LF-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW25	NMW25-WGN01LF-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW25	NMW25-WGN01B-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW24	NMW24-WGN01LF-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW24	NMW24-WGN01B-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
NMW30	NMW30-WGN01B-2409A	FC18841	9/12/2024		Laboratory Report, SDG FC18841, Level 2, Revision 1	Laboratory Report, SDG FC18841, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18841
HDMW2253-03	HDMW2253-03-WGN01LF-2409A	1245344	9/13/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW12A	RHMW12A-WGN01LF-2409A	1245344	9/13/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW18	RHMW18-WGN01LF-2409A	1245344	9/13/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHP08C	RHP08C-WGN01LF-2409A	1245344	9/13/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHP08C	RHP08C-WGN01LF-2409A	24I0119	9/13/2024		Laboratory Report, SDG 24I0119, Level 2	Laboratory Report, SDG 24I0119, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0119
RHMW18	RHMW18-WGN01LF-2409A	24I0119	9/13/2024		Laboratory Report, SDG 24I0119, Level 2	Laboratory Report, SDG 24I0119, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0119
HDMW2253-03	HDMW2253-03-WGN01LF-2409A	24I0119	9/13/2024		Laboratory Report, SDG 24I0119, Level 2	Laboratory Report, SDG 24I0119, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0119
RHMW12A	RHMW12A-WGN01LF-2409A	24I0119	9/13/2024		Laboratory Report, SDG 24I0119, Level 2	Laboratory Report, SDG 24I0119, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0119
HDMW2253-03	HDMW2253-03-WGN01LF-2409A	580-143874-1	9/13/2024		Laboratory Report, SDG 580-143874-1, Level 2	Laboratory Report, SDG 580-143874-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143874-1
RHMW12A	RHMW12A-WGN01LF-2409A	580-143874-1	9/13/2024		Laboratory Report, SDG 580-143874-1, Level 2	Laboratory Report, SDG 580-143874-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143874-1
RHMW18	RHMW18-WGN01LF-2409A	580-143874-1	9/13/2024		Laboratory Report, SDG 580-143874-1, Level 2	Laboratory Report, SDG 580-143874-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143874-1
RHP08C	RHP08C-WGN01LF-2409A	580-143874-1	9/13/2024		Laboratory Report, SDG 580-143874-1, Level 2	Laboratory Report, SDG 580-143874-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143874-1
RHP08C	RHP08C-WGN01LF-2409A	FC18846	9/13/2024		Laboratory Report, SDG FC18846, Level 2, Revision 1	Laboratory Report, SDG FC18846, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18846

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
RHMW18	RHMW18-WGN01LF-2409A	FC18846	9/13/2024	(b) (4)	Laboratory Report, SDG FC18846, Level 2, Revision 1	Laboratory Report, SDG FC18846, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18846
HDMW2253-03	HDMW2253-03-WGN01LF-2409A	FC18846	9/13/2024		Laboratory Report, SDG FC18846, Level 2, Revision 1	Laboratory Report, SDG FC18846, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18846
RHMW12A	RHMW12A-WGN01LF-2409A	FC18846	9/13/2024		Laboratory Report, SDG FC18846, Level 2, Revision 1	Laboratory Report, SDG FC18846, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18846
RHMW18	RHMW18-WGN01B-2409A	FC18846	9/13/2024		Laboratory Report, SDG FC18846, Level 2, Revision 1	Laboratory Report, SDG FC18846, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18846
RHMW01R	RHMW01R-WGN01LF-2409B	1245344	9/16/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW08	RHMW08-WGN01LF-2409B	1245344	9/16/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW15-05	RHMW15-05-WGN01G-2409B	1245344	9/16/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW21	RHMW21-WGN01LF-2409B	1245344	9/16/2024		Laboratory Report, SDG 1245344, Level 2	Laboratory Report, SDG 1245344, Level 4	Data Validation Report, Level S2BVEM, SDG 1245344
RHMW01R	RHMW01R-WGN01LF-2409B	24I0128	9/16/2024		Laboratory Report, SDG 24I0128, Level 2	Laboratory Report, SDG 24I0128, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0128
RHMW08	RHMW08-WGN01LF-2409B	24I0128	9/16/2024		Laboratory Report, SDG 24I0128, Level 2	Laboratory Report, SDG 24I0128, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0128
RHMW15-05	RHMW15-05-WGN01G-2409B	24I0128	9/16/2024		Laboratory Report, SDG 24I0128, Level 2	Laboratory Report, SDG 24I0128, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0128
RHMW21	RHMW21-WGN01LF-2409B	24I0128	9/16/2024		Laboratory Report, SDG 24I0128, Level 2	Laboratory Report, SDG 24I0128, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0128
RHMW01R	RHMW01R-WGN01LF-2409B	580-143931-1	9/16/2024		Laboratory Report, SDG 580-143931-1, Level 2	Laboratory Report, SDG 580-143931-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143931-1
RHMW08	RHMW08-WGN01LF-2409B	580-143931-1	9/16/2024		Laboratory Report, SDG 580-143931-1, Level 2	Laboratory Report, SDG 580-143931-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143931-1
RHMW15-05	RHMW15-05-WGN01G-2409B	580-143931-1	9/16/2024		Laboratory Report, SDG 580-143931-1, Level 2	Laboratory Report, SDG 580-143931-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143931-1
RHMW21	RHMW21-WGN01LF-2409B	580-143931-1	9/16/2024		Laboratory Report, SDG 580-143931-1, Level 2	Laboratory Report, SDG 580-143931-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143931-1
RHMW21	RHMW21-WGN01LF-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
RHMW21	RHMW21-WGN01B-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
RHMW15-05	RHMW15-05-WGN01G-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
RHMW08	RHMW08-WGN01LF-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
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RHMW01R	RHMW01R-WGN01B-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
RHMW01R	RHMW01R-WGFD01LF-2409B	FC18893	9/16/2024		Laboratory Report, SDG FC18893, Level 2, Revision 1	Laboratory Report, SDG FC18893, Level 4, Revision 1	Data Validation Report, Level 2B, SDG FC18893
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RHP05	RHP05-WGN01LF-2409B	1245370	9/17/2024		Laboratory Report, SDG 1245370, Level 2	Laboratory Report, SDG 1245370, Level 4	Data Validation Report, Level S4VEM, SDG 1245370
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RHSF-PUMP	RHSF-PUMP-WGN01G-2409B	24I0143	9/17/2024		Laboratory Report, SDG 24I0143, Level 2	Laboratory Report, SDG 24I0143, Level 4	Data Validation Report, Level S2BVEM, SDG 24I0143
RHP08	RHP08-WGN01LF-2409B	580-143974-1	9/17/2024		Laboratory Report, SDG 580-143974-1, Level 2	Laboratory Report, SDG 580-143974-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143974-1
RHSF-PUMP	RHSF-PUMP-WGN01G-2409B	580-143974-1	9/17/2024		Laboratory Report, SDG 580-143974-1, Level 2	Laboratory Report, SDG 580-143974-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143974-1
RHP05	RHP05-WGN01LF-2409B	580-143974-1	9/17/2024		Laboratory Report, SDG 580-143974-1, Level 2	Laboratory Report, SDG 580-143974-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143974-1
RHMW2254-01	RHMW2254-01-WGN01LF-2409B	580-143974-1	9/17/2024		Laboratory Report, SDG 580-143974-1, Level 2	Laboratory Report, SDG 580-143974-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143974-1
RHP04A	RHP04A-WGN01LF-2409B	580-143974-1	9/17/2024		Laboratory Report, SDG 580-143974-1, Level 2	Laboratory Report, SDG 580-143974-1, Level 4	Data Validation Report, Level S2BVEM, SDG 580-143974-1
RHMW2254-01	RHMW2254-01-WGN01B-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
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RHP05	RHP05-WGN01B-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHP05	RHP05-WGN01LF-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHP08	RHP08-WGN01LF-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHSF-PUMP	RHSF-PUMP-WGFD01G-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHSF-PUMP	RHSF-PUMP-WGN01G-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHP08	RHP08-WGN01B-2409B	FC18945	9/17/2024		Laboratory Report, SDG FC18945, Level 2	Laboratory Report, SDG FC18945, Level 4	Data Validation Report, Level 2B, SDG FC18945
RHP07	RHP07-WGN01LF-2409B	1245408	9/18/2024		Laboratory Report, SDG 1245408, Level 2	Laboratory Report, SDG 1245408, Level 4	Data Validation Report, Level S2BVEM, SDG 1245408

Appendix E – EDMS Navigation

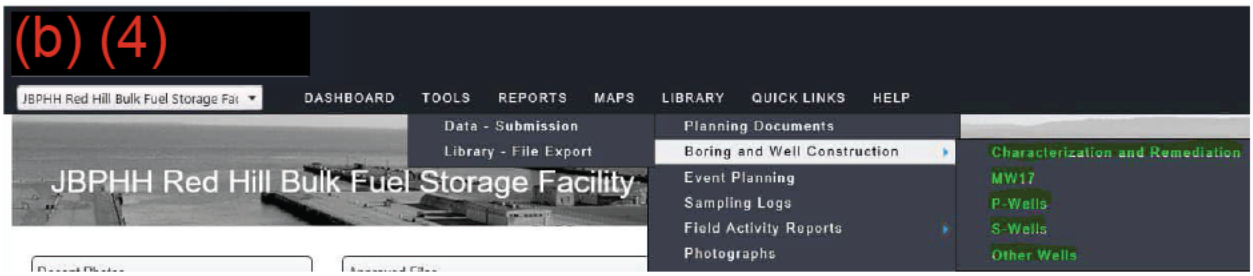
Detailed data referenced in this Quarterly Release Response Report are provided in the JBPHH Red Hill Bulk Fuel Storage Facility Environmental Data Management System (EDMS) at (b) (4)

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

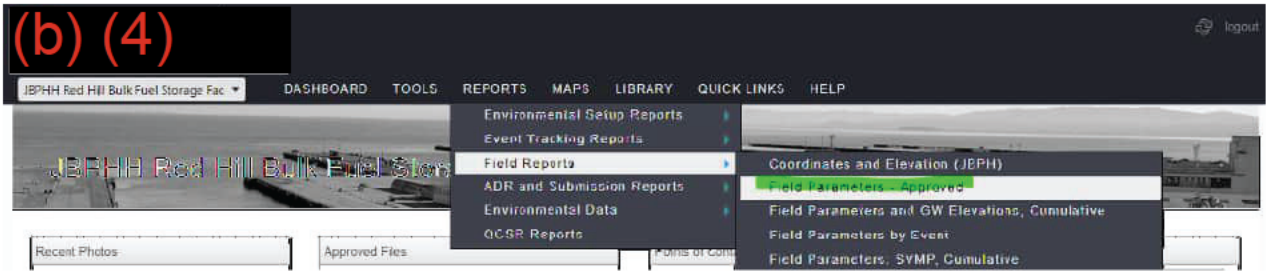
Boring and Well Construction Logs: Approved boring and well construction logs can be accessed through Library → Boring and Well Construction:

- **Boring and Well Construction Subcategories:** Characterization and Remediation, MW17 (RHMW17), P-Wells (Delineation), S-Wells (Sentinel), and Other Wells (NOI and GW LTM).

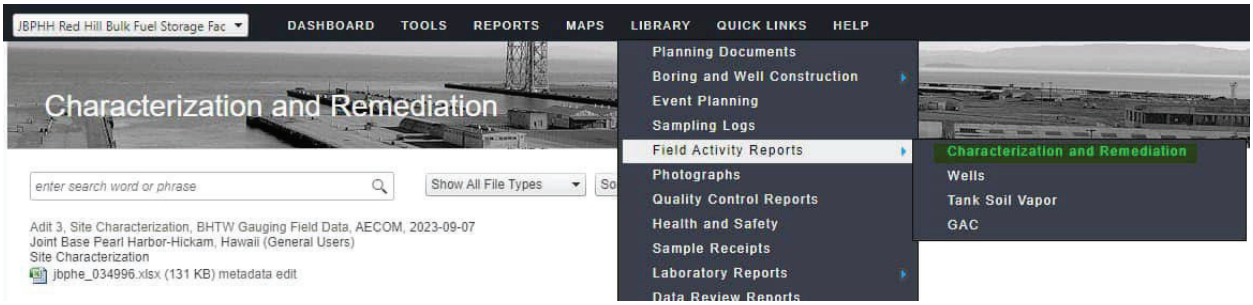


Groundwater Quality Parameter Data: Approved groundwater quality parameter data can be accessed through Reports → Field Reports → Field Parameters – Approved:

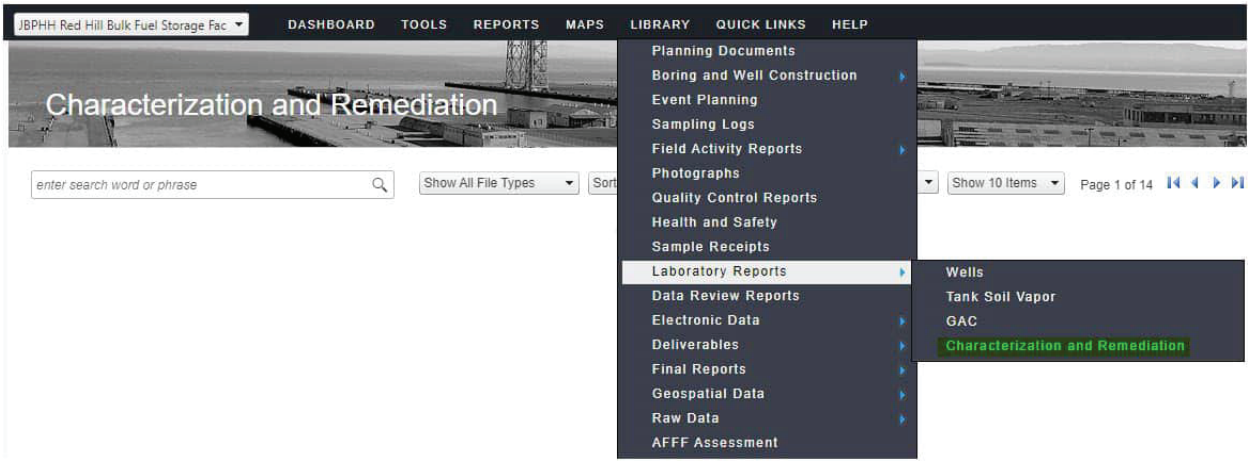
- NOI data are stored under RHS Recovery and Monitoring.
- Delineation and Sentinel Well data are stored under JBPHH Site Characterization.
- Consolidated Groundwater Program data are stored under RH Consolidated Groundwater Project.
- Long Term Groundwater Program data are stored under RH Long Term Groundwater Project.



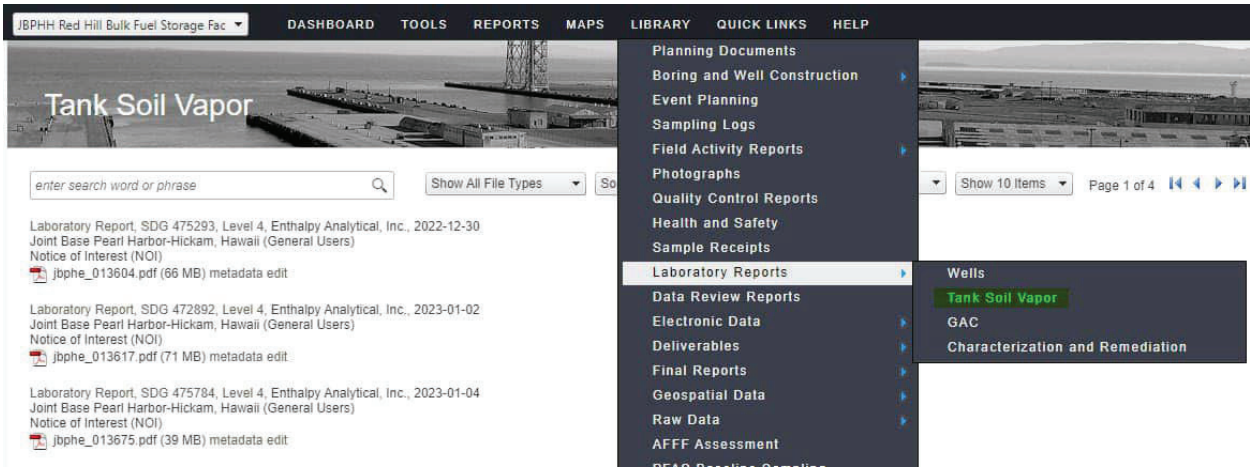
Characterization and Remediation Data: Approved characterization and remediation raw data can be accessed through Library → Field Activity Reports → Characterization and Remediation.



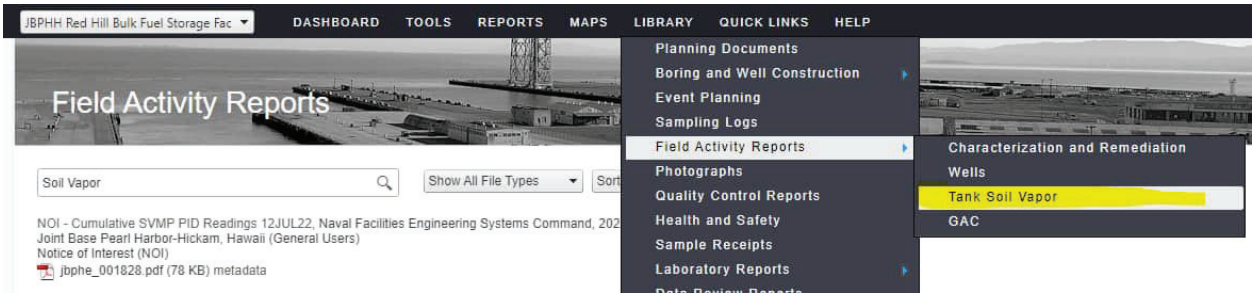
Characterization and Remediation Analytical Laboratory Reports: Approved characterization analytical laboratory reports can be accessed through Library → Laboratory Reports → Characterization and Remediation.



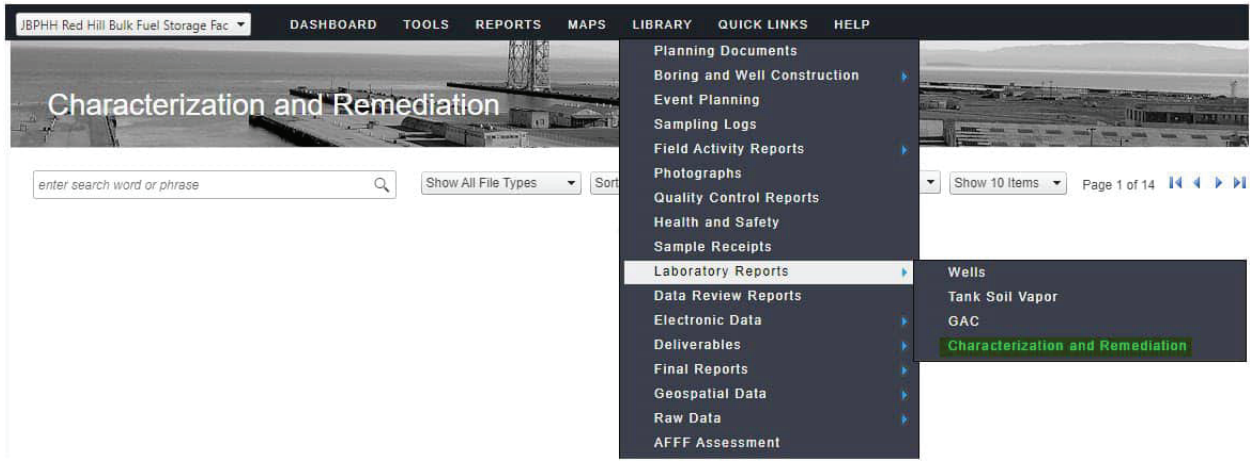
Soil Vapor Analytical Laboratory Reports – Below Tank Sampling Locations: Approved soil vapor monitoring analytical laboratory reports for below tank locations can be accessed through Library → Laboratory Reports → Tank Soil Vapor.



Soil Vapor Data– Below Tank Sampling Locations: Cumulative soil vapor data can be accessed through Library → Field Activity Reports → Tank Soil Vapor.

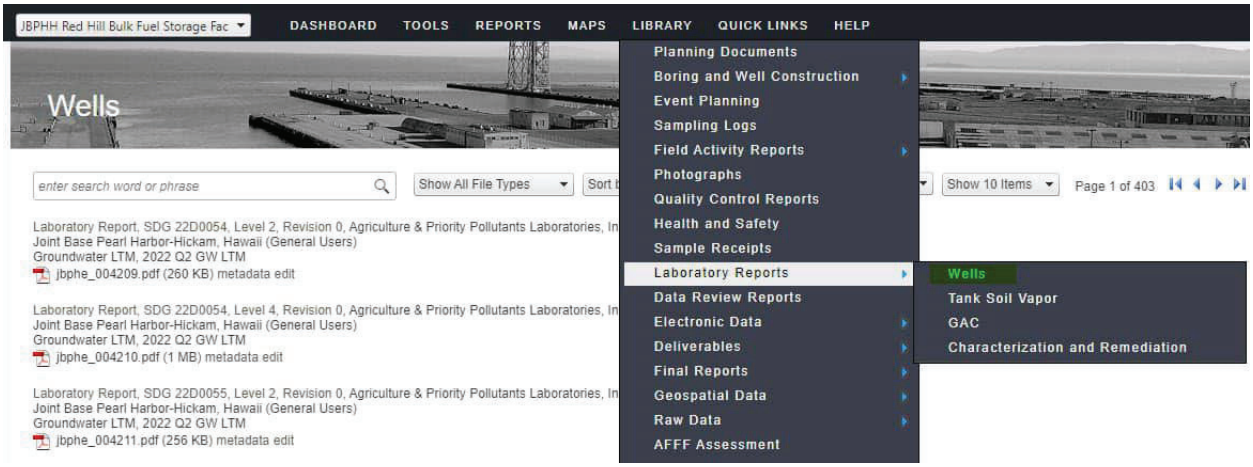


Soil Vapor Analytical Laboratory Reports – Adit 3 Tunnel Sampling Locations: Approved soil vapor monitoring analytical laboratory reports for Adit 3 Tunnel sampling locations can be accessed through Library → Laboratory Reports → Characterization and Remediation.



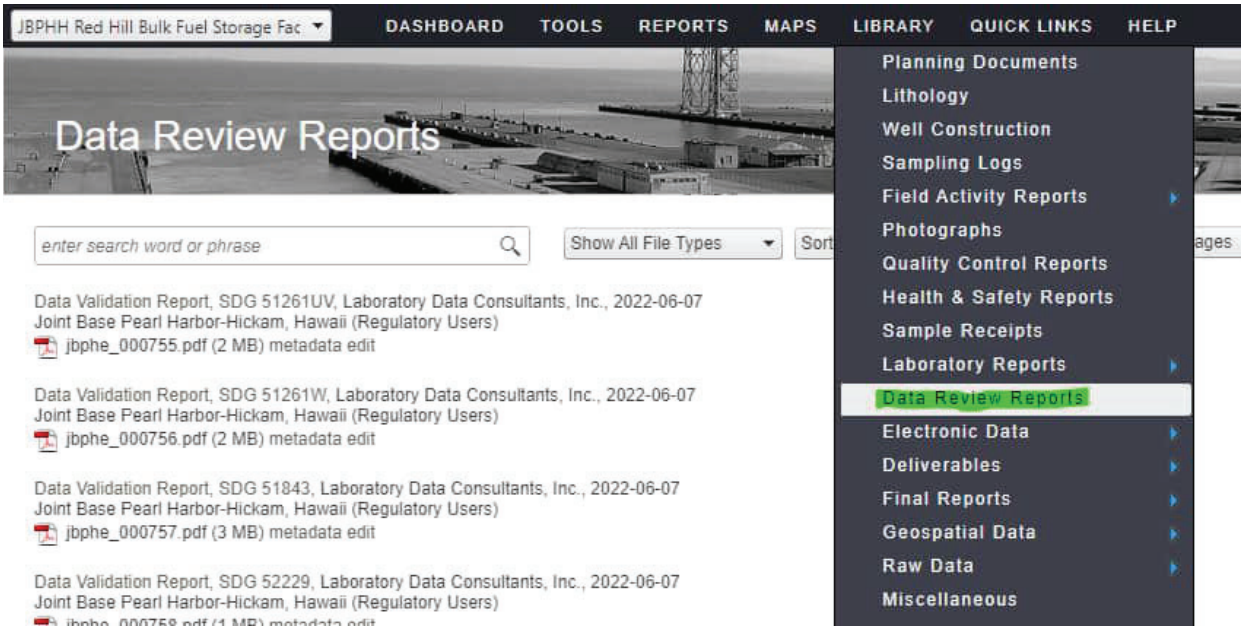
Groundwater Analytical Laboratory Reports: Approved groundwater monitoring analytical laboratory reports can be accessed through Library → Laboratory Reports:

- **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.



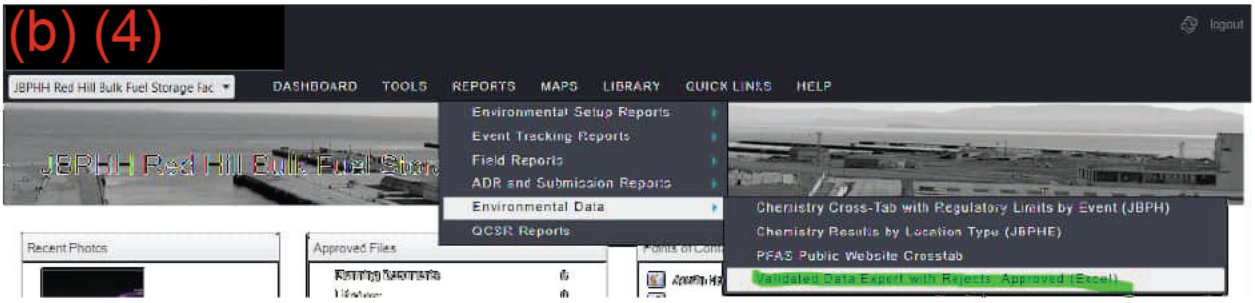
Data Validation Reports: Data validation reports can be accessed through Library → Data Review Reports:

- Coverage for data validation reports are Notice of Interest (NOI), P-Wells (Delineation), S-Wells (Sentinel), Groundwater LTM, and Consolidated Groundwater Program.



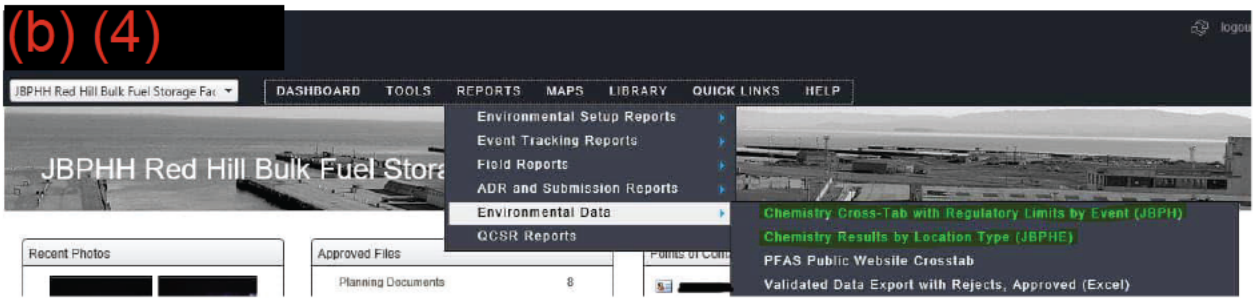
Data Validation Qualifier Tables: Qualified validation results for groundwater data for this reporting period can be accessed through Reports → Environmental Data → Validated Data Export with Rejects, Approved (Excel):

- 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 HAWAI'I
DEPARTMENT OF HEALTH
KA 'OIHANA 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, Hawai'i 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 Hawai'i 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 Hawai'i (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) (3) (A), Red Hill Project Coordinator at (b) (6) @doh.hawaii.gov or (b) (6).

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